



SAN DIEGO STATE  
UNIVERSITY



# General Catalog

2010-2011

# 2010–2011 General Catalog

## and Announcement of Courses



*President Stephen L. Weber*

5500 Campanile Drive  
San Diego, CA 92182  
619-594-5200

Homepage:  
[www.sdsu.edu](http://www.sdsu.edu)

Catalog Web site:  
[www.sdsu.edu/catalog](http://www.sdsu.edu/catalog)

## Welcome to SDSU

San Diego State University is the largest university in San Diego and the fifth largest in California. Our campus community is home to more than 33,000 students and approximately 6,000 faculty and staff.

At SDSU, faculty, staff, students, and community partners come together to pursue knowledge and meet the challenges of our region and our world. The educational process is not confined to classrooms and laboratories. It flows seamlessly wherever faculty and students come together—in traditional campus settings, in the community, and in the international arena. Faculty members exemplify the integrated role of teacher/scholar, enabling students to learn through both interaction and participation in ongoing research efforts and community-based learning projects. This pedagogical approach allows students to apply classroom learning to real-world challenges. San Diego State's reputation for academic excellence and practical problem-solving inspires the confidence of community leaders, who look to SDSU for ideas and solutions.

San Diego State is characterized by remarkable students, exceptional faculty and innovative programs. We are an intellectual community committed to the ideals of diversity and dedicated to human growth and development. All of these attributes make San Diego State a vibrant university whose graduates are well prepared to serve our region, our state and our nation.

Visit President Weber's Web site at:  
<http://advancement.sdsu.edu/presidentweber>



# Academic Excellence

## Campus Community

SDSU is a community of people committed to student success. As the oldest and largest higher education institution in the San Diego region, SDSU has deep roots and connections. You'll have access to valuable internships, volunteer opportunities, and practical wisdom from experts in your field of study to enhance your classroom instruction.

## What is Your SDSU?

San Diego State University is an academically rich urban university that provides endless possibilities for students. SDSU offers bachelor's degrees in 84 areas, master's degrees in 76, one educational specialist degree (Ed.S.), research doctorates (Ph.D./Ed.D.) in 16 areas, and one professional doctorate (Au.D.). SDSU is a place to challenge yourself... to take your education into your own hands and carve out your future.

With award-winning professors, top-notch research facilities, and a location that serves as the gateway to Latin America and the Pacific Rim, SDSU gives you the tools to expand your knowledge and your potential. This is your journey... discover how to make SDSU your own.

## Make a Difference

SDSU alumni from all fields of study make a difference not only in the San Diego region, but also around the world. What difference will you make? Start imagining now.

*San Diego State University is dedicated to preparing students for success in today's rapidly changing world. Our students, faculty, staff and alumni strive for excellence in all they do: as scholars, as community members, and as participants in the quest for human advancement.*





## Diversity

SDSU's urban, cosmopolitan campus reflects the healthy diversity of our region and the world beyond. Students from all walks of life and more than 90 nations contribute to SDSU's dynamic mix of ethnic, racial, and social backgrounds. More than 40 percent of our student population come from traditionally underrepresented groups.

## Value

SDSU's low cost of tuition allows your college dollars—including any financial aid or scholarship money—to go much farther. In-state fees for SDSU are among the lowest in the nation for a four-year university. In fact, fees at SDSU are approximately half the national, public university average.

All this adds up to value: an academically competitive university coupled with affordable costs! As the university's academic reputation continues to increase, the value of an SDSU degree is worth more than ever before.

SDSU's 283-acre campus provides ample classrooms and laboratories, as well as on-campus housing. A state-of-the-art library, student union, recital hall, performing arts theatres, health center, modern recreation center, 12,000-seat sports and performance arena, and top-quality baseball stadium all enhance student life. The campus also maintains two astronomical observatories, public broadcast radio and television stations, and seismology and weather stations. With Division I NCAA athletics and a multitude of opportunities outside the classroom, SDSU offers something for everyone.

## Admission

SDSU is an increasingly popular campus, known for the quality of its academic programs. Students may have to meet criteria beyond those required by the California State University system to be considered for admission.



*San Diego, the second largest city in California, is a thriving cultural, scientific and educational center.*



## San Diego: An International Hub

On the Pacific Rim and bordering Mexico, San Diego offers a wide variety of social and cultural activities. Known for its near-perfect climate, miles of sandy beaches, the world-famous San Diego Zoo, and fun-filled waterfront activities, San Diego is also recognized globally as a growing academic and research mecca. San Diego's geographic location and diverse regional population help make the area a dynamic international hub.

### International Education

SDSU encourages students to engage in international educational opportunities. Each year, we welcome thousands of international students who provide enriching cultural interaction for the campus community. Our study abroad program is unparalleled in the opportunities offered to SDSU students. For more information, contact the International Student Center at [www.sdsu.edu/isc](http://www.sdsu.edu/isc).

**International Students**—The International Student Center provides services and programs to meet the needs of international students. The American Language Institute provides English language instruction for international students and professionals.

**Study Abroad Programs**—Students in study abroad programs gain intercultural communication skills, international understanding, a broader view of the world, lifelong friendships, foreign language skills, and self-awareness. SDSU has been ranked second in the nation in its class for study abroad for the past four years. Join more than 1,600 students who study abroad each year in approximately 50 countries, including Australia, Spain, Japan, Mexico, and China.

**Academic Programs**—International academic programs include the Center for International Business Education and Research; International Security and Conflict Resolution; and the International Business major, which is the largest program of its kind in the nation.

# Student Life

SDSU enjoys a well-deserved reputation for an abundance of student activities outside the classroom. Whether you want to play a sport, join an honor society, lead a community service project, live on SDSU's fraternity row, write for the student newspaper or run for student office, you'll find an activity to round out your college experience.

**Clubs and Organizations**—With more than 200 clubs and organizations on campus, there is literally something for everyone. Clubs are organized around a variety of themes: academic, residential, cultural, political, religious, social action, honorary, and service.

**Honor Societies**—Honor societies represent the heritage of academic excellence within higher education and they symbolize this university's proud commitment to that tradition. Students with superior scholastic ability have the opportunity to join the following university-wide honor societies: Phi Eta Sigma (freshmen), Golden Key (juniors and seniors), Mortar Board (seniors), Phi Kappa Phi (juniors, seniors, graduates), and Phi Beta Kappa (juniors and seniors). In addition, the university recognizes 21 discipline-based honor societies which accord recognition to students who demonstrate superior scholastic and leadership in specific academic fields.

**Leadership Programs**—Student leadership programs include the Freshman Leadership Connection, student awards, and various other personal growth events and activities.

**Fraternities and Sororities**—SDSU is home to 46 Greek-letter social organizations, plus many culturally based groups. Fraternities and sororities offer opportunities for lifelong friendships, social activities, community service projects, academic assistance, and development of leadership skills.

**Associated Students**—Associated Students of SDSU (A.S.) is an independent, student-run corporation that provides a wide variety of services and programs. Student government is the backbone of A.S., representing students' interests and overseeing campus services such as concerts, child care, and recreation programs.

**Community Service**—Do you want to volunteer in community projects? SDSU's civic learning and community engagement offers volunteer opportunities, a database of community service projects, events to promote service-learning, a resource library, alternative break programs (where students provide service to communities in need in the U.S. or abroad during their spring break), and much more.

## Recreation

Associated Students campus recreation activities include fitness programs, weightlifting, and cardio training. Students can also participate in intramural sport leagues, outdoor adventures, recreation classes, rock climbing, bowling, racquetball, sport clubs, tennis and basketball. Students interested should call (619) 594-PLAY (7529).

Sports facilities on campus include the 12,000-seat Viejas Arena, Tony Gwynn Stadium, Aztec Tennis Center, Aztec Athletic Center, and the Aztec Center Bowling and Games. The Aztec Aquaplex is a beautiful three-pool facility that supports both athletic and recreation activities, while the 80,000 square foot Aztec Recreation Center gives students a place to exercise 24-hours-a-day with a broad range of programs, state-of-the-art weight and cardio equipment, as well as four full-sized basketball courts.





# What Makes SDSU a Great University?



*Applications to SDSU continue to increase each year. The admissions office received more than 61,000 undergraduate applications for the 6,158 enrollment slots available in fall 2010.*

At San Diego State University, our mission is to provide research-oriented, high quality education for undergraduate and graduate students. We are committed to creating educational opportunities that not only contribute to human intellectual development, but also equip our students to succeed in an increasingly technological and global society. Faculty and students contribute to our community and to the world through distinction in teaching, research, and service.

SDSU offers 176 different academic degree choices. Students benefit from excellent classroom instruction and hands-on research opportunities as they work alongside faculty mentors at field sites and in classrooms, studios and laboratories. Since 2000, SDSU researchers have secured more than \$1 billion in external funding, bringing both cutting edge equipment and the excitement of discovery into laboratories and classrooms.

Active at the international level, SDSU ranks second among universities of its type for the number of students studying abroad. International opportunities—including pioneering triple-degree programs offered in conjunction with universities in Canada and Mexico or Mexico and Chile—give students a competitive advantage as they move into professional careers or pursue graduate studies.

San Diego State's urban cosmopolitan campus reflects the diverse cultural legacies of our region and the world beyond. Students from all walks of life and more than 90 nations contribute to SDSU's dynamic ethnic, racial and social mix. In 2009, SDSU ranked 16<sup>th</sup> in the nation for bachelor's degrees awarded to ethnic minorities and 10<sup>th</sup> in the nation for bachelor's degrees awarded to Hispanics.

## **New Challenges, New Programs**

San Diego State University also embraces the role of community resource and partner.

In one of the most diverse inner-city communities of San Diego, SDSU directs the City Heights Educational Collaborative, designed to bolster student achievement and increase teacher retention. Elsewhere, SDSU strives to improve K-12 curriculum locally and nationwide with its Center for Research in Mathematics and Science Education (CRMSE) and the QUALCOMM Institute for Innovation and Educational Success.

Responding to local economic needs, SDSU offers undergraduate degree programs in nursing, hospitality and tourism management and construction engineering. A major in international security and conflict resolution (ISCOR) is the first of its kind in California.



## Campus Growth

The San Diego State campus, with its distinctive California mission style of architecture, has supported more than \$1 billion worth of new construction in the last decade. The BioScience Center; a new home for the College of Arts and Letters; a completely redesigned tennis complex, softball field and swimming pools; and a striking pedestrian bridge that connects the residence halls with campus are just a few of the recent projects. The San Diego Trolley station at SDSU provides another means of transportation to and from campus for thousands of students, staff, and faculty. These important projects support academic and athletic programs and enhance the learning and living environment of the campus community.

No one could have predicted this phenomenal growth in 1897 when San Diego Normal School opened its doors in downtown San Diego to seven faculty and 91 students. The current campus on Montezuma Mesa, founded in 1931, covers 283 acres and enrolls more than 33,000 students. The university also offers classes at the Imperial Valley Campus in Calexico and a satellite facility in Brawley, operates the renowned Mount Laguna Observatory, and manages four biological field stations covering more than 9,000 acres.

Throughout the years and the changes, San Diego State University's commitment to academic excellence and community involvement has never wavered. Now, more than ever, a degree from SDSU remains highly sought after, highly regarded, and highly valued.

*In 2008–2009,  
SDSU granted  
8,862 degrees  
including  
1,770 master's  
degrees and  
66 doctoral  
degrees.*





# Mission of the University

The mission of San Diego State University is to provide research-oriented, high quality education for undergraduate and graduate students, and to contribute to the region and the world through excellence and distinction in teaching, research, and service.

The university strives to impart an appreciation and broad understanding of the human experience throughout the ages. This education extends to diverse cultural legacies; accomplishments in many areas, such as the arts and technology; the advancement of human thought including philosophy and science; the development of economic, political, and social institutions; and the physical and biological evolution of humans and their environment. San Diego State University accomplishes this through its many and diverse departments and interdisciplinary programs in the creative and performing arts, the humanities, the sciences, and the social and behavioral sciences.

The vision that motivated our founders continues to energize us. We are a community of learners of all ages and levels of experience, engaged in a continuous journey of invention, creation, and discovery.

## Academic Goals

SDSU has adopted the following academic goals to sustain and strengthen our position as a leading university:

- To encourage the intellectual and creative development of a diverse group of students by helping them learn about themselves and others, their own and other cultural and social heritages, and their environment;
- To foster development of critical thinking, reading, oral communication, quantitative and qualitative analysis, as well as a commitment to lifelong learning and international perspectives needed to contribute to communities and chosen fields of endeavor;
- To provide the basis for informed citizenship in a democracy;
- To offer advanced undergraduate and graduate students professional training and preparation for further study in a broad range of disciplines, with a special emphasis on the preparation of teachers;
- To support faculty in developing specialized contributions to knowledge, including innovative curriculum and pedagogy responsive to intellectual and professional needs of undergraduate, master's, and doctoral students;
- To support faculty in their professionally related community activities and informed exchanges with diverse professional and lay communities that strengthen the university's courses and scholarship;
- To encourage scholarship, including creative and performing arts, by students, faculty, and administrators from all areas of the university;
- To continue our commitment to research, including the expansion of externally funded projects and doctoral programs where appropriate.

San Diego State University pursues its mission and goals through Shared Vision, a community-wide conversation out of which five goals were identified by a broad cross section of faculty, staff, students, administrators, alumni, parents, and community leaders:

- Enhance our commitment to academic excellence;
- Nurture a learning-centered university;
- Create a community proud of its diversity and committed to social justice;
- Promote the growth, development, and wise use of resources;
- Create a genuinely global university.

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San Diego State University maintains and promotes a policy of nondiscrimination and nonharassment on the basis of age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status.

The policy stands as a statement of this university's moral commitment to the right of all persons to equal opportunity in a nondiscriminating, harassment-free atmosphere. The Office of Employee Relations and Compliance oversees that commitment to equal opportunity. San Diego State University places high priority on that objective and expects all members of the university to support this policy. Refer to San Diego State University Senate personnel guidelines, Part III-A-3, pertaining to nondiscrimination as well as California State University Executive Orders 340, 345, and 675.



# Annual Calendar

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# Academic Calendar

# 2010–2011

## SUMMER TERM 2010

May 26	First day of summer term.
May 26-July 7	Session S1 term.
May 26-August 20	Session T1 term.
May 27	First day of S1 and T1 classes.
May 31	Holiday—Memorial Day. Faculty/staff holiday. Campus closed.
June 3	Last day to drop S1 classes. (6 p.m. deadline.)
June 7	Last day to add S1 classes. (6 p.m. deadline.)
June 7	Last day to drop T1 classes. (6 p.m. deadline.)
June 9	Last day to add T1 classes. (6 p.m. deadline.)
July 1	Applications for bachelor's degree for May and August 2011 graduation accepted.
July 5	Holiday—Independence Day observed. Faculty/staff holiday. Campus closed.
July 7	Last day of S1 classes.
July 8-August 20	Session S2 term.
July 8	First day of S2 classes.
July 14	Last day to drop S2 classes. (6 p.m. deadline.)
July 16	Last day to add S2 classes. (6 p.m. deadline.)
July 21	Census.
August 18	Last day of T1 and S2 classes. (Final examinations are the last day of classes for each summer session.)
August 20	Grades due from instructors. (11 p.m. deadline.)
August 20	Last day of summer term.

## FALL SEMESTER 2010

August 23	First day of fall semester.
August 25-26	Faculty/Staff Advising.
August 26	Convocation.
August 27	Last day to officially withdraw for fall semester 2010 and receive a full refund.
August 28	New Student and Family Convocation.
August 30	First day of classes.
September 6	Holiday—Labor Day. Faculty/staff holiday. Campus closed.
September 9	Last day for faculty to drop students from classes.
September 13	Last day to drop classes. (6 p.m. deadline.)
September 15	Last day to add classes or change grading basis. (6 p.m. deadline.)
September 15	Last day for payment of fees for late registration. (3:30 p.m. deadline.)
September 15	Last day to officially withdraw from the university without penalty fee for fall semester 2010.
September 15	Last day to file application for bachelor's degree for December 2010 graduation.
September 15	Last day to file petition for concurrent master's degree credit for fall semester 2010.
September 21	Last day to apply for December 2010 graduation with an advanced degree, Division of Graduate Affairs.
September 27	Census.
October 1	Applications for admission or readmission to San Diego State University for the fall semester 2011 accepted. Applications are NOT accepted after November 30 (postmarked). Graduate applicants should consult the <i>Graduate Bulletin</i> for closing dates.
November 3	Last day to officially withdraw from all classes for fall 2010 and receive a prorated refund (withdrawal after September 15 requires special approval and penalty fee is assessed).
November 11	Holiday—Veteran's Day Faculty/staff holiday. Campus closed.

November 25-26	Holiday—Thanksgiving recess. Faculty/staff holiday. Campus closed.
December 10	Last day of classes before final examinations.
December 11-18	Final examinations.
December 24-29	Holiday—Winter recess. Faculty/staff holiday. Campus closed.
December 30	<b>Campus open. No classes.</b>
December 30	Grades due from instructors. (11 p.m. deadline.)
December 30	Last day to apply for a leave of absence for fall semester 2010.
December 30	Last day of fall semester.
December 31	Holiday—New Year's Day observed. Faculty/staff holiday. Campus closed.

## SPRING SEMESTER 2011

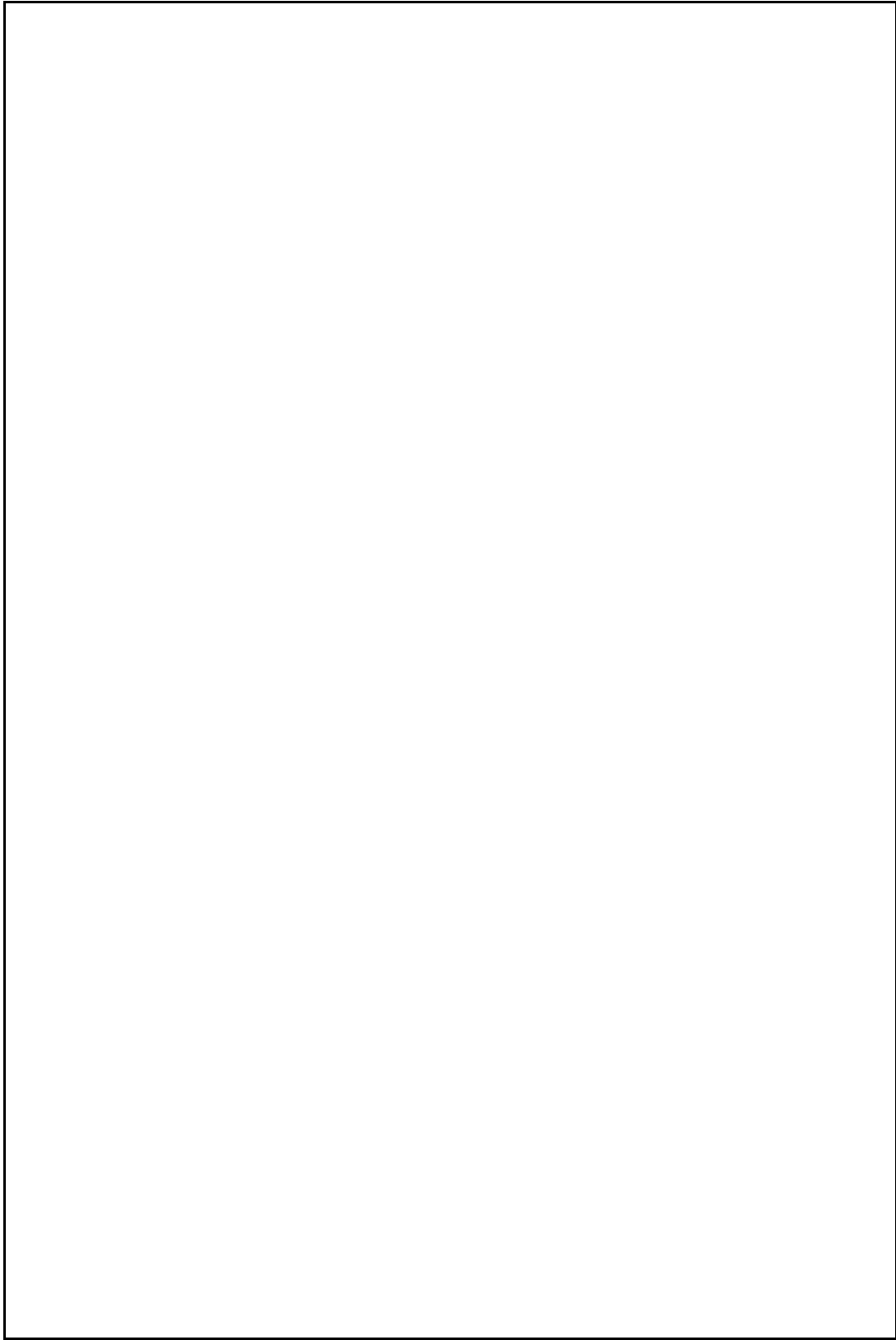
January 17	Holiday—Martin Luther King, Jr. Day. Faculty/staff holiday. Campus closed.
January 18	First day of spring semester.
January 18-19	Faculty/Staff Advising.
January 19	First day of classes.
January 21	Last day to officially withdraw for spring semester 2011 and receive a full refund.
January 28	Last day for faculty to drop students from classes.
February 1	Applications for bachelor's degree for December 2011 graduation accepted.
February 1	Last day to drop classes. (6 p.m. deadline.)
February 3	Last day to add classes or change grading basis. (6 p.m. deadline.)
February 8	Last day for payment of fees for late registration. (3:30 p.m. deadline.)
February 8	Last day to officially withdraw from the university for spring semester 2011.
February 8	Last day to file application for bachelor's degree for May and August 2011 graduation.
February 8	Last day to file petition for concurrent master's degree credit for spring semester 2011.
February 8	Last day to apply for May 2011 graduation with an advanced degree, Division of Graduate Affairs.
February 15	Census.
March 28-April 1	Spring recess.
March 31	Holiday—Cesar Chavez Day. Faculty/staff holiday. Campus closed.
April 2	Classes resume.
April 4	Last day to officially withdraw from all classes for spring 2011 and receive a prorated refund (withdrawal after February 8 requires special approval and a penalty fee is assessed).
May 10	Last day of classes before final examinations.
May 11	Study and consultation day.
May 12-19	Final examinations (beginning at 4 p.m. on May 12).
May 19	Commencement, Imperial Valley Campus.
May 20-22	Commencement, main campus.
May 24	Grades due from instructors. (11 p.m. deadline.)
May 24	Last day to apply for a leave of absence for spring semester 2011.
May 24	Last day of spring semester.

## SUMMER TERM 2011

NOTE:	Summer session dates to be determined. Refer to SDSU Summer Session <i>Class Schedule</i> .
May 30	Holiday—Memorial Day. Faculty/staff holiday. Campus closed.
July 1	Applications for bachelor's degree for May and August 2012 graduation accepted.
July 4	Holiday—Independence Day. Faculty/staff holiday. Campus closed.

*Please Note: This is not an employee work calendar and is subject to change. Refer to the SDSU Web site for changes to this calendar.*









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# Administration and Organization

## Principal Officers of Administration

President of the University .....	Stephen L. Weber
Provost .....	Nancy A. Marlin
Vice President for Business and Financial Affairs .....	Sally F. Roush
Vice President for Student Affairs .....	James R. Kitchen
Vice President for University Relations and Development .....	Mary Ruth Carleton

## Administration

### Office of the President

Chief of Staff .....	Betsy Kinsley
Director of Diversity .....	Aaron Bruce

### Office of the Provost

Associate Vice President for Academic Affairs .....	Ethan A. Singer
Director of Analytic Studies and Institutional Research .....	Sally Farris
Director of Instructional Technology Services .....	James P. Frazee
Assistant Vice President for Academic Affairs .....	Sandra A. Cook
Associate Executive Director of Enrollment Services .....	Rita Gajoli
Director of Admissions .....	Beverly Arata
Director of Advising and Evaluations .....	Cassie Steadman
Registrar .....	Rayanne Williams
Director of Communications .....	Leah R. Singer
Manager of Prospective Student Center .....	Natha Kraft
Director of Information Technology .....	John Ross
Director of SIMS/R .....	Mikhail Burstein
Associate Vice President for Faculty Affairs .....	Bonnie S. Zimmerman
Assistant Vice President for International Programs .....	Alan R. Sweedler
Chair of the Senate .....	Edith J. Benkov

### Office of the Vice President for Business and Financial Affairs

Associate Vice President for Administration .....	Richel Thaler
Associate Vice President for Financial Operations .....	Scott Burns
Associate Vice President for Operations .....	Robert Schulz
Assistant Vice President .....	Linda A. Stewart
Director of Audit and Tax .....	Valerie Carter
Director of Budget and Planning .....	Ray Rainer
Director of Business Information Systems .....	Cyndie Winrow
Director of Business Services .....	Lawrence Peralez
Director of Center for Human Resources .....	Elvira McCalip
Director of Communications and Computer Services .....	Riny Ledgerwood
Director of Employee Relations and Compliance .....	Jessica Cook Rentto

Director of Environmental Health and Safety .....	Terry D. Gee
Director of Facilities Planning, Design and Construction .....	Lauren Cooper
Director of Intercollegiate Athletics .....	Jim Sterk
President of Aztec Athletic Foundation .....	David Youmans
Director of Physical Plant .....	John Eaddy (Interim)
Director of Public Safety .....	John L. Browning
Director of University Computer Operations ..	Robert E. Newhouse
Risk Manager .....	Rhonda Russell
Information Technology Security Officer .....	Felecia Vlahos
Information Technology Security Officer .....	John Denune
University Controller .....	Loretta A. Leavitt

### Office of the Vice President for Student Affairs

Associate Vice President for Student Affairs Budget and Administration .....	Eric Rivera
Associate Vice President for Student Affairs Campus Life .....	Timothy Quinnan
Associate Vice President for Student Affairs Student Services .....	Martha Ruel
Director of Budget and Human Resource Administration .....	Linda Lewiston
Director of Career Services .....	James J. Tarbox
Director of Communication Services .....	Sharon A. Penny
Director of Counseling and Psychological Services .....	Sandy Jorgensen-Funk
Director of Educational Opportunity Programs and Ethnic Affairs .....	Reginald S. Blaylock
Director of Financial Aid and Scholarships .....	M. Chrys Dutton
Director of Information Systems Management .....	Tony Chung
Director of Intercultural Relations/ Cross-Cultural Center .....	Tanis Starck
Director of International Student Center ..	Jane Kalioznes (Interim)
Director of New Student and Parent Programs .....	Janet Castro
Director of Residential Education .....	Christy Samarkos
Director of Student Life & Leadership .....	Randall W. Timm
Director of Student Disability Services .....	Mary Shojai
Director of Student Health Services .....	Thomas E. Wilson (Interim)
Director of Student Rights and Responsibilities .....	Susan L. Shuckett
Director of Student Testing, Assessment and Research .....	Reynaldo I. Monzon
Ombudsman .....	Marit Bessesen

### Office of the Vice President for University Relations and Development

Chief Financial Officer .....	Gregory Levin
Associate Vice President for Marketing and Communications .....	Jack Beresford
Associate Vice President for Development .....	Jessie Brooks
Executive Director of SDSU Alumni Association ..	James S. Herrick
President of SDSU Alumni Association Board of Directors .....	Brig Kline

## Colleges, Schools, Departments, and Programs

**COLLEGE OF ARTS AND LETTERS** ..... Paul Wong, Dean  
Associate Dean ..... Linda D. Holler  
Associate Dean ..... Eniko Csomay (Interim)  
Assistant Dean for Student Affairs ..... Leslie S. Johnson  
Director of Development ..... Nancy Lemkie  
Director of Resource Management..... Lesley Bryant

**Departments** ..... *Chair or Director*  
Africana Studies ..... Shirley N. Weber  
American Indian Studies ..... Margaret Field  
Anthropology ..... Seth W. Mallios  
Chicana and Chicano Studies..... Adelaida R. Del Castillo  
Classics and Humanities ..... Joseph A. Smith  
Economics ..... Mark Thayer (Interim)  
English and Comparative Literature ..... Joanna Brooks (Interim)  
European Studies ..... Edith J. Benkov  
Geography ..... Stuart C. Aitken  
History ..... Joanne M. Ferraro  
Linguistics and Asian/Middle Eastern  
Languages ..... Ghada Osman  
Philosophy ..... Robert Francescotti  
Political Science ..... Ronald F. King  
Religious Studies ..... Rebecca E. Moore  
Rhetoric and Writing Studies ..... Glen McClish  
Sociology ..... Sheldon X. Zhang  
Spanish and Portuguese Languages  
and Literatures ..... Alda Blanco  
Women's Studies ..... Bonnie K. Scott

**Programs**  
Asian and Pacific Studies..... Lei Guang  
Environment and Society..... Sarah S. Elkind  
General Mathematics Studies ..... Glen McClish  
International Business ..... James B. Gerber  
International Security and Conflict Resolution ..... Dipak K. Gupta  
Islamic and Arabic Studies..... Ghada Osman  
Jewish Studies ..... Risa Levitt Kohn  
Latin American Studies ..... Ramona L. Pérez  
M.A., Liberal Arts and Sciences..... William Nericcio  
Social Science..... Carole Putko  
Urban Studies ..... Maurizio Antoninetti, Fernando Bosco

### COLLEGE OF BUSINESS

**ADMINISTRATION** ..... Gail K. Naughton, Dean  
Associate Dean for Academic Affairs..... James R. Lackritz  
Director of Graduate Programs ..... David P. Ely  
Assistant Dean for Student Affairs ..... Sandra L. Williams  
Executive Director of Executive and  
Specialized Programs and External Affairs..... Chris Graham  
Director of Resource Management..... Debra Tomic  
Director of Undergraduate Program..... Kathleen A. Krentler

**Departments and Schools** ..... *Chair or Director*  
Accountancy ..... Sharon M. Lightner  
Finance ..... Mehdi Salehizadeh  
Information and Decision Systems ..... Bruce A. Reinig  
Management ..... Alex F. DeNoble  
Marketing ..... George E. Belch

**Programs**  
Project Amigos ..... Teresa Cisneros Donahue  
International Business ..... James B. Gerber

**COLLEGE OF EDUCATION** ..... Ric A. Hovda, Dean  
Associate Dean ..... José Luis Alvarado  
Associate Dean for Faculty Development  
and Research .....  
Assistant Dean for Student Affairs..... Patricia Lozada-Santone  
Doctoral Programs

EDL - Postsecondary Ed. .... Marilee J. Bresciani  
EDL - PK-12..... Cynthia L. Uline  
SDSU/CGU..... Rafaela M. Santa Cruz  
SDSU/USD ..... Cheryl L. Mason  
Manager of Budget and Analysis ..... Francis Fox  
Coordinator of Operations and Support Services ..... Julie White  
Coordinator of Office of Student Services ..... Lisa McCully

**Departments and Schools** ..... *Chair or Director*

Administration, Rehabilitation and  
Postsecondary Education ..... Caren L. Sax  
Child and Family Development ..... Shulamit N. Ritblatt  
Counseling and School  
Psychology ..... Carol A. Robinson-Zañartu  
Educational Leadership ..... Patti Chance  
Educational Technology ..... Marcie J. Bober-Michel  
Policy Studies in Language and Cross-Cultural  
Education ..... Karen Cadiero-Kaplan  
Special Education ..... Anne W. Graves  
Teacher Education ..... Nancy Farnan

### Program

Mathematics and Science Education..... Joanne Lobato

**COLLEGE OF ENGINEERING** ..... David T. Hayhurst, Dean  
Associate Dean ..... Randall M. German  
Assistant Dean for Student Affairs .... Lawrence C. Hinkle (Interim)  
Director of Doctoral Programs ..... Eugene A. Olevsky

**Departments and Schools** ..... *Chair or Director*

Aerospace Engineering and Engineering  
Mechanics ..... Allen Plotkin  
Civil, Construction, and Environmental  
Engineering ..... Janusz C. Supernak  
Electrical and Computer Engineering ..... R. Lal Tummala  
Mechanical Engineering ..... Morteza M. Mehrabadi

### COLLEGE OF HEALTH AND

**HUMAN SERVICES** ..... Marilyn Newhoff, Dean  
Associate Dean ..... Olita D. Harris  
Associate Dean ..... Stephen J. Williams  
Assistant Dean for Student Affairs ..... Donna M. Daly

**Departments and Schools** ..... *Chair or Director*

Gerontology ..... Mario D. Garrett  
Graduate School of Public Health ..... Carleen H. Stoskopf  
Nursing ..... Catherine Todero  
Social Work ..... Thomas F. Reilly  
Speech, Language, and  
Hearing Sciences ..... Beverly B. Wulfeck

### COLLEGE OF PROFESSIONAL STUDIES

**AND FINE ARTS** ..... Joyce M. Gattas, Dean  
Associate Dean ..... Kathryn J. LaMaster  
Assistant Dean for Student Affairs ..... Randi E. McKenzie  
Director of Development..... Mariel Berry  
Director of Human Resources ..... Sonia Wright

**Departments and Schools** ..... *Chair or Director*

Aerospace Studies ..... Martin Wojtyasiak  
Art, Design, and Art History..... Arthur Ollman  
Communication ..... William B. Snively

## Administration and Organization

Exercise and Nutritional Sciences .....	Janet C. Harris
Hospitality and Tourism Management .....	Carl Winston
Journalism and Media Studies .....	Diane L. Borden
Military Science .....	William I. Arnold
Music and Dance .....	Donna M. Conaty
Naval Science .....	William R. Ault
Public Affairs .....	Stuart D. Henry
Theatre, Television, and Film .....	Randy Reinholz

### Programs

Criminal Justice .....	Stuart D. Henry
International Security and Conflict Resolution .....	Dipak K. Gupta
Recreation and Tourism Management .....	Carl Winston
Urban Studies .....	Maurizio Antoninetti, Fernando Bosco

### COLLEGE OF SCIENCES

Stanley R. Maloy, Dean	
Associate Dean for Graduate and Research Affairs .....	Patrick J. Papin
Associate Dean for Academic and Faculty Affairs .....	Catherine J. Atkins
Assistant Dean for Student Affairs .....	Estralita Martin
Director of Development .....	Pam Becker
Director of Resource Management .....	Julie Mitsven

### Departments *Chair or Director*

Astronomy .....	Allen W. Shafter
Biology .....	Terrence G. Frey
Chemistry and Biochemistry .....	Carl J. Carrano
Computer Science .....	Leland L. Beck
Geological Sciences .....	Gary H. Girty
Mathematics and Statistics .....	Samuel S. P. Shen
Physics .....	Usha S. Sinha
Psychology .....	Georg E. Matt

### Programs

Bioinformatics and Medical Informatics .....	Faramarz Valafar
Biomedical Quality Systems .....	E. Dale Sevier
Computational Science .....	José E. Castillo
Environmental Sciences .....	Alan R. Sweedler
Homeland Security .....	Eric G. Frost and Jeffrey S. McIlwain
International Security and Conflict Resolution .....	Dipak K. Gupta
Mathematics and Science Education .....	Joanne Lobato
Molecular Biology .....	Greg L. Harris
Natural Science .....	Phoebe E. Roeder
Oceanography .....	Stephen A. Schellenberg
Regulatory Affairs .....	E. Dale Sevier

### LIBRARY AND INFORMATION

#### ACCESS

Jon E. Cawthorne, Dean (Interim)	
Associate Dean .....	Mark Stover (Interim)
Director of Access, Administrative Operations and Communication .....	Mark R. Lester
Director of Information Technologies and Digital Initiatives .....	Mark Figueroa (Interim)
Director of Development .....	

### IMPERIAL VALLEY CAMPUS

Stephen B. W. Roeder, Dean	
Associate Dean for Academic Affairs .....	Roger M. Dunn
Assistant Dean for Student Affairs .....	Miguel Rahiotis
Director of Business and Financial Services .....	Irma Martinez
Director of Advancement .....	John Renison

### GRADUATE AND RESEARCH AFFAIRS

Thomas R. Scott, Vice President for Research and Graduate Dean	
Associate Dean .....	Radmila Prislin
Assistant Dean for Student Services, Policy and Curriculum .....	Edward Aguado
Director for Division of Research Affairs .....	Camille Nebeker

### UNDERGRADUATE STUDIES

Geoffrey W. Chase, Dean	
Associate Dean .....	Christopher J. Frost
Assistant Dean .....	Bonnie M. Anderson

### Programs

José Preciado	
Academic Engagement Programs .....	
Academic Scholarships .....	Patti Scott
Center for Teaching and Learning .....	Brock S. Allen and Kathy S. Williams
Compact Scholars Program .....	Janet Abbott
Interdisciplinary Studies in Three Departments .....	Bonnie M. Anderson
Liberal Studies Program .....	Phoebe E. Roeder
People, Information, Communication, and Technology Program .....	Catherine J. Atkins
Thomas B. Day Student Success Programs .....	Janet Abbott
University Honors Program .....	Stacey L. Sinclair
Undergraduate Research .....	Enrico Marcelli

### COLLEGE OF EXTENDED STUDIES

Joseph B. Shapiro, Dean	
Associate Dean for Programming .....	Jan Wahl
Associate Dean for Administration .....	William M. Fornadel
Executive Director of American Language Institute .....	William F. Price
Executive Director of Professional Development .....	Tamara McLeod
Executive Director of Extension Programs .....	Francesca Ringland

## Auxiliary Organizations

### The Campanile Foundation

Stephen L. Weber	
President .....	
Chief Executive Officer .....	Mary Ruth Carleton
Chief Financial Officer .....	Gregory Levin
Secretary .....	Lynsey McCarthy

### San Diego State University Research Foundation

Stephen L. Weber	
President .....	
Vice President .....	Thomas R. Scott
Executive Director .....	Daniel M. Gilbreath

### Aztec Shops, Ltd.

Donna Tusack	
Chief Executive Officer .....	

### The Associated Students of San Diego State University

Tyler Boden	
President .....	
Executive Director .....	Dan Cornthwaite

### KPBS

Thomas Karlo	
General Manager .....	





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# Academic Advising

## Importance of Academic Advising

Completing the requirements for your degree in a timely manner requires planning. Academic advisers can help you develop your academic plan. Don't wait until you have a problem to see an adviser. Let the adviser help you prevent any problems. The sooner you make the decision about what your major will be, the better you can plan your academic program. There are many program choices available at SDSU. An adviser can assist you with this decision process. Choosing the major that is right for you and compatible with your life goals will enhance your academic success. Requirements, policies, and procedures may change from year to year. Advisers can clarify which changes may affect you and which will not.

## Advising Services

- Understand graduation requirements
- Develop an academic plan
- Evaluate transfer credit
- Choose or change a major
- Clear mathematics and writing requirements
- Remove probationary status to avoid disqualification
- File for graduation
- Prepare to enter a professional school (medical, dental, legal, etc.)
- Plan your next semester's schedule

## Major Academic Plans (MAPs)

The MAPs Web site located at <http://www.sdsu.edu/mymap> was created to help students navigate the course requirements for their majors. The Major Academic Plans (MAPs) created for each major are not meant to encompass every major-specific requirement or a required sequencing of courses. Refer to this catalog for a complete description of requirements, including: course prerequisites, minimum grade requirements, unit limitations, and General Education approved courses and distribution requirements.

The MAPs will help you identify which General Education course will also fulfill a major preparation course requirement. They will also suggest sequencing to ensure that you complete prerequisites for an upper-division course prior to taking the higher-level course.

Questions about graduation requirements and General Education should be directed to the Academic Advising Center at 619-594-6668. The Academic Advising Center is located in Student Services, Room 1551 (north of Aztec Center) and online at

<http://www.sdsu.edu/advising>.

## Student Responsibilities Regarding Advising

**Purchase a General Catalog.** Know your catalog year (or years) for your General Education requirements and for your major requirements and be sure you have a copy of this catalog. Provided you maintain your enrollment at SDSU, this catalog or these catalogs establish the requirements you must complete for graduation. Details regarding catalog rights are listed under Graduation Requirements in this section of the catalog.

**Use your degree evaluation.** Your online degree evaluation, available at <http://www.sdsu.edu/portal>, provides an unofficial status report on your progress toward completing the graduation requirements for your major. Once you reach 90 units and apply for graduation, you will be sent an official graduation evaluation describing your remaining degree requirements. You can review your unofficial degree evaluation in the WebPortal to ensure that you are on track to graduate within your desired time frame. Don't risk a delay in graduation due to a missing graduation requirement.

**See your adviser regularly.** Don't wait until you encounter a problem before seeing an adviser. Check your degree progress regularly.

**Keep an advising file.** Keep a personal copy of transcripts (official or unofficial) from each college or university you have attended in a file and bring it to your advising session. SDSU does not release copies of other schools' records. Evaluations, test scores, and other important academic information should also be kept in your personal advising file.

**Plan your advising sessions during non-peak times.** Advisers and advising centers are busiest during registration periods and the first weeks of classes. Avoid these busy advising times with a little planning. Faculty advisers (major advisers) are not always available during the summer months or between semesters.

**File for graduation.** Graduation is not automatic; you must apply to graduate during the stated graduation application periods. Filing early will assure a final graduation evaluation before your last semester of enrollment. It is recommended you file for graduation once you have passed 90 units. Visit <http://www.sdsu.edu/applytograduate>.

## Seeing an Adviser

There are many types of advisers at SDSU. For general undergraduate advising regarding graduation requirements, General Education, competency requirements, probation and disqualification, and major selection, go to the Academic Advising Center, Student Services, Room 1551, 619-594-6668.

Major/faculty advisers for each major are available to help you plan your upper division course schedule, and provide you with advice about career options and graduate school. For advising in your undergraduate or graduate major, contact the adviser or advising center assigned to your major and class level. A more detailed listing follows. A directory of SDSU academic advisers is available at <http://www.sdsu.edu/majoradvisers>.

Students in the Educational Opportunity Program needing advising should go to the Office of Educational Opportunity Programs/Ethnic Affairs, Student Services, Room 2109, 619-594-6298.

For general requirements for master's or doctoral degrees (except for the major), contact the Division of Graduate Affairs, Student Services, Room 1410, 619-594-5213.

For teaching credential advising, contact the adviser assigned to your specific area. Teachers holding preliminary California credentials issued on the basis of programs completed at other universities or in other states, may secure program advising from the Credentials Processing Center, Education and Business Administration, Room 259, 619-594-5964.

For specialized advising such as preprofessional advising (premedical, prelaw, etc.), contact the adviser assigned to your preprofessional area. A detailed listing follows and can also be found at <http://www.sdsu.edu/preprof>.

New Student Orientation is conducted by the Office of New Student and Parent Programs, 619-594-1509, for new students (freshmen and transfers) and provides important pre-registration advising. Visit <http://www.sdsu.edu/orientation>.

## Advising Centers

### Academic Advising Center

Student Services, Room 1551, 619-594-6668, FAX 619-594-1553, Monday through Friday, 9 a.m. - 4 p.m.

The Academic Advising Center works with the university community to encourage and promote student learning in a welcoming and supportive environment. We clarify university policies, procedures, and requirements to ensure student retention and timely graduation. The center staff facilitates academic responsibility and competence by educating students to use resources effectively.

Advisers in the Academic Advising Center are available to help you understand SDSU graduation requirements, including General Education requirements and institutional policies and procedures. If you are undecided about a major, an adviser can help you develop an educational plan consistent with your life goals and objectives.

Graduation Requirements	University Academic
General Education	Policies and Regulations
Undeclared Students	Unofficial Evaluations
	Probation/Disqualification
	Advising

### Educational Opportunity/Ethnic Affairs

Student Services, Room 2109, 619-594-6298  
Monday through Friday, 8 a.m. - 4 p.m.

## PREPROFESSIONAL ADVISING

It is recommended that students contact their preprofessional adviser in their first semester at SDSU. Advisement for students planning to attend professional schools is available for the following programs:

Allied Health	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Predental	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Preeducation	
University Advising Center	
Student Services, Room 1551	619-594-6668
Prelaw*	
Nasatir Hall, Room 109	619-594-5050
Premedical	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Prenursing	
Hardy Tower, Room 54	619-594-6527
Preoccupational Therapy	
Exercise and Nutritional Sciences, Room 331	619-594-5161
Preoptometry	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Prepharmacy	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Prephysical Therapy	
Exercise and Nutritional Sciences, Room 331	619-594-5161
Prephysician Assistant	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Prepodiatry	
Geology/Mathematics/Computer Science, Room 323	619-594-6638
Presocial Work	
Hepner Hall, Room 148	619-594-5803
Preveterinary Medicine	
Geology/Mathematics/Computer Science, Room 323	619-594-6638

\*Advisers in prelaw are not available during the summer months.

## COLLEGE OF ARTS AND LETTERS

Assistant Dean	
Arts and Letters, Room 202	619-594-6270
Africana Studies	
Arts and Letters, Room 373	619-594-6531
American Indian Studies	
Arts and Letters, Room 331	619-594-6991
Anthropology	
Arts and Letters, Room 448	619-594-5527

Arabic	
Education and Business Administration, Room 327	619-594-5268
Asia Pacific Studies	
Arts and Letters, Room 473	619-594-0931
Chicana and Chicano Studies	
Arts and Letters, Room 348	619-594-6452
Chinese	
Education and Business Administration, Room 327	619-594-5268
Classics and Humanities	
Arts and Letters, Room 662	619-594-5186
Economics	
Nasatir Hall, Room 304	619-594-1675
English and Comparative Literature	
Arts and Letters, Room 226	619-594-5307
Filipino	
Education and Business Administration, Room 327	619-594-5268
European Studies (Minor)	
Education and Business Administration, Room 304	619-594-5111
French and Italian (Minor)	
Education and Business Administration, Room 304	619-594-6491
Geography	
Storm Hall, Room 323	619-594-5437
German and Russian	
Education and Business Administration, Room 304	619-594-6313
Hebrew	
Education and Business Administration, Room 327	619-594-5268
History	
Arts and Letters, Room 588	619-594-5262
International Business	
Arts and Letters, Room 208	619-594-4505
International Security and Conflict Resolution	
Nasatir Hall, Room 116	619-594-4099
Japanese	
Education and Business Administration, Room 327	619-594-5268
Jewish Studies (Minor)	
Arts and Letters, Room 588	619-594-5338
Korean	
Education and Business Administration, Room 327	619-594-5268
Latin American Studies	
Arts and Letters, Room 377	619-594-1103
Linguistics and Asian/Middle Eastern Languages	
Education and Business Administration, Room 327	619-594-5268
Philosophy	
Arts and Letters, Room 446	619-594-5263
Political Science	
Nasatir Hall, Room 103	619-594-6244
Religious Studies	
Arts and Letters, Room 662	619-594-5185
Rhetoric and Writing Studies	
Adams Humanities, Room 3138	619-594-6515
Russian and Central European Studies	
Education and Business Administration, Room 304	619-594-5111
Social Science	
Arts and Letters, Room 588	619-594-6344
Sociology	
Nasatir Hall, Room 203	619-594-4826
Spanish and Portuguese	
Arts and Letters, Room 134	619-594-6588
Urban Studies	
Storm Hall, Room 323	619-594-5437
Professional Studies and Fine Arts, Room 100	619-594-6084
Vietnamese	
Education and Business Administration, Room 327	619-594-5268
Women's Studies	
Arts and Letters, Room 346	619-594-6524



### COLLEGE OF BUSINESS ADMINISTRATION

Assistant Dean  
Education and Business Administration, Room 448 ..... 619-594-5828  
Undergraduate Business Advising Center  
Education and Business Administration, Room 448 ..... 619-594-5828  
Undergraduate Web site: <http://www.sdsu.edu/undergradbiz>

Accountancy	Management
Finance	Marketing
Financial Services	Pre-Business
Information Systems	Real Estate
International Business (See College of Arts and Letters)	

Graduate Business Advising Office ..... 619-594-8073  
Student Services, Room 3428  
Graduate Web site: <http://www.sdsu.edu/mba>  
MBA (various specializations)  
MS in Accountancy  
MS in Business Administration (various concentrations)  
MBA/MA in Latin American Studies

### COLLEGE OF EDUCATION (Degrees, Credentials, and Certificate Programs)

Assistant Dean for Student Affairs  
Education and Business Administration, Room 346L ..... 619-594-1426  
Office of Student Services  
Education and Business Administration, Room 259 ..... 619-594-6320

#### Certificate Program

Teacher Induction: Fifth Year

Administrative, Rehabilitation and Postsecondary Education  
3590 Camino del Rio North ..... 619-594-6115

#### Certificate Programs

Community College Teaching  
Rehabilitation Administration  
Workforce Education and Lifelong Learning  
Supported Employment and Transition Specialist

Child and Family Development  
Education and Business Administration, Room 403 ..... 619-594-5380  
Counseling and School Psychology  
North Education, Room 179 ..... 619-594-6109

#### Service Credentials

Pupil Personnel Services  
School Counseling  
School Psychology

#### Certificate Program

Cultural and Community Trauma Studies

Educational Leadership  
North Education, Room 166 ..... 619-594-4063  
Administrative Services

Educational Technology  
North Education, Room 280 ..... 619-594-6718  
Distance Education Certificate  
Instructional Software Design Certificate

Master's Programs  
See individual department listings

#### Doctoral Programs

Educational Leadership (PreK-12 School Leadership):  
Department of Educational Leadership,  
North Education, Room 166 ..... 619-594-4063

Educational Leadership (Community College/Postsecondary Leadership): Department of Administration, Rehabilitation and Postsecondary Education, 3590 Camino del Rio North ..... 619-594-6115

SDSU/CGU: Education and Business Administration,  
Room 246 ..... 619-594-1120  
SDSU/USD: Education and Business Administration,  
Room 246 ..... 619-594-0909

Nursing (Health Services—School Nurse)  
Hardy Tower, Room 58 ..... 619-594-5495/619-594-6384

Policy Studies in Language and Cross-Cultural Education  
Education and Business Administration, Room 248 ..... 619-594-5155  
Multiple and Single Subject B/CLAD Emphasis  
Language Development Specialist Certificate

Social Work  
Hepner Hall, Room 119 ..... 619-594-5197

Pupil Personnel Services  
Child Welfare and Attendance  
School Social Work

Special Education  
North Education, Room 70 ..... 619-594-6665

#### Specialist Credentials

Early Childhood Special Education  
Mild/Moderate Disabilities  
Moderate/Severe Disabilities

#### Certificate Programs

Bilingual (Spanish) Special Education  
Developing Gifted Potential  
Early Childhood Special Education

Speech, Language, and Hearing Sciences  
Speech, Language, and Hearing, Room 103 ..... 619-594-8051  
Clinical-Rehabilitative Services

#### Teacher Education

Education and Business Administration, Room 255 ..... 619-594-6131  
Multiple Subject and Single Subject  
Reading/Language Arts Specialist

### COLLEGE OF ENGINEERING

Assistant Dean (Interim)  
Engineering, Room 200C ..... 619-594-5807

Aerospace Engineering and Engineering Mechanics  
Engineering, Room 308 ..... 619-594-6074

Civil, Construction, and Environmental Engineering  
Engineering, Room 424 ..... 619-594-6072

Electrical and Computer Engineering  
Engineering, Room 426 ..... 619-594-7013

Mechanical Engineering  
Engineering, Room 328B ..... 619-594-6067

### COLLEGE OF HEALTH AND HUMAN SERVICES

Assistant Dean  
Education, Room 154 ..... 619-594-6151

Gerontology  
Hepner Hall, Room 203 ..... 619-594-6765

Nursing  
Hardy Tower, Room 58 ..... 619-594-2540

Public Health  
Hepner Hall, Room 129 ..... 619-594-5528

Social Work  
Hepner Hall, Room 119 ..... 619-594-5710

Speech, Language, and Hearing Sciences  
Speech, Language, and Hearing, Room 248 ..... 619-594-6775

### COLLEGE OF PROFESSIONAL STUDIES AND FINE ARTS

Assistant Dean  
Professional Studies and Fine Arts, Room 212 ..... 619-594-6928

Aerospace Studies (Minor)  
Exercise and Nutritional Sciences, Room 385 ..... 619-594-5545

Art, Design, and Art History  
Art, Room 576 ..... 619-594-2850

Communication  
Communication, Room 236 ..... 619-594-3444

Exercise and Nutritional Sciences (Foods and Nutrition, Kinesiology)  
Exercise and Nutritional Sciences, Room 331 ..... 619-594-5161

Hospitality and Tourism Management (Hospitality and Recreation)	
Professional Studies and Fine Arts, Room 436.....	619-594-4964
International Security and Conflict Resolution	
Nasatir Hall, Room 116 .....	619-594-3768
Journalism and Media Studies	
Professional Studies and Fine Arts, Room 366.....	619-594-5145
Military Science (Minor)	
Exercise and Nutritional Sciences, Room 451 .....	619-594-4943
Music and Dance	
Music, Room 111 .....	619-594-6032
Naval Science (Minor)	
Communication, Room 130 .....	619-594-1134
Public Affairs (Criminal Justice, Public Administration)	
Professional Studies and Fine Arts, Room 100 .....	619-594-6084
Theatre, Television, and Film	
Dramatic Arts, Room 204 .....	619-594-4936
Urban Studies	
Professional Studies and Fine Arts, Room 100 .....	619-594-6084
Storm Hall, Room 323 .....	619-594-5437

## COLLEGE OF SCIENCES

Assistant Dean	
Geology/Mathematics/Computer Science, Room 321 .....	619-594-5350
Astronomy	
Physics, Room 131 .....	619-594-6240
Biology	
Life Sciences, Room 135 .....	619-594-6442
Bioengineering	Microbiology
Cellular and Molecular	Medical Technology and
Ecology	Public Health Microbiology
Evolution and Systematics	Zoology
Marine Biology	
Chemistry and Biochemistry (Chemical Physics)	
Geology/Mathematics/Computer Science, Room 209 ..	619-594-5595
Computer Science	
Geology/Mathematics/Computer Science, Room 413 .....	619-594-6191
Geological Sciences	
Geology/Mathematics/Computer Science, Room 237 .....	619-594-5586
General Geology	Hydrogeology
Engineering Geology	Marine Geology
Geochemistry	Paleontology
Geophysics	Oceanography (Minor)
International Security and Conflict Resolution	
Nasatir Hall, Room 116 .....	619-594-4099
Mathematics and Statistics	
Geology/Mathematics/Computer Science, Room 413 .....	619-594-6191
Oceanography (Minor)	
Geology/Mathematics/Computer Science, Room 237 .....	619-594-5707
Physics (Chemical Physics)	
Physics, Room 131 .....	619-594-6240
Preprofessional Health Advising	
Geology/Mathematics/Computer Science, Room 323 .....	619-594-6638
Psychology Advising Center	
Life Sciences, Room 105 .....	619-594-5412

## DIVISION OF UNDERGRADUATE STUDIES

Assistant Dean	
Administration, Room 101.....	619-594-5841
Also advising in:	
Honors Program .....	619-594-2872
Interdisciplinary Studies in Three Departments...	619-594-5841
Liberal Studies (Administration, Room 103) .....	619-594-0597

## DIVISION OF GRADUATE AFFAIRS

Associate Dean	
Student Services, Room 1410 .....	619-594-5213
Monday–Thursday, 10 a.m.–4:30 p.m.	
Advisement concerning general requirements (except for the major). A departmental graduate adviser is available in all programs offering graduate degrees.	

## IMPERIAL VALLEY CAMPUS ADVISING

It is recommended that Imperial Valley Campus students see an adviser prior to registration each semester. Call 760-768-5502 to schedule appointments with the advisers listed below.

The following advisers correspond to the various majors and programs.

### Undergraduate Division of Student Affairs

Computer Science	
Kenneth Neely.....	760-768-5663
Criminal Justice, Psychology, Public Administration,	
Student Disability Services	
Barbara Romero.....	760-768-5509
English	
Norma Aguilar .....	760-768-5637
History, Liberal Studies, Social Science	
Americo Yacopi .....	760-768-5603
International Business, Spanish	
Aracely Bojorquez .....	760-768-5506
Latin American Studies, Mathematics	
Miguel Rahiotis.....	760-768-5502
Nursing	
Helina Hoyt.....	760-768-5680

### Graduate

MA in Education	
Dr. Gregorio A. Ponce .....	760-768-5512
Master of Public Administration	
Dr. Michael J. Sabath .....	760-768-5615
Teacher Education, Division of Education	
Dr. Gregorio A. Ponce, Chair .....	760-768-5512

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# Admission and Registration

Admission criteria listed in this catalog is for fall 2010. For the most up-to-date admission criteria, visit the SDSU Office of Admissions Web site at <http://www.sdsu.edu/admissions>.

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## Reservation

San Diego State University reserves the right to select its students and deny admission to the university or any of its programs as the university, in its sole discretion, determines appropriate based on the applicant's suitability and the best interests of the university.

## Undergraduate Admission Policy

Admission to San Diego State University is selective. SDSU has been granted impacted status by the California State University system in order to assure that the educational experience, including the availability of classes and the array of services provided, of each enrolled student is not compromised by over enrollment. To this end, admission criteria OVER AND ABOVE THOSE REQUIRED BY THE CALIFORNIA STATE UNIVERSITY are now in effect. Meeting CSU minimum admission criteria **will not** guarantee admission to San Diego State University.

## Undergraduate Application Filing Period

Fall Semester                      October 1 - November 30

## Undergraduate Application Procedures

Prospective students, applying for full-time or part-time undergraduate programs of study, in day or evening classes, must file a complete undergraduate application during the application filing period (see above). The preferred method of application is through the CSUMentor online application at <http://www.csumentor.edu>. The CSUMentor system allows students to browse through general information about the 23 CSU campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid. If you cannot apply online, you should contact the Office of Admissions to make special arrangements. The \$55 nonrefundable application fee must be paid by credit card or in the form of a check or money order payable to the California State University and may not be transferred or used to apply to another term. The applications of persons denied admission to an impacted campus may be re-routed to another campus, but only if the applicant is CSU eligible.

It is essential that the application be filled out completely and accurately. Misrepresenting oneself on the application will result in a revocation of admission regardless of when the misrepresentation is discovered.

## Application Acknowledgment

You will receive an e-mail acknowledgment from San Diego State University verifying receipt of your application.

## Supplementary Admission Criteria

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on the overall transfer grade point average, completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit electronic scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible, but no later than November of their senior year of high school.

The supplementary admission criteria used by the individual campuses to screen applicants are made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admissions criteria are also provided at <http://www.calstate.edu/SAS/impactioninfo.shtml>.

## Undergraduate Admission Requirements

### First-Time Freshman Requirements

Due to the severity of the California state budget, all first-time freshmen applicants will be admitted to the pre-major (including undeclared) in which they applied. There will be a limited number of enrollment slots in each pre-major. Applicants will be ranked by their Eligibility Index, which is a combination of GPA and SAT/ACT test scores. In addition, students must complete the pattern of college preparatory curriculum ("a-g" courses) by the end of spring 2010.

**SDSU Service Area** (Students who graduate from a high school in San Diego County located south of state route 56 and extending eastward AND Imperial County high schools). SDSU service-area applicants will be assigned a credit to increase their eligibility so SDSU can maintain its traditional balance of out-of-area to in-area students.

**Outside SDSU Service Area.** First-time freshmen from outside SDSU's service area are required to live in on-campus housing their first year.

### Test Scores

Freshman applicants must submit electronic scores from either the Scholastic Aptitude Test (SAT) or the American College Test (ACT). The CSU uses only the SAT mathematics and critical reading scores in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses. You should take the test as early as possible, but not later than early November if applying for fall admission. You may get registration forms and dates for these tests from your high school or college counselors or from the SDSU Student Testing, Assessment and Research Office Web site at <http://www.sdsu.edu/testoffice>. Or, you contact the testing agencies at:

The College Board SAT Program	ACT Records
P.O. Box 025505	P.O. Box 451
Miami, FL 33102	Iowa City, Iowa 52243-0451
866-756-7346	319-337-1313
<a href="http://www.collegeboard.com">http://www.collegeboard.com</a>	<a href="http://www.actstudent.org">http://www.actstudent.org</a>

Official scores should be requested from the testing service at the time you register and sent directly to SDSU (SDSU's SAT code is 4682; SDSU's ACT code is 0398).

### Eligibility Index

The eligibility index (EI) is the combination of the high school grade point average and scores on either the ACT or SAT. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements, and bonus points for approved honors courses (excluding grades earned in physical education and military science courses).

Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the 10th grade, can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points. No honor points are given for D or F grades.

A CSU eligibility index can be calculated by multiplying a grade point average by 800 and adding a total score on the mathematics and critical reading scores of the SAT. Students who took the ACT, multiply the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes), need a minimum index of 2900 using the SAT or 694 using the ACT. The eligibility index may be higher for impacted CSU campuses.

For admission during the 2010-2011 college year, the university has no plans to include the writing scores from either of the admissions tests in the computation of the CSU eligibility index.

### Subject Requirements

San Diego State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

1. Two years of social science, including one year of U.S. history, or U.S. history and government.
2. Four years of English.
3. Three years of mathematics (algebra, geometry, and intermediate algebra).
4. Two years of laboratory science (one biological and one physical, both with laboratories).
5. Two years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence).
6. One year of visual and performing arts (year-long approved course in a single subject area, i.e. Art I and Art II).
7. One year of electives, selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, or other courses approved and included on the UC/CSU "a-g" list.

For fall admission, you must complete your subject requirements by the spring term before enrollment at SDSU.

### Subject Requirement Substitution for Students with Disabilities

Applicants with disabilities are encouraged to complete college preparatory course requirements if at all possible. If you are judged unable to fulfill a specific course requirement because of your disability, alternate college preparatory courses may be substituted for specific subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by your academic adviser or guidance counselor in consultation with the director of a CSU disabled student services program. You should be aware that failure to complete courses required for admission may limit your later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of disabled student services at your nearest CSU campus.

### Freshmen Who are Graduates of High Schools in Foreign Countries

Graduates of secondary schools in foreign countries must be judged to have equivalent academic preparation and abilities. Please submit your high school transcript shortly after applying for admission.

All undergraduate applicants, regardless of citizenship, who do not have at least three years of full-time study in schools at the secondary level or above where English is the principal language of instruction, must present a score of 550 or higher (using the paper version) or 213 or higher (using the computer version) or 80 or higher (using the Internet version) on the Test of English as a Foreign Language (TOEFL), or 6.5 or better on the International English Language Testing System (IELTS).

### Early Notification of Admission

The university may offer early notification of admission to first-time freshman applicants who report an exceptional high school record and test scores.

### Admitted First-Time Freshman

All first-time freshman applicants who receive an offer of admissions are admitted provisionally. Offers of admission will be rescinded if senior year work is not completed at a satisfactory level or if any requirements were misrepresented on the application.

### High School Students

Students still enrolled in high school will be considered for enrollment in certain special courses if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a specific course and does not constitute a right to continued enrollment.

## Transfer Student Requirements

Students who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper division transfer students. Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admission requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses.

### Lower Division Transfers

Students who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower division transfer students. San Diego State University is not accepting applications from lower division transfer students.

### Upper Division Transfers

A student is considered an upper division transfer student if he/she has completed 60 or more semester units (or 90 or more quarter units) of transferable baccalaureate-level college work. In recent years, as the number of applicants has far exceeded the number of spaces available, it has become necessary to adopt admission standards which are more demanding than the minimum California State University (CSU) requirements. Per CSU Enrollment Policy, transfer admission priority is given to applicants whose previous coursework was completed at California community colleges.

Transfer students will be admitted to a premajor or major. To be eligible for admission to SDSU, transfer applicants should meet the following minimum CSU eligibility requirements and SDSU requirements.

1. Apply during the CSU initial admission application filing period, October/November 2009 for fall 2010 admission. Submit a supplemental application at <http://www.sdsu.edu/portal>, which is due by January 22, 2010.
2. Complete a minimum of 60 transferable semester units by the end of spring 2010. Transferable units are defined as course units that are applicable to a baccalaureate degree.
3. Complete a certified GE package of 39 units (CSU GE or IGETC) or any applicable lower division GE pattern listed in the SDSU General Catalog, including completion of the "Golden Four" General Education (GE) requirements in written communication, oral communication, critical thinking, and mathematics with a C or higher grade in each course by the end of spring 2010.
4. Complete all major preparation courses listed in the SDSU General Catalog by the end of the spring term prior to fall admission. If a major preparation course is not offered at your community college, you must take it at another local community college or via Cross Enrollment or Open University at SDSU by the end of spring 2010.
5. Meet the grade point average (GPA) required for the major or 2.4, whichever is higher listed in the SDSU General Catalog. See [www.sdsu.edu/majorgpa](http://www.sdsu.edu/majorgpa) to determine the GPA required for your major. Your GPA is based on all transferable units attempted.
  - a. For non-SDSU service area\* applicants, an additional overall GPA will be required. This GPA is determined based on the applicant pool and may be higher than the GPA required for the major.
  - b. All applicants must meet the required GPA at the time of application and maintain the GPA through the end of spring 2010.
6. Applicants with prior SDSU Regular Session, Special Session, Open University or Cross Enrollment, coursework must have a minimum SDSU GPA of 2.0 in addition to the cumulative GPA listed above.
7. Local, service-area\* applicants who meet the criteria listed above will be guaranteed admission for fall 2010. All other applicants will be admitted on a space-available basis and must meet requirements (1) through (6) above.

\* You are in SDSU's service area if 100% of your transferable credits has been completed at Cuyamaca, Grossmont, Imperial Valley, San Diego City, San Diego Mesa, San Diego Miramar, and Southwestern colleges by the end of the spring prior to fall admission (e.g. spring 2010 for fall 2010 admission).



### NOTE:

- The Transfer Admission Guarantee does not apply to applicants to the School of Nursing, Music and Dance, or Television, Film and New Media.
- Nursing applicants must complete a Nursing Program application and meet additional ranking criteria. See the School of Nursing Web site at <http://nursing.sdsu.edu> for details.
- Music and Dance applicants must audition for acceptance to the major. For details, see the School of Music and Dance Web site at <http://music.sdsu.edu>.
- SDSU is not accepting applications for second bachelor candidates.
- Students with international coursework must submit an international course evaluation report.

### Admitted Upper Division Transfers

Transfer admission decisions are based on self-reported information. Admission is provisional pending verification of the self-reported information on the applicant's CSUMentor and supplemental applications using the official transcript submitted to the Office of Admissions. Offers of admission will be rescinded if the GPA, completed courses, or course grades are lower than what is reported on the applications or if the student misses any admission deadlines.

### Acceptance of Transfer Courses

Courses taken at a regionally accredited college or university and designated as appropriate for baccalaureate credit by that institution will be accepted by San Diego State University for credit toward transfer admission. San Diego State University reserves the right to determine the extent to which such credit satisfies the specific and elective requirements of degree programs.

Courses completed at regionally accredited institutions not offering the baccalaureate and at special-purpose baccalaureate-granting institutions are acceptable if specifically certified by the institution or by San Diego State University as similar in level and rigor to SDSU courses.

Courses completed at institutions without regional accreditation or taken at a regionally accredited institution as part of a professional program, i.e., medical, dental, legal, veterinary, optical, etc. are not normally accepted by San Diego State University. Such courses may be accepted on an individual basis if a review by the appropriate department determines comparability to a course in the San Diego State University curriculum.

### Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years. Part-time enrollment is permissible.
3. If there has been any college attendance in the past five years, has earned a grade point average of C or better in all college work attempted.
4. Test results verifying completion of the current San Diego State University mathematics and writing competency requirements. Current competency requirements and minimum test scores are published in the *General Catalog* and each semester's *Class Schedule*; the most recent published scores will be required.

Applicants seeking admission as an adult student must submit a statement of no more than two pages describing the alternate preparation which the applicant feels has prepared him or her for successful university work. The statement should also describe the applicant's educational goals and what preparation has been made to pursue these goals. Consideration for admission will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

## Readmission

Students interested in readmission to SDSU should visit the Web site at <http://www.sdsu.edu/admissions> for the most up-to-date admission criteria. Criteria differ for students who left the university in good academic standing versus those who left on academic probation or who were academically disqualified. Students who have been disqualified twice from SDSU will not be considered for reinstatement. Students with prior SDSU enrollment through regular session, special session, Open University, or cross-enrollment must have a minimum SDSU GPA of 2.0 in all coursework, in addition to meeting all other transfer admission requirements.

## International (Foreign) Student Admission Requirements

San Diego State University offers opportunities for graduate and undergraduate study to those foreign students whose academic preparation meets the standards for admission. "Foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. SDSU uses separate requirements in the admission of foreign students. Priority in admission is given to residents of California.

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country must file an application for admission and submit official certificates, and detailed transcripts of record from each secondary school and collegiate institution attended. All documents, transcripts, international course evaluation reports, and test scores for undergraduate admissions must be received by the Office of Admissions no later than May 1 for the fall semester. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to San Diego State University.

Applicants whose major education has been in a language other than English must score 550 or higher (using the paper version) or 213 or higher (using the computer version) or 80 or higher (using the Internet version) on the Test of English as a Foreign Language (TOEFL), or 6.5 or better on the International English Language Testing System (IELTS). These tests are administered in most foreign countries. The university must receive official test scores before admission can be granted. Information as to the time and place at which these tests are given may be obtained by going to <http://www.TOEFL.org> and <http://www.ielts.org>

Upon arrival at San Diego State University, further tests of English may be given for the purpose of placing students in an English language program commensurate with their linguistic ability in English and to assist advisers in planning an appropriate course of study. Depending upon their performance on the placement test and their academic background, students may be required to enroll in one or more English language course(s) during their first year. Foreign students admitted to the university will be subject to the same competency and placement examinations and standards as govern the rest of the student population.

**Insurance Requirement:** As a condition of receiving an I-20 or IAP-66 form, all F-1 and J-1 visa, applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information may be obtained from the International Student Center or go to <http://isc.sdsu.edu>

**American Language Institute:** If English instruction is needed prior to admission to San Diego State University, students may enroll in the American Language Institute. The American Language Institute (ALI) offers preparation in the English language reading, writing, and listening skills necessary for university success. For those students enrolling in the American Language Institute, a conditional admission may be available. Conditional admission is for those students who require acceptance to a university in order to obtain a passport, a U.S. Visa, or government sponsorship. The program is offered to students

who do not have an adequate command of English or the required TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) score to qualify for admission to the university. After transcripts of their academic work have been evaluated, students may receive an official letter of conditional admission which states that the student has met all university requirements *except* English language proficiency and may enter the university after achieving appropriate TOEFL or IELTS scores and receiving training at the American Language Institute.

**Housing and Scholarship:** Arrangements for housing should be completed well in advance of the student's arrival on the campus. Detailed information regarding housing may be obtained from the Office of Housing Administration Web site at <http://www.sdsu.edu/housing>. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country. Further information regarding scholarships will be found in the section of this catalog on Financial Aid and Scholarships.

Upon arrival at San Diego State University, the student should contact the International Student Center.

### TOEFL or IELTS Requirement

All undergraduate applicants, whose native language is not English and who have not attended schools at the secondary level or above for at least three years of full-time study (only transferable courses count toward a student's full-time status) where English is the principal language of instruction, must present a score of 550 or higher (using the paper version) or 213 or higher (using the computer version) or 80 or higher (using the Internet version) on the Test of English as a Foreign Language (TOEFL), or 6.5 or better on the International English Language Testing System (IELTS). Some majors may require a higher score. Some campuses may also use alternative methods of assessing English fluency.

### Filing of Documents

If admitted, official documents *for international applicants* must be on file no later than May 1 for fall admission. (See "Filing of Records" for details).

### Other Applicants

Applicants not admissible under one of the above provisions should enroll in a community college or other appropriate institution.

San Diego State University also offers a special program designed to expand educational opportunity for capable persons who, for a variety of reasons, have not previously had the opportunity. For detailed information regarding admission to this program, refer to the section of this catalog on the Educational Opportunity Program.

## Filing of Records

**File Official Transcripts.** You must file the following official transcripts with the Office of Admissions.

1. Transcripts from all high schools attended (not required of the graduate student who holds a bachelor's degree from an accredited institution, but is required of the student who holds a bachelor's degree from a nonaccredited institution).
2. Transcripts from EACH college attended (including extension, correspondence, summer session, evening, and out-of-country courses), even if no courses were completed. Graduate students must file transcripts if they plan to enter a master's degree or credential program. Electronic transcripts are required from many colleges. Check the Office of Admissions Web site at <http://www.sdsu.edu/admissions> for a complete list.
3. Photostat or true copy of the military separation form DD-214 (or equivalent), DD-295, SMART and AARTS transcripts if applicant has had active military service. (Not required of graduate students.)
4. A course evaluation report for any coursework completed at an international institution. To obtain a report, send official copies of your international academic transcripts to one of the evaluation service companies listed below. Request the specified evaluation report be sent directly to the SDSU Office of Admissions. Your international evaluation services report will be used to determine your eligibility for admission.

### Course-by-Course Evaluation Report Educational Credential Evaluators, Inc.

P.O. Box 514070  
Milwaukee, WI 53203-3470  
<http://www.ece.org>  
414-289-3400

### Detail Report International Education Research Foundation, Inc.

P.O. Box 3665  
Culver City, CA 90231  
<http://www.ierf.org>  
310-58-9451

For a hard copy transcript to be official, it must bear the high school or college seal and remain in its original sealed envelope. All records or transcripts received by the university become the property of the university and *will not be released nor will copies be made*.

### Deadlines:

#### First-time Freshmen

- May 1 – transcripts including fall term grades.
- July 15 – transcripts of spring term grades.

#### Transfers

- May 1 – transcripts including fall term grades and work in progress.
- June 30 – transcripts of spring term grades.

*Note: All needed documents for international applicants must be on file no later than May 1 for the fall semester.*

## Graduate and Post-Baccalaureate Application Procedures

All graduate and post-baccalaureate applicants (e.g., joint Ph.D., Ed.D., Au.D., and Ed.S. applicants, master's degree applicants, those seeking educational credentials, or advanced certificates, and holders of baccalaureate degrees) must file a complete graduate application as described in the CSU graduate and post-baccalaureate admission materials at <http://www.csumentor.edu>. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Applicants for post-baccalaureate programs are limited to the choice of a single campus. To apply to another CSU campus, it is necessary to submit separate applications (including fees). All masters, doctoral, and credential students should consult the department or program listing in the *Graduate Bulletin* for specific department and/or program application instructions. In all cases, applicants should send official transcripts and examination scores to Graduate Admissions. Online applications are available at <http://www.csumentor.edu>. Graduate admissions information is available at <http://www.sdsu.edu/admissions/graduate>.

## Graduate and Post-Baccalaureate Admission Requirements

### Admission Requirements

Admission to San Diego State University for graduate study is a competitive process and open to those applicants who the university judges to be fully qualified to benefit from graduate study. The requirements listed below are the minimum required for admission to the university. Many programs have established additional requirements. Potential applicants should refer to the *Graduate Bulletin* under the departmental listings. Students in their final baccalaureate year who are contemplating graduate study are also advised to contact the departmental offices as soon as possible for information and advice. Some departments stop reviewing applications earlier than others because space is limited.

### Application Procedures

Applicants for any type of graduate or post-baccalaureate status (advanced degree applicants and those seeking credentials or advanced certificates) must file an electronic CSU Graduate Admission Application available at <http://www.csumentor.edu/> within the appropriate filing period. All applicants, including those who graduated from San Diego State University are also required to complete and submit an application and the \$55 nonrefundable application fee. Applicants for post-baccalaureate programs are limited to the choice of a single CSU campus on each application. In the event that a post-baccalaureate applicant wishes to be assured of initial consideration by more than one campus, it will be necessary to submit separate applications (including fees) to each campus. All masters, doctoral, and credential students should consult the department or program listing in the *Graduate Bulletin* for the specific department and/or program application instructions. In all cases, applicants should send official transcripts and examination scores to Graduate Admissions only. Students are required to apply online. Online applications are available at <http://www.csumentor.edu/>.

Paper applications are no longer printed for general distribution. If an applicant does not have access to a computer or in the case of other extenuating circumstances preventing an applicant from filing an electronic admission application, the applicant should contact Graduate Admissions to make special arrangements.

### General Admission Requirements

The minimum requirements for admission to graduate and post-baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, chapter 1, subchapter 3, of the California Code of Regulations. Specifically, a student shall at the time of enrollment: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.85 (A = 4.0) in the last 60 semester (90 quarter) units attempted or have earned a grade point average of at least 2.5 on the last degree completed by the candidate (this calculation may not include lower division courses taken after award of a baccalaureate degree); and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Applicants who do not qualify for admission under provisions (a) and (b) may be admitted by special action if the graduate dean determines that there is other academic or professional evidence sufficient to warrant such action. Applicants from foreign countries see International (Foreign) Student Admission Requirements. **The Division of Graduate Affairs is the only official admissions authority for graduate study at San Diego State University. See the *Graduate Bulletin* for further details.**

Faculty may register for courses in accordance with the Division of Graduate Affairs policies. Faculty holding the rank of instructor and above may be candidates for degrees on this campus. Faculty may not seek degrees or register for courses within their own departments, programs, or schools and retain faculty status in that unit.

### Admission Categories

All applicants seeking admission to post-baccalaureate study at San Diego State University must apply and meet the minimum requirements to be accepted in one of the four following categories (consult the *Graduate Bulletin* for detailed information):

**Post-Baccalaureate Standing (Unclassified).** Exchange students (non-foreign), visitors from other CSU campuses, and other transitory students may be admitted for one semester as unclassified graduate students.

**Post-Baccalaureate Standing (Classified).** A student wishing to be admitted to a program leading to a credential **only** or to an advanced certificate **only** (not an advanced degree) must meet the criteria specified under General Admission Requirements. A student must also meet the professional, personal, scholastic, and other standards prescribed by the appropriate department and the Graduate Council. The applicant should consult the department involved for information concerning specific admission requirements and should submit a departmental application during the appropriate filing period. Admission with post-baccalaureate standing (classified) does not constitute admission to, or assurance of consideration for admission to, advanced degree curricula. Some advanced certificate programs require the GRE for admission. See the *Graduate Bulletin* for more information.

**Graduate Standing (Classified).** A student wishing to be admitted to a program of study leading to an advanced degree must meet the criteria specified under General Admission Requirements, and, in addition, must:

(a) Achieve a satisfactory score on the GRE General test. (Students holding an advanced degree from an institution that is a member of the Council of Graduate Schools are exempted from this requirement; students applying to the College of Business Administration will take the Graduate Management Admission Test. See the *Graduate Bulletin* for other possible exemptions.)

(b) Satisfy the special departmental or college requirements as stated in Part Five of the *Graduate Bulletin* under "Courses and Curricula."

(c) Meet the professional, personal, and scholastic standards for graduate study established by the department and the Graduate Council.

Students admitted with graduate standing (classified) are admitted to authorized advanced degree curricula and may enroll in courses numbered 600-, 700-, and 900-numbered courses. Such admission does not imply that a student will be advanced to candidacy for an advanced degree.

**Graduate Standing (Conditional Classified).** A student wishing to be admitted to a program of study leading to an advanced degree who meets the criteria specified under General Admission Requirements but who has deficiencies in the criteria for graduate standing (classified) may be granted conditional graduate standing (conditional classified) if the deficiencies can be met by specific additional preparation, including qualifying examinations. Students who have not completed the GRE/GMAT requirement and/or the TOEFL/IELTS requirement will not be eligible for conditional admission. Not more than 15 semester units may be assigned to satisfy undergraduate deficiencies in the major and normally all course conditions must be met within one academic year from the time of initial enrollment. Students admitted with conditional graduate standing (conditional classified) are admitted to authorized advanced degree curricula and may enroll in 600- and 700-numbered courses. Once the conditions established by the department, school, or college have been met, the student should request that the program graduate adviser file a change of status form with the Division of Graduate Affairs.

- **Post-Baccalaureate Standing (Unclassified).** Exchange students (non-foreign), visitors from other CSU campuses, and other transitory students may be admitted for **one** semester as unclassified graduate students; or

- **Post-Baccalaureate Standing (Classified).** Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

- **Graduate Standing (Conditional Classified).** Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or

- **Graduate Standing (Classified).** To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU Web site <http://www.calstate.edu> and the CSU admissions portal <http://www.csumentor.edu> are good sources of the most up-to-date information.

### **Graduate and Post-Baccalaureate TOEFL/IELTS Requirements**

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 or higher (using the paper version) or 213 or higher (using the computer version) or 80 or higher (using the Internet version) on the Test of English as a Foreign Language (TOEFL). Students must obtain a score of 6.5 or better on the International English Language Testing System (IELTS). Individual degree programs may require a higher minimum score. Applicants may be required by a program to submit a score for the Test of Written English (TWE). Individual degree programs may use the score on the TWE as an admission criterion or as an advising tool to identify students who may need further training in English.

### **Second Bachelor's Degree**

San Diego State University is not accepting applications for second bachelor's degrees.

### **Intrasystem and Intersystem Enrollment Programs**

Students enrolled at San Diego State University have access to courses at other CSU campuses on a space available basis unless those campuses or programs are impacted or admission to the desired program or admission categories are closed. This access is offered without students being required to be admitted formally to the host campus and sometimes without paying additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as elective credit, students should consult their San Diego State University academic adviser to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California community colleges. Additional information about these programs is available from the Office of the Registrar.

#### **CSU Concurrent Enrollment**

Matriculated students in good standing may enroll on a space available basis at San Diego State University and a host CSU campus during the same term. Credit earned at the host campus is reported at the student's request to San Diego State University to be included on the student's transcript at the home campus.

#### **Intersystem Cross Enrollment**

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

### **Impacted Programs**

All majors at San Diego State University have more students wanting to declare that major than can be accommodated. As such, they are designated as impacted majors. All students who are admitted to SDSU are placed in a premajor (including undeclared).

All premajors must meet department-specific criteria to move from the premajor to the major, such as a specified minimum grade point average, completion of prerequisite courses, tests, and completion of a certain number of units.

Criteria are described in the "Courses and Curricula by Department" section of this catalog or you may contact the major department for information. The CSU will announce during the fall filing period the supplementary criteria campuses will use for impacted programs. Detailed impactation information is available at <http://www.calstate.edu/SAS/impactioninfo.shtml> and via <http://www.csumentor.edu>. Information about the supplementary criteria is also provided to program applicants. For further information visit <http://www.sdsu.edu/impactedmajors>.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admissions consideration.

The following majors are impacted at San Diego State University: Art with emphases in Art History, Studio Arts; Art with emphases in Applied Design, Graphic Design, Interior Design, Multimedia, Painting and Printmaking, Sculpture, and Art in Preparation for the Single Subject Teaching Credential; Biology and Microbiology; Business Administration; Child Development; Communication; Criminal Justice; Economics; English and English in Preparation for the Single Subject Teaching Credential in English Language Arts; Foods and Nutrition; Health Science; History; Hospitality and Tourism Management; International Business; Journalism; Journalism with emphases in Advertising, Media Studies, Public Relations; Kinesiology; Liberal Studies; Nursing; Political Science; Psychology; Public Administration; Social Science in Preparation for the Single Subject Teaching Credential; Social Work; Sociology; Spanish; Television, Film and New Media with emphases in Critical Studies, Production; Theatre Arts; Theatre Arts with emphases in Children's Drama, Design and Technology for the Theatre, Design for Television and Film, Performance.

### **Importance of Filing Complete, Accurate, and Authentic Application Documents**

San Diego State University advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Official transcripts are defined as transcripts that bear the high school or college seal and remain in their original sealed envelope. Failure to file complete, accurate, and authentic application documents by specified deadlines will result in denial of admission, and may result in cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, *California Code of Regulations*). This requirement is effective from initial contact with the university and throughout the period the academic record is maintained.

### **Requirement and Use of Social Security Number**

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, *California Code of Regulations*, and Section 6109 of the *Internal Revenue Code* (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the university to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.



Students and applicants are issued a nine-digit ID number (RedID) for transactions that include accessing the SDSU WebPortal, registering for classes, meal plans, using library services, using Blackboard, communicating with The Center for Human Resources, financial transactions, and all student services.

## Registration and Requirements for Registration

### Registration

San Diego State University students register online through the SDSU WebPortal at <http://www.sdsu.edu/portal>. On campus and telephone registration are not available. The *Class Schedule* available at <http://www.sdsu.edu/schedule> contains specific information on registration, courses offered for the term, and a listing of the fees required for enrollment. Students will not be permitted to register until fees are paid. Payment of fees by itself does not constitute registration. A student is considered registered when: 1) fees have been paid, and 2) at least one course has been added prior to the first day of classes.

**Registration Restrictions.** The registration system will check for the satisfactory completion of the following tests and requirements: EPT (English Placement Test); ELM (Entry-Level Mathematics Examination); GSP (Grammar, Spelling and Punctuation Test); and WPA (Writing Placement Assessment).

Enrollment in some courses is restricted to students in specific majors and students at specific levels (i.e., freshmen, sophomore, junior, senior, or graduate). Major code and student level restrictions are listed in the *Class Schedule* footnotes.

The registration system will not allow registration in courses that meet at the same day and time or have overlapping meeting times. The registration system will also not allow enrollment in more than one section of the same course unless it is repeatable.

Students entering SDSU as freshmen are required to complete coursework in composition, mathematics, oral communication, and critical thinking in a specific order. These enrollment requirements are enforced by the registration system. For more information, refer to the Major Academic Plan (MAP) at <http://www.sdsu.edu/mymap>.

**Late Registration.** Late registration is allowed during the schedule adjustment period each semester. Students wishing to register late must pay registration fees plus a \$25.00 late fee before 4 p.m. on the 12th class day of the semester. After receiving an add code from the instructor of the course the student wants to add, the student must access the SDSU WebPortal to officially register. The last day to add classes is 6 p.m. on the 12th day of the semester.

**Schedule Adjustment Policy.** The schedule adjustment period allows you to drop a course, add course, withdraw from the university, and change the grading basis of a course. The deadline to DROP a class is the at 6 p.m. on the 10th day of the term. The deadline to ADD a class, change grading basis or withdraw from the university is at 6 p.m. on the 12th day of the term. You are not allowed to make any schedule adjustments after these deadlines and are responsible for knowing the current semester dates for these deadlines, which can be found on the academic calendar.

**Instructor Initiated Drop Policy.** Students who do not attend the first class session and the beginning of the second class session of a course may be dropped from that course by the instructor within the first eight class days of the semester. Students who do not meet prerequisite requirements can also be dropped within the first eight class days of the semester. Any student dropped by the instructor during this period will be notified of the action by e-mail. It is the student's responsibility to keep a current e-mail address on file through the SDSU WebPortal at <http://www.sdsu.edu/portal>. To reenroll, the student must receive an add code from the instructor and reenroll in the course by 6 p.m. on the 12th class day of the semester.

NOT ALL INSTRUCTORS WILL DROP STUDENTS WHO MISS THE FIRST CLASS SESSION AND THE BEGINNING OF THE SECOND CLASS SESSION. Students are responsible for all courses on their schedules. Students should check their online schedules regularly and take necessary action to add or drop during the schedule adjustment period.

**Improper Registration in Graduate Courses.** Only undergraduate students who are completing their bachelor's degree and who have filed a formal request for permission to enroll for concurrent master's degree credit or for concurrent post-baccalaureate credit may be authorized to enroll in 600 and higher-numbered courses. Undergraduate students who have not received permission for concurrent enrollment may not enroll in 600 or higher-numbered courses for any purpose without prior permission of the graduate dean. Undergraduates who enroll in advanced courses without permission are subject to administrative disenrollment. The registration for graduate students who have not met the stated prerequisites for Course 799A, Thesis, at the time of registration may be canceled.

**Religious Observances.** By the end of the second week of classes, students should notify the instructors of affected courses of planned absences for religious observances. Instructors shall reasonably accommodate students who notify them in advance of planned absences for religious observances.

### Statewide Placement Test Requirements

San Diego State University requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. Admitted freshmen must take the ELM/EPT (if required) by the May test date prior to enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their first year of enrollment. Students who do not successfully complete their remediation requirements within one year of their initial enrollment will be administratively disqualified.

Students register for the EPT and/or ELM through the Student Testing, Assessment and Research Office. Questions about test dates and registration materials may be addressed to the Prospective Student Center.

**English Placement Test (EPT).** The EPT is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduate students, with the exception of those students who present proof of one of the following:

- A result of "Ready for CSU College-Level English Courses" located on the STAR report of the CSU Early Assessment Program (EAP) taken in the 11th grade as part of the California Standards Test.
- A score of 550 or above on the critical reading section of the College Board SAT Reasoning test taken April 1995 or later.
- A score of 24 or above on the English section of the ACT taken October 1989 or later.
- A score of 680 or above on the College Board SAT writing section.
- A score of 3, 4, or 5 on either the Language and Composition or the Literature and Composition examination of the College Board Advanced Placement program.
- A score of 4-7 on the Higher Level English A1 International Baccalaureate examination.
- Completion and transfer of a course that satisfies the CSU General Education-Breadth or Intersegmental General Education Transfer Curriculum (IGETC) composition or critical thinking requirement, provided this course was completed with a grade of C or better.

**Entry-Level Mathematics (ELM) Placement Examination.** The ELM examination is designed to assess the skill levels of entering San Diego State University students in the areas of mathematics typically covered in three years of rigorous college preparatory courses in high school (algebra I, algebra II, and geometry). The CSU ELM must be completed by all entering undergraduate students with the exception of those students who present proof of one of the following:

- A result of "Ready for CSU College-Level Mathematics Courses" located on the STAR report of the CSU Early Assessment Program (EAP) taken in the 11th grade as part of the California Standards Test or Algebra II.
- A result of "Ready for CSU College-Level Mathematics Courses –Conditional" located on the STAR report of the CSU Early Assessment Program (EAP) taken in the 11th grade as part of the California Standards Test or Algebra II, plus successful completion of a CSU-approved mathematics or mathematics-related course taken before you enroll at SDSU.
- A score of 550 or above on the mathematics section of the College Board SAT or on the College Board SAT Subject Tests-Mathematics Tests Level I, IC (Calculator), II, or IIC (Calculator).
- A score of 23 or above on the mathematics section of the ACT.
- A score of 3 or above on the College Board Advanced Placement Calculus examination (AB or BC) or Statistics examination.
- Completion and transfer of a course that satisfies the CSU General Education-Breadth or the Intersegmental General Education Transfer Curriculum (IGETC) quantitative reasoning requirement, provided the course was completed with a grade of C or better.

## Determination of Residence for Nonresident Tuition Purposes

University requirements for establishing residency are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay university fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residence Requirements. These laws governing residence for tuition purposes at the California State University are California Education Code sections 68000-68090, 68120-68134, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on the Internet by accessing the California State University's Web site at <http://www.calstate.edu/GC/resources.shtml>.

The Office of Admissions is responsible for determining the residence status of all new and returning students based on the Application for Admission and the Residency Questionnaire. The Office of the Registrar determines residence status for currently enrolled students using the Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residence for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the residence determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residence for tuition purposes. A minor normally derives residence from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting an apartment where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial dependence on parents or others who do not meet university requirements for classification as residents for tuition purposes. Financial independence is required, along with physical presence and intent, to be eligible for reclassification.

Non-citizens establish residence in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residence requirements are contained in California Education Code sections 68070-68084 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three years of high school in California and graduated or attained the equivalent. Whether an exception applies to a particular student cannot be determined before the submission of an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal adviser.

Residence determination dates are set each term.

### Semester Term Campuses

Fall	September 20
Spring	January 25
Summer	June 1

The residence determination dates for the four stages of CalStateTEACH are as follows:

Stage 1	September 20
Stage 2	January 5
Stage 3	June 1
Stage 4	September 20

Students classified as non-residents may appeal a final campus decision within 120 days of notification by the campus. A campus residence classification appeal must be in writing and submitted to:

The California State University  
Office of General Counsel  
401 Golden Shore, 4th Floor  
Long Beach, CA 90802-4210

The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review. Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Office of the Registrar. Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residence for tuition purposes in California between the time this information is published and the relevant residence determination date. Students are urged to review the statutes and regulations stated above.

## Measles, Rubella, Hepatitis B, and Meningococcal Health Screening Provisions

Information on student health services and required immunizations is given in the Student Services section of this catalog.

# Fees

The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

For updated information regarding the fee structure for 2010-2011 refer to the online *Class Schedule* or Student Account Services Web site at <http://www.sdsu.edu/sas>.

Fees must be paid prior to accessing the WebPortal to register. Checks are accepted for the exact amount of fees. Overpayments of \$10.00 or less are refunded only upon request. If your check for registration fees or tuition is returned by the bank for any reason, your registration may be canceled and you will be billed \$55.00 (a dishonored payment charge of \$35.00 and late fee of \$20.00). Payment of fees for registration should be made online or by check or money order. The university reserves the right to refuse payment by personal check from those individuals who have previously had items returned unpaid by their bank. Refunds may be applied against other amounts due to the university. Checks to be made payable to SDSU. Do not enclose cash.

You may pay your fees online using your checking account information. There is no additional fee assessed for this service. Visit the Student Account Services Web site at <http://www.sdsu.edu/sas> and see Online Services.

In cooperation with SDSU, CASHNet™SmartPay allows students to pay their registration fees and/or out-of-state tuition with MasterCard, Discover Card, or American Express card. CASHNet™SmartPay is accessed directly from your online student account. Visit the Student Account Services Web site at <http://www.sdsu.edu/sas> and see Online Services.

Payments made via CASHNet™SmartPay are received by Student Account Services no later than the next business day, so the registration process is not delayed. CASHNet™SmartPay assesses each customer a service charge based on the transaction amount. See the Web site for details.

## ADMINISTRATIVE/FINANCIAL HOLDS

All administrative and financial holds must be cleared prior to submittal of payment for registration or other university services. See "Fees and Debts Owed to the Institution" in this section of the catalog. Acceptance of payment by the university does not constitute completion of registration or guarantee of services if any kind of administrative or financial hold exists.

Payments to clear financial holds must be made by cash, money order, or certified check. Personal checks or charge cards will NOT be accepted.

## REGISTRATION FEES – ALL STUDENTS

(On basis of units carried.)

**Fee payment information and instructions are in the *Class Schedule* available at <http://www.sdsu.edu/schedule>.**

Auditors pay same fees as students carrying courses for credit. Nonresident (foreign and out-of-state) students pay additional fees—see information below. Thesis extension, other zero unit courses, and half unit courses are charged as one unit for fee purposes.

### FALL 2010/SPRING 2011

<i>Units Attempted</i>	<i>Registration Fee</i>
<b>Undergraduate</b>	
0 units – 6.0 units .....	\$1,715.00
6.1 or more units .....	\$2,603.00
<b>Graduate</b>	
0 units – 6.0 units .....	\$2,000.00
6.1 or more units .....	\$3,095.00

### Teaching Credential Candidates

0 units – 6.0 units .....	\$1,913.00
6.1 or more units .....	\$2,942.00

<i>Units Attempted</i>	<i>Registration Fee</i>
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### Doctoral Students \*

0 units – 6.0 units .....	\$5,261.00
6.1 or more units .....	\$5,261.00

\* Does not include joint doctoral students.

The above fee includes a Student Body Association Fee of \$35.00, a Student Union Fee of \$143.00, a Health Facilities Fee of \$25.00, an Instructionally Related Activities Fee of \$175.00, a Health Services Fee of \$85.00, a Library Use Fee of \$25.00, and a State University Fee of either \$1,167.00 or \$2,013.00 for undergraduate students, \$1,440.00 or \$2,481.00 for graduate students, \$1,356.00 or \$2,337.00 for teaching credential candidates, or \$4,338.00 for doctoral students, depending on unit load.

Imperial Valley Campus students pay a Student Body Association Fee of \$65.00, a Student Union Fee of \$24.00, a Health Facilities Fee of \$3.00, a Health Services Fee of \$10.00, and an Instructionally Related Activities Fee of \$15.00. Imperial Valley Campus students do not pay the Library Use Fee. See *Imperial Valley Campus Bulletin* for details.

The total fee paid per term will be determined by the number of units taken.

Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code. See "Exemptions" in this section of the catalog.

Legal residents of California are not charged tuition.

## GRADUATE BUSINESS PROFESSIONAL FEE

The Graduate Business Professional Fee of an additional \$210.00 per unit will be charged for all units taken as a requirement for graduation with the following degrees. This fee is in addition to registration fees and non-resident tuition.

- MBA Master of Business Administration
- MS Accountancy
- MS Business Administration

A fee waiver is available for courses that are not used to meet degree requirements (excluding prerequisite courses). Contact the Graduate Business Programs Office, Student Services East, Room 3428, for details.

## TUITION FOR NONRESIDENT STUDENTS

(Foreign and Out-of-State)

Tuition will be charged for all units attempted.

Per unit..... \$372.00\*

(Tuition is payable in addition to registration fees listed above. For fee-paying purposes, zero unit and half-unit courses are counted as one unit. See **Liability for Payment** section for additional important information.)

Health insurance (mandatory for foreign students)

Per year, approximately .....\$700.00

\* Not to exceed \$11,160.00 for the fall/spring semesters.

### Cost of Living

San Diego State University establishes standard student budgets in coordination with the California State University system that meet federal requirements. Student budgets, updated annually to account for inflation are currently:

#### Costs of Attendance for the 2010-2011 Academic Year

	Living off Campus	Living on Campus	Commuting from Home
Registration fees .....	\$5,206	\$5,206	\$5,206
Books and supplies .....	1,638	1,638	1,638
Food and housing .....	10,388	11,485	3,810
Transportation .....	1,690	1,320	1,360
Miscellaneous/Personal .....	2,772	2,657	2,856
<b>Total.....</b>	<b>\$21,694</b>	<b>\$22,306</b>	<b>\$14,870</b>

The academic year registration fee for a teaching credential student is \$5,650; \$5,938 for a post-baccalaureate student, and \$9,652 for an education doctoral student. Graduate business students in selected degree programs pay an additional \$210 per unit (refer to the Graduate Business Professional Fee information). Nonresident (foreign and out-of-state) tuition is an additional \$372 per unit.

#### All fees and costs are subject to change without notice.

The California State University (CSU) makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees.

### PARKING FEES

Nonreserved parking space, per semester .....	\$135.00
Less than four-wheeled, self-propelled vehicle (motorcycle, moped) .....	34.00
Combined student/overnight parking surcharge, per semester .....	213.00

Section 42201 of Title 5, California Code of Regulations, provides for the waiver of campus parking fees for students with disabilities who have been issued a DMV placard or license plate, and who meet low income requirements. For further information regarding eligibility, contact the Student Disability Services Office (Calpulli Center, Room 1301).

### MISCELLANEOUS FEES

(Fees payable when service is rendered.)

Application for admission or readmission (nonrefundable).....	55.00
Application to Teacher Education Credential Program (in addition to \$55.00 application for admission) .....	25.00
Counseling Diversion Program fee (missed appointment fee \$30.00) .....	100.00
Credential application fee* .....	55.00
Credential evaluation fee .....	25.00
Diploma replacement fee .....	12.00
Document copying fee (per page) .....	1.00
Enrollment confirmation deposit fee (nonrefundable).....	400.00
Failure to meet administratively required appointment or time limit (late fee) .....	20.00
Fingerprinting fee (plus applicable DOJ and FBI fees) .....	17.00
Graduation services fee.....	55.00
Interest inventory assessment .....	10.00
Late course forgiveness .....	20.00
Late registration (nonrefundable) (Refer to <i>Class Schedule</i> for dates when this fee will be assessed.) .....	25.00

Latin diploma .....	22.00
Lock and locker fee (optional) .....	1.00
Loss of or damage to library materials .....	Replacement cost plus \$8.00 service charge
Lost key fee (per key) .....	10.00
Lost photo identification card Photo I.D. Card replacement .....	10.00
Musical instrument and audio/visual equipment fee .....	20.00
Photo-identification card (One-time cost to both new undergraduate and graduate students at time of registration.) Non-refundable .....	5.00
Registration installment plan service charge .....	33.00
Returned payment fee ** .....	35.00
Towel fee (optional) .....	4.00
Transcript of record (official) .....	4.00
Second through tenth transcript, prepared at the same time as the first .....	\$4.00 plus each 2.00
Additional copies over ten, prepared at the same time .....	\$22.00 plus each 1.00
On Demand Transcript .....	20.00
Additional copy prepared, at the same time as the first .....	5.00
Tuition (Foreign or Out-of-State) installment payment plan service charge.....	Equal to 15 percent of each installment payment

\* Established by and payable to the California Commission on Teacher Credentialing.

\*\* Late fee also charged when applicable.

### MISCELLANEOUS INSTRUCTIONAL COURSE CHARGES

Optional and mandatory course charges are assessed for a number of courses and laboratories offered at SDSU.

A list of the courses and fee amounts can be found at <http://www.sdsu.edu/sas> under Financial Information Student Fees. The courses are also footnoted in the *Class Schedule*.

### INSTALLMENT PLAN

**Registration Fees.** An installment plan is available for students who wish to pay their registration fees in payments. There is a \$33.00 service charge for this service, paid at the time the initial registration payment is made. Additional information and instructions are available in the *Class Schedule* or may be obtained from Student Account Services.

**Tuition (Foreign and Out-of-State).** An installment plan is available for students who wish to pay their tuition in payments. There is a 15% service charge applied to each installment payment. Installment contracts for the tuition installment plan are available at Student Account Services two weeks prior to the first day of classes.

### CREDIT CARDS

Student Account Services/Cashiers does not accept credit cards for payment of registration fees or tuition (foreign or out-of-state) except as applicable under the terms of the Installment Plan. American Express, MasterCard, Visa, and Discover Card charge cards are accepted for other payments, such as housing, parking, health services, continuing education, installment payments, and miscellaneous over-the-counter payments. In cooperation with SDSU, CASHNet™SmartPay does afford students the choice to use a credit card (American Express, MasterCard, Discover Card and Diners Club Card) to pay registration fees and/or tuition. Refer to fees section on previous page. Most ATM cards are also accepted for payment of miscellaneous charges. Additional information is available from Student Account Services.



## LIABILITY FOR PAYMENT

Whether or not an invoice is received from the university, students are liable for payment of all registration fees related to **units held on or added after the close of business on the 12th day** following the commencement of instruction. Foreign and out-of-state students are also liable for tuition related to all **units held on or added after the close of business on the 12th day** following the commencement of instruction.

All continuing students participating in online registration must make registration payments by the deadline as instructed.

Nonresident (foreign and out-of-state) tuition must be paid prior to the first day of classes. Nonresident and foreign students must pay or sign an installment agreement for a minimum of 12 units (9 units graduate) at the time of registration. Undergraduate foreign students wishing to pay fewer than 12 units and graduate students wishing to pay fewer than nine units must submit an approved Application for Reduced Course Load available through the International Student Center.

**IT IS THE STUDENT'S RESPONSIBILITY TO BE AWARE OF TOTAL FEES AND TUITION DUE.** Legal residents of California are not charged nonresident tuition. Additional fees that may become due as a result of units added during the semester must be paid at Student Account Services/Cashiers at the time the units are added. Note fee schedule above. LATE PAYMENTS FOR FEES AND TUITION ARE SUBJECT TO AN ADDITIONAL LATE FEE AND APPLICABLE SERVICE CHARGES.

## DISHONORED CHECK

If your check (either paper or electronic) is returned or not accepted by the bank for ANY REASON, you will be billed for the \$35.00 dishonored payment charge and the \$20.00 late fee when applicable. Nonpayment of fees or tuition may result in cancellation of your registration and withholding of further services until all financial liabilities have been resolved.

The university reserves the right to refuse payment by personal check from those individuals who have previously had items returned unpaid by their bank.

## REFUND OF MANDATORY FEES INCLUDING NON-RESIDENT TUITION

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, *California Code of Regulations*. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support programs at the California State University (courses offered through extended education) are governed by a separate policy established by the university.

In order to receive a full refund of mandatory fees (less a \$21.00 refund administrative fee), including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available from the Office of the Registrar and in the *Class Schedule*.

For state-supported semesters, quarters, and non-standard terms or courses of four weeks or more, a student who withdraws during the term in accordance with the university's established procedures will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 per cent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

For state-supported semesters, quarters, and non-standard terms or courses of less than four weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day of instruction in accordance with the university's established procedures and deadlines.

Students will also receive a refund of mandatory fees, including non-resident tuition under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error;
- The course for which the tuition and mandatory fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the university or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the university.

Information concerning any aspect of the refund of fees may be obtained from Student Account Services or at <http://www.sdsu.edu/sas>. Refunds may be applied against other amounts due to the university.

## Return to Title IV Financial Aid Requirements

The following policy is required by the Higher Education Amendments of 1998 (Public Law 105-244, enacted October 7, 1998).

When a student who has received Title IV financial aid withdraws, or otherwise fails to complete a period of enrollment for which he or she was charged, the institution is required to determine if unearned aid must be returned to the federal accounts. Calculations will be based on the withdrawal date and the percentage of the period of enrollment completed. If Title IV funds have been disbursed during the enrollment period, aid will first be returned by the institution to the programs in the order listed below as required by law and determined by the university. If funds have been disbursed directly to the student, he or she may be required to repay any unearned aid. In some cases where eligibility for aid exceeds the amount disbursed, the regulations allow for a post-withdrawal disbursement. If eligible for a post-withdrawal disbursement, the university will notify you of the process required to receive the funds.

Title IV Financial Aid consists of the following programs:

- Unsubsidized William D. Ford Federal Direct Loan
- Subsidized William D. Ford Direct Loan
- Federal Perkins Loan
- William D. Ford Federal Direct PLUS Loan
- Federal Pell Grant
- Academic Competitiveness Grant (ACG)
- National Smart Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Teach Grant

Examples of refund calculations are available upon request at Student Account Services.

## Refund of Parking Fees

**REFUNDS ARE NOT AUTOMATIC.** This schedule of refunds refers to calendar days, commencing on the date of the term when instruction begins.

Nonreserved space per semester:

Period	Amount of Refund
First week of class .....	100 percent of fee
Second and third week.....	75 percent of fee
Fourth week through end of sixth week .....	50 percent of fee
Seventh week through tenth week .....	25 percent of fee
Eleventh week through end of term .....	None

Your parking permit must be turned in to Student Account Services at the time you file your refund application. Refund applications are available at Student Account Services. The amount of refund is rounded down to the nearest dollar. No refund is made for amounts of \$5.00 or less. Refunds may be applied against other amounts due to the university.

## LATE REGISTRATION FEE

The Late Registration fee (\$25) pertains to those students who register during Late Registration. Newly admitted students **MAY** be exempted from this fee. The registration process is not complete until all fees due are paid and you are officially enrolled in classes through the Office of the Registrar.

## CANCELLATION OF REGISTRATION OR WITHDRAWAL FROM THE UNIVERSITY

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Office of the Registrar.

Students who receive financial aid funds must consult with the Office of Financial Aid and Scholarships prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. If a recipient of student financial aid withdraws from the institution during an academic term or a payment period, the amount of grant or loan assistance may be subject to return and/or repayment provisions.

## APPEALS PROCESS – STUDENT ACCOUNT SERVICES

An appeals process exists for students who believe that individual circumstances warrant exceptions from published policy. Students should file a "Petition for Special Consideration" obtainable at Student Account Services. Petitions must be filed with Student Account Services **prior to the end of the 12th week of classes.**

Petitions for refunds outside the scope of published policy are approved only when applicants can demonstrate exceptional circumstances, and the chief financial officer or designee determines that the fees and tuition were not earned by the university.

## SUMMER SESSION FEES

Refer to SDSU Summer Session *Class Schedule* for schedule of fees.

## EXTENSION COURSE FEES

Refer to Extended Studies Catalog for schedule of fees.

## EXEMPTIONS

Students receiving vocational rehabilitation benefits (U.S. Code, Title 38, Chapter 31) or the eligible dependents of veterans with service-connected disability or death (*California Education Code*, Section 32320) will have eligible fees and tuition paid or waived under provisions of these respective programs. See *Class Schedule* for instructions regarding deadlines for submission of documents to Student Account Services/Cashiers.

Those students who are eligible dependents of veterans with service-connected disability or death (*California Education Code*, Section 32320) must apply to the Regional Office of the Department of Veterans Affairs for the fee waiver in the year they apply to SDSU and all subsequent years they attend. Fee waiver (and refund of fees paid) will be approved for a prior academic year only if an application for certification of disabled status is pending with the United States Department of Veterans Affairs.

Further information regarding these programs is available in the Veterans Center located in Education, Room 151.

## FEE WAIVERS

The *California Education Code* includes provisions for the waiver of mandatory systemwide fees as follows:

**Section 66025.3** - Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is totally service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouse/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet certain age and income restrictions;

**Section 68075 (a)** - An undergraduate student who is a member of the Armed Forces of the United States stationed in this state on active duty, except a member of the Armed Forces assigned for educational purposes to a state-supported institution of higher education, is entitled to resident classification only for the purpose of determining the amount of tuition and fees.

(b) A student seeking a graduate degree who is a member of the Armed Forces of the United States stationed in this state on active duty, except a member of the Armed Forces assigned for educational purposes to a state-supported institution of higher education, shall be entitled to resident classification only for the purpose of determining the amount of tuition and fees for no more than two academic years, and shall thereafter be subject to Article 5 (commencing with Section 68060).

**Section 68120** - Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships);

**Section 68121** - Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania; if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program, and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Students who qualify for these benefits should contact the Office of the Registrar for further information and/or an eligibility determination.

## OVER 60 FEE WAIVER PROGRAM

San Diego State University offers a fee waiver program for California residents 60 years of age and older. Both undergraduate and postbaccalaureate students may participate in the program. The program waives the \$55 admission application fee and regular registration fees (except for a nominal \$28 fee). Participants must apply for admission during the regular application filing period and be admitted under regular admission requirements. Participants register for classes on a space-available basis after regularly matriculated students have completed registration. For additional information, contact the Office of Admissions.

### Procedure for the Establishment or Abolishment of a Student Body Association Fee

The law governing the California State University provides that fees defined as mandatory, such as a student body association fee and a student body center fee may be established. A student body association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (*California Education Code*, Section 89300). A student body center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (*California Education Code*, Section 89304). The student body fee was established at San Diego State University by student referendum in 1955. The campus president may adjust the student body association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose (*California Education Code*, Section 89300). The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus president containing the signatures of 10 percent of the regularly enrolled students at the university. Once bonds are issued, authority to set and adjust student body center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, *California Education Code* Sections 90012, 90027, and 90068. Student body association fees support a variety of cultural and recreational programs, child care centers, and special student support programs.

The process to establish and adjust other campus-based mandatory fees requires consideration by the Campus Fee Advisory Committee and a student referendum. The campus president may use alternative consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus president. The president may adjust campus-based mandatory fees, but must request the chan-

cellor to establish a new mandatory fee. The president shall provide to the Campus Fee Advisory Committee a report of all campus-based mandatory fees. The campus shall report annually to the chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, contact the Budget Office in the CSU Chancellor's Office at 562-951-4560.

### Fees and Debts Owed to the Institution

Should a student or former student fail to pay a fee or a debt owed to the institution, the institution may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise, or any combination of the above from any person owing a debt" until the debt is paid (see Title 5, *California Code of Regulations*, Sections 42380 and 42381).

Prospective students who register for courses offered by the university are obligated for the payment of fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact Student Account Services. Student Account Services, or another office on campus to which Student Account Services may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

# Financial Aid and Scholarships

## Financial Aid

Student financial aid programs are intended to provide assistance to students who do not have the necessary financial resources to meet their educational costs. Most students qualify for some type of assistance. For resources that recognize academic achievement, refer to the following information on scholarships. Only United States citizens and eligible noncitizens can receive financial aid.

Information about all state and federal aid programs and institutional aid programs is available from the Office of Financial Aid and Scholarships, Student Services, Room 3605, 619-594-6323. Information about the available programs as well as the academic standards that a student must maintain to remain eligible for such aid can be accessed at <http://www.sdsu.edu/financialaid>.

### Applying for Aid

Applicants who want to be considered for all types of state and federal financial aid should apply as soon after January 1 as possible by completing a *Free Application for Federal Student Aid (FAFSA)*. Since new California grant program applicants must apply by March 2, we strongly encourage all applicants to apply by this date.

The FAFSA is all you need to begin the application process. You may apply by using FAFSA on the Web at <http://www.fafsa.ed.gov>.

Applications are reviewed and aid awarded throughout the year based on available funding. To receive first priority evaluation of your eligibility for all financial aid programs, complete the FAFSA by March 2 and, by April 1, submit all financial aid documents requested. An application and documents submitted after these dates will receive second priority evaluation and aid awarded based on available funding at the time.

### Cost of Living

San Diego State University establishes standard student budgets in coordination with the California State University system that meet federal requirements. Student budgets, updated annually to account for inflation are currently:

#### Costs of Attendance for the 2010-2011 Academic Year

	Living off Campus	Living on Campus	Commuting from Home
Registration fees .....	\$5,206	\$5,206	\$5,206
Books and supplies .....	1,638	1,638	1,638
Food and housing .....	10,388	11,485	3,810
Transportation .....	1,690	1,320	1,360
Miscellaneous/Personal .....	2,772	2,657	2,856
<b>Total .....</b>	<b>\$21,694</b>	<b>\$22,306</b>	<b>\$14,870</b>

The academic year registration fee for a teaching credential student is \$5,650; \$5,938 for a post-baccalaureate student, and \$9,652 for an education doctoral student. Graduate business students in selected degree programs pay an additional \$210 per unit (refer to the Graduate Business Professional Fee information). Nonresident (foreign and out-of-state) tuition is an additional \$372 per unit (see Schedule of Fees section).

#### All fees and costs are subject to change without notice.

The California State University (CSU) makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees.

## Refund Policy

Information concerning the refund policy of San Diego State University for the return of unearned tuition and fees or other refundable portions of institutional charges is available from the Student Account Services, Student Services, Room 2536, 619-594-5253.

Information concerning San Diego State University policies regarding the return of unearned aid to the federal Title IV student assistance programs is available from the Office of Financial Aid and Scholarships, Student Services, Room 3605, 619-594-6323.

## E-mail and the Internet

The SDSU Office of Financial Aid and Scholarships uses e-mail and the Internet to communicate with aid applicants about documentation needed, disbursement holds, and awards. Go to the SDSU WebPortal at <http://www.sdsu.edu/portal> and select E-mail/Address Update to make sure there is a valid e-mail address on record for you. The Office of Financial Aid and Scholarships home page and secure Web site, *AidLink*, have been enhanced to streamline the application and award process for SDSU students. Use *AidLink* at <http://www.sdsu.edu/financialaid> to view your personal financial aid information, download and print documents you need to submit, activate your student loan, and more.

## Scholarships

San Diego State University awards scholarships to students to recognize and encourage individual talents, academic achievement, leadership skills, and the determination to succeed in spite of significant hardships. Scholarships are also awarded to students to support participation in SDSU approved study abroad programs, community service programs, and faculty approved conference attendance that is part of a student's SDSU curriculum. All students, regardless of grade point average, area of study, citizenship, or residency status are encouraged to apply for as many scholarships as possible.

Application materials and eligibility information can be accessed on the SDSU Office of Financial Aid and Scholarships Web site at <http://www.sdsu.edu/financialaid>. Deadlines vary and new scholarship opportunities are added to the Web site throughout the year. Students should check the Web site regularly to learn about continuing and upcoming scholarship opportunities, application and essay writing tips, and more.

The Office of Financial Aid and Scholarships coordinates the SDSU scholarship application and awarding process with the committees from the various departments and organizations responsible for selecting recipients. Scholarship funds are provided by private donors, corporations, professional associations, and SDSU alumni. In addition to SDSU scholarships, the Marshall, Fulbright, Rhodes, and Rotary Scholarships are prestigious international scholarships that are given annually to students pursuing educational goals outside the United States. Eligibility and application information is available on the Office of Financial Aid and Scholarships Web site at <http://www.sdsu.edu/financialaid>.

## Other Scholarship Resources and Links

The Office of Financial Aid and Scholarships Web site also lists resources and links to outside scholarship information and free scholarship search Web sites.

## Fellowships Administered by Departments

Students receive fellowships or traineeships through the various departments. Federal, state, and private industry supporting programs of this nature are largely directed to students doing graduate work or to students preparing for some special field of work. Students who have decided on a particular area of study should check with an adviser in the department of their major to determine what fellowship support might be available to them.



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# Student Services

## Division of Student Affairs

The Division of Student Affairs is a student-centered partner in the SDSU learning community. Education is enhanced, both inside and outside of the classroom, through quality services and programs that advance student access, learning, and retention.

The division contributes to academic and personal success, encourages independent civic responsibility, and promotes the welfare of all students. Student Affairs helps connect students to the university and to their future, building bridges that foster retention and loyalty beyond graduation.

The Division of Student Affairs consists of the following areas:

- Career Services
- Counseling & Psychological Services
- Educational Opportunity Programs/ Ethnic Affairs (EOP)
- Financial Aid and Scholarships
- Fraternity and Sorority Life
- Intercultural Relations/Cross-Cultural Center
- International Student Center/Study Abroad
- New Student and Parent Programs
- Ombudsman
- Residential Education Office
- Student Disability Services
- Student Health Services
- Student Life and Leadership
- Student Rights & Responsibilities
- Student Testing, Assessment and Research

## Career Services

**Student Services, Room 1200**

**619-594-6851**

**<http://career.sdsu.edu>**

Career Services is the central campus resource for career development and employment opportunities. In-person and online services provide students the means to build successful careers.

### Career Counseling

Career counselors provide the cornerstone of successful career planning and placement. They work with students to identify key strengths, interests, and opportunities. They also educate students about career-related topics, such as effective communication, resume development, job search strategies and how to use online resources.

### Employers and Employment Opportunities

Career Services provides access to thousands of employers who offer internships, full- and part-time jobs, and volunteer opportunities. The center hosts employer information sessions, networking events and professional workshops where students can learn about an array of industries and occupations.

### Career Fairs and On-Campus Interviews

Career Services provides career fairs throughout each academic year. These fairs range in size and scope. Visit Aztec Career Connection for a schedule of events. In addition to career fairs, Career Services brings hundreds of employers to campus each year to conduct on-campus interviews. On-campus interviews provide an opportunity for SDSU students to meet employers on campus at Career Services and interview for full-time and internship opportunities. Learn more about on-campus interviewing online at Aztec Career Connection.

### Career Resource Room

The career center offers students a space to explore career options. Computer stations provide access to assessments, Aztec Career Connection and software for developing resumes and other professional correspondence. This space also holds numerous books on career topics such as what to do with a variety of majors, how to develop a resume or pursuing a graduate degree. Reading and working space allow students to use many resources and interact with the student assistants and peer advisers.

## Campus Connections

Career Services partners with on-campus areas, such as departmental internship coordinators, Residential Education, Student Disability Services, Student Organizations, Academic Advising, college faculty, Associated Students, and the Alumni Association. Career Services leverages campus contacts to empower students and strengthen the SDSU community.

### Aztec Career Connection

Aztec Career Connection (<http://career.sdsu.edu>) – Students develop successful careers by having an online presence. Career Services provides SDSU students with Aztec Career Connection, the SDSU online portal for identifying and pursuing employment opportunities. This robust resource lists extensive jobs and internships, houses on-campus interviewing and provides outstanding online resources for career development. These exclusive online resources include:

- TypeFocus – career assessment and planning;
- Perfect Interview – practice interviewing;
- Vault – the leading online career development resource;
- Going Global – a resource for working and living abroad.

Register for Aztec Career Connection today – use your SDSU RedID as your username and password to create an account.

### Career Placement

Career Services may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system. Information is available at <http://career.sdsu.edu>.

### Visit the Career Center

Career Services is open 8 a.m. to 4:30 p.m., Monday through Friday. Call or stop by to schedule individual appointments. Fast-15 walk-in appointments are held daily. Visit the center's Web site for current schedule information. SDSU alumni are offered services for a fee. For more information, please contact our center.

## Counseling & Psychological Services (C&PS)

**Calpulli Center, Room 4401**

**619-594-5220**

**<http://www.sdsu.edu/cps>**

Counseling & Psychological Services (C&PS) provides a variety of services to enrolled SDSU students.

Individual counseling services are designed for students who can benefit from short-term therapy. Often, a few individual meetings with a therapist can help better identify, understand, and resolve emotional barriers that may be interfering with personal well-being and academic success. These confidential services are for SDSU students at no cost. If a student's situation requires longer-term therapy, referrals can be made to off-campus resources.

C&PS groups and workshops address issues common to most university students. As appropriate, students are encouraged to participate in these interactive and dynamic forums:

- Alcoholics Anonymous
- Communication Skills
- Grief and Loss
- Managing and Expressing Strong Feelings
- Managing Test Anxiety
- Relationship Skills
- Resilience
- Stress Management
- Substance Use/Abuse

Telephone consultation services are also provided. If a student has a personal concern, or is concerned about a friend, a therapist will talk directly with the student by telephone for a brief consultation. This conversation will allow the therapist to hear concerns and help identify the best way to help. Faculty and staff may also avail themselves of this service when concerned about a student. Therapists are generally available for consultation during business hours from 9:30 a.m. to 4 p.m., with the exception of the noon hour. Referrals to San Diego's free 24-hour counseling access line at 1-800-479-3339 are also provided.

Crisis intervention services are also available at C&PS. For students who are in need of immediate assistance because of a severe emotional crisis that may be life threatening, or otherwise require immediate attention, urgent appointments may be provided. Examples of urgent situations may include: thinking about suicide, a recent victim of assault, grieving the recent loss of a friend or family member.

The Center for Well-Being offers resources designed to help students help themselves. Seven stations are set up to promote health and personal growth, including a Meditation Station, hands-on activities that promote relaxation and stress reduction, pamphlets, books, audio and video tapes addressing topics such as: adult children of alcoholics, adults molested as children, assertiveness, coming out, concentration, depression, eating disorders, loneliness, motivation, relationships, self-confidence, sexual assault, stress reduction, suicide prevention, time management. The Alpha Chamber "Egg Chair" can teach your body and mind to relax. The "Egg Chair" provides an environment where students experience deep relaxation, both mentally and physically.

The C&PS peer educators offer students who are selected, trained and supervised an opportunity to provide outreach to other students. The C&PS student advisory board members provide advocacy for students' mental health needs, a service sponsored by SDSU Associated Students.

## Educational Opportunity Program/ Ethnic Affairs (EOP)

**Student Services, Room 2109**

**E-mail: [eop-sdsu@mail.sdsu.edu](mailto:eop-sdsu@mail.sdsu.edu)**

**<http://eop.sdsu.edu>**

The Educational Opportunity Program/Ethnic Affairs (EOP) is an undergraduate program designed to admit, retain, and graduate historically low income, first generation, disadvantaged college students. Eligible first time freshman and transfer students must be California residents and can only be admitted into the program prior their first semester of attendance at SDSU. It is the purpose of the program to support those students who have the interest and motivation to obtain a college education, but who have not been able to realize their full potential due to economic or educational factors.

Student services are provided throughout their undergraduate studies and are designed to ensure academic success. Comprehensive student services provided include outreach, recruitment, preadmission counseling, first contact program orientation, summer bridge program, personal counseling, academic advising, probation counseling, career guidance, individual tutoring, academic skills workshops, mentoring program, and an EOP grant. EOP advocates for multi- and cross-cultural activities to enhance the campus climate and increase the awareness of diversity on the campus.

EOP is a program in high demand with a limited number of admission spaces. Applicants who submit all required documents by the established deadlines will be reviewed based on their admission status and eligibility to our program. To apply to EOP, check the appropriate box on the CSU application on CSUMentor, and complete the online EOP application. You may check the EOP Web site for updated information on all of our programs.

## Fraternity and Sorority Life

**(In the Office of Student Life & Leadership)**

**Student Services, Room 1661**

**619-594-5221**

**<http://www.greeklife.sdsu.edu>**

Fraternity and Sorority Life oversees all aspects of Greek Life. Greek-letter social organizations create smaller communities within the larger university environment for the purposes of facilitating personal growth, leadership development, and academic support. Fraternities and sororities also offer students opportunities for friendship, small group living, campus involvement, community service, participation in social and recreational activities, and alumni networking. At SDSU there are 16 general fraternities, 10 general sororities, 10 culturally based fraternities, and 14 culturally based sororities. Membership recruitment drives (sometimes referred to as "rush") occur at the beginning of each semester. The general fraternities and sororities and one of the culturally based fraternities operate chapter houses where members can reside. New members should generally not plan on living in the chapter houses until their second year.

## Housing Administration and Residential Education

**6050 Montezuma Road**

**619-594-5742**

**<http://www.sdsu.edu/housing>**

The Office of Housing Administration (OHA) and the Residential Education Office (REO) at SDSU are committed to fulfilling the university's mission of "educating the whole person" by offering students a living environment conducive to academic and personal success. According to research findings of the American Council on Education and research at SDSU, students who live in residence halls have a better chance of succeeding in college; therefore, the university encourages students to live on campus at least two years while studying at SDSU. There are a variety of living environments convenient to campus facilities, to suit the varying needs of a diverse and dynamic student population. An active residence hall student government provides residents a chance to gain leadership experience and become involved with their on-campus community.

### Residence Halls

First-time freshmen that graduate from high schools outside the SDSU service-area are required to live in on-campus housing their first year on campus. In addition, the university recommends you live in a traditional residence hall your freshman year, a suite-style facility during your sophomore year, and in an on-campus apartment for your junior and senior years. As a first year student, being an active member in your community and an academically focused student will make your transition to college smoother. The university recommends freshmen live in an academically focused Residential Learning Community (RLC). Each RLC is designed around a major or theme. The combination of classes is designed to fit the majors within the theme floor as well as the university's Major Academic Plan (MAP). Students with an interest in the theme from any major may enroll in the community with approval. Current learning communities include: the Business Floor, Discover San Diego, Emerging Leaders Program, Health and Healing Professions, Journalism, Performing Arts, Physical Fitness (P-Fit P-Act), Social Activism and Global Environments (SAGE), Future Teachers Floor, Toltec House for Undeclared Majors, Women in Science and Engineering, Science, Technology and Math Floor for Men, and the Zapotec Honors House (these areas may vary from year to year so check the University Web site for updates). Eight co-educational residence halls/complexes house about 4,400 students. All residents have access to residential dining at The Cuicacalli Dining Room.

On the east side of campus are Zura Hall, a nine-story high-rise; eight-story Tenochca; Cuicacalli, a complex of two, six-story halls featuring suite style living; and Maya and Olmeca Halls, a complex of two, three-story, red brick halls. On the west side are 11-story Chapultepec Hall and nine-story University Towers. Each red-brick hall accommodates approximately 210 students. High-rises house from 350 to 680 students each.

Cuicacalli Suites offer SDSU students a unique suite-style residence hall option where nine to ten residents share a suite with double and single rooms and two full-size bathrooms. Cuicacalli accommodates 800 residents. University Towers (UT) offers students a mini-suite option with two double rooms sharing one bathroom. UT houses 560 residents.

Each hall offers double occupancy accommodations for single students. In most halls single rooms are very limited except Cuicacalli Suites. Apartment-style living is also available. The 90-unit Villa Alvarado apartment complex accommodates 345 students in furnished two bedroom units (four residence per apartment). The 175-unit Aztec Corner apartment complex accommodates 606 students in furnished one and two bedroom units (two to four residents per apartment). The license agreement includes a meal plan, except for residents of Villa Alvarado and Aztec Corner. First-time freshmen assigned to either Villa Alvarado or Aztec Corner are required to have a meal plan. Continuing SDSU and transfer students residing in Villa Alvarado or Aztec Corner are not required to have a meal plan.

Piedra del Sol is an apartment complex that offers two, three, and four bedrooms in a 66-unit complex. Apartments are unfurnished and no residential program is offered. Freshmen are not eligible to live at Piedra del Sol. The Piedra del Sol apartments are designed for returning SDSU students who want a truly independent lifestyle, with preference given to graduate and upper division students.

For the 2009-2010 academic year, the costs for room and board range from \$6,872 to \$14,344 depending on double or single occupancy and the meal plan selected.

Applicants are encouraged to request an on-campus housing license agreement once they have applied for admission to SDSU and have received their SDSU RedID number. Students can do this by going to the "Admission Status" section of their WebPortal account and indicating their interest in on-campus housing. Priority for on-campus housing will be based on the date the admitted student's complete SDSU Student Housing License Agreement and initial \$800 payment are received.

If you are looking for housing options while you attend SDSU, you will find information and assistance at the Office of Housing Administration (OHA). Visit <http://www.sdsu.edu/housing> for a description of the various housing options and more information on the housing application process.

Which residence hall is right for you? Where should you live? The university recommends freshman students choosing to live on campus live in a residential learning community. Your residence hall choice is an important academic decision. Try our selection process designed for freshman students – Find The Hall That's Right For You – on our Web site at <http://www.sa.sdsu.edu/housing/find-your-hall.html>.

### **Emerald Isle Apartments**

Emerald Isle is a small, older, unfurnished complex located immediately adjacent to the campus and is an affordable living option for graduate students. The complex offers 20 studios, two (one-bedroom) apartments and two (two-bedroom) apartments. Amenities include a laundry facility, parking (at an additional charge), and a barbecue area. There is no residence life program offered in this complex.

### **Aztec Corner East Apartments**

Aztec Corner East apartments are an option for upper division and graduate students looking for independent apartment-style living. Each fully furnished one- and two-bedroom apartment is rented by the space and each bedroom accommodates two (double) or three (triple) residents. There is no residence life program offered in this complex.

## **Intercultural Relations/ Cross-Cultural Center**

**Aztec Center, Room 202**

**619-594-7057**

**<http://www.sa.sdsu.edu/intercultural>**

The Office of Intercultural Relations/Cross-Cultural Center researches, designs, and implements unique programs that promote the appreciation of cultural diversity and fosters intercultural and cross-cultural understanding.

Intercultural Relations provides programs and services that support the academic mission of the university by enhancing the educational, personal, cultural, and social development of students. Intercultural Relations strives to build positive advocacy and collaborative relationships with the general student body with a special emphasis towards underrepresented student populations.

Many of the programs and services expand students' cultural horizon while honoring their respective cultural experiences. Intercultural Relations works in conjunction with a number of university departments and colleges to conduct programs related to recruitment, orientation, retention, and graduation in addition to academic, personal, professional and cultural development, which foster skills and strategies for being successful at SDSU.

## **International Student Center (ISC)**

**International Student Center**

**619-594-1982**

**<http://www.sdsu.edu/isc>**

The International Student Center (ISC) advances San Diego State University as a global university by serving as a crossroads for international students seeking educational opportunities at SDSU, and for SDSU students seeking educational opportunities in other countries. The ISC offers a full range of programs and services to a variety of communities on and off campus in an effort to foster student success, global perspectives, intercultural awareness, and international goodwill.

### **International Students**

Working closely with more than 1,900 international students from more than 95 countries spanning the globe, the ISC provides support services that meet the logistical, regulatory, cultural, academic, and personal development needs unique to SDSU's most diverse student community.

The International Student Center coordinates a variety of activities designed to foster intercultural goodwill, understanding, and friendship. One such activity is provided by the Intercultural Ambassadors Program through which selected international students make home-country presentations in San Diego schools. The InterNational Partners Program provides service-learning opportunities for international students in the San Diego community by linking students and local community service organizations. In addition, the ISC invites faculty, staff, and the community to become American friends to international students new to SDSU and to participate in the many events listed in the ISC calendar of intercultural activities. These include the International Coffee Hour, International Peace Village, Intercultural Workshops, and International Film Festivals.

### **International Student Exchanges**

In addition to the CSU International Programs, San Diego State University also sponsors semester abroad, dual degree programs, and travel-study programs. SDSU has also entered into special institutional arrangements with selected universities that provide both undergraduate and graduate students the opportunity for study, research, and internships abroad. Currently San Diego State University has student agreements with many international partners. SDSU's International Student Center assists students who wish to participate in an exchange or other SDSU program. For detailed information, contact the International Student Center at 619-594-1982.

For more information about the university's international programs, contact the Office of International Programs, 619-594-1354, e-mail [oiip@mail.sdsu.edu](mailto:oiip@mail.sdsu.edu) or visit our Web site at <http://oiip.sdsu.edu>.

## Study Abroad Students

The International Student Center provides services to all students who want to study abroad as part of their educational experience at SDSU. The ISC serves as SDSU's study abroad resource center and it acts as a window to the world for students beginning the journey. When students have questions about how to study abroad, what opportunities are available, or how to prepare for their time abroad, the ISC becomes their one-stop shop.

The ISC administers SDSU's reciprocal student exchange programs, providing various support services for participants in the 108 agreements SDSU has signed with institutions around the world.

The ISC serves as SDSU's liaison with the CSU International Programs Office (see the CSU International Programs listing) which offers CSU students the traditional year of study abroad experience. The ISC coordinates all promotion, recruitment, selection, processing, and orientation for the participants from SDSU.

The ISC also assists, in coordination with SDSU's Risk Management Program, that all SDSU students who study or travel in other countries are adequately insured and prepared for maintaining optimal health and safety abroad, and for planning how to respond to a wide range of possible emergencies.

The ISC plays a central role in SDSU's efforts to dramatically increase study abroad enrollment. In the last six years, the number of SDSU students studying abroad has increased more than 500 percent (from 167 to over 1,400 students), ranking us in the top two institutions in the United States in our category (source: IIE 2007).

## The California State University International Programs

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 15,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 19 countries, the International Programs also offers a wide selection of study locales and learning environments.

**Australia** Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, University of Western Sydney, Victoria University

**Canada** The universities of the Province of Quebec including: Bishop's University, Concordia University, McGill University, Université Laval, Université de Montréal, and Université du Québec system

**Chile** Pontificia Universidad Católica de Chile (Santiago)

**China** Peking University (Beijing)

**Denmark** Denmark's International Study Program (international education affiliate of the University of Copenhagen)

**France** Institut des Etudes Françaises pour Étudiants Étrangers, L'Académie d'Aix-Marseille (Aix-en-Provence) Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII, Institut Catholique de Paris, Université de Marne-La-Vallée, Université de Versailles-Saint-Quentin-en-Yvelines, and Université Evry.

**Germany** University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg

**Ghana** University of Ghana, Legon

**Israel** Tel Aviv University, The Hebrew University of Jerusalem, University of Haifa

**Italy** CSU Study Center (Florence), Università degli Studi di Firenze, La Accademia di Belle Arti Firenze

**Japan** Waseda University (Tokyo)

**Korea** Yonsei University (Seoul)

**Mexico** Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

**New Zealand** Lincoln University (Christchurch) Massey University (Palmerston North)

**South Africa** University of Kwazulu Natal Nelson Mandela Metropolitan University

**Spain** Universidad Complutense de Madrid Universidad de Granada

**Sweden** Uppsala University

**Taiwan** National Taiwan University (Taipei) National Tsing Hua University

**United Kingdom** Bradford University, Bristol University, Hull University, Kingston University, Sheffield University, University of Wales Swansea

International Programs pays all tuition and administrative costs for participating California resident students to a similar extent that such funds would be expended to support similar costs in California. Participants are responsible for all state university fee and program fees, personal costs, such as transportation, room and board, and living expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in Canada, France, Germany, Korea, and Mexico. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Additional information and application materials may be obtained on campus, or by writing to The California State University International Programs, 401 Golden Shore, Sixth Floor, Long Beach, California 90802-4210. Visit our Web site at <http://www.calstate.edu/ip>.

## New Student and Parent Programs

**Student Services, Room 1602**

**619-594-1509**

**Parent Hotline: 619-594-1653**

**<http://www.sa.sdsu.edu/nspp>**

The Office of New Student and Parent Programs provides undergraduate students and parents with the preparation, information, and support necessary for student success as they enter the university community. As a department within the Division of Student Affairs, our programs and services assist students and parents in understanding the goals and expectations of them in this dynamic university community. The academic and personal growth of SDSU students is enhanced through a partnership between parents and the university. We believe that parents are valuable partners in the educational process of their students.

Research has shown that students who make a connection early in their college career, who are given proper tools to navigate the university, and who have involved parents, are more likely to be academically successful, and have a better all-around college experience.

We support new SDSU students in the achievement of their academic goals and enrich their university experience through quality programs in preparation for their academic journey. We provide programs and services to parents of SDSU students through our Aztec Parent Programs. Our new student and parent programs and services include: New Student Orientation, New Student and Family Convocation, Welcome Week, Campus Tours, the SDSU Ambassadors, the Aztec Parents Association, *News for Aztec Parents* magazine, a parent liaison, and Family Weekend.

### New Student Orientation

The office coordinates all orientation programs for newly admitted undergraduate students and their parents. All incoming freshmen and transfer students are expected to attend New Student Orientation. At orientation, students receive academic advising and assistance in selecting their courses. They learn what it means to be a member of the SDSU community and how to get involved. The separate but concurrent Parent Orientation helps parents of new students understand policies, graduation requirements, and issues facing college students today.

### New Student and Family Convocation

Convocation is a ceremony to honor a new beginning. Held shortly before classes begin each fall, it is a time to officially welcome all new students and their families to our university community. Each year, thousands of new students and their families mark the important transition of attending SDSU by attending this ceremonial event.

### Welcome Week

Welcome Week is a special tradition at SDSU. It is filled with fun and informative events for all students – new freshmen and transfer students; commuter students and those living on campus; and returning students. Welcome Week is considered a “must” for students who want to really know SDSU and its resources. Welcome Week features interactive activities, entertainment, college tips and special events for students to enjoy, and is held at the beginning of each fall semester.

### The SDSU Ambassadors

The SDSU Ambassadors are the official student representatives, tour guides, and orientation leaders of San Diego State University. The Ambassadors are carefully selected and trained in order to represent SDSU at new student orientation programs and at campus and community events. To find out how to become an Ambassador please contact the Ambassadors at 619-594-6868 or via e-mail at [ambassad@mail.sdsu.edu](mailto:ambassad@mail.sdsu.edu).

### The Aztec Parents Association

SDSU values parents as partners. The better informed parents are about SDSU, the better resource and coach they can be for their students. The Aztec Parents Association encourages parents to stay involved in their student's education and support programs and services for SDSU students. The Aztec Parents Association is a parent's personal connection to SDSU. The following programs and services are provided to the parents of SDSU students:

- On-campus liaison, giving parents a direct connection to the university when they have a question or need assistance.
- *News for Aztec Parents* magazine for parents and families of SDSU students, mailed directly to their home twice a year.
- E-mail communication regarding important university information.
- Parent Orientation – Parent Orientation runs concurrently with New Student Orientation in the summer. Parent Orientation will educate parents on SDSU's programs and services and how to contribute to the personal development and academic success of students.
- Family Weekend – Each fall, the Aztec Parents Association sponsors Family Weekend. Family Weekend is a time to celebrate family, friends, and SDSU! Plan to join your student and other Aztec parents to experience college life, Aztec football, and more!
- Aztec Parents Fund – The goal of Aztec Parents Fund is to enhance programs and services that directly benefit students, such as safety, wellness, leadership, and much more.
- Special campus and travel discounts.

### Ombudsman

**Student Services, Room 1105**  
**619-594-6578**  
<http://www.sa.sdsu.edu/ombuds>

Becoming a student at SDSU also means becoming a member of a special community that includes students, faculty, staff, and administrators. As a member of this community, students are responsible for knowing and complying with established rules and regulations.

The ombudsmen are independent and impartial agents who help individuals and groups seeking the resolution and correction of complaints. The ombudsmen act as liaisons between students and the university, assisting students through formal grievance procedures and functioning to mediate and reinforce other means of redress when possible. This office does not supplant existing avenues of redress. It exists to encourage appropriate and timely access to those existing processes that may best resolve the problem.

Examples of student complaints that have been resolved through this process include disputes over grades, faculty or staff conduct, academic disputes, appeals or waivers, administrative policies, and institutional compliance with federal and state nondiscrimination laws. Should a complaint not be resolved at the referral level, the ombudsmen may act as mediators and suggest compromise solutions between parties. If the problem is still unresolved, the student may file a grievance with the student grievance committee. No student grievance can be filed with this committee later than the last day of the semester (excluding summer term) after the semester during which the student was allegedly aggrieved.

### Student Disability Services (SDS)

**Calpulli Center, Room 3101**  
**619-594-6473**  
**TDD 619-594-2929**  
<http://www.sa.sdsu.edu/sds>

Student Disability Services provides support services for students with mobility limitations, learning disabilities, hearing or visual impairments, psychological disabilities, attention deficit disorder, and other disabilities. Counselors are available to assist students in making personal, academic, and vocational choices, and show how best to utilize campus facilities. Prior to receiving assistance, appropriate medical documentation must be submitted to Student Disability Services.

Services available to SDS students include an assistive computer technology lab (the High Tech Center) where students may use standard or assistive computer technology for assignments and may receive tutoring assistance with their writing. Other services available when appropriate include priority registration for students with special needs; close-in parking; transportation on campus and information about off-campus transportation; government benefits counseling; accessibility information; library study rooms; reader services and assistance with books on tape; sign language interpreters or real-time captioning for deaf students; accommodated testing assistance; loan of educational support equipment (tape recorders, amplification equipment, wheelchairs, etc.); tutoring and notetaking services, referral to off-campus agencies for mobility orientation, financial benefits; and other services.

In addition, SDS offers special sections of classes aimed at helping students achieve academic success and fulfill university requirements. Rhetoric and Writing Studies 305W is designed to help students satisfy the upper division writing requirement. Rhetoric and Writing Studies 98A is designed to teach students effective test preparation, notetaking, and other strategies to help them improve their academic performance.

### Student Health Services

**Calpulli Center**  
**619-594-5281**  
<http://shs.sdsu.edu>

All regularly enrolled SDSU students have prepaid a health fee as part of their tuition and fees which entitles them to basic medical services. Some services, including annual Pap smears and pharmacy, require a minimal fee. We accept California's Family PACT program that covers the costs of contraception and sexually transmitted disease testing and treatment. Charges associated with these services



are dramatically lower than those found elsewhere. This care is provided at Student Health Services, located in Calpulli Center, where health care providers offer a wide range of programs and services.

Services include medical care by physicians board certified in family medicine, internal medicine, orthopedics, psychiatry, dermatology, and preventive medicine, and by certified primary care nurse practitioners; laboratory, x-ray, eye care, and dental services; a pharmacy which dispenses prescriptions and over-the-counter items at cost; physical therapy; health-related counseling and campuswide health education programming offered by the Health Promotion Department. Students are responsible for the cost of their medical care.

### **REQUIRED: Proof of Immunity Against Measles, Rubella, and Hepatitis B**

All new or readmitted students born on or after January 1, 1957 must provide proof of immunity against measles and rubella (German measles) during their first semester at SDSU. The minimum requirement is proof of at least one immunization for measles and rubella given after the first birthday and after 1968. *(All students are encouraged to consider a second measles immunization.)*

Students may fulfill the immunization requirement by bringing or sending medical documentation as proof of immunization to **Student Health Services**. Positive laboratory evidence of measles and rubella is also a way to prove immunization status. Students may also receive immunization at a cost at Student Health Services. For more information, call 619-594-5281.

**Important:** Students who have not complied with this California State University mandate prior to the registration deadline will **not** be able to register for classes their second semester.

### **Hepatitis B**

All new students who will be 18 years of age or younger at the start of their first term must provide proof of immunity against hepatitis B during their first semester at SDSU. Hepatitis B vaccination consists of three timed doses of vaccine over a minimum four to six month period. *(All students are encouraged to consider immunization against Hepatitis B.)*

Students may fulfill the immunization requirement by bringing or sending medical documentation of immunization or positive laboratory evidence of hepatitis B to Student Health Services. Students may also receive low cost immunization at Student Health Services. For more information, call 619-594-5281.

**Important:** Students who do not comply with this California State University mandate during their first semester at SDSU will **not** be allowed to register for classes a second semester until they provide proof of immunity or begin the immunization series. Students who have not completed the immunization series by the end of their third semester will no longer be able to attend SDSU. Students must provide proof of completion of the vaccine series to Student Health Services.

Immunization documentation can be mailed to SDSU Student Health Services, Immunization Program, 5500 Campanile Drive, San Diego, CA 92182-4701, brought to the Calpulli Center information window OR faxed to 619-594-7469 (include name, address, telephone number, date of birth, and SDSU RedID number).

In addition to demonstrating immunity to measles and rubella at Student Health Services, some students may be further required to present documentation to other campus officials. Students subject to this additional screening include:

- Students who reside in campus residence halls;
- Students who obtained their primary and secondary schooling outside the United States;
- Students enrolled in dietetics, medical technology, nursing, physical therapy and any practicum, student teaching, or fieldwork involving preschool-age children and/or school-age children or taking place in a hospital or health care setting.

### **Meningococcal Disease**

Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent one from contracting the disease and whether or not he or she has chosen to receive the vaccination.

Although immunization against this infection is not a requirement, all entering freshmen, particularly those living in residence halls, are urged to consider vaccination. The current vaccine is fairly effective against the majority of the strains of this bacterium, but unfortunately its immunity effect declines over a few years. Luckily, the risk of becoming infected with meningococcus also declines with age. Consequently, there is less of a reason to immunize older students, although they may do so if they desire. The meningococcal vaccine is available at Student Health Services at a reduced cost.

### **Strongly Recommended Health Screening**

Immunization from the following diseases may also protect students against potentially severe infections: tetanus, diphtheria, pertussis (whooping cough), polio, mumps, chicken pox (varicella) and Hepatitis A. Like measles, these too can be particularly harmful in the college-age group. These immunizations are available at reduced cost at Student Health Services. Flu shots are available annually, as well.

Entering students from developing countries are also strongly encouraged to have a screening test for tuberculosis (TB). The TB skin test is offered free at Student Health Services.

### **Appointments**

Students without acute or urgent problems are encouraged to make appointments in advance. Those with problems requiring immediate medical attention can make same-day appointments. All appointments can be made by either calling Student Health Services or visiting the Information Booth on the first floor of Calpulli Center. Student Health Services is open twelve months of the year. Services are available from 8:30 a.m. to 4:30 p.m., Monday, Tuesday, Wednesday, Friday, and on Thursday from 9:15 a.m. to 4:30 p.m. All medical care provided at Student Health Services is **strictly confidential**. No one, on or off campus, other than Student Health Services staff, has access to medical record information without written permission from the student.

### **Student Health Advisory Board**

Students can participate in the clinic activities and offer important feedback about services through membership on the Student Health advisory Board (SHAB) sponsored by Associated Students. Members not only work with clinic staff on a variety of health education projects, but also act as liaison between the SDSU student body and Student Health Services. SHAB keeps Student Health Services staff focused and current on major student health issues. Membership from all academic majors is encouraged.

### **Accidents and Student Insurance Coverage**

First aid is also provided to faculty, staff, and campus guests for accidents and injuries occurring on campus with the understanding that individuals requiring any care beyond first aid will be transferred to the most appropriate medical facility. First aid is defined as one-time treatment that typically does not require a physician, laboratory, x-ray, or pharmacy services. Accidents requiring treatment and/or transportation to Student Health Services or a local hospital should be reported immediately to the SDSU University Police, 619-594-1991.

SDSU students are regarded by the university as adults. Accordingly, students are responsible for their own safety and health in connection with participation in campus activities and should exercise good judgment and due care at all times.

Specific questions regarding insurance coverage for campus programs, institutional safety regulations, and potential risks inherent in academic programs and student activities should be directed to the responsible faculty or staff member in charge of the activity.

## Student Services

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Students participating in required or elective academic programs such as internships or practica through either nursing/allied health training, or in a teacher training program are covered under the university's Workers' Compensation program provided an internship agreement between the university and the facility has been executed by an authorized representative of the university. The university is providing Student Professional Liability insurance to its students who are enrolled in these programs. This coverage is provided through Lloyd's of London. Students needing proof of this coverage for their participation in an institution's affiliation program can obtain a copy of the certificate of liability from their professor.

The university does not provide liability, accident, or health coverage to students. Through the Associated Students, a supplemental health insurance policy is available and recommended to students having no private medical or accident insurance coverage. The insurance includes hospitalization benefits and specified medical and surgical services. The policy may be purchased per semester or on a yearly basis. An open enrollment period is available the beginning of each semester and the policy may be purchased at <http://www.csuhealthlink.com>.

The university makes no warranties as to the nature or quality of the coverage or the financial integrity of the insurers. The information on the availability of coverage is provided as a convenience to students.

### Student Life & Leadership

**Student Services West, Room 1661**  
**619-594-5221**

- **Civic Learning and Community Engagement** – offers programs and resources to SDSU students, faculty, staff, and community members interested in participating in community service and service-learning. <http://www.sa.sdsu.edu/ccbsl>
- **Fraternity and Sorority Life** – is currently comprised of 46 social fraternities and sororities, including both general and culturally based organizations, represented by four governing councils. For more information, refer to *Fraternity and Sorority Life* in this section of the catalog or <http://www.greeklife.sdsu.edu>
- **Leadership Programs** – personal growth events and activities, including the Leadership Certificate Program, leadership and personal growth workshops, a special leadership class for credit, and the Quest for the Best Vice Presidential Student Service awards.
- **Student Organizations and Activities** – facilitates on-campus status for student organizations, implementation of policies and procedures with regard to student activities, and approval of all on-campus activities, including fundraising events.  
<http://www.sacl.sdsu.edu/studentorgs>

### Student Rights and Responsibilities

**Student Services, Room 1604**  
**619-594-3069**  
<http://www.sa.sdsu.edu/srr>

The Center for Student Rights and Responsibilities incorporates compliance and judicial procedures, two distinct components. The center serves to clarify for students their role as members of the cam-

pus community, setting forth what is expected of them in terms of behavior and contributions to the success of the university. This center also serves to further San Diego State University's commitment to maintaining a campus environment free from harassment and promoting a policy of non-discrimination.

The center is charged with investigating complaints filed by students alleging discrimination or sexual harassment, providing sexual harassment prevention workshops, reviewing university policy, monitoring campus disputes, and serving as a resource to the administration on issues of regulatory law, constitutional law, and risk management.

The judicial component is responsible for acting on behalf of the university president regarding all aspects of student discipline. The center receives reports of alleged student misconduct relative to Title 5, *California Code of Regulations*, and investigates complaints in order to determine whether university disciplinary action is to be pursued. University disciplinary action may run concurrently with civil or criminal action initiated by the court system. Campus related violations include both academic and non-academic misconduct.

To review SDSU's Statement of Student Rights and Responsibilities, visit <http://www.sa.sdsu.edu/srr>.

### Student Testing, Assessment and Research (STAAR)

**Student Services, Room 2549**  
**619-594-5216**  
**FAX 619-594-5036**  
<http://www.sdsu.edu/testoffice>

The Student Testing, Assessment and Research (STAAR) Office is an important resource for the entire university community, serving both students and faculty by administering and analyzing paper and pencil and computer-based tests for the purposes of admission, class placement, competency for graduation, licenses, and credentials. Test scoring and analysis services are also provided for classroom tests. Additionally, the office also conducts a comprehensive program to measure the needs, attitudes, perceptions, behaviors of students, identify factors affecting retention, progression to degree, academic success, and assesses the effectiveness of Student Affairs programs and services.

Test dates for San Diego State University competency and placement tests are listed on the STAAR Web site. Advance reservations as well as fee payments are required for most tests. The Student Testing, Assessment and Research Office will provide students with test dates and registration procedures for major national examinations in the form of a bulletin of information or with the address of the testing service. Reservations for computer-based tests can be made at the Student Testing, Assessment and Research Office, 619-594-0968. Students who are interested in assessments for counseling or career planning must contact Counseling and Psychological Services or Career Services respectively. Special arrangements for disabled students are made through Student Disability Services.

Although competency test requirements are monitored by various offices on campus, the Student Testing, Assessment and Research Office will attempt to assist students in signing up for the required examinations or refer them to the proper agency.

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# Special Programs and Services

## Academic Computing

The SDSU computing environment provides access to scores of software products including Web browsers, programming languages, word processing, spreadsheets, presentation packages, relational databases, statistical software, and large databases. The university provides access to e-mail accounts, server space for publishing Web sites, and more.

The university has over 2,000 desktop computers located in 80 departmental/college computer laboratories. There are also two large computer labs open to all students; all machines in those labs are connected to the Internet. The open computer labs are the Student Computer Center located in Love Library, Room 200 which has PCs, Macintoshes, and laser printing as well as the Social Science Research Laboratory located in Professional Studies and Fine Arts, Room 140 which has PCs, Macintoshes, and laser printing.

Many SDSU instructors use the Blackboard learning management system to communicate with students, post grades, distribute materials, and facilitate learning activities beyond the classroom. Student accounts in Blackboard are automatically created upon enrollment and use the same login credentials as the SDSU WebPortal. Access to courses in Blackboard occurs when instructors make their courses available to students. The Blackboard Web site is:

<http://blackboard.sdsu.edu>.

Student computing and e-mail accounts are available through a student account system. This system allows enrolled SDSU students to create their own accounts via the Internet from a computer or terminal on campus or via the Web site from off campus.

## Alumni Association

The SDSU Alumni Association is dedicated to connecting SDSU alumni to the university and each other. Membership in the San Diego State University Alumni Association is open to those individuals who have an abiding interest in and commitment to the growth and future of SDSU and the community it serves.

The Alumni Association is a dynamic, exciting organization whose purpose is to serve and support the university and its graduates. It offers a number of programs and services designed to meet the variety of needs and interests of its alumni, including library privileges, reduced admission to many cultural activities and sporting events, discounts on purchases at the Aztec Store, access to SDSU's Career Services for a nominal fee, and a subscription to SDSU Magazine, a monthly electronic newsletter, and Aztec update: publications for alumni and friends of the university.

In addition, the Alumni Association sponsors The Montys (annual awards event honoring alumni of the university), provides scholarships for students, organizes Homecoming, provides input regarding university programs and policies, and provides excellent networking opportunities through a myriad of events.

For further information call the Alumni Office at 619-594-2586 or visit <http://www.sdsualumni.org>.

## Associated Students of San Diego State University

For more than 77 years, the Associated Students of San Diego State University (A.S.) has served as a unique, full-service organization. The A.S. provides a variety of programs, services and activities for SDSU students as well as faculty, staff, alumni, and the public. Directed by elected student executives and the A.S. Council, Associated Students offers programs ranging from recreation to entertainment and child care. A.S. also provides over 1,000 part-time jobs for students and free legal services for all students. An independent, not-for-profit corporation, A.S. is funded by the student body organization fee and revenues collected from its programs and services.

Associated Students can be reached by calling 619-594 6555 or visit <http://as.sdsu.edu>.

**Student Government.** Associated Students sponsors extensive student leadership programs designed to encourage active student participation in the decision-making policies of the university. The A.S. Council is the voice of the SDSU student body. Composed of one college representative per 1,500 students, five executive officers, and representatives from 14 student organizations, the Council is responsible for the A.S. \$23 million annual budget and for formulating organizational and university-wide policy. Elections held each year allow for the selection of individuals to fill one-year terms on the Council. Meetings of the A.S. Council are weekly, open sessions.

Other student government activities include collaborating with administration on university policies, programs, and services; appointments to educational or campus-related committees; lobbying to provide student input to city, county, state, and federal governments; and working to do what is best for SDSU students. Call 619-594-6555 for more details about student government programs or visit <http://www.as.sdsu.edu/govt>.

**Aztec Center Student Union.** The Aztec Center Student Union serves as the heart of student activity and the community center of SDSU. This facility has several meeting and conference rooms, study areas, free wireless access, the Bowling and Games Center, and is home to AS government affairs and business offices. A variety of convenient campus services are available including Starbucks Coffee, Food Court, STA Travel, SDSU Card Office, USE Credit Union, Ticket Office, Meeting Services, and the University Information Center. Montezuma Lounge offers a quiet place to study, relax, meet friends, or use free computers. Visit the Cross-Cultural Center, Government Affairs office, or one of several student organizations to get involved.

A wide variety of free entertainment including movies, lectures, and noontime concerts are offered throughout the academic semesters. Aztec Center, in partnership with Aztec Shops, Ltd., also provides a Satellite Cyber Lounge located in West Commons with free computer use. For more information, call 619-594-6551 or visit <http://www.azteccenter.sdsu.edu>.

**Viejas Arena.** Home to Aztec Men's and Women's Basketball, Viejas Arena is San Diego's premier venue for everything from concerts to sporting events, family shows, conventions, conferences, and corporate and university events.

This state-of-the-art, 12,000 seat facility is complete with award winning acoustics, VIP lounges, and star dressing rooms, as well as a distinctive outdoor concourse area. On site is a full-service ticket office and TicketMaster location for events throughout California.

The Viejas Arena is adjacent to the Aztec Recreation Center in the heart of the SDSU campus with nearby parking for 4,000 vehicles. Call 619-594-0234 or visit <http://www.viejasarena.com>.

**Open Air Theatre and Entertainment.** Located amidst the original landscaping of San Diego State University, this historic venue is ideal for watching your favorite musical group while sitting under the stars. Built in 1934, this 4,800 seat amphitheatre has played host to sold out concerts, lectures, symphony performances, and university events. Generations of guests have enjoyed this theatre's natural acoustics which complement the sound of all music genres. On site are full-service concession stands and a two-level hospitality suite, equipped with open balconies and dressing rooms.

For event information, call the Aztec Center Ticket Office at 619-594 6947 or visit <http://www.viejasarena.com>.

**Recreation.** Associated Students manages SDSU's recreation and fitness programs. Offered at affordable prices, they are open to the public, as well as students, faculty, staff, and alumni.

**Aztec Recreation Center (ARC).** The ARC features four full-size gyms, a 30-foot climbing wall, more than 100 cardio machines, a group fitness studio, a Spinning studio, two large weight rooms, locker rooms with saunas, and free towel service. ARC membership includes some MBAC classes, group fitness classes, intramural sports and access to all of SDSU's recreation facilities: ARC, Aztec Aquaplex, Tennis

Center, racquetball/wallyball courts, and bowling & games. Additional programming includes rec classes in dance, martial arts, sports and fitness. Membership fees start at \$18/month for students. The ARC @ SDSU is the only recreation facility in the country that is open 24 hours per day.

Call 619-594-PLAY for more information or visit <http://www.arc.sdsu.edu>.

**Aztec Aquaplex.** This state-of-the-art pool facility serves the recreational, educational, and athletic needs of the SDSU campus. The facility is located adjacent to the Tony Gwynn baseball stadium on the western edge of campus. The complex includes three heated pools; an Olympic 50-meter pool for lap swimming and diving; a large recreation pool with a zero-edge gutter and beach entry for lounging, aquatic-based group exercise classes (aqua-aerobics), recreational swimming and water volleyball/basketball. The third pool is a 20-person hydrotherapy spa for those looking to soak and relax in 100+ degree water. Twelve tennis courts for recreational play are also offered. Active members of the Aztec Recreation Center (ARC) receive entrance privileges into the facility. Non-ARC members pay a small daily entry fee.

For more information call 619-594-SWIM or visit <http://www.arc.sdsu.edu>.

**Aztec Center Bowling and Games.** This recently renovated facility includes 12 bowling lanes, 30 video games, billiards, and table tennis. Also available for private parties. Call 619-594-6561 or visit <http://www.arc.sdsu.edu>.

**Mission Bay Aquatic Center (MBAC).** The Mission Bay Aquatic Center, located at 1001 Santa Clara Point in Mission Beach, is the university waterfront facility offering students credit and recreational watersports classes, rentals, special events, and jobs for qualified candidates. It is one of the few programs in the world where you can earn university credit in wakeboarding, waterskiing, surfing, kayaking, sailing, rowing, or windsurfing. Getting to the MBAC is easy by car or by the San Diego Trolley Green Line to San Diego Transit Route 8. Call 858-488-1000 or visit <http://www.missionbayaquaticcenter.com>.

**Aztec Adventures.** Located in the Aztec Recreation Center, this outdoor adventure program offers camping, backpacking, rock climbing, canoeing, sea kayaking, and other outings. Also features excursions such as Baja whale watching, surfing safaris, and nature awareness weekends. Trips are always led by experienced guides. All outings include transportation, food, group equipment, and all permits or fees. Call 619-594-PLAY for more information and trip schedules or visit <http://www.aztecadventures.sdsu.edu>.

**Recreational Sports.** Recreational Sports offers free racquetball and wallyball to ARC members. Non-ARC members can participate at for a small daily fee. Recreational Sports is located on the west end of Peterson Gym.

**Intramural Sports.** SDSU students, faculty, staff, and ARC members have the opportunity to participate in recreational activities on a competitive or recreational level. Intramural sports leagues are available in a variety of indoor and outdoor sports throughout the year. Individuals can form a team with friends or sign up independently. The intramural sports fee is included in an ARC membership.

**Sports Clubs.** The SDSU Sport Clubs Program consists of 18 competitive collegiate club teams. Each club team is developed, organized, and managed by students with guidance from the professional staff and coaches. The emphasis for sport club activities is leadership. Sport Clubs thrive only by obtaining active student involvement and participation from club team leaders and its members. Sports Clubs compete in organized intercollegiate competitions at local, state, regional, and national levels. Both new and experienced student-athletes are actively recruited. In fact, many students are new to their sports. Sport Club teams are an excellent setting for the development of athletic skills, student leadership skills, and social opportunities.

For more information, call the ARC at 619-594-0200 or visit <http://www.arc.sdsu.edu>.

**Children's Center.** The SDSU Children's Center, a quality service provided by Associated Students, provides an enriched learning program for infants, toddlers, and preschool children of students, faculty, and staff while their parents are in class, studying, and/or at work. The academic school year program is designed to meet the needs of students and is only open the days school is in session for the fall and spring semesters. The year round program is designed to meet the needs of the working parents and is open year round. We observe all university holidays.

A grant from the State Department of Education, Child Development Division, pays all or partial child care fees for qualifying students' children. Tuition for all others is billed monthly and is determined by the child's classroom/age and contracted schedule.

The program is designed so that a variety of activities are offered that will foster the child's social, emotional, intellectual, and physical development, and help the child view himself/herself and the environment positively.

The classrooms are staffed by professional and student employees, volunteers, and child and family development majors. Parent participation is strongly encouraged and appreciated. Parents have the opportunity to serve on the Children's Center Board, which is composed of parents and other campus representatives.

Call 619-594-7941 or go to <http://www.sdsu.edu/as/child> for more information.

## Athletics

San Diego State University sponsors a broad array of varsity intercollegiate athletics for women and men. SDSU's commitment to gender equity in athletics includes 12 sports for women (basketball, crew, cross country, golf, soccer, softball, swimming, tennis, indoor/outdoor track and field, volleyball, and water polo) and six for men (baseball, basketball, football, golf, soccer, and tennis). As a National Collegiate Athletic Association (NCAA) Division I program, Aztec athletic teams compete at the highest level of intercollegiate competition. All of the teams except crew, men's soccer, and water polo compete in the 9-member Mountain West Conference. Crew is a member of the Western Intercollegiate Rowing Association (WIRA); men's soccer is a member of the Pac10 Conference; and water polo is a member of the Mountain Pacific Sports Federation (MPSF).

Athletics serves a number of important roles on campus and within the larger San Diego community. In addition to encouraging student-athletes to expand their competitive capabilities to the fullest, San Diego State teams provide a catalyst which helps generate pride and a shared *esprit de corps* among students, faculty, staff, and alumni. This also helps link these groups from generation to generation. Similarly, with nearly a hundred-thousand alumni and former students and tens of thousands of supporters in the county with no other direct connection to the university, Aztec teams frequently carry the aspirations of San Diego in the forum of NCAA Division I Athletics. On-campus athletic events attract both students and members of the community to campus and this reinforces many mutually beneficial town-gown relationships.

For more information please call 619-594-3019 or visit <http://www.goaztecs.com>.

### Student Athlete Support Services Aztec Athletics Center, Room 3029, 619-594-3395

Involvement with intercollegiate athletics on campus presents many challenges for students. This office provides guidance and assistance for these student-athletes in the areas of admission, registration, new student orientation, counseling, study hall, mentoring, tutoring, and academic advising. The office also serves as a liaison between faculty and the Athletic Department. This individualized program is designed to create an academic support network to ensure all student-athletes comply with university requirements while working toward completion of a degree.

## Audiology Clinic and Speech-Language Clinic

Administered by the School of Speech, Language, and Hearing Sciences, the clinics provide assessment and remediation services for SDSU students, staff, faculty, and the community. In addition, the clinics offer opportunities for research, consultation, supervised field internships, continuing education, and other service activities.

In the Speech-Language clinic, comprehensive diagnostic and treatment programs are available for children and adults in the areas of delayed speech/language development, voice, fluency or articulation disorders, aphasia, cleft palate, cerebral palsy, loss of communication function, and hearing loss. Also provided are services for bilingual/multicultural clients and speakers of English as a second language.

The *Assistive Device Assessment Program* provides language, cognitive, and technical assessments related to augmentative/assistive devices and systems for individuals who have communication disabilities.

In the Audiology Clinic, Audiologic services include hearing assessment, hearing aid evaluation and selection, assistive listening device evaluations, earmolds, ear protectors, hearing conservation and aural rehabilitation therapy.

The clinics are located at 5245 Campanile Drive, San Diego, CA 92182-1518 and can be reached at 619-594-7747.

## Aztec Shops, Ltd.

(Campus Stores, Dining Services)

<http://www.aztecshops.com>

Aztec Shops, Ltd., founded in 1932, is a not-for-profit corporation that functions primarily as an auxiliary of San Diego State University. The corporation provides a diverse portfolio of commercial services including operation of the bookstore and dining services on campus. Aztec Shops also operates selected other enterprises at San Diego State and at other colleges and universities. The corporation employs close to 200 full-time professionals and up to 800 part-time employees – mainly students – during busiest times.

**SDSU Bookstore.** The flagship of Aztec Shops' retail operations, the SDSU Bookstore is one of the largest campus bookstores in the country as measured by sales. The 25,000-square-foot facility –located in the heart of campus – carries every text (required and optional) for every class taught at SDSU. The facility's "Bookstore within a Bookstore" offers an impressive selection of general-interest titles including volumes for children. The store's well-staffed special order desk is available to secure even the most hard-to-find titles. Aztec Shops is the exclusive licensee for the San Diego State University logo and related images. The SDSU Bookstore features the most extensive selection of SDSU-imprinted clothing and gifts available. The store also houses a full-service computer hardware and software department that offers significant academic discounts on the most popular systems from Sony and Apple as well as the most current versions of the nation's most popular software. A broad selection of school supplies, cards, gifts and graduation regalia round out the store's offerings. For more information, call 619-594-7525 or visit <http://www.sdsu bookstore.com>.

**SDSU Dining Services.** Aztec Shops is responsible for all restaurants and other food service outlets on the SDSU campus. The corporation operates SDSU's Meal Plan Program which allows residence hall students to choose interesting and healthy meals from virtually any restaurant on campus. In addition to residence hall dining programs, we developed and operate our own branded restaurants such as Sub Connection and Vinnie's Gourmet Italian Deli in East Commons. We also contract with other restaurant operators such as Rubio's and Panda Express to provide quality food and service on campus. In addition to the varied restaurant options, Aztec Shops operates six Aztec Market convenience stores on campus, including a 3,000-square-foot store in East Commons. All stores carry a wide variety of grab-and-go beverages, sandwiches and salads, as well as traditional convenience store items. SDSU Dining Services' Catering Department is the recognized caterer for all events on the SDSU campus. For more information, call 619-594-7640 or visit <http://www.eatatdsu.com>.

**Other operations.** Other Aztec Shops operations include:

**Aztec Store** – Located in San Diego's Fashion Valley Mall, the store offers Aztec team apparel and SDSU imprinted gifts.

**The Campus Store** – Aztec Shops operates The Campus Store, the bookstore at the SDSU branch campus in Calexico, CA.

**Concessions** – Aztec Shops operates the concession stands at the Open Air Theatre, Tony Gwynn Stadium, and Viejas Arena.

**Elderhostel** – Aztec Shops runs a successful Elderhostel program that brings senior citizens from around the country to San Diego for specialized educational enrichment programs.

**Montezuma Publishing** – As part of its commitment to providing course materials for every class, Aztec Shops operates Montezuma Publishing which prints customized course materials and readers, securing copyright permissions when necessary.

**University Towers** – In November 2000, Aztec Shops purchased the well-known El Conquistador residence hall near the SDSU campus. Renamed University Towers, the facility is home to more than 500 students during the academic year.

## California State University Program for Education and Research in Biotechnology (CSUPERB)

Susan Baxter, Executive Director

Created in 1987 as a CSU system-wide program, the California State University Program for Education and Research in Biotechnology (CSUPERB) develops a professional biotechnology workforce by mobilizing and supporting collaborative CSU student and faculty research, innovating educational practices, and responding to and anticipating the needs of the life science industry. The CSUPERB program office is hosted at San Diego State University. CSUPERB promotes biotechnology workforce development by supporting innovative coursework and programs, real-world research experiences, and core resources for faculty and students at all 23 CSU campuses. The program involves students and faculty from life sciences, physical sciences, clinical sciences, engineering, agriculture, math, business and computer science departments and programs. CSUPERB organizes the annual CSU Biotechnology Symposium and serves as the official biotechnology liaison for the CSU with government, educational, and industry partners. In addition, CSUPERB administers and manages a small business administration (SBA) award to develop biotechnology industry responsive curricula.

CSUPERB recognizes that modern biotechnology preparation requires the integration of coursework, hands-on practice and participation in multi-disciplinary, team-based research projects. CSUPERB grants and awards programs have been developed to support these activities system-wide. Programs include: Howell-CSUPERB Research Scholars Awards for undergraduate student researchers, the Crellin Pauling Student Teaching Awards, the Don Eden Graduate Student Research Awards, Travel Grants programs for students and faculty, the Faculty-Student Collaborative Research Seed Grants, the Entrepreneurial Joint Venture Grants, and Biotechnology Programmatic Development Grants. In combination these programs award more than \$650,000 to CSU faculty and students annually.

CSUPERB programs and activities are administered by an Executive Director, a strategic planning council composed of 10 faculty and deans from CSU campuses, and a faculty consensus group composed of four faculty representatives from each CSU campus. CSUPERB is overseen by a Presidents' Commission composed of CSU presidents from CSU East Bay, CSU Los Angeles, Cal Poly San Luis Obispo, Humboldt State University, San Diego State University, and an Executive Vice Chancellor. Visit the program Web site at <http://www.calstate.edu/csUPERB> for more information.

## Developmental Writing Program

The Developmental Writing program, in the Department of Rhetoric and Writing Studies, assists students in completing the university's writing competency requirement. The program's services are available on an enrollment basis only. The university requires students to demonstrate writing competency consistent with its established standards and, accordingly, requires all entering students to pass various writing competency tests. Students who do not score high enough on any of these tests must enroll in appropriate developmental writing coursework in the Department of Rhetoric and Writing Studies during their first semester at SDSU. As of fall 2001, incoming freshmen have only three consecutive academic semesters in which to complete developmental writing requirements.



### General Mathematics Studies

The General Mathematics Studies mathematics laboratory offers tutorial assistance to students enrolled in GMS courses. This service is designed to assist students in completing the CSU ELM requirement. The university requires all students to demonstrate mathematics proficiency consistent with its established standards. In particular, students who fail the ELM must enroll in the appropriate General Mathematics Studies course in their first semester and continue until they have satisfied this requirement. Incoming freshmen have only three consecutive academic semesters in which to complete developmental math requirements.

### Honors Council

The Honors Council was formed in 1989. It comprises representatives of the Honors Program and of Golden Key, Mortar Board, Phi Beta Kappa, Phi Eta Sigma, and Phi Kappa Phi interdisciplinary honor societies.

The purposes of the Honors Council are:

- To act as an advisory and coordinating resource center for the interdisciplinary honor societies on campus;
- To promote the specific interests of the above listed honor societies;
- To promote the common concerns of all honor societies and honors programs at San Diego State University;
- To cooperate with the faculty and administrative officers in developing and maintaining high academic standards;
- To recognize students and faculty for their achievements in scholarship, leadership, and service;
- To recognize graduating seniors who are active members of all five university-wide honor societies.

For meetings and events and to house honors insignia and regalia, the Honors Council has the Henry L. Janssen Honors Council Room in Library and Information Access, Love Library, Room 428D.

### Honor Societies

An academic honor society is a campus organization that values and reinforces the high academic standards of the university and selects its members, at least in part, on the basis of superior academic performance.

#### Multidisciplinary Academic Honor Societies

**Golden Key** is a national and worldwide undergraduate honor society whose purpose is to recognize and encourage scholastic achievement and excellence in all undergraduate fields of study, to unite with collegiate faculties and administrators in developing and maintaining high standards of education, to provide economic assistance to outstanding members by means of annual scholarships, and to promote scholastic achievement and altruistic conduct through voluntary service. Golden Key International Honor Society has over 300 active chapters. It also publishes an annual magazine and a regular newsletter. San Diego State University's chapter was chartered in 1984.

Each fall, the chapter invites to membership juniors and seniors in the upper 15 percent of their classes who have completed their last 24 units at SDSU. Elected student officers set all agendas and direct activities. The faculty adviser is Dr. Edith J. Benkov, Department of European Studies. For more information, visit <http://www.sdsugoldenkey.com>.

**Mortar Board**, a national honor society for college seniors, was founded in 1918. The society recognizes in its membership the qualities of superior scholastic ability, outstanding and continual leadership, and dedicated service to the university community. The SDSU chapter of Mortar Board had its beginning in 1932 as Cap and Gown. In 1965 the local honor society was recognized as a member of the national organization. Nationwide there are over 227 active chapters with a membership in excess of 240,000. In 2009, the chapter was renamed the Jane K. Smith Cap and Gown Chapter, in recognition of the pivotal role Dr. Smith has played in the development of the SDSU chapter. At the 2008 National Conference, the SDSU Chapter received the Golden Torch Award which is the highest award given to chapters. They also received Project Excellence Awards for seven of their projects.

Mortar Board membership means active involvement to benefit the campus and community. Current projects include support of

philanthropy projects related to literacy, awarding of scholarships, presentation of annual emeritus faculty and staff Outstanding Service Awards to recognize individuals whose work contributed significantly to this university; an annual faculty/staff appreciation dinner; support of activities and projects of the San Diego Alumni Chapter; and the sale of the Mortar Board Daily Planner and Calendar of Events – a daily planner and calendar of events for the university community.

To be considered for election to membership, students must have senior standing for the fall semester with an overall GPA of 3.2 or higher and must have participated and excelled in the areas of scholarship, service, and leadership. All prospective members must be making satisfactory progress toward the degree. Admission to Mortar Board is highly competitive and is restricted to no more than 40 students per year.

Advisers for the honor society are Patti Scott, Director of Academic Scholarships, Dr. Henry L. Janssen, Emeritus Professor of Political Science, and Dr. Jane K. Smith, Emerita Assistant Vice President for Academic Services. Information is available at <http://mortarboard.sdsu.edu/>.

**Phi Beta Kappa**, founded in 1776, is the oldest national honor society in America. Its 276 chapters recognize academic excellence in the liberal arts and sciences. In 1974, Nu Chapter of California was established at SDSU, the first CSU campus to be so honored.

Membership is by invitation only. Juniors and seniors considered for membership each Spring are usually enrolled in the College of Arts and Letters or the College of Sciences and are or will be eligible for the bachelor of arts or bachelor of science degree. Juniors must have a GPA of at least 3.75, and seniors must have a GPA of at least 3.50. Juniors and seniors must have a GPA of at least 3.50 in liberal arts and sciences courses. These GPAs must be maintained with minimal use of Cr/NC. All candidates must have demonstrated university proficiency in mathematics and in a foreign language at the third-semester level. In addition, juniors must have completed at least 75 units of liberal arts and sciences courses, and seniors must have completed at least 45 liberal arts and sciences units at SDSU and must have demonstrated university proficiency in written English by coursework or satisfaction of the Graduation Writing Assessment Requirement. Finally, candidates must show significant depth and breadth of scholarly interests by the number, variety, and rigor of upper division courses taken outside the major. Election for membership, after careful examination of the student's record, is by vote of the chapter members.

Chapter activities include the annual initiation, at which several scholarships are awarded; the annual Phi Beta Kappa Lecture honoring an outstanding faculty member; lectures by visiting scholars; participation on the University Honors Council; supportive interaction with local schools; and cooperation with Epsilon Association, San Diego's alumni chapter of Phi Beta Kappa. Chapter president is Dr. Annalisa Berta, Department of Biology. For general information consult <http://www.pbk.org>.

**Phi Eta Sigma** is a national freshman honor society. The national chapter was formed in 1923; the local chapter was formed in 1955.

Phi Eta Sigma was established to encourage and reward high scholastic achievement among freshmen in institutions of higher education. There are over 300 chapters throughout the United States and more than 500,000 members.

All freshmen, both men and women, who have a cumulative grade point average of at least 3.50 on a 4.0 scale with at least 12 units at the close of either semester during their freshman year at SDSU are eligible to join. Students who were eligible but missed induction after their freshman year may join retroactively only during the designated invitation period in the month of September.

Among its activities are induction ceremonies, community service involvement, social events, and national conventions.

The adviser for the honor society is Dr. Stacey L. Sinclair, Director of University Honors Program. For more information, call 619-594-2872.

**Phi Kappa Phi** was founded in 1897 to promote the pursuit of excellence in all fields of higher education and to recognize outstanding achievement by students, faculty, and others through election to membership and through various awards for distinguished achievement. Activities of the organization include the awarding of two scholarships annually for graduate education of outstanding students, the recognition of outstanding faculty and students through nominations for national awards and scholarships, and spring

initiation. Additionally, the local chapter co-sponsors lectures, symposia, and workshops across the campus, most notably the Common Experience, the Henry L Janssen Last Lecture Series, and the annual Student Research Symposium.

The national organization publishes a newsletter and a scholarly journal and sponsors the National Scholar and National Artist awards and the Graduate Fellowship program. The society offers literacy grants, study abroad grants, emerging scholar awards, and love of learning awards. Many of these awards are open to all students at campuses with a Phi Kappa Phi chapter, including the Study Abroad Grants.

Nationally there are almost 300 active chapters. San Diego State University's chapter was chartered in 1965. Membership is based on, but not limited to, the following criteria: Juniors must have completed a minimum of 75 units and be in the top 7-1/2 percent of their class at SDSU; seniors must have completed a minimum of 90 units and be in the top 10 percent of their class at SDSU; graduate students must have completed a minimum of 15 units of graduate work at SDSU and be in the top 10 percent of their class. All prospective members must have made satisfactory progress toward the degree.

President of the society is Dr. Christopher J. Frost, Associate Dean for Undergraduate Studies.

### **Discipline-Based Honor Societies**

The national honor societies at San Diego State University which accord recognition to students who demonstrate superior scholarship and leadership in specific academic fields include:

- Alpha Epsilon Delta (Pre-Medical)
- Alpha Kappa Delta (Sociology)
- Beta Alpha Psi (Accountancy)
- Beta Gamma Sigma (Business)
- Chi Epsilon (Civil Engineering)
- Eta Sigma Phi (Classics)
- Kappa Delta Pi (Education)
- Lambda Pi Eta (Communication)
- Omicron Delta Epsilon (Economics)
- Phi Alpha Theta (History)
- Phi Mu Alpha Sinfonia (Music)
- Pi Delta Phi (French)
- Pi Kappa Lambda (Music)
- Pi Sigma Alpha (Political Science)
- Psi Chi (Psychology)
- Sigma Gamma Tau (Aerospace Engineering)
- Sigma Tau Delta (English)
- Sigma Theta Tau (Nursing)
- Tau Beta Pi (Engineering)

## **Instructional Technology Services**

Instructional Technology Services (ITS) provides support and leadership to the university in the effective uses of technologies for enhancing learning as well as facilitating research and strategic initiatives. ITS fulfills its mission by fostering collaboration and innovation with faculty and university stakeholders in the design, development, and effective use of learning environments and educational media.

ITS, located on the first floor of the Adams Humanities building, provides a variety of instructional, professional development, and research support services, including:

- Consultation, workshops, and collaboration via the SDSU Course Design Institute on the design and facilitation of effective learning experiences and environments, whether face-to-face or online;
- A Faculty Instructional Technology (FIT) Center located in Adams Humanities, Room 1109 that provides an informal environment for faculty consultations, collaboration, and development of instructional, professional, and research materials;
- Computer help desks for faculty and staff;
- ITS workshops that provide faculty and staff with hands-on productivity software training;
- Training and support for instructional software including:
  - Blackboard (web-based learning management system that allows faculty to facilitate learning online);
  - Wimba (web-based conference system that enables voice interactivity and webinar capabilities through Blackboard or independently);
  - SafeAssign (plagiarism prevention software available through Blackboard);
  - Respondus (assessment building software enhancing the question pool and quiz/test functions of Blackboard);
  - Captivate (software enabling faculty to record lectures and other mini-lessons for students to view at their convenience);
  - eInstruction CPS audience response "clicker" system to enable greater interactivity in classrooms;
- Graphic, video, and multimedia consultation, design, and production;
- Assistance with design and development of instructional materials to be accessible and useful to diverse learners;
- Video conference systems for distance learning, allowing faculty to teach at SDSU and the Imperial Valley Campus (or other distant sites) simultaneously. This live, real-time, two-way audio/video communication system can also be used for research and professional development purposes;
- ITS-managed learning spaces, including a Learning Research Studio (for faculty interested in teaching in a technology-rich space and taking an inquiry-oriented approach to teaching and learning with technology) and a presentation room (for faculty who occasionally need smart classroom capabilities);
- Instructional equipment loans (including laptop computers and video/data projectors, portable public address systems, digital cameras, camcorders, digital audio recorders, and much more);
- Campus-wide cable television system serving all classrooms.

For more information, call 619-594-5910 or go to <http://its.sdsu.edu>.

Instructional Services on the Callexico campus can be accessed by calling 760-768-5545 or going to East Faculty, Room 124C. On the Brawley campus, faculty members need to check with the coordinator who can be reached by calling 760-768-5787.

### Smart Classrooms

For instruction using multimedia and computer technologies, smart classrooms provide high technology presentation systems. Each classroom system includes an instructor station installed with a Macintosh/PC computer; video/data projector; DVD/VHS and/or VHS player; visual presenter/document camera for transparency, slide, printed, and three-dimensional object projection; and (in large halls, theatres and auditoriums) a public address system with wireless microphone unit and assistive listening device.

Today, more than 90% of the teaching spaces on campus are considered smart classrooms. Requests for smart classrooms should be made through your department or school administrative coordinator.

### Office of International Programs

In recognition of the rapidly expanding number and importance of international activities on the San Diego State University campus, the Office of International Programs has specific responsibility for coordinating and facilitating the development of the diverse international programs and activities of the university. The Office of International Programs is the primary contact for international programs and represents the university on international matters to external agencies and institutions. The Office of International Programs coordinates all international faculty and student programs and serves as an information clearinghouse regarding international projects, funding opportunities, and academic programs and services that have an international component.

#### International Faculty Exchanges

In order to enhance the international character of instruction and research, San Diego State University has developed a continuing program of faculty exchanges with partner universities worldwide. Currently, the university has formal arrangements to exchange faculty periodically with universities across the globe. Over 100 international scholars visit the San Diego State University campus each year to pursue scholarly research, participate in academic or professional programs, and share their international perspectives with the university community.

### Marine Officer Programs

The Marine Officer Selection Office in San Diego is looking for qualified students interested in a career as a commissioned officer in the United States Marine Corps. Positions are available in aviation, ground, and law; aviation and law programs may be guaranteed prior to commissioning. Contact the officer selection officer at 619-294-2174 or visit <http://www.ostsandiego.com/> for more information.

**Platoon Leaders Class.** The Platoon Leaders Class is the most popular route to becoming an officer. For college freshmen and sophomores, the program consists of two six-week training sessions between school years at Officer Candidates School in Quantico, Virginia. For college juniors, it is one 10-week training session during the summer prior to your senior year. You are paid and travel costs to and from Quantico, meals, textbooks, materials, and clothing are furnished. During the school year, you will not be called to active duty and you are not required to wear a uniform. Upon graduation, you'll be commissioned as a Marine Second Lieutenant and advance directly to The Basic School.

**Officer Candidates Course.** College graduates who want to be officers in the Marine Corps go through one 10-week session at Officer Candidates School. Upon completion, you will move immediately to The Basic School. There are three sessions during the year: fall, winter, and summer. No matter which pattern you follow, you will be paid and travel costs to and from Quantico will be covered. Meals, textbooks, materials, and clothing for training are also furnished.

**Officer Candidates Course-Reserve.** Officer Candidates Course-Reserve is similar to Officer Candidates Course, except you are pursuing a reserve commission. College graduates attend the 10-week session at Officer Candidates School, attend The Basic School, and after completing military occupational school, report into their reserve unit. Applicants competing for these positions will select their military job and reserve unit prior to attending Officer Candidates School.

Students are encouraged to seek information and plan ahead if they are interested in pursuing a commission in the United States Marine Corps.

### Navy Officer Programs and Scholarships

San Diego State University maintains a liaison with the Navy Officer Programs Office in San Diego. This liaison provides students with access to the many opportunities available to college students throughout the Navy, including scholarships for up to \$42,000. Call 1-800-USA-NAVY for additional information.

**Baccalaureate Degree Completion Program.** Sophomores, juniors and seniors who qualify can earn up to \$1,800 each month while they finish their last one, two or three years of college – no uniforms or drill required. Scholarships are available to sophomores, juniors and seniors in all majors who have a 2.7 grade point average or above. Positions in aviation, surface warfare, business management, personnel management, and information systems is guaranteed after college graduation.

**Navy Engineering Programs.** Scholarships are available to students in technical majors who have at least a 3.0 grade point average. Those who are interested and qualified receive more than \$1,700 each month plus benefits while they finish their last one or two years of undergraduate study. The scholarship leads to a position as an instructor, research or operating engineer for the Navy, and a commission as a naval officer.

**Medical School and Dental School Scholarships.** For students applying to medical or dental school, a scholarship is available which will cover the cost of tuition and books and provide a monthly payment while in medical school. Initial requirements are application to an accredited medical school and competitive GPA and MCAT/DAT scores.

**Allied Health Profession Opportunities.** The Navy Medical Service Corps offers commissions to clinical, scientific and administrative professionals in the health care field. It is comprised of several specialties that require either a baccalaureate, masters or doctorate degree.

**Nurse Corps.** Limited scholarships are available for junior and senior nursing students with top scholastic performance.

Students are encouraged to seek information and plan ahead if they are interested in adding any of these programs to their career options. More information on all programs is available by calling or writing to the Officer Programs Office, NRD San Diego, ASW Base, Bldg. 2, 33055 Nixie Way, San Diego, CA 92147-5192, 619-524-6760.

### Parking and Transportation

When possible, carpooling or use of alternate modes of transportation is recommended for the commute to campus.

Metropolitan Transit System's Green Line trolley and seven bus routes (11, 14, 15, 115, 856, 936, 955) conveniently connect the San Diego metropolitan area with service to the San Diego State University Trolley Station and Transit Center. Semester and monthly trolley and bus passes can be purchased at the Aztec Center Ticket Office.

Further information concerning Metropolitan Transit trolley and bus routes, fares, services, and SchoolPool carpool registration is available at 1-800-COMMUTE or <http://www.sdmts.com> and <http://www.ridelink.org>.

On-campus parking is by permit only and overnight parking requires an additional permit. Purchase or possession of a parking permit does not guarantee a parking space and parking is limited and available on a first come, first serve basis. Parking structures and surface lots are located on the perimeter of the campus, with the remote parking lots serviced by free shuttle vans weekday evenings (Monday through Thursday) during the academic year. Major events at Viejas Arena may require parking location adjustment.

Visitors are directed to the Parking Information Booth at the College Avenue entrance to the campus for directions to several available pay parking lots. For further information on parking at the San Diego campus, contact the Department of Public Safety, 619-594-6671. For visitor parking at the Imperial Valley Campus, call 760-768-5500.

## San Diego State University Research Foundation

San Diego State University Research Foundation, incorporated in 1943, is an auxiliary organization authorized by the Education Code of the State of California. It is a nonprofit corporation chartered to augment the educational, research, and community services objectives of the university. SDSU Research Foundation serves the university in the following major areas:

- Assisting faculty and staff in developing and administering federal, state, and privately funded projects.
- Seeking funding sources, offering grant-related workshops, assisting with proposal development and submission, and interpreting agency guidelines and policies.
- Developing project budgets, obtaining university approvals, and negotiating sponsored grant and contract awards.
- Assisting with staff recruitment, and purchasing support for funded projects.
- Providing technology transfer services, protecting intellectual property, commercializing technology developed on campus, and assisting spin-out companies based on SDSU inventions.
- Identifying, acquiring, and managing real property in support of sponsored programs not housed in university facilities.
- Accounting and financial reporting support for research and project funds, scholarships, institutes, and The Campanile Foundation.

SDSU Research Foundation, as a nonprofit corporation, is governed by a board of directors in accordance with its articles of incorporation and bylaws. The principal function of the directors is to establish policies and guide the corporation in achieving its objectives.

The SDSU Research Foundation is located in the Gateway Center at 5250 Campanile Drive. More information is available at <http://www.foundation.sdsu.edu> or by calling 619-594-1900.

## San Diego State University Press

As the scholarly press for San Diego State University, San Diego State University Press publishes works of original research, as well as other meritorious academic and creative works that will further the intellectual mission of the university. The current focus of the Press is in these areas: Latin America and the United States-Mexico border; regional studies of the Pacific Southwest; and postmodernism. In addition to books, the Press also publishes under its imprint the journals *Fiction International* and *Poetry International*.

San Diego State University Press imprint is controlled by an editorial committee of scholars, appointed by the provost and the senate. Financial accounting and coordination are provided by the San Diego State University Research Foundation.

## Semester and Summer Study Abroad Programs

### Florence Summer Program

The Florence Summer Program offers students the opportunity to study for an eight week summer term in Florence while earning SDSU resident credit. Courses satisfying upper division General Education Explorations of Human Experience are taught by SDSU faculty. To be eligible, students must be sophomores, juniors, or seniors in good academic standing. For further information contact Maren Castaneda in the College of Arts and Letters International Programs Office, Arts and Letters, Room 473.

### London Summer Program

The London Summer Program offers students the opportunity to study and do an internship in London while earning SDSU resident credit through the College of Extended Studies. Students may choose the six week study program or the eight week internship option. Courses satisfying upper division General Education Explorations of Human Experience are taught by SDSU faculty. To be eligible, students must be sophomores, juniors, or seniors in good academic standing. For further information contact Maren Castaneda in the College of Arts and Letters International Programs Office, Arts and Letters, Room 473.

### Madrid Semester Academic Program

The Madrid Semester academic program is administered by the Department of Spanish and Portuguese. This program offers students the opportunity to study the Spanish language and culture in Spain for four months and to live in Madrid. Open to SDSU and other California State University students in good standing who have completed at least three college semesters of Spanish (or equivalent). All courses are taught by faculty of the Center for Spanish Studies at Antonio de Nebrija University. Living accommodations are with Spanish-speaking families throughout Madrid. Students earn 12-15 SDSU resident units toward the bachelor's degree through the College of Extended Studies. SDSU financial aid may be available to qualified students. For further information, contact the Department of Spanish and Portuguese Languages and Literatures, Arts and Letters, Room 134.

### Paris Semester Academic Program

The Paris Semester academic program is administered by the Department of European Studies. It offers students the opportunity to study for a semester in Paris, while earning 12-15 units of SDSU resident credit. Courses satisfying General Education, French, and International Business requirements are taught by SDSU and Paris-based faculty. To be eligible, students must be sophomores, juniors, or seniors in good academic standing with a minimum of two college semesters of French. For further information, contact the Department of European Studies, Education and Business Administration, Room 304.

## Veterans Center

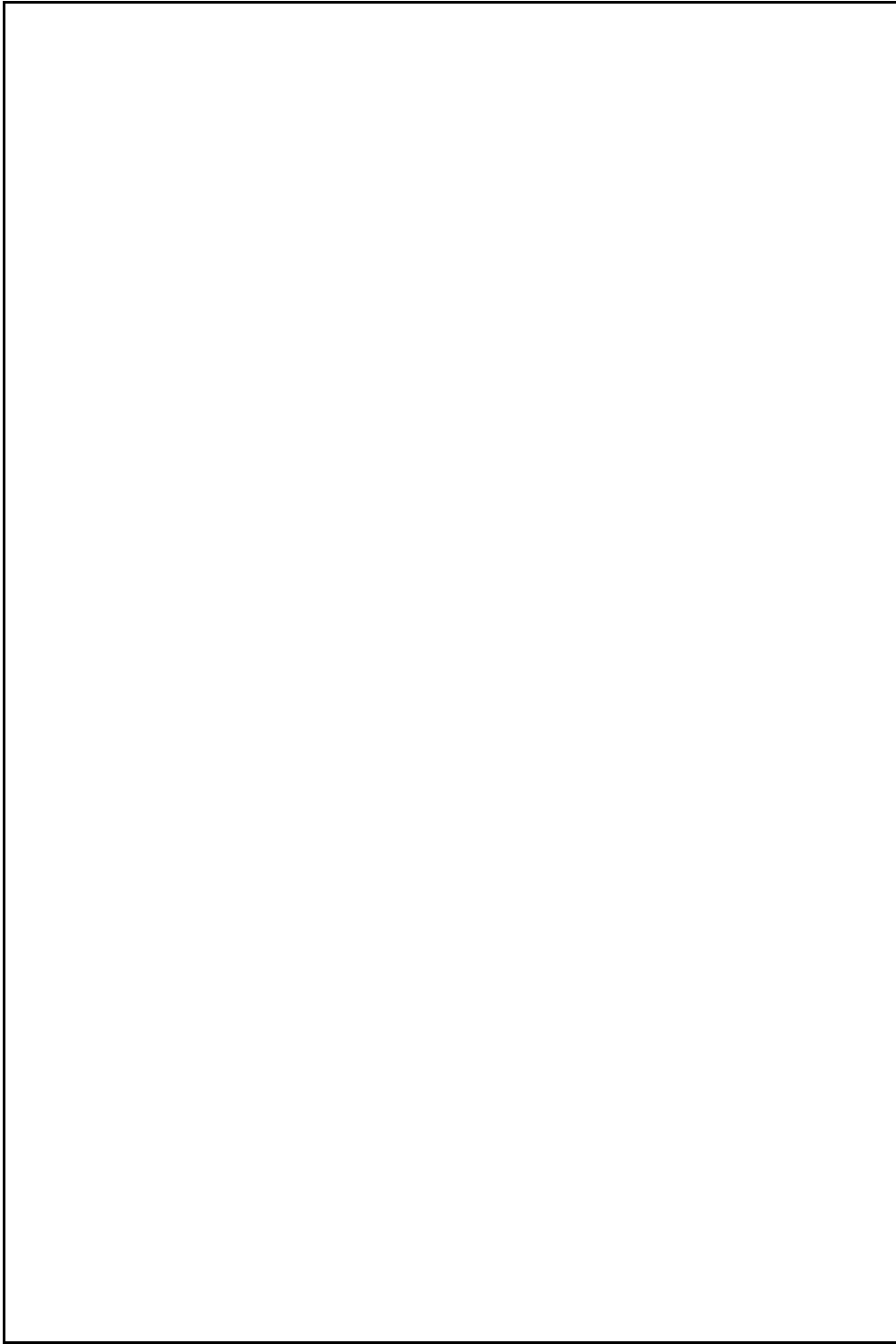
The Veterans Center serves as the hub for all student veteran support services at SDSU. The Center supports the state, regional and campus-wide Troops to College programs. The Veterans Center offers eligible veterans, dependents or reservists assistance with applying for education benefits, coordinating the Veterans Affairs work study program, and processing tutorial assistance paperwork. Student veterans also have access to on-campus housing in the Veterans House and can socialize with other students by joining the Student Veteran Organization.

The following educational benefits are available to veterans and dependents at SDSU:

- Chapter 33 (Post-9/11 GI Bill)
- Chapter 33 (Post-9/11 GI Bill - Transfer of Entitlement)
- Chapter 30 (Montgomery GI Bill - Active Duty)
- Chapter 31 (Vocational Rehabilitation)
- Chapter 1606 (Montgomery GI Bill - Reservists)
- Chapter 1607 (Reserve Educational Assistance Program)
- Chapter 35 (Dependents Educational Assistance)
- California Veterans Fee Waiver Program (Dependents of Veterans with a Service-Connected Disability)

Note that in order to receive benefits while attending SDSU, the student must be a regularly matriculated student and all classes taken must be required for the educational objective selected.

For additional information about veteran services, contact the SDSU Veterans Center, Student Services West, Room 1575, at 619-594-5831, or on our Web site at [www.sdsu.edu/veterans](http://www.sdsu.edu/veterans). You can also follow us on Twitter at [www.twitter.com/SDSUVeterans](https://twitter.com/SDSUVeterans).







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# Division of Undergraduate Studies

**OFFICE: Administration 201**

**TELEPHONE: 619-594-5841**

**FAX: 619-594-2049**

## Administration

Dean: Geoffrey W. Chase

Associate Dean: Christopher J. Frost

Assistant Dean: Bonnie M. Anderson

## General Information

The mission of the Division of Undergraduate Studies is to develop and enhance learning communities that foster inquiry, interdisciplinarity, and academic achievement. By continuously improving and adapting academic programs and services, we nurture students' abilities to learn, to respect diversity of peoples and ideas, and to work toward social justice and a sustainable future. Through this work, the division creates opportunities for creativity, collaboration, innovation, and academic excellence throughout the university and community.

The division works toward its mission through a variety of university-wide programs and services. The division houses the following:

Academic Engagement Programs

Academic Scholarships

Center for Teaching and Learning

Compact Scholars Program

Faculty-Student Mentoring Program

Interdisciplinary Studies in Three Departments

Liberal Studies

People, Information, Communication, and Technology Program

Thomas B. Day Student Success Programs

University Honors Program

The division is also responsible for several university-wide mandates. It provides coordination and evaluation of the undergraduate programs at San Diego State University and has general responsibility for the undergraduate curriculum and for academic standards and regulations that affect undergraduate education. Additionally, it coordinates the Western Association of Schools and Colleges (WASC) reaccreditation process, the assessment of student preparedness in writing and mathematics at the freshman and transfer levels, the assessment of student learning, and of the Graduation Writing Assessment Requirement.

## Research Centers and Institutes

### Center for Regional Sustainability

**Geoffrey W. Chase, Director**

The San Diego State University Center for Regional Sustainability (SDSU/CRS) fosters research; establishes collaborations across campus and with partners from business, government, and education; and generates solutions that enhance the natural environment, economic vitality, and social equity in our region (San Diego and Imperial Counties, and northern Baja California).

The SDSU/CRS further (1) focuses on key issues such as water resources, energy use, and transportation and develop comprehensive solutions for meeting these challenges; (2) educates and trains the next generation of sustainability experts and practitioners to meet the needs of local businesses, governments and non-profits organizations; and (3) informs and educates the public about sustainability issues through the development of curricula (K – 16), publications, and web applications, seminars and conferences.

More information is available at <http://crs.sdsu.edu/>.

### Qualcomm Institute for Innovation and Educational Success

**Geoffrey W. Chase, David T. Hayhurst,  
Ric A. Hovda, Co-Directors**

The Qualcomm Institute for Innovation and Educational Success is a partnership between Qualcomm/SDSU. This partnership was formed to accomplish the following objectives:

- Significantly increase the technology skills of SDSU graduates, thereby generating a more qualified workforce and a better-informed citizenry.
- Develop an educational system that values, encourages, and rewards creative methods of delivering education, from kindergarten through college graduation.
- Establish the institutional infrastructure at SDSU to support large-scale change and transformation of the education system through innovation, evaluation, and dissemination of effective educational methods.
- Dramatically shift the way education is delivered, from kindergarten through college, with an emphasis on improving technology skills and knowledge.
- Develop cross-curriculum synergies among SDSU academic programs that help teach technology skills to students in all courses of study.
- Develop an effective, sleeves-rolled-up dialogue among Qualcomm, SDSU, and the greater San Diego business and corporate community, with the goal of addressing challenges, identifying opportunities, and generating responsive action.

The institute has the following four components:

- *Improving Student Achievement in Mathematics Program* to increase student mathematics performance in public schools.
- *Project Lead the Way* to increase the number and diversity of qualified students entering the College of Engineering.
- *People, Information, Communication, and Technology Program* to promote the diffusion of ICT skills across the curriculum.
- *National Center for Urban Schools Transformation* will assist urban public schools to dramatically improve the level of student achievement.

## Programs and Services

### Academic Engagement Programs

**José Preciado, Director**

The office implements the Common Experience Program, the Faculty-Student Mentoring Program, and the Service Learning and Community Engagement Program. These programs support high impact educational practices that increase faculty-student interactions, deepen student learning, and lead to advanced student achievement.

### Academic Scholarships (OAS)

**Patti Scott, Director**

The Office of Academic Scholarship (OAS) works to coordinate scholarship programs, strategies, and initiatives to best serve the student population. The goal is to provide extended support and programmatic services for high achieving students, for students from diverse backgrounds, for students studying abroad, and for students engaged in educational enhancement activities beyond the campus boundaries and curriculum. Together with faculty, OAS works with current SDSU scholars to secure national scholarships and fellowships at the undergraduate and graduate levels.

### **Center for Teaching and Learning (CTL)**

**Brock S. Allen and Kathy S. Williams,**

**Co-Directors**

The Center for Teaching and Learning (CTL) promotes effective teaching and learning at SDSU through collaborative ventures with individual faculty, academic units, support services, and student leaders. The center assists SDSU's varied learning communities to:

- define learning goals;
- explore, understand, and improve learning processes;
- create learning activities and environments that improve student success;
- design, organize high-impact and informal learning opportunities;
- apply sound principles of teaching, learning, and technology to the design of courses and academic programs; and
- assess the effectiveness of educational services and systems and utilize assessment data to guide improvements.

The center serves as a campus clearinghouse for information about teaching and learning resources and holds orientations and other events for new faculty. It sponsors an extensive series of complementary lunches, discussions, and workshops—open to all faculty and student support professionals—on contemporary issues in teaching and learning ranging from the design of learning activities to cultural and psychological factors in student learning and achievement. Working with Instructional Technology Services, Library and Information Services, the Division of Student Affairs, the College of Education, and other units, the center coordinates training to help faculty and administrators to design and assess courses and academic programs. The center hosts pICT, People, Information, and Communications Technology, a curriculum development project funded by the Qualcomm Institute for Innovation and Educational Success, and works closely with Academic Engagement Programs, directed by Jose Preciado.

CTL provides confidential and supportive services to individual faculty members at their request, assisting with reviews of teaching evaluation data and improvement of classroom presentations and activities.

For more information visit <http://ctl.sdsu.edu> or call 619-594-3157.

### **Compact Scholars Program (CSP)**

**Janet Abbott, Director**

The Compact Scholars Program (CSP) is the postsecondary component of the Compact for Success Partnership between the Sweetwater Union High School District and San Diego State University. The CSP will advance the learning and development of Compact students with their involvement in undergraduate research programs, study abroad, community based service-learning activities, and student life services focused on success in college. The program is designed to enhance students' academic and social integration to ensure that students are successful. The first group of Compact Scholars matriculated at San Diego State University in 2006.

### **Faculty-Student Mentoring Program (F-SMP)**

**José Preciado, Director**

The mission of the Faculty-Student Mentoring Program (F-SMP) is to support student engagement and development through undergraduate research, scholarship and creative activities. Central to these efforts is the development of long term relationships between students and their faculty mentors as they engage in academically purposeful tasks.

The primary goal of F-SMP is to encourage and support enhanced student learning via campus programs and activities that facilitate increased academic and personal development. To achieve this goal, we support student success by:

- providing academic planning guides to help students participate in rigorous academic endeavors and activities;
- facilitating participation in undergraduate research, scholarship and creative activities, and community service initiatives across colleges and disciplines;
- offering active student academic support for these efforts through workshops and undergraduate university seminars;
- fostering mentoring, coaching, and other nurturing interactions among students and faculty mentors; and
- presenting students with opportunities for regional, national, and international experiences.

For more information about the mentoring program contact [preciado@mail.sdsu.edu](mailto:preciado@mail.sdsu.edu), 619-594-2209, or visit <http://dus.sdsu.edu/fsmpt.html>.

### **People, Information, Communication, and Technology Program (pICT)**

**Catherine J. Atkins, Director**

The People, Information, Communication, and Technology Program (pICT), supported by SDSU's Qualcomm Institute for Innovation and Educational Success helps faculty and students develop a deeper understanding of what it means to be an educated person in an age when technology is continually reshaping opportunities for interacting with complex disciplines and diverse communities.

All students, regardless of major, should graduate from SDSU with the ability to apply a principled understanding of diverse disciplines to identify opportunities and goals, to define and solve problems, to communicate constructively with diverse populations around the globe, to make wise use of technology, to integrate information from multiple sources and perspectives, and to make responsible and humane decisions.

Drawing on the diverse experience and knowledge of SDSU students and faculty, the pICT program provides contexts in which students can develop the knowledge and skills, and the love of learning they will need to succeed as life-long learners amidst the challenges of a rapidly changing world.

### **Thomas B. Day Student Success Program**

**Janet Abbott, Director**

Endowed by Bernard and Doris Lipinsky, the Thomas B. Day Student Success Programs seek to ensure the success of all students at the university, by helping to provide pathways to student support services and to enriched learning opportunities ("high impact" educational practices). In order to serve the whole student, the Thomas B. Day Student Success Programs moves beyond the boundaries of the Division of Undergraduate Studies by way of intentional partnerships with the Division of Student Affairs, the Academic Colleges, and the Department of Rhetoric and Writing Studies.

**Residential Learning Communities.** A Residential Learning Community is an option in which first-year students live and take courses together. Small groups of students take courses that fulfill graduation requirements and bring together students with a common interest or a common area of study, such as social justice or business. Students in Residential Learning Communities take advantage of special academic support services and additional computer laboratories and study lounges. Visit <http://www.sdsu.edu/housing> to learn more about this enriched housing option.

**Honors Residential College.** Entering first year students accepted into the University Honors Program are required to live in the Honors Residential College in Maya Hall during their first year. This opportunity is designed to ensure an exceptional undergraduate experience for honors students by integrating the unique components of the honors experience with the enriched advantages that Residential Learning Communities provide. Visit <http://www.sdsu.edu/honors> to learn more about the Honors experience.

**Summer “Early Start” Program (non-residential).** A special summer program features interventions designed to help designated students who begin higher education obtain full proficiency in basic writing and/or mathematics.

**Summer Bridge.** The Summer Bridge is a special summer program for a select group of new EOP freshmen students that provides an opportunity for a head start on college education and student life. Students participate in five weeks of intensive academic studies designed to yield up to six academic units and to develop needed writing, math, and study skills. Visit <http://eop.sdsu.edu/Content/BEST.html> to learn more about the Summer Bridge opportunity.

**Linked Courses (non-residential).** The Department of Rhetoric and Writing Studies offers a number of linked courses as a way to enrich learning experiences essential to helping students achieve full academic proficiency in writing and mathematics. The particular interventions vary in response to changing student needs and profiles.

**University Seminar.** One-unit elective courses (General Studies 100) provide students with an opportunity to explore a variety of areas that define the university experience at a major comprehensive university. In some instances, these courses are embedded within the Residential Learning Communities-including the Honors Residential College. In other cases, the courses are program-defined, for example, offered by EOP, Athletic Support Services, or the Compact Scholars Program.

### **University Honors Program** **Stacey L. Sinclair, Director**

The University Honors Program is a community of scholars-students, faculty, and staff-committed to high academic achievement, the development of leadership skills, social responsibility, and international experience. The program features unique courses and small seminars through which students, working closely with faculty mentors, learn to think flexibly, solve complex problems, and pursue the creative expression of ideas. These classes are characterized by discussion, debate, and the pursuit of intellectual challenges that prepare students for high-impact educational experiences beyond the classroom-study abroad, undergraduate research, leadership development-and for future graduate work and successful careers regardless of their chosen field of study. Students completing the Honors curriculum are required to take part in study abroad and they graduate with the Honors Minor in Interdisciplinary Studies.

All entering freshman Honors students live on campus in the Honors Residential College (Maya Hall) during their first year. The Honors Residential College features a rich, supportive educational environment where students from diverse backgrounds pursue academic, co-curricular, and experiential activities related to campus activities, leadership opportunities, and academic engagement.

University Honors Program students have the use of the Darlene Gould Davies Honors Study room, located in Love Library, Room 428A, as well as a Student Lounge adjacent to the Honors Program offices (Administration Building, Room 201).

For a description of the program, admission requirements, and curriculum, refer to the Honors Program in the Courses and Curricula by Department section of this catalog. Information about the University Honors Program can be accessed online at <http://www.sdsu.edu/honors>.

**Departmental Honors Courses.** Some departments regularly offer honors classes independently of the University Honors Program, with eligibility defined by the sponsoring department. Students should consult the *Class Schedule* for such honors classes and contact the department or instructor for additional information.

# Division of Graduate Affairs

**OFFICE: Student Services East 1410**

**TELEPHONE: 619-594-5213**

**FAX: 619-594-0189**

**E-MAIL: [gra@mail.sdsu.edu](mailto:gra@mail.sdsu.edu)**

## Organization and Administration

The Division of Graduate Affairs is under the jurisdiction of the Office of the Provost whose administrative officers are the vice president for research and the dean of the Division of Graduate Affairs. In coordination with the Graduate Council, the division has responsibility for all graduate curricula and policy matters governing graduate study at San Diego State University. The dean of the Division of Graduate Affairs serves as chair of the Graduate Council.

The Division of Graduate Affairs, in conjunction with Graduate Admissions, admits all students to the university. The Division of Graduate Affairs authorizes graduate degree curricula, evaluates, and processes students for graduation. The Division of Graduate Affairs also determines students' eligibility to continue in such curricula and, in the cases of unsatisfactory performance, requires students to withdraw from graduate curricula and the university.

The dean of the Division of Graduate Affairs is the appropriate university authority for the administration of all matters related to graduate admissions, academic status, and graduate degree curricula, minimum requirements for which are specified in Section 40510 of the *California Code of Regulations*.

## Association Membership

San Diego State University is a member of the Western Association of Graduate Schools and the Council of Graduate Schools in the United States.

## Degrees Offered

All master's degrees are conferred by the trustees of The California State University upon recommendation of the faculty of San Diego State University. These degree programs provide instruction for graduate students in the liberal arts and sciences, in applied fields, and in the professions, including the teaching profession.

Doctor of Philosophy degrees and a professional doctorate (Au.D.) degree are awarded jointly by the Board of Regents of the University of California and the Board of Trustees of The California State University in the names of San Diego State University and the cooperating campus of the University of California; in Education, jointly by the Board of Trustees of The California State University and the Board of Fellows of Claremont Graduate University. The Doctor of Education degree (Ed.D.) is awarded jointly by the Board of Trustees of The California State University and the trustees of the University of San Diego in the names of San Diego State University and the University of San Diego. The Doctor of Education degree (Ed.D.) in educational leadership is awarded by the Board of Trustees of The California State University.

### Doctor of Philosophy

Biology (Cell and Molecular)	Evolutionary Biology
Chemistry	Geography
Clinical Psychology	Geophysics
Computational Science	Language and Communicative Disorders
Ecology	Mathematics and Science Education
Education	Public Health/Epidemiology
Engineering Sciences/ Applied Mechanics	Public Health/Global Health
	Public Health/Health Behavior

### Doctor of Education

Education
Educational Leadership:
Concentration in PreK-12 Leadership
Concentration in Community College/Postsecondary Leadership

## Professional Doctorate

Audiology

## Educational Specialist

Ed.S. in School Psychology

## Master of Arts

Anthropology	Geography	Psychology
Art	History	Rhetoric and Writing
Asian Studies	Interdisciplinary Studies	Studies
Biology	Kinesiology	Sociology
Chemistry	Latin American Studies	Spanish
Chicana and Chicano Studies	Liberal Arts and Sciences	Speech, Language, and
Communication	Linguistics	Hearing Sciences
Economics	Mathematics	Teaching
Education	Music	Television, Film and
English	Philosophy	New Media Production
French	Physics	Theatre Arts
	Political Science	Women's Studies

## Master of Science

Accountancy	Civil Engineering	Mechanical Engineering
Aerospace Engineering	Computational Science	Microbiology
Applied Mathematics	Computer Science	Nursing
Astronomy	Counseling	Nutritional Sciences
Bioengineering	Criminal Justice and	Physics
Bioinformatics and	Criminology	Psychology
Medical Informatics	Electrical Engineering	Public Health
Biology	Exercise Physiology	Radiological Health
Biomedical Quality	Geography	Physics
Systems	Geological Sciences	Regulatory Affairs
Business Administration	Gerontology	Rehabilitation Counseling
Chemistry	Homeland Security	Statistics
Child Development	Interdisciplinary Studies	

## Professional Master's Degrees

Master of Business Administration
Master of City Planning
Master of Engineering
Master of Music
Master of Public Administration
Master of Public Health
Master of Social Work

## Master of Fine Arts

Art
Creative Writing
Theatre Arts

## Concurrent Degrees

Master of Arts in Education with a Concentration in Counseling and the Educational Specialist in School Psychology
Master of Business Administration and Juris Doctor
Master of Business Administration and Master of Arts in Latin American Studies
Master of Public Health and Master of Arts in Latin American Studies
Master of Science in Nutritional Science and
Master of Science in Exercise Physiology
Master of Social Work and Juris Doctor
Master of Social Work and Master of Public Health

## **Graduate Admission Categories**

Applicants seeking admission to graduate study at San Diego State University must apply and be accepted in one of the following categories:

- **Post-Baccalaureate Standing (Unclassified).** Exchange students (non-foreign), visitors from other CSU campuses, and other transitory students may be admitted for one semester as unclassified graduate students; or
- **Post-Baccalaureate Standing (Classified).** Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
- **Graduate Standing (Conditional Classified).** Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or

- **Graduate Standing (Classified).** To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU Web site <http://www.calstate.edu> and the CSU admissions portal <http://www.csumentor.edu> are good sources of the most up-to-date information. For SDSU graduate admission procedures, see the Admission and Registration section of this catalog.

## **Graduate Bulletin**

A *Graduate Bulletin* is published annually in May and contains complete details on SDSU graduate study. The *Graduate Bulletin* can be purchased at the SDSU Bookstore or accessed online at <http://coursecat.sdsu.edu/bulletin>.



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# College of Arts and Letters

## Administration

Dean: Paul Wong  
Associate Dean: Eniko Csomay (Interim)  
Associate Dean: Linda D. Holler  
Assistant Dean for Student Affairs: Leslie S. Johnson  
Director of Development: Nancy Lemkie  
Director of Resource Management: Lesley Bryant

## General Information

The College of Arts and Letters is at the very heart of liberal arts education at San Diego State University. Its programs in the humanities and social sciences are offered through 19 academic departments and several interdisciplinary programs, each of which is designed to help students to understand their role in society and to develop aesthetic sensibilities. Arts and Letters courses are offered to explore the experiences of men and women in society, their cultural expressions and practices, their languages, and their philosophical concepts. The college's highly trained, professionally active faculty seek to give students an awareness about the development of present knowledge and how to generate new knowledge. Students are encouraged to develop keen observation skills, the capacity to think critically, and the ability to express their views intelligently and sensitively as leaders.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Arts and Letters.

### Doctoral Program Geography

### Master's Degrees

Anthropology (M.A.), Asian Studies (M.A.), Chicana and Chicano Studies (M.A.), Creative Writing (M.F.A.), Criminal Justice and Criminology (M.S.; jointly with the College of Professional Studies and Fine Arts), Economics (M.A.), English (M.A.), French (M.A.), Geography (M.A., M.S.), History (M.A.), Latin American Studies (M.A.), Latin American Studies (M.B.A./M.A.; jointly with the College of Business Administration), Latin American Studies (M.P.H./M.A.; jointly with the College of Health and Human Services), Liberal Arts and Sciences (M.A.), Linguistics (M.A.), Philosophy (M.A.), Political Science (M.A.), Rhetoric and Writing Studies (M.A.), Sociology (M.A.), Spanish (M.A.), Women's Studies (M.A.).

### Bachelor's Degrees

Africana Studies (B.A.), American Indian Studies (B.A.), Anthropology (B.A.), Asian Studies (B.A.), Chicana and Chicano Studies (B.A.), Classics (B.A.), Comparative Literature (B.A.), Economics (B.A.), English (B.A.), European Studies (B.A.), French (B.A.), Geography (B.A., B.S.), German (B.A.), History (B.A.), Humanities (B.A.), International Business (B.A.; jointly with the College of Business Administration), International Security and Conflict Resolution (B.A.; jointly with the College of Professional Studies and Fine Arts and the College of Sciences), Japanese (B.A.), Latin American Studies (B.A.), Linguistics (B.A.), Philosophy (B.A.), Modern Jewish Studies (B.A.; consortial within CSU), Political Science (B.A.), Religious Studies (B.A.), Russian (B.A.), Russian and Central European Studies (B.A.), Social Science (B.A.), Sociology (B.A.), Spanish (B.A.), Urban Studies (B.A.), Women's Studies (B.A.).

## Minors

African Studies, Africana Studies, American Indian Studies, Anthropology, Asian Studies, Chicana and Chicano Studies, Chinese, Classics, Comparative Literature, Economics, English, Environment and Society, European Studies, French, Geography, German, History, Humanities, International Security and Conflict Resolution (jointly with the College of Professional Studies and Fine Arts and the College of Sciences), Islamic and Arabic Studies, Italian, Japanese, Jewish Studies, Latin American Studies; Lesbian, Gay, Bisexual, and Transgender Studies; Linguistics, Philosophy, Political Science, Portuguese, Religious Studies, Rhetoric and Writing Studies, Russian, Sociology, Spanish, United States-Mexican Border Studies, Women's Studies.

## Preprofessional Curriculum Prelegal

## Certificate Programs

Children's/Adolescent Literature, Computational Linguistics, Geographic Information Science, Professional Writing, Spanish Court Interpreting (available at Imperial Valley Campus only), Spanish Translation and Interpretation Studies, Teaching English as a Second or Foreign Language (TESL/TEFL), Teaching of Writing, United States-Mexico Border Studies.

## Research Centers and Institutes

### Africana Center for Cultural Literacy and Research JoAnne Cornwell and Francis Nesbitt, Co-Directors

The Africana Center for Cultural Literacy and Research provides independent and collaborative projects (across a broad spectrum of academic disciplines) that create professional development opportunities with an Africana cultural focus for students, faculty and staff; research opportunities for students and faculty; and culturally enhanced teaching opportunities for SDSU faculty. The center's programs also provide venues for community service which focus on Africana cultural groups.

For more information regarding the Africana Center, contact Dr. Cornwell at 619-594-4131.

### Center for Asian and Pacific Studies Lei Guang, Director

The Center for Asian and Pacific Studies brings together interested students, faculty, and community members, to promote teaching, research, and contemporary dialogues on the cultures and societies of Asia and the Pacific Rim and their relationships to North America. To explore East Asia, South Asia, Southeast Asia, the Pacific Rim, and Asian American communities, the center draws on the academic resources of multiple departments and programs within and outside of the College of Arts and Letters, including: anthropology, art, Chinese, comparative literature, economics, geography, history, Japanese, linguistics, philosophy, political science, religious studies, sociology, and women's studies. The center supports colloquia and symposia, curriculum development, student and faculty research, community research, international programs, and new college initiatives to educate students, community members, and working professionals about Asian and Pacific languages, cultures, politics, economies, histories, and societies. The center promotes faculty and student exchanges with Asian universities as well as study abroad programs in the Asia Pacific. The center houses the undergraduate major and minor in Asian studies as well as the graduate program.

### **Bread and Roses Center** **Bonnie K. Scott, Director**

The Bread and Roses Center for the promotion of creativity, scholarship, and community action in support of the women's movement, is the first such center in the nation.

The center brings activists, artists, and scholars committed to feminist social change to SDSU to network with colleagues and students on the campus and in the San Diego community, and to reflect upon and reorient their practices. Visiting residents of the center benefit from the opportunity for rejuvenation. The center also supports a strong international community of artists, students, scholars, and community activists working to achieve equality for women. The center hosts such activities as colloquia, festivals, readings, exhibitions, and special events. For those wishing to expand their knowledge of women's movements, the center provides a forum for courses, guest lectures, and workshops. The center enhances two missions of SDSU: promoting internationalization of the curriculum and students' learning experiences, and reaching out to, and positively interacting with, the larger San Diego community.

The Bread and Roses Center is housed in the Department of Women's Studies and can be reached by contacting the department office at 619-594-2952 or on the Web site at

[http://www-rohan.sdsu.edu/dept/wsweb/bread\\_roses.html](http://www-rohan.sdsu.edu/dept/wsweb/bread_roses.html).

### **Chinese Studies Institute** **Li-Rong Lilly Cheng, Director**

The Chinese Studies Institute coordinates and supports on-campus teaching and research related to the Chinese speaking world. The institute develops and fosters faculty and student exchange programs with universities and institutions of higher learning. Various cultural programs on the Chinese speaking world and activities on campus and in the community promote cultural awareness and understanding. The development of Chinese language publications, audiovisual materials, periodicals, newspapers, and other resources on campus fosters relationships between San Diego State University and the Chinese community, as well as nurtures friendship between the Chinese and American peoples. For more information, visit the Web site at <http://www-rohan.sdsu.edu/~csi/index.htm>.

### **Confucius Institute** **Paul Wong, Executive Director**

The Confucius Institute (CI) at San Diego State University (SDSU) was established in collaboration with the Confucius Institute Headquarters (Hanban), the executive body of the Chinese Language Council International, a non-governmental and non-profit organization affiliated with the Ministry of Education of China. Housed in the College of Arts and Letters, the purposes of the CI of SDSU are to strengthen educational cooperation between China and the United States and to promote development of Chinese language education at the primary, secondary, and tertiary levels as well as at the community colleges. The CI at SDSU focuses especially on teacher training by offering both on-site and online classes while utilizing the most advanced language teaching pedagogy and technology. The CI at SDSU has a partner institution in China – Xiamen University, a distinguished national research university.

In conjunction with the Chinese program in the Department of Linguistics and Asian/Middle Eastern Languages, as well as other relevant academic units at SDSU, the institute supports and promotes the following activities:

- A teaching-training service center;
- Teach Chinese language and provide Chinese language teaching resources;
- Train Chinese language instructors;
- Hold Chinese proficiency tests and tests for the certification of Chinese language teachers;
- Provide information and consultative services concerning China's education, culture, economy, and so forth;
- Conduct language, trade mission, and cultural exchange activities;
- Conduct other activities in collaboration with Hanban and Xiamen University.

### **Institute of Druze Studies (IDS)** **Samy Swayd, Director**

The Institute of Druze Studies (IDS) is an academic non-profit organization dedicated to research and discourse on the Druzes and related topics. The Druzes are a Middle Eastern minority group that live predominantly in the mountainous regions of today's Lebanon, Syria, Jordan, Israel, and with smaller numbers elsewhere around the world. More than 25,000 Druzes live in the United States with California as the main center of the American Druze Society (ADS). The Druze sect began in Cairo and has survived for almost one thousand years.

The IDS aims to 1) provide information on Druze history, society, and faith; 2) encourage research and studies on historical and contemporary Druze communities; and 3) promote academic discourse about other immigrant religious communities. The IDS pursues these objectives through an international multidisciplinary conference, an academic journal, and a newsletter. The IDS participates in professional conferences and provides guest lectures to interested organizations.

For more information, call the office at 619-594-1880 or the Department of Religious Studies at 619-594-5185, FAX 619-594-1004, or <http://www.druzestudies.org>.

### **Center for Earth Systems Analysis Research (CESAR)** **Allen Hope, Piotr Jankowski, Douglas Stow, Co-Directors**

The Stephen and Mary Birch Foundation Center for Earth Systems Analysis Research (CESAR) was founded in 1986 as a computer-based facility for geographic information science research and instruction that is administered by the Department of Geography. The purpose of the center is to apply state-of-the-art, geo-spatial technology in geographic information systems (GIS), global positioning systems (GPS), remote sensing, image processing, automated cartography, spatial statistics, and spatial modeling to problems with geographic dimensions. As such, a number of Geography Department faculty are affiliated with the center. Research conducted by CESAR is directed at both applied and fundamental problems in fields ranging from urban and regional planning to earth system science. This research includes computer-based map and image data processing and spatial simulation modeling, as well as field-based data collection. CESAR has extensive hardware, software, imaging systems, and field equipment resources in its four laboratories: (1) Richard Wright Spatial Analysis Laboratory, (2) Regional Analysis Laboratory (REGAL), (3) William Finch Remote Sensing Laboratory, and (4) Stephen and Mary Birch Foundation GIS Laboratory.

For more information about on-going research projects or services provided by CESAR, or for a demonstration of its capabilities, call 619-594-8042 or 619-594-5437 or [dave@geography.sdsu.edu](mailto:dave@geography.sdsu.edu).

### **Institute for Ethics and Public Affairs** **Darrel Moellendorf, Director**

The Institute for Ethics and Public Affairs at San Diego State University seeks to promote critical thinking about moral issues that are often complex in nature. It aims both to be a resource to members of the campus community, the larger community of scholars, and the greater San Diego community who wish to pursue thoughtful discussion and research as a means of clarifying moral problems. It also aims to raise the profile of the moral dimensions of contemporary issues. The institute is housed in the Department of Philosophy, but seeks interdisciplinary discussion and collaboration since clarity on contemporary moral problems often involves both the application of normative theorizing and empirical investigation. The institute organizes and sponsors a variety of programs on applied and theoretical moral issues. Among these programs are colloquia, community outreach talks, lectures, and student essay contests. Visit the Web site at <http://ethics.sdsu.edu> for details.

**Center for European Studies**  
**Veronica Shapovalov, Director**

The Center for European Studies, through its associated faculty and students, is committed to the multidisciplinary study of Europe and its dynamic and evolving calculus of nations, cultures, languages, and perspectives. The center is a vehicle for fostering appreciation of Europe, the societies and cultures within its geographical boundaries, and the ideas that make up various European realities. The center will develop grant funded programs (e.g. colloquia, symposia, etc.), collaborative teaching and research opportunities, faculty exchanges, internship leads for partner programs, workshops, and related activities.

For more information regarding the Center for European Studies, contact Veronica Shapovalov in the Department of European Studies at 619-594-5111, 619-594-7147, or [veronica.shapovalov@sdsu.edu](mailto:veronica.shapovalov@sdsu.edu).

**Center for Health Equity Research and Policy (CHERP)**  
**Brian K. Finch, Director**

The Center for Health Equity Research and Policy (CHERP) is housed in the Department of Sociology and brings together students, faculty, and community members to promote research and policy dissemination with respect to population health and health disparities towards the end of fostering health equity for disadvantaged populations. The center brings together faculty from several SDSU colleges, including: the College of Arts and Letters, the College of Health and Human Services, and the College of Sciences.

The purpose of CHERP is to generate cutting-edge research that both describes and explains the existence of health disparities in racial/ethnic minority and socio-economically disadvantaged populations. Further, relying on community collaborations, we seek to translate our research into practicable health alternatives using evidenced-based strategies. The ultimate goal of CHERP is to contribute to the understanding and elimination of health disparities that are the direct result of social inequalities which disproportionately affect disadvantaged and marginalized sub-populations across the United States, with a concerted and focused effort in the San Diego region.

The center promotes the following activities and infrastructure:

- A collaborative consortium of scholars and community members;
- An accessible database of relevant health surveys and data linkages;
- A collection of relevant statistical methodologies and their applications;
- A working paper series reflecting preliminary research results and findings;
- A periodic seminar series—open to the campus and local community;
- Links to published research findings;
- Translation and dissemination of research findings to the local and national media;
- A health equity community action board.

The center Web site is: <http://www-rohan.sdsu.edu/~cherp>.

**Charles Hostler Institute on World Affairs**  
**Paul Wong, Director**

The Charles Hostler Institute on World Affairs, founded in 1942, is beginning its 65<sup>th</sup> year at San Diego State University. It is the second oldest organization of its kind west of the Mississippi River. Its purpose is to make available to the SDSU community, and to the people of Southern California, a forum for the discussion of critical topics in international affairs. This purpose is accomplished primarily by inviting distinguished authorities to address the institute on issues of contemporary international import. The institute has hosted ambassadors to the U.S. from Australia, Belgium, Brazil, China, Czechoslovakia, Finland, Germany, Greece, Hungary, India, Italy, Jordan, Korea, Malaysia, Mexico, Netherlands, Nigeria, Pakistan, Singapore, Sweden, Syria, Thailand, and Yemen. Distinguished speakers have included Nobel Laureates Willard Libby, Linus Pauling, and Harold Urey, as well as Professors Hans Morgenthau and Robert Scalapino, British Ambassador to the United Nations Lord Caradon, American statesman

Ralph Bunche, California Governor Pat Brown, French diplomat and author Romain Gary, Austrian Chancellor Kurt Schuschnigg, Russian Premier Alexander Kerensky, and USAF Chief of Staff and SDSU graduate General Merrill McPeak. American politicians, military and government officials, diplomatic and governmental representatives from Africa, Asia, Europe, Latin America, and the Middle East have also participated in institute sessions over the last 60 years.

Institute events are held on campus, in Hardy Tower, Room 140 from 7-9:30 p.m. on Thursday evenings, during the spring semester.

For more than half a century, the institute has functioned according to the motto – *AUDIATUR ET ALTER A PARS* (Let The Other Side Be Heard). Given today's pressing problems of international affairs and the obligation of an excellent university to help inform students, faculty, and the wider community regarding these problems, the Charles Hostler Institute on World Affairs plays a critical role in the educational mission of SDSU.

**Center for International Business Education and Research (CIBER)**

**Mark J. Ballam, Managing Director**  
**Siv Lang Lim, Program Coordinator**

The Center for International Business Education and Research (SDSU CIBER) is one of 31 national centers of excellence in the United States and was established in 1989 under a grant from the U.S. Department of Education. The center is housed in the College of Business Administration.

SDSU CIBER serves as a catalyst to advance: (1) interdisciplinary programs which incorporate foreign language and international studies training into business, finance, management, communications systems, and other professional curricula; (2) interdisciplinary programs which provide business, finance, management, communications systems, and other professional training for foreign language and international studies faculty and advanced degree candidates; (3) evening or summer programs available to members of the business community and other professionals designed to develop or enhance international skills, awareness, and expertise; (4) collaborative programs, activities, or research involving other institutions of higher education, local educational agencies, professional associations, businesses, firms or combinations thereof, to promote the development of international skills, awareness, and expertise among current and prospective members of the business community and other professionals; (5) research designed to strengthen and improve the international aspects of business and professional education and to promote integrated curricula; and (6) research designed to promote the international competitiveness of American businesses and firms, including those not currently active in international trade.

To learn more, visit the SDSU CIBER Web site at <http://www.sdsu.edu/ciber>.

**International Population Center (InterPop)**  
**John R. Weeks, Director**

The International Population Center (InterPop) promotes applied demographic research and the provision of technical assistance and consulting, especially focusing on population issues and policy within the San Diego/Tijuana region, the U.S.-Mexico border, Africa, and the Middle East.

Although it is located in the Department of Geography, InterPop is a multidisciplinary facility, linking center faculty from several departments on campus with center associates from other organizations and universities in the San Diego region. Contact the center at 619-594-8040 or visit the Web site at

<http://geography.sdsu.edu/Research/Projects/IPC/ipc2.html>.

**International Studies Education Project (ISTEP)**  
**Elsie Begler, Director**

The International Studies Education Project (ISTEP) supports the twin SDSU priorities of community outreach and internationalization through the promotion of international studies education in our schools and community. Programs designed to improve teaching and learning at the pre-collegiate level are emphasized, with particular foci on the social sciences and humanities as they relate to international, cross-cultural and citizenship education within both the domestic American and wider global context.

ISTEP programs are multidisciplinary and collaborative in nature, involving partnerships with other SDSU academic departments, centers and institutes, as well as with other educational institutions and community groups. Programs include in-service teacher training and professional development workshops and institutes, curriculum development, student-focused programs, and partnerships with schools and districts. The ISTEP Instructional Resource Center is a "demonstration" collection of K-16 instructional materials in global issues, world areas and cultures, and cross-cultural education available to SDSU students and educators throughout San Diego County. Project activities and resources are publicized through the ISTEP newsletter, *Global Vistas*.

For more information, call 619- 594-2412 or 619-594-1105 or visit ISTEP's Web site at <http://istep.sdsu.edu>.

### **International Technology and Trade Network (ITTN)** **Marc Siegel, Director**

The International Technology and Trade Network (ITTN), an institute of San Diego State University's Center for International Business Education and Research (CIBER), is a collaborative offering of the College of Arts and Letters and the College of Business Administration. The objective of the ITTN is to promote methods for creating a stable economic environment for transnational business, trade, and research. The institute will seek ways to use business as a catalyst for regional peace and cross-border economic development. This effort will focus on networking together business assistance organizations, academic institutions, and research centers in regions of conflict and emerging economies. We will establish a virtual business assistance network that will take advantage of the latest Internet, information, and telecommunications technologies to provide business-to-business and organizational links. We will use these technologies to share information as well as provide educational, training and distance learning opportunities to participating members of the network.

### **Center for Islamic and Arabic Studies** **Ghada Osman, Director**

The Center for Islamic and Arabic Studies administers the minor in Islamic and Arabic Studies, and the major in Social Science: Emphasis on Islamic and Arabic Studies. It is committed to supporting teaching and research on the lives of Muslim and Arabic-speaking peoples past and present. The center's study of the Islamic world focuses on the global context in which Islam emerged historically, the cultures and societies that it helped shape, most especially in Eurasia and Africa, and the current global condition in which people in the Islamic world situate themselves today. It sees the Arabic language as the cultural medium for diverse ways of life that are of world historical significance.

The center is multi-disciplinary and includes in its scope of study the Arabic and Persian languages and literatures; the history of Muslim and Arabic-speaking peoples; political, economic, and social dynamics of contemporary societies; art and architecture; social, political, religious, and philosophic thought; and the experience of Muslim communities in the United States and around the world. For more information, contact Ghada Osman at [gosman@mail.sdsu.edu](mailto:gosman@mail.sdsu.edu) or visit the Web site at <http://www.cias.sdsu.edu>.

### **Center for Latin American Studies** **Ramona L. Pérez, Director**

The Center for Latin American Studies supports teaching and research related to Latin America. It has primary responsibility for the administration of the Latin American studies undergraduate and graduate degrees. It also participates in joint degree programs in international business, business administration, and public health. Since 1976, the Center for Latin American Studies has been designated a National Resource Center for Latin American Studies by the United States Department of Education and funded through a Title VI grant, in consortium with the Center for Iberian and Latin American Studies at the University of California, San Diego. CLAS, along with CIBER and LARC, is one of three Title VI funded centers on the San Diego State University campus. In conjunction with this award, the center administers programs that are interdisciplinary, drawing on the expertise of an outstanding Latin Americanist faculty from the following departments and schools: Anthropology; Art, Design, and Art History; English and Comparative Literature; Economics; Geography; History; Political Science; Public

Affairs; Public Health; Social Work; Sociology; Spanish and Portuguese Languages and Literatures; Women's Studies; and the College of Business Administration. In addition, the center is involved with the development of innovative methods of instruction in Spanish, Portuguese, and Mixtec; the provision of information and in-service training programs for elementary and secondary school teachers; and the provision of services for the general public through the sponsorship of conferences, workshops, lectures, and films. The center also assists in the development of the university library's Latin American holdings. The center has cooperative agreements for research, faculty, and student exchanges with several Latin American universities, particularly in Mexico, Chile, and Costa Rica.

For additional information, visit the Web site at <http://latinamericanstudies.sdsu.edu>.

### **Lipinsky Institute** **Risa Levitt, Director**

The Lipinsky Institute supports the advancement for community outreach and the annual visiting Israeli professorship. To learn more, visit the Web site at <http://jewishstudies.sdsu.edu>.

### **National Center for the Study of Children's Literature (NCSCL)** **Jerome J. Griswold, Director**

Situated in the Department of English and Comparative Literature, the National Center for the Study of Children's Literature (NCSCL) reflects SDSU's long-term and extended commitment to the literary study of children's and adolescent literature. The largest in North America and one of the oldest, SDSU's children's literature program employs more than a dozen faculty (many with international reputations in the field) and garners more than 1100 student enrollments every year in its undergraduate classes and the M.A. Specialization in Children's Literature.

As a research center, the NCSCL hosts visiting scholars, sponsors annual lectures and festivals, and provides faculty with the wherewithal to engage in scholarship in a collegial environment. In terms of community outreach, NCSCL faculty conduct summer workshops and professional development seminars for K-12 teachers and university faculty offering classes in children's literature; they also discuss books for the young in various media outlets and speak to public and professional groups. Finally, faculty from NCSCL review and evaluate contemporary children's books on the largest Web site of its kind in the country. For more information visit, <http://childlit.sdsu.edu/> or e-mail [childlit@mail.sdsu.edu](mailto:childlit@mail.sdsu.edu).

### **National Language Resource Center/ Language Acquisition Resource Center (LARC)** **Mary Ann Lyman-Hager and Paul Wong, Co-Directors**

SDSU created the Language Acquisition Resource Center (LARC) in 1989 to improve the capacity of the university to teach foreign languages more effectively. In 1990, LARC at SDSU became one of the first three national Language Resource Centers (LRCs), with funding from the U.S. Department of Education. LARC's authorized activities are to conduct research in second language acquisition, to develop new means of assessing language proficiency, to train foreign language teachers, to enhance cross-cultural competence, to develop high levels of language competence, particularly in critical less commonly-taught languages, and to explore advanced technologies to enhance language learning experiences. Currently the U.S. Department of Education funds 14 campus-based national centers. SDSU's center has one of the nation's finest multimedia collections and language laboratory facilities, with digitizing and desktop video conferencing capabilities, a research library, smart classrooms, and faculty offices. The laboratories also serve foreign language students in several departments (European Studies, Linguistics and Asian/Middle Eastern Languages, and Spanish and Portuguese).

LARC has enhanced its infrastructure and internet capabilities in order to explore and develop models of distributed and distance learning. These models reflect the changing demographics of SDSU students and require new curricula to reflect student learning preferences. Our digital media archive houses learning objects, authentic materials, lesson plans, and courses and allows for online contributions from national and international collaborators.

LARC hosts a companion initiative, the Advancement of Distinguished Language Proficiency, whose major purpose is to create opportunities for learners of Arabic, Persian, Spanish, Chinese, and other important world languages to reach advanced, superior, and distinguished levels of proficiency through on-site intensive courses, follow-up online learning experiences, and study abroad. Another major emphasis of LARC faculty is to facilitate the learning of less commonly taught languages of Latin America, in collaboration with the Center for Latin American Studies and other national resource centers funded by the U.S. Department of Education. To evaluate students' progress through levels, we are developing online diagnostic assessment tools.

Visit the Web site <http://larcnet.sdsu.edu> for more information.

**Center for Qualitative Research**  
**Paul W. Sargent, Director**

The Center for Qualitative Research, located within the Department of Sociology at San Diego State University, promotes the use of qualitative methods in the quest to understand and explain important aspects of social organization. Over 20 departments and programs from across the seven colleges of SDSU are represented in the center's core group of participants. Qualitative researchers utilize a wide range of methods to gather data including participant observation, in-depth interviews, content analysis, focus groups, photography, film, and videography to accomplish a holistic study of social meanings, social relations, and social institutions. The primary objectives of the center are to:

- Create and sustain an interdisciplinary community of scholars whose principal research focus is qualitative rather than quantitative.
- Organize and facilitate workshops and colloquia focusing on the key issues facing qualitative researchers such as methodological, epistemological, and ethical issues.
- Provide a forum for the dissemination of the products of qualitative research across all disciplines. In particular, the center sponsors several colloquia each academic year where faculty and students can showcase their work to an appreciative audience. In addition, the center archives and publicly displays samples of ethnographic work.
- Furnish a connection between the intellectual community of San Diego State University and surrounding communities by promoting locally relevant research.

For more information, contact the center at 619-594-2783, [CQR@sdsu.edu](mailto:CQR@sdsu.edu), or visit <http://www-rohan.sdsu.edu/~psargent/PaulHome.html>.

**Institute for Regional Studies of the Californias (IRSC)**  
**Paul Ganster, Director**

The Institute for Regional Studies of the Californias (IRSC) provides San Diego State University with a forum for the investigation, discussion, and dissemination of information about the United States-Mexican border region. Although the institute focuses on the border region of California, Baja California, the United States, and Mexico, it is also concerned with important issues of border regions elsewhere in the world.

Created in 1983, the institute has undertaken multidisciplinary applied research projects on important regional concerns including transborder environmental issues, policy perspectives of the California-Mexico relationship, quality of life, and sustainable development. IRSC also plays an active role in Mexico-related professional organizations and is frequently consulted on transborder issues by the media, nongovernmental organizations, the public sector, and other border stakeholders.

Other institute activities include conducting binational symposia; improving communication between public and private sector representatives on both sides of the border; serving as a

clearinghouse for information on transborder events, issues, and institutions; and encouraging the effective use of educational resources among the region's universities. The institute serves as a major link between SDSU and Mexican universities and institutions.

IRSC has an ongoing publications program that includes books, monographs, and shorter items. Many titles are co-published with SDSU Press.

IRSC conducts applied research projects on border environmental issues and policy, regional economic issues, and transborder planning issues. The institute serves as the SDSU link to the Southwest Consortium for Environmental Research and Policy, a congressionally established consortium of Mexican and U.S. universities for research and policy studies on border environmental issues. For more information, visit the Web site at <http://irsc.sdsu.edu>.

**Center for Interdisciplinary Studies of Youth and Space (ISYS)**

**Stuart C. Aitken, Director; Tom Herman, Managing Director**  
**Fernando Bosco, Doreen Mattingly, Ramona Pérez, Co-Directors**

ISYS is an interdisciplinary collective of academic and community interests. The mission of the center is to support research on children, families, and space. It includes not only international scholarship and global perspectives on young people and families, but also local community research initiatives in San Diego and Tijuana.

The geographical contexts within which young people live structure individual lives and provide connections to social and political formations. It is important to get beyond the problematization of "children," "families," and "communities" as categories so that we may find ways to account for unique process of identity formation and the relationships through which young people construct their lived spaces. Consequently, ISYS supports research that is intent on raising new questions concerning the interdependence of children, caregivers, their communities and social and spatial structures.

The center focuses on local and international research, workshops, and conferences as funding allows. It is connected to international child research centers elsewhere including a faculty and graduate student exchange program with the Norway's National Technological University (NTNU) in Trondheim and its National Center for Childhood Research (NOSEB). ISYS sponsors the international Routledge journal, *Children's Geographies: Advancing interdisciplinary understanding of younger people's lives*. In addition to this international, global focus, ISYS supports research in San Diego and Tijuana that relates to children, families and communities.

ISYS is located in Storm Hall 324. For information call 619-594-6498, or visit <http://geography.sdsu.edu/Research/Projects/ISYS/>.

**Social Science Research Laboratory (SSRL)**  
**Paul Wong, Director**

Established in 1974, the Social Science Research Laboratory (SSRL) is a full-service survey research center located on the campus of San Diego State University. SSRL was founded to support social research at San Diego State University and in the San Diego community. SSRL provides a full spectrum of survey research and program evaluation services to university faculty and administrators, as well as to local government, non-profit organizations, and the private sector. SSRL is capable of conducting telephone, web, mail, and multi-mode surveys. SSRL has 36 CATI stations and currently uses Sawtooth's WinCati for telephone data collection, Vovici for online data collection, and SPSS for data processing and analysis.

SSRL also provides graduate-level training in survey research methodology and practices through its Internship in Applied Survey Research and Program Evaluation. The goal of the internship is to provide eligible graduate students with field experience in survey research and program evaluation and an opportunity to apply the information and skills learned in their graduate program curriculum in a real-world social research setting.

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# College of Business Administration

The College of Business Administration and the School of Accountancy are accredited by AACSB International—The Association to Advance Collegiate Schools of Business—at both the undergraduate and graduate levels. Several College of Business Administration programs are registered with the Certified Financial Planner Board of Standards. Visit the College of Business Administration Web site at <http://www.sdsu.edu/business>.

## Administration

Dean: Gail K. Naughton

Associate Dean for Academic Affairs: James R. Lackritz

Director of Graduate Programs: David P. Ely

Assistant Dean for Student Affairs: Sandra L. Williams

Executive Director of Executive and Specialized Programs and External Affairs: Chris Graham

Director of Resource Management: Debra Tomic

Director of Undergraduate Program: Kathleen A. Krentler

## Mission of the College of Business Administration

The mission of the College of Business Administration at SDSU is to maintain a challenging learning environment that fosters excellence in business education and develops business professionals through innovative programs, applied learning, research, collaboration with alumni, and the local business community. Our programs reflect the international, entrepreneurial, hi-tech, and tourism character of our region and provide opportunities for students and faculty to integrate their academic work with experience in the San Diego community.

## General Information

All undergraduate and graduate programs have enjoyed continuous accreditation since their points of first application. In addition to a commitment to maintain a high quality, accredited program, the College has the following objectives: (1) academic programs that prepare students with the knowledge and skills needed to contribute to business and society as managers and professionals; (2) cooperation and mutual responsibility among faculty, staff, and students for learning and research; (3) opportunities for students to integrate their academic work with experience in the community; (4) faculty who are active as teachers and scholars and who share their professional expertise with students and the community; (5) staff members who maintain and improve their technical and interpersonal skills in order to contribute to the development and success of College programs; (6) programs that reflect the international and entrepreneurial character of our region; (7) physical and technical facilities that support program requirements; and (8) an environment that offers opportunities for students, faculty, and staff of diverse backgrounds to pursue their educational and career goals.

The College of Business Administration at SDSU aspires to be the educational backbone of the San Diego business community. To credibly serve one of the most dynamic regions in the nation and the world, we must achieve high national rankings in both undergraduate and graduate education and earn a national and international reputation for excellence in research. These objectives require us to understand and proactively adapt to the global and technological forces and the environmental, ethical and resource imperatives that are shaping the 21st century.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Business Administration.

### Master's Degrees

Accountancy (M.S.), Business Administration (M.S.), Business Administration (M.B.A., M.B.A./J.D.; jointly with the California Western School of Law, M.B.A./J.D.; jointly with the Thomas Jefferson School of Law), Latin American Studies (M.B.A./M.A.; jointly with the College of Arts and Letters).

### Bachelor's Degrees

Accounting (B.S.), Finance (B.S.), Financial Services (B.S.), Information Systems (B.S.), International Business (B.A.; jointly with the College of Arts and Letters), Management (B.S.), Marketing (B.S.), Real Estate (B.S.).

### Minors

Accounting, Business Administration, Finance, Information Systems, Management, Marketing, Real Estate, Small Business Management (available at Imperial Valley Campus only).

### Certificate Programs

Accounting, Business Administration (available at Imperial Valley Campus only), Personal Financial Planning.

## Research Centers and Institutes

### Center for Accounting in the Public Interest

#### Martha Doran, Director

The Center for Accounting in the Public Interest (CAPI) serves the public's need for a restored sense of confidence and trust in how financial issues are handled by business and government. Public perception of institutions is that one cannot trust what is being said or done because of a lack of transparency, completeness, independence, and objectivity. The center is neither an advocate nor an adversary of any specific position, but serves as an honest broker of accountability and provides a platform from which to disseminate analysis and explanations of financial reporting and assumptions.

The center was established in 2006 and received its first grant from the President's Leadership Fund. CAPI is dedicated to serving the public interest in four unique ways:

- CAPI is a not-for-profit center, part of a university community that encourages innovation without the same pressures of pleasing specific clients or interests;
- CAPI includes as its mission the goal of leading forth and transforming students, alums, entrepreneurs, ... the community;
- CAPI strives to harness the best aspects of the "ivory tower" by providing learning opportunities and knowledge, facilitating discussions, evaluating "common wisdom"...all of these services without being employed or mandated by some specific entity;
- CAPI provides ideas and educational outreach to support the public interest, not a specific product or point of view, which can foster greater trust and confidence in facilitating dialogue on the challenges of the 21<sup>st</sup> Century.

CAPI's mission is to serve the public interest as an honest broker for the whole truth, by facilitating informed financial dialogues, improving financial literacy, ethical literacy and fraud awareness. The center has sponsored and participated in panel discussions, has plans to host an accountability conference, plans to offer courses and workshops, and provides online resources and communication through the Web site at <http://capi.sdsu.edu>.



**Corporate Governance Institute (CGI)****Lori Verstegen Ryan, Director**

The Corporate Governance Institute (CGI) is an education and research center dedicated to the study and application of responsible corporate governance principles. Founded in 1998, the mission of the CGI is to enhance the skills of corporate directors, senior executives, and investors by creating and delivering initiatives related to a) director and executive development, b) research, and c) curriculum innovation. CGI programs focus on identifying and applying "best practices" in all aspects of corporate governance. All CGI initiatives are guided by the principle that corporate leaders hold a primary duty to insure the financial viability of the organizations they manage.

CGI staff can be reached at 619-594-5314, [CGI@SDSU.edu](mailto:CGI@SDSU.edu), or at <http://www.sdsu.edu/CorpGov>.

**Entrepreneurial Management Center (EMC)****Sanford B. Ehrlich, QUALCOMM Executive Director****Bernhard Schroeder, Director of EMC Programs****Carmen Bianchi, Director of Family Business****Alex DeNoble, Chair, Department of Management,  
College of Business Administration**

The Entrepreneurial Management Center (EMC) serves students and companies that contribute to the emerging growth sector of the regional business community. The mission of the EMC is to develop educational programs and research focused on best practices that promote entrepreneurship and innovation at the individual and organizational levels.

The range of entrepreneurial programs offered includes:

- (1) mentorship and advisory support to help students acquire the tools and skills necessary for new venture creation and development;
- (2) intern programs to provide experiential education for undergraduate and graduate students; and
- (3) organizational consulting and development.

The EMC focuses its program development on all areas of the entrepreneurial process including: investor financing, product innovation, management of technology, managing organizational growth, succession planning, leadership, talent management, branding and positioning, social media marketing, and estate planning.

The EMC sponsors and creates a myriad of programs and events at San Diego State University aimed at the campus population:

- Venture Challenge, a top global MBA business plan competition;
- EMC Business Forum for executives of closely-held/family businesses;
- QUALCOMM Social Entrepreneur Intern program;
- Center for the Commercialization of Advanced Technology;
- WebCompass, a undergraduate internship program aiding non-profits;
- L. Robert Payne Distinguished Entrepreneur Lecture Series;
- VentureStart Competition, business plan competition for all SDSU students;
- Lavin Entrepreneurs, an undergraduate cohort mentored by senior executives;
- Entrepreneur Day, yearly campuswide celebration of SDSU entrepreneurs;
- Entrepreneurs for Peace, global entrepreneur effort to stimulate peace.

For further information, contact the EMC in the Gateway Center, Room 1502, 619-594-2781, FAX 619-594-8879, and at <http://www.sdsu.edu/emc>.

**Institute for Inclusiveness and Diversity in Organizations (IIDO)****Lynn M. Shore, Director**

The purpose of the Institute for Inclusiveness and Diversity in Organizations (IIDO) is to support the development of knowledge and competencies needed to manage a more diverse workforce in a global business environment. Diversity is viewed here in broad terms, incorporating age, ethnicity, disability, sexual orientation, culture, and nationality. Both the changing nature of the work force and the global challenges faced by organizations point to the value of researching social trends. This information deepens the body of knowledge about organizational diversity for management scholars, presents needed information to the business community, provides research opportunities for faculty, and offers educational opportunities for students. Founded in 2006, the IIDO seeks to accomplish these goals by: (1) conducting survey research that investigates the impact of organizational diversity and globalization, with the goal of improving organizational effectiveness; (2) cultivating mutually beneficial relationships with organizations (private sector, public sector, and nonprofit) that support the goals of optimizing human resource management and development in a diverse and interconnected world; and (3) contributing to the education of students, employees, managers, and executives to prepare them for roles in an increasingly diverse and global world. The IIDO also seeks to create research partnerships among faculty at SDSU and at other universities to enhance the knowledge base on social trends, and to increase the international reputation and visibility of the College of Business Administration among scholars and the business community. For further information, contact the director at 619-594-4309 or [lshore@mail.sdsu.edu](mailto:lshore@mail.sdsu.edu).

**Center for International Business Education and Research (CIBER)****Mark J. Ballam, Managing Director****Gangaram Singh, Faculty Director****Siv Lang Lim, Program Coordinator**

San Diego State University's Center for International Business Education and Research (SDSU CIBER) is a national center of excellence funded in part by a grant from the U.S. Department of Education. One of 31 centers nationwide, SDSU CIBER was one of the first five established in 1989 and assists in linking the manpower and information needs of U.S. business with the international education, language training and research capacities of universities across the United States. SDSU CIBER serves as a catalyst to further integrate and advance a number of diverse activities relating to international business education, international business research, language training, student and faculty international exchanges, and executive education outreach programs for our various constituents. The overall mission of the national CIBER program is to help ensure the United States' long-term international competitiveness by supporting research, education, and outreach activities. Activities of SDSU's CIBER include funding faculty research; international business and foreign language curricular initiatives; outreach and development programs for the business community; training programs for language and business faculty; supporting conferences, workshops, and seminars related to global business; developing a variety of innovative activities which impact interdisciplinary education in the United States and further the Congressional mandate to enhance U.S. competitiveness abroad. SDSU CIBER is located in the College of Business Administration, and collaborates with colleges across the university, including the College of Arts and Letters.

For more information, visit <http://www.sdsu.edu/ciber>.

**International Institute for the Commercialization  
of Biomedical Innovation (IICBI)**

**Gail K. Naughton, Director**

The International Institute for the Commercialization of Biomedical Innovation (IICBI) seeks to bring the world's biomedical innovations to the marketplace. The goal of the IICBI is to work with leading universities to expedite biomedical concepts into development; and then move them forward into the marketplace. The IICBI works with national as well as international universities to develop and bring new medical devices, apparatuses, pharmaceuticals, and treatments to the marketplace. It is partnered with other universities to identify and in-license technologies. Students, faculty, and key life science business leaders work together to develop: (1) a business plan; (2) an IP strategy; (3) a patent for a disclosure, regulatory plan; (4) a competitive strategy for the technology; and (5) identify and pursue commercial partners to develop and market the end product. The mission of the IICBI is to provide the expertise and infrastructures to support the development and commercialization of biomedical innovation from universities across the globe that currently lack the ability to bridge the gap between concept generation and product launch.

**Center for the Study of Personal Financial Planning  
(CSPFP)**

**Thomas Warschauer, Director**

The center encourages research in individual and family finance to further the ability of financial counselors and planners to provide advice that aids in achieving their financial objectives.

The theoretical base of decision-making criteria for personal financial decisions is weak and sometimes non-existent. In many cases, individuals, families, and their financial planners and advisers make important decisions that have little or no theoretical foundation. The finance discipline – as taught at the university-level – has grown around corporate decision-making, not decisions of the household. The development of an emerging financial planning profession has made this lack of theoretical basis evident. The center is founded on the belief that there is a significant need for scholars to share their ideas and mutually develop their research thoughts, for financial reporters to bring the practical application of this work to the attention of professionals and the public, and for students engaged in the study of financial planning to be aware of the latest findings of researchers engaged in this field.

The center is involved in the development of a national web-based research database and a national graduate student financial planning competition. The financial planning web-based bibliography is aimed at three groups of users: journalists, researchers, and students. Summaries of recent research in financial planning concepts is available for journalists to help disseminate research findings to the popular press. Researchers can find background articles listed by financial planning topical areas. Faculty can determine state of the art research on various topics by sharing research interests and/or discussion drafts. And nationally, students can access research to aid in their academic understanding of financial planning issues.

The center can be reached at 619-594-4040 or [tom.warschauer@sdsu.edu](mailto:tom.warschauer@sdsu.edu).

**Corky McMillin Center for Real Estate**

**Michael Lea, Director**

The mission of the Corky McMillin Center for Real Estate is to improve the educational experience for real estate students at SDSU, foster academic research in the areas of real estate, and to act as a resource for real estate professionals, government and industry organizations.

The director of the center is a principal spokesperson for SDSU on real estate issues, organizing events for alumni, supporters, and students. The director teaches courses in real estate finance, conducts real estate research, and represents the center at academic and industry meetings. The center will also host a Global Real Estate Business Competition for undergraduate students.

The center was established in 2009 with a donation from the McMillin family who own one of San Diego's most successful real estate and development companies.

**Real Estate and Land Use Institute (RELUI)**

**Andrew Q. Do, Director**

Established in 1983, the Real Estate and Land Use Institute (RELUI) is the first systemwide research-oriented institute of its kind in the 23-campus California State University system. The San Diego regional office of RELUI is located in the College of Business Administration.

CSU-RELUI's mission is to promote education and research in real estate and land use. In support of this mission, RELUI seeks to (1) support, coordinate, and manage systemwide and intercampus research activities; (2) obtain funding sources for education and research activities; (3) promote the general well-being of undergraduate and graduate study within the CSU system; and (4) maintain liaison with government agencies, private industry, and associated organizations with interest in public policy.

At SDSU, RELUI maintains a research and reference center in the College of Business Administration where specialized real estate and land use related materials are available for use by students and faculty.

RELUI also participates in internship programs for placement of qualified students with local firms to provide a combined working and learning experience.

For more information, contact RELUI at 619-594-2301, [andrew.do@sdsu.edu](mailto:andrew.do@sdsu.edu) or [jim.short@sdsu.edu](mailto:jim.short@sdsu.edu), or at <http://arweb.sdsu.edu/es/admissions/ab/realestate.htm>.

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# College of Education

## Administration

Dean: Ric A. Hovda  
Associate Dean: Jose Luis Alvarado  
Associate Dean for Faculty Development and Research: (Vacant)  
Assistant Dean for Student Affairs: Patricia Lozada-Santone  
Doctoral Programs: Marilee J. Bresciani, Cheryl L. Mason,  
Rafaela M. Santa Cruz, Cynthia L. Uline  
Manager of Budget and Analysis: Francis Fox  
Coordinator of Operations and Support Services: Julie White  
Coordinator of Office of Student Services: Lisa McCully

## General Information

The College of Education's mission is to prepare effective professionals for a variety of societal service delivery and leadership roles across a range of settings including schools, postsecondary institutions, social service agencies, and vocational rehabilitation organizations. The college contributes to the knowledge base in both educational theory and practice through professional inquiry and scholarship. The college engages in strategic partnerships with the field of practice to improve client outcomes, to increase institutional effectiveness, and to promote social justice.

The College of Education is organized into eight academic units including the School of Teacher Education and the following departments: Administration, Rehabilitation and Postsecondary Education; Child and Family Development; Counseling and School Psychology; Educational Leadership; Educational Technology; Policy Studies in Language and Cross-Cultural Education; and Special Education. The Master of Arts degree in education is offered in ten academic areas of education. The Master of Science degree is offered in three additional academic areas. The Educational Specialist degree is offered in school psychology. A Ph.D. program in education is offered jointly with Claremont Graduate University. This unique program features a social justice emphasis. A Ph.D. program in mathematics and science education is offered jointly with the College of Sciences and the University of California, San Diego. An Ed.D. program is offered in Educational Leadership with concentrations in PreK-12 and Community College/Postsecondary Leadership. An Ed.D. program is offered jointly with the University of San Diego in the following fields: Educational Technology and Teaching and Learning (but currently is not admitting new students). Approved teaching credential programs are offered for the multiple subject credential and the single subject credential, as well as for a number of specialist and service credentials.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Education.

### Doctoral Programs

#### Ph.D. in Education

#### Ph.D. in Mathematics and Science Education

#### Ed.D. in Education

(currently not admitting new students)

#### Ed.D. in Educational Leadership

Concentration in PreK-12 Leadership

Concentration in Community College/Postsecondary Leadership

### Educational Specialist

#### Ed.S. in School Psychology (M.A./Ed.S.)

### Master's Degrees

Child Development (M.S.), Counseling (M.S.),  
Education (M.A., M.A.T.), Rehabilitation Counseling (M.S.).

### Bachelor's Degrees

Child Development (B.S.)

### Minors

Child Development, Counseling and Social Change,  
Educational Technology, Leadership Development

### Teaching and Service Credentials\*

#### Credential Program

1. Multiple Subject: part-time, full-time, and internship programs.
2. Multiple Subject Bilingual Cross-Cultural Language and Academic Development (BCLAD) emphasis: Spanish; Internship
3. Single Subject
4. Single Subject Bilingual and Academic Development (BCLAD) emphasis: Spanish; Internship

#### School Service Authorized

Teach in self-contained classrooms and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD), kindergarten through twelfth grade.

Teach in self-contained classrooms and in primary language and English, English Language Development (ELD), and Specially Designed Academic Instruction in English (SDAIE).

Teach single subject area in grades K-12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).

Teach single subject area in primary language and English in grades K-12 and provide Specially Designed Academic Instruction in English (SDAIE) and English Language Development (ELD).

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\* Standards and authorizations are being reviewed and revised by the California Commission on Teacher Credentialing.

### Specialist Credentials

Reading/Language Arts  
Bilingual Cross-Cultural Specialist  
Special Education:  
Early Childhood Special Education, Levels I and II; Internship Credential  
Mild/Moderate Disabilities, Levels I and II; Internship Credential  
Moderate/Severe Disabilities, Levels I and II; Internship Credential

### Service Credentials

Administrative Services; Internship  
Clinical-Rehabilitative Services  
(School of Speech, Language, and Hearing Sciences)  
Pupil Personnel Services:  
Child Welfare and Attendance (School of Social Work)  
School Counseling (Department of Counseling and School Psychology)  
School Psychology (Department of Counseling and School Psychology); Internship Credential  
School Social Work (School of Social Work)  
School Nurse Services (School of Nursing)

### Certificate Programs

Academic Literacy Development for English Language Learners, Algebra Specialist, Behavior Analysis, Cognitive Disabilities, Community College Teaching, Developing Gifted Potential, Distance Education, Dual Language Bilingual, Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist, Early Childhood Special Education, Educational Facility Planning (offered through College of Extended Studies), Family Life Education, Institutional Research, Planning, and Assessment, Instructional Design, Instructional Technology, Mathematics Specialist, Reading, Primary Grade Writing Instruction, Psychiatric Rehabilitation, Rehabilitation Administration, Supported Employment and Transition Specialist, Workforce Education and Lifelong Learning, Teacher Induction: Fifth Year.

## Research Centers and Institutes

### Center for Counseling and School Psychology

**Valerie Cook-Morales, Director**

The Center for Counseling and School Psychology is a unit within the College of Education designed to provide support for activities such as (1) securing and administering grants and other support for research and development in counseling and school psychology, (2) encouraging cooperation with faculty members from other relevant disciplines such as anthropology, economics, psychology, social work, sociology, and Counseling and Psychological Services, and (3) conducting programs or rendering services designed to promote counseling and school psychology at San Diego State University. The center is administered by the Department of Counseling and School Psychology; fiscal matters are coordinated through the San Diego State University Foundation.

For more information, visit the Web site at  
<http://www.psychology.sdsu.edu/advising/counseling%20psychology.htm>.

### Center for Educational Leadership, Innovation, and Policy

**Marilee Bresciani and Stephen F. Barnes, Co-Directors**

The Center for Educational Leadership, Innovation, and Policy examines issues that affect policies and practices of educational institutions, including their implications for leadership, planning, innovation, and organizational development. The center engages in research, development, and dissemination activities that focus on a few critical educational issues. As a result of its policy analysis and research, the center develops plans and programs which enhance organizational capacity to respond to the challenges and opportunities and which lead to the improvement of practice.

### Center for Equity and Biliteracy Education Research (CEBER)

**Alberto M. Ochoa and Alberto Rodriguez, Co-Directors**

The Center for Equity and Biliteracy Education Research (CEBER) examines structural, social, and linguistic conditions that hinder or promote the advancement of democratic schooling and educational social justice for all students. CEBER aims to bring together scholars and education and community leaders to assist in the advancement of knowledge regarding biliteracy and equity issues. Six components guide the work of CEBER: professional development and biliteracy teacher education, equity and biliteracy research on democratic schooling, international professional development of school personnel, biliteracy capacity from kindergarten to higher education, parental leadership in biliteracy, and dissemination of educational equity and biliteracy research.

### Interwork Institute

**Caren L. Sax and Fred R. McFarlane, Co-Directors**

Interwork Institute's efforts focus on promoting the integration of all individuals, including those with disabilities, into all aspects of education, work, family, and community life. The institute conducts research, training, and education using a variety of strategies including distance-learning technologies. Current efforts include universal design in all aspects of our community. Educational and research efforts involve organizations and individuals in all states, tribal communities, the Pacific Basin, Asia, Mexico, South America, and Europe. Faculty and staff associated with the institute are uniquely prepared to promote the meaningful participation and productivity of each member of the community.

The institute has the following five centers:

- The Exceptional Family Resource Center (EFRC) was initially developed under the Department of Special Education. It was transferred to the Interwork Institute in 2006. They have been serving individuals and families of children with disabilities and the professionals who assist them throughout San Diego and Imperial Counties since 1990.
- The Collaborative for Distance Learning (CDL) provides the technology and instructional design support for all Department and Interwork activities. This has been in operation since 1993 when initial funding was received from the US Department of Education.
- The Center for Pacific Studies (CPS) provides research, training, and technical assistance services in partnership with institutions of higher education, government agencies, and non-profit organizations in the following Pacific Island jurisdictions: American Samoa, Republic of the Marshall Islands, Federated States of Micronesia, Territory of Guam, Commonwealth of the Northern Mariana Islands, Republic of Palau, and the State of Hawaii.
- The Center for Emerging Leadership (CEL) supports and educates youth and young adults with developmental disabilities through peer-to-peer mentorship as they transition into adulthood as leaders. This is funded by the Department of Health and Human Services, Administration for Children and Families, Administration on Developmental Disabilities. This was initially funded as a center under the corresponding grant competition in 2004.
- Circle for American Indian Rehabilitation (CAIR) is devoted to the continuing education, training, and technical assistance needs for programs funded through American Indian Rehabilitation Service Projects (Section 121 of the Rehabilitation Act).

The Interwork Institute's facilities are located at 3590 Camino del Rio North in Mission Valley. For more information visit the Web site at  
<http://interwork.sdsu.edu>.

**Center for Teaching Critical Thinking and Creativity**  
**Margie Kitano, Director, Professor Emerita**

The Center for Teaching Critical Thinking and Creativity (CTCTC) advances performance and productivity in diverse communities by enhancing critical and creative thinking in schools. The center collaborates with teachers to develop and evaluate applications of research on critical and creative thinking applied to rigorous content and supported by appropriate technologies. CTCTC supports teachers' continued development of their own expertise while taking advantage of their knowledge, skills, and experience in assessing effects on students' critical thinking, creative productivity, and academic performance.

**Center for Learning, Instruction,  
 and Performance Technologies**  
**Marcie J. Bober-Michel, Director**

The center's faculty and staff conduct research on the design and use of technology-based systems for enhancing human learning and performance, monitor trends in advanced applications of educational technology and allied disciplines, and evaluate the effectiveness and usability of educational products and services.

The center consults with corporations, agencies, and SDSU affiliates on the design of products for education and training, arranges for on-site and electronic delivery of professional development courses and seminars by the nationally recognized faculty of SDSU Department of Educational Technology, and coordinates fieldwork and internship opportunities for advanced graduate students.

**San Diego State University Literacy Center**  
**Sharan A. Gibson, Director**

The SDSU Literacy Center supports collaborative partnerships that serve a variety of diverse literacy needs in our community including assessment and tutoring in reading and writing for children, adolescents, and adults; workshops for parents to promote family literacy; professional education for teachers through coursework and institutes; and, research to inform teaching practice and effect systemic change in literacy education. The center houses the Community Reading Clinic and the Reading Recovery® Program. Credentialed teachers enrolled in graduate reading, certificate, and credential programs as well as professional staff conduct the tutoring and assessments. Professional development for reading recovery teacher leaders occurs at the center, and institutes are planned for reading recovery and elementary teachers in the community. Literacy center faculty members engage in research on effective instruction in reading and writing, teacher practices, and early intervention. The SDSU Literacy Center is located in City Heights in the Dede Alpert Center for Community Engagement, San Diego State University, 4283 El Cajon Blvd., Suite 200, San Diego, CA 92105. For more information, visit <http://edweb.sdsu.edu/literacy/>.

**Pre-College Institute (PCI)**  
**Cynthia D. Park, Executive Director**

The faculty and staff of the Pre-College Institute (PCI), an institute to promote the advancement of pre-college education, implements programs to enhance teaching and learning in multicultural settings and studies their outcomes. The institute, operating from the University's historic strength in teacher education and its proximity to Mexico, delivers services geared towards promoting educational advancement among pre-college students from low-income families. The institute also supports continuous professional enhancement of teachers from all cultural backgrounds and conducts systematic research and evaluation of the programs that deliver these services.

The institute offers services through five federally funded TRIO programs and partnerships with the Colleges of Science, Engineering, and Health and Human Services, as well as the Division of Undergraduate Studies and the Sweetwater Gear Up partnership with Compact for Success. The institute's international branch offers exchange opportunities for university faculty and students to visit and study in other countries. To learn more, visit the Web site at <http://www-rohan.sdsu.edu/dept/sdsutrio/>.

**Qualcomm Institute for Innovation  
 and Educational Success**

**Ric A. Hovda, David T. Hayhurst,  
 Geoffrey W. Chase, Co-Directors**

The Qualcomm Institute for Innovation and Educational Success is a partnership between Qualcomm/SDSU. This partnership was formed to accomplish the following objectives:

- Significantly increase the technology skills of SDSU graduates, thereby generating a more qualified workforce and a better-informed citizenry.
- Develop an educational system that values, encourages, and rewards creative methods of delivering education, from kindergarten through college graduation.
- Establish the institutional infrastructure at SDSU to support large-scale change and transformation of the education system through innovation, evaluation, and dissemination of effective educational methods.
- Dramatically shift the way education is delivered, from kindergarten through college, with an emphasis on improving technology skills and knowledge.
- Develop cross-curriculum synergies among SDSU academic programs that help teach technology skills to students in all courses of study.
- Develop an effective, sleeves-rolled-up dialogue among Qualcomm, SDSU, and the greater San Diego business and corporate community, with the goal of addressing challenges, identifying opportunities, and generating responsive action.

The institute has the following four components:

- *Improving Student Achievement in Mathematics Program* to increase student mathematics performance in public schools.
- *Project Lead the Way* to increase the number and diversity of qualified students entering the College of Engineering.
- *People, Information, Communication, and Technology Program* to increase the integration of technology with undergraduate students.
- *National Center for Urban Schools Transformation* will assist urban public schools to dramatically improve the level of student achievement.

**Center for Social Equity Technical Assistance**  
**Ruben W. Espinosa and Alberto M. Ochoa, Co-Directors**

The center conducts training and research on issues of social equity and bilingual/multicultural policy, and provides technical assistance to districts throughout southern California. The center conducts research in public equity and school finance. The center houses projects funded by federal, state, and private sources. Current projects include the Parent Leadership and the Social Equity project. The center functions within the Department of Policy Studies in Language and Cross-Cultural Education at San Diego State University.

**Center for the Study of International Education**  
**Laura J. Hall and Minjuan Wang, Co-Directors**

The Center for the Study of International Education is a unit of the College of Education. It promotes faculty and graduate student research, explores study abroad and exchange possibilities for faculty and students, and disseminates information about international education to interested persons in the San Diego area. It also seeks to complement regular course offerings through sponsorship of lectures, conferences, and the development of bibliographic resources.

The center seeks to foster not only a network of interested faculty within the College of Education, but also encourages faculty involvement from other colleges on campus as well as from other organizations and universities in the San Diego area.

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# College of Engineering

## Administration

Dean: David T. Hayhurst

Associate Dean: Randall M. German

Assistant Dean for Student Affairs: Lawrence C. Hinkle (Interim)

Director of Doctoral Programs: Eugene A. Olevsky

## General Information

The College of Engineering was established as a distinct unit of the university in 1958, although first courses named "Engineering" appeared in the 1922-23 catalog. The 1942-43 catalog was the first to announce the establishment of a "General Engineering" program leading to the Bachelor of Arts degree. The college is now organized into the Departments of Aerospace Engineering and Engineering Mechanics, Civil, Construction, and Environmental Engineering, Electrical and Computer Engineering, and Mechanical Engineering.

At the undergraduate level, the College of Engineering prescribes certain patterns of its courses, combined with those of other academic divisions of the University, leading to the Bachelor of Science degree in seven specific major fields of engineering. At the graduate level, the college offers the Master of Science degree in four of these fields and in bioengineering, a Master of Engineering degree, and a doctoral degree in engineering sciences/applied mechanics jointly with the University of California, San Diego.

Consistent with the role and mission of the California State University system, the faculty of the College of Engineering at San Diego State University believes its mission to consist of the following integrated components: To provide students with a quality undergraduate and graduate engineering education; to prepare graduates for professional careers and life-long learning; to promote the creation and dissemination of knowledge; to serve society through professional practice and community outreach; and to act as a catalyst for the technological development of the San Diego region.

Because the engineer's work is predominantly intellectual and varied, and not of a routine mental or physical character, this program places emphasis on the mastery of a strong core of subject matter in the physical sciences, mathematics, and the engineering sciences of broad applicability. Woven throughout the pattern is a continuing study of the social facets of our civilization, because engineering graduates must expect to find their best expression as leaders, conscious of the social and economic implications of their decisions.

Although the profession of engineering presents in practice a variety of specialties, undergraduate students initially focus their attention on a pattern of coursework emphasizing engineering fundamentals. Students then are able to apply this knowledge of fundamentals in developing special expertise in their areas of specific interest.

## Accreditation and Academic Association

The College of Engineering is a member of the American Society for Engineering Education. Undergraduate engineering programs in aerospace engineering, civil engineering, computer engineering, electrical engineering, environmental engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, Inc. Accreditation is being sought for the construction engineering degree.

## Registration of Engineers

Professional registration of engineers is required for many fields of practice. Engineering students are encouraged to take the Fundamentals of Engineering examination prior to graduation. Graduation from an accreditation program such as San Diego State University facilitates registration as a Professional Engineer.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Engineering.

### Doctoral Program

Engineering Sciences/Applied Mechanics

### Master's Degrees

#### Master of Science (M.S.)

Aerospace Engineering, Bioengineering,  
Civil Engineering,  
Electrical Engineering, Mechanical Engineering

#### Master of Engineering (M.Engr.)

### Bachelor's Degrees

Aerospace Engineering (B.S.), Civil Engineering (B.S.),  
Computer Engineering (B.S.), Construction Engineering (B.S.),  
Electrical Engineering (B.S.), Environmental Engineering (B.S.),  
Mechanical Engineering (B.S.).

### Minor

Engineering

### Certificate Program

Rehabilitation Technology

## Research Centers and Institutes

### Communications Systems and Signal Processing Institute Madhu S. Gupta, Director

This institute is engaged in educational, research, and service activities in the field of electronic communication systems, with an emphasis on radio frequency and digital signal processing aspects. Faculty, students, and industrial partners collaborate to advance the state-of-the-art in the institute's core areas of expertise, such as RF devices and integrated circuits, modems, receivers, transmitters, synthesizers, A-D and D-A converters, digital signal processing algorithms and hardware, antenna, and communication networks. Specific activities include research and design projects; development of products, software, algorithms, and techniques; and training programs including short courses.

### **Concrete Research Institute** **M. Ziad Bayasi, Director**

The Concrete Research Institute supports educational needs in civil engineering curriculum and concrete research performed for sponsors from industry and governments. The institute encompasses a wide range of topics. The main emphasis is currently on concrete materials and structures. Civil and environmental engineering faculty members are involved with finding optimum design solutions in bridges, seismic resistant structures, residential buildings, and retaining walls.

Learn more by visiting the Web site at  
<http://www.engineering.sdsu.edu/~sfrc/>.

### **Energy Engineering Institute** **Asfaw Beyene, Director**

The Energy Engineering Institute has supported educational and research activities in energy related areas since 1985. Undergraduate and graduate students and faculty from the mechanical engineering and electrical and computer engineering departments are involved in obtaining solutions to problems presented by industrial sponsors. Institute research projects cover a wide range of areas from optimizing energy resources to international energy studies. For more information, visit <http://www.engineering.sdsu.edu/energy.html>.

### **Qualcomm Institute for Innovation and Educational Success** **David T. Hayhurst, Geoffrey W. Chase, Ric A. Hovda, Co-Directors**

The Qualcomm Institute for Innovation and Educational Success is a partnership between Qualcomm/SDSU. This partnership was formed to accomplish the following objectives:

- Significantly increase the technology skills of SDSU graduates, thereby generating a more qualified workforce and a better-informed citizenry.
- Develop an educational system that values, encourages, and rewards creative methods of delivering education, from kindergarten through college graduation.
- Establish the institutional infrastructure at SDSU to support large-scale change and transformation of the education system through innovation, evaluation, and dissemination of effective educational methods.
- Dramatically shift the way education is delivered, from kindergarten through college, with an emphasis on improving technology skills and knowledge.
- Develop cross-curriculum synergies among SDSU academic programs that help teach technology skills to students in all courses of study.
- Develop an effective, sleeves-rolled-up dialogue among Qualcomm, SDSU, and the greater San Diego business and corporate community, with the goal of addressing challenges, identifying opportunities, and generating responsive action.

The institute has the following four components:

- *Improving Student Achievement in Mathematics Program* to increase student mathematics performance in public schools.
- *Project Lead the Way* to increase the number and diversity of qualified students entering the College of Engineering.
- *People, Information, Communication, and Technology Program* to increase the integration of technology with undergraduate students.
- *National Center for Urban Schools Transformation* will assist urban public schools to dramatically improve the level of student achievement.



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# College of Health and Human Services

## Administration

Dean: Marilyn Newhoff  
Associate Dean: Olita D. Harris  
Associate Dean: Stephen J. Williams  
Assistant Dean for Student Affairs: Donna M. Daly

## General Information

The College of Health and Human Services offers professional education in the health and human service disciplines. The college consists of the following group of professional areas: the Department of Gerontology, School of Nursing, School of Social Work, School of Speech, Language, and Hearing Sciences, and the Graduate School of Public Health.

The College of Health and Human Services' faculty, through advising, teaching, and supervising, offers students a balanced education of academic study, field placement, clinical experiences, and research opportunities. Thus, faculty and students share an understanding of the relationship between California's diverse populations and life styles. The common goal of each of the college's professional programs is to assist students in developing competence in professional practice and research methods leading to greater expertise for gathering information, planning, and evaluating professional actions. This commitment to students produces alumni who will continue to work effectively with our professional schools and departments so that the well-being of individuals, groups, and communities are both preserved and promoted.

Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Public Health, Master of Social Work, Ph.D. in Language and Communicative Disorders, Ph.D. in Public Health, and the professional doctorate in Audiology, the Au.D., comprise the degrees conferred. In addition, students may receive national accreditation, state credential or state licensure, and national or state professional certification depending upon the program and the legal requirements and obligations for practicing the profession. All programs also provide continuing education for professionals already in the field.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Health and Human Services.

### Doctoral Programs

Audiology  
Language and Communicative Disorders  
Public Health (Epidemiology, Global Health, Health Behavioral Science)

### Master's Degrees

Gerontology (M.S.), Nursing (M.S.),  
Public Health (M.S., M.P.H., M.P.H./M.S.W., M.P.H./M.A.; jointly with the College of Arts and Letters), Social Work (M.S.W., M.S.W./M.P.H., M.S.W./J.D.; jointly with California Western School of Law); Speech, Language, and Hearing Sciences (M.A.).

### Bachelor's Degrees

Gerontology (B.A.), Health Science (B.S.), Nursing (B.S.), Social Work (B.A.), Speech, Language, and Hearing Sciences (B.A.).

### Minors

Gerontology; Health Science; Social Work; Speech, Language, and Hearing Sciences (ASL and Deaf Studies).

### Certificate Programs

Bilingual Speech-Language Pathology, Gerontology, Preventive Medicine Residency.

## Credential Programs

Child Welfare and Attendance Services, Pupil Personnel Services (School Social Work), School Nurse Services, Speech Language Pathology.

## Research Centers and Institutes

### Center for Alcohol and Other Drug Studies

Thomas F. Reilly, Director  
John D. Clapp, Associate Director

The center was established in 1985 by the School of Social Work as the Center on Substance Abuse. In 2003, the emphasis was changed to research and evaluation, while maintaining its primary service program, a drunk driving education and treatment program. The center is actively engaged in conducting alcohol and other drug research and evaluation projects. Over the past decade, the center has received numerous federal, state, and county grants and contracts and has several ongoing projects including the NIH funded College Party and Bar Environmental Prevention Project and an Evaluation of California's State Prevention Grants. In addition, the center operates the Central District Driving Under the Influence Program, which provides education and counseling services for court-ordered offenders in the central judicial district of San Diego county. The center is located at 6386 Alvarado Road, Suite 224, 619-229-2340. The Central District Driving Under the Influence Program is located at 9245 Sky Park Court, Suite 101, 858-467-6810.

Visit <http://www.centerforaod.sdsu.edu> for more information.

### University Center on Aging

Mario D. Garrett, Director

The Center on Aging is administered by the Department of Gerontology. The center is involved with supporting interdisciplinary educational and curriculum efforts; undertaking research, demonstration and evaluation activities; providing technical assistance and agency consultation for the community; coordinating workshops and seminars; and providing opportunities for student involvement in aging activities. The center serves as a central point for the development, dissemination, and analysis of data related to diversity and aging and long-term care.

To learn more about the center, visit the Web site at <http://chhs.sdsu.edu/gero/facultydetail.php?ID=61>.

### Center for Behavioral and Community Health Studies (BACH)

John P. Elder, Director  
Terry L. Conway, Linda C. Gallo, Joni A. Mayer,  
and Gregory A. Talavera, Associate Directors

The Center for Behavioral and Community Health Studies (BACH) is housed at 9245 Skypark Court, Suite 221, San Diego, CA 92113. The center, formerly known as The Center for Behavioral Medicine, was established in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care. The center has seven investigators from three different colleges. The interdisciplinary center encourages participation from all of the university colleges and departments. Currently, active investigators come from the Departments of Exercise and Nutritional Sciences, Psychology, and the Graduate School of Public Health. Current center projects involve collaboration between scientists and clinicians from a variety of specialties as well as a variety of other institutions, including Scripps Clinic and Research Foundation, the University of California, San Diego Medical Center, and the Children's Hospital and Health Center. Funding for the center comes from federal and private foundation grants including several National Institutes of Health agencies. Current sponsors include the National Cancer Institute, National Heart, Lung and Blood Institute, the State of California Department of Health Services, and the University of California Tobacco Related Disease Research Program.

The center provides important research experiences to diverse students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions.

Visit <http://behavioralhealth.sdsu.edu> to learn more.

**Center for Behavioral Epidemiology and  
Community Health**

**Melbourne F. Hovell, Executive Director**

Administered through the Graduate School of Public Health, the center was established for the purpose of promoting research to study behavior that prevents or contributes to the cause of disease and injury. Both non-intervention and empirical studies are conducted to determine the factors most responsible for lifestyle practices related to morbidity and mortality. The center focuses on health related behavior – either protective practices or risk practices – and has been concerned with a wide range of public health and medical concerns such as: tobacco prevention in youth; environmental tobacco exposure reduction in children; STDs, AIDS, pregnancy prevention in adolescents, and prevention in women and divorced adults; violence and anger prevention. C-BEACH conducts scientific investigations into the following broad areas: behavioral epidemiology, measurement, and interventions (clinical and community-based). For more information, visit <http://www.sci.sdsu.edu/c-beach/>.

**California Distance Learning Health Network (CDLHN)**

**Richard M. Gersberg, Principal Investigator**

**Violet Macias, Executive Director**

Founded in 1995, the mission of CDLHN is to produce, promote, and provide training and distance education on a variety of public health topics throughout California, the nation, and around the world. CDLHN's goal is to foster collaboration between health organizations and distance learning educators; and to increase access to the most advanced communication technologies available in the world today. CDLHN produces and promotes courses on a variety of public health topics of benefit to the public health workforce, health care workers as well as interested individuals in the general public. Recent productions include Responding to Bioterrorism: How to Set up Mass Vaccination Clinics, and an important and timely production on Pandemic Avian Flu. Productions and program materials are in both English and Spanish. CDLHN has formed strategic local (San Diego County Department of Health Services), state (California Department of Health Services, Immunization Branch), national (Federal Centers for Disease Control) and international partnerships with academic institutions, private organizations, and government agencies. CDLHN is a leader in distance learning efforts and will continue to make learning without limits a reality.

Visit <http://www.cdlhn.com> to learn more.

**Consensus Organizing Center**

**Michael Eichler, Director**

The Consensus Organizing Center is administered through the School of Social Work. The center's mission is to educate and train a new generation of social workers in community building techniques in order to make them effective catalysts for civic engagement and social change. Through school based programs and community interventions, the center has created an environment for the teaching of consensus organizing skills to social workers, high school students, foster youth, and community leaders. Specific activities include developing a fellowship program for high school students and provide employment opportunities for undergraduate and graduate students.

The center can be contacted at 619-594-4813 or at <http://www.consensus.sdsu.edu>.

**Heart Institute**

**Christopher C. Glembofski, Director**

The Heart Institute is sponsored by the College of Health and Human Services and the College of Sciences. The goals of the institute are to enhance basic and clinical research in the cardiovascular sciences, to foster undergraduate and graduate education in cardiovascular physiology and medicine, and to provide a community outreach service focused at heightening the awareness of cardiovascular disease and its

prevention in the San Diego region surrounding SDSU. The institute is comprised of faculty members representing four different colleges at SDSU, as well as physicians and scientists from local hospitals and clinical research centers. Importantly, the institute also sponsors SDSU undergraduate and graduate student memberships, which strengthens the involvement of students in all aspects of Heart Institute activities. The unusual blend of talent and expertise that comprise the institute membership results in an interdisciplinary approach to cardiovascular research, education and community outreach that is unique to the Heart Institute. The institute sponsors special seminars, on- and off campus, which cover a wide range of topics in the field, and provides funding for the support of graduate students who are involved in cardiovascular research at SDSU. Areas of focus for the institute include studies of the molecular basis of cardiovascular disease, establishment of unique approaches for the early detection and prevention of cardiovascular disease, and the promotion of cardiovascular health in San Diego area K-12 schools. An important feature of these efforts that distinguishes the Heart Institute is the central role that SDSU students play in each of these areas. Funding for Heart Institute activities comes from a variety of sources, including the National Institutes of Health, the American Heart Association, the Muscular Dystrophy Association, the Rees-Stealy Research Foundation, and several San Diego-based biotechnology companies. For more information contact the Heart Institute office at 619-594-5504 or at <http://www.bio.sdsu.edu/heart/sdsuhome.htm>.

**Center for Injury Prevention Policy and Practice**

**David W. Lawrence, Director**

The Center for Injury Prevention Policy and Practice was founded in 1986 and is administered through the Graduate School of Public Health. Its mission is to reduce death and disability from injuries by fostering effective injury prevention programs, policies and systems. Current programs: 1) SafetyLit, a Web-based research literature archive and weekly summary of recent injury prevention research, published in collaboration with the World Health Organization. 2) The California Older Adults Traffic Safety Project involves coordinating a multi-agency, public-private task force charged with developing and implementing a wide range of traffic safety policies. Related activities include developing professional education programs for physicians, nurses, and occupational therapists. 3) The California Maternal and Child Health Injury Prevention Program provides in-depth technical assistance to state and local MCH agencies. 4) The California Conference on Childhood Injury Control is an annual four-day meeting where 60 faculty provide training to approximately 400 people each year. 5) The California Kids Plates Program provides more than \$300,000 annually in grants to regional, county, and local injury prevention programs. 6) The Children's Safety Network Economics and Data Analysis Resource Center serves state health and education agencies to determine the incidence, risk factors, and costs of unintentional injuries and violence to children and adolescents.

Major funding for the Center is through long-term contracts with the US DHHS Health Resources and Services Administration, the California Department of Health and Human Services, and the California Office of Traffic Safety.

Contact the director at [david.lawrence@sdsu.edu](mailto:david.lawrence@sdsu.edu), 619-594-1994, or visit the Web site at <http://www.cipp.org/>.

**Institute for Nursing Research**

**Diane Hatton, Director**

Administered through the School of Nursing, the purpose of the institute is to promote collaboration in the conduct, dissemination, and utilization of nursing research which will contribute to the quality of patient care and service. The institute provides a forum for research interests and activities, and also fosters collaborative research efforts among institute nurse clinicians and SDSU Nursing faculty. This includes identifying research priorities for individual and multi-site research projects, and providing consultation for design, method, analysis, computer services, instrumentation, and manuscript preparation. The institute also facilitates the dissemination of research findings. Additional information is available at <http://nursing.sdsu.edu>.

### **Academy for Professional Excellence**

**Thomas F. Reilly, Director**

**Donald E. Dudley, Co-Director**

The Academy for Professional Excellence, administered through the School of Social Work, was established in 1996 with the mission to provide quality training and organizational support to health and human services agencies in the Southern California Region including the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, and Ventura. The goal of the center is to make university faculty and staff available to public and private social services agencies in the region by providing expertise and technical assistance in curriculum development, in-service training, organizational development, evaluation, and research. The academy develops high quality competency based curriculum on select topics for social services agencies in the region; provides quality training to service providers and administrators employed in social services agencies; engages in research and evaluation to improve the quality, accountability and responsiveness of human service agencies; and, develops highly competent executives in the Southern California region who will have the skills, knowledge, and experience to effectively guide organizational change and development.

The academy has extensive experience in managing contracts with multiple partners and organizations/agencies, providing specialized services, including: curriculum development, multi-disciplinary competency-based trainings, workforce analysis, staff retention consultation, research, organizational development and organizational needs assessments, technical assistance and evaluation. Funding sources are grants and contracts from federal, state, and county government agencies as well as private non-for-profit agencies.

The academy is located at 6505 Alvarado Road, Suite 107, and can be reached at 619-594-3546 or at <http://pcwta.sdsu.edu>.

### **Institute for Public Health**

**Suzanne P. Lindsay, Executive Director**

**Robert L. Seidman, Deputy Director**

Administered through the Graduate School of Public Health, the mission of the institute is to serve as a vehicle for the development and support of functional linkages between the SDSU Graduate School of Public Health, local public health agencies, and private organizations in the San Diego community and neighboring areas, including Mexico. These linkages expand the availability of university-based public health expertise, research and information in the areas of epidemiology, biostatistics, health promotion and behavioral science, occupational and environmental health, maternal and child health, health services management and policy, and global/border health. Specific activities include collaborative research, technical assistance, program evaluation, consultation, continuing education and professional development, student field placement, faculty/practitioner exchange, information dissemination, and various service activities. The institute serves to bridge public health academics and practice by facilitating meaningful partnerships between faculty, students, and local practitioners. The Web site for the institute is <http://iph.sdsu.edu/>.

### **Institute for Public Security and Health (IPSH)**

**Marilyn Newhoff, Executive Director**

The SDSU Institute for Public Security and Health (IPSH) provides an opportunity to build on existing SDSU strengths and facilitate cross-college efforts. The Colleges of Health and Human Services, Sciences, Engineering, Professional Studies and Fine Arts, Business Administration, and Arts and Letters are actively working with each other on many aspects of public security and health.

The institute provides an interdisciplinary vehicle by which the colleges and programs collaborate in research and teaching related to prevention, preparedness, response, and recovery for natural and man-made disasters. The institute also includes a focused response group that can provide tangible assistance to regional and global disaster response efforts. In this way, the participants from both the university and the community directly and strategically impact regional and global preparedness and response efforts, and provide positive leadership through this service.

The primary mission of the IPSH addresses public security and health issues, particularly those requiring educational, scientific, technical, and analytical expertise, and translates them into immediate application and service to the community. With the new Homeland Security master's degree and the Global Emergency Preparedness and Response master's degree, SDSU has two premier academic programs that specifically link faculty, staff, and students to the educational preparation for addressing disasters, both man-made and natural, for actual response from planning to implementation and evaluation.

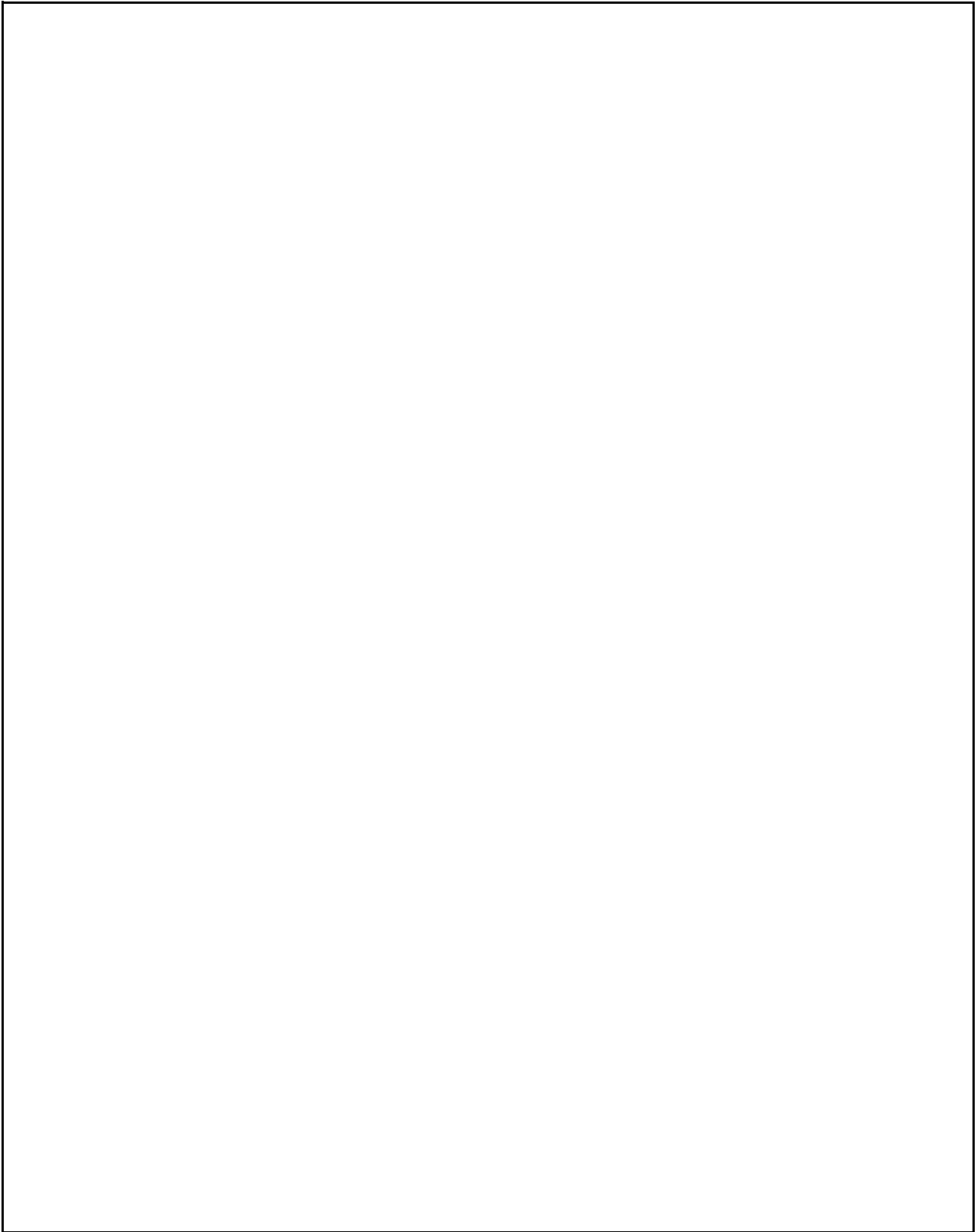
By focusing on the planning, action-oriented preparation, and rapid deployment of capabilities for such emergencies and disasters, SDSU is able to provide critical assistance and engage with our campus community and beyond. These activities build regional and global capacities and capabilities to better respond to, and recover from, emergencies and disasters. In addition, SDSU makes connections among countries and assists people and groups in disaster-torn regions, on an ongoing basis. The institute serves as the umbrella entity to house the Center for Homeland Security Technology Assessment (College of Sciences).

### **Social Policy Institute**

**Loring Jones, Coordinator**

Administered through the School of Social Work, the mission of the institute is to assist local, state and regional public and private sector leaders in the development of policies and programs that focus on family and community well-being. The institute is particularly focused on prevention programs that reduce adverse outcomes for vulnerable individuals, families, and communities. To this end, we assist with community needs assessments, as well as program development and evaluation. The Social Policy Institute has prepared a training manual and CD-ROM for home visitors and case managers working with vulnerable families and has recently conducted community needs assessments surveys in Baja California Sur for the purpose of policy and program development. A computerized information system to provide decision and evaluation support to human services agencies has been developed and is available through the San Diego State University Research Foundation Technology Transfer Office.

Visit the SPI Web site at <http://www.sdsu-spi.org> for additional information.



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# College of Professional Studies and Fine Arts

## Administration

Dean: Joyce M. Gattas

Associate Dean: Kathryn J. LaMaster

Assistant Dean for Student Affairs: Randi E. McKenzie

Director of Development: Mariel Berry

Director of Human Resources: Sonia Wright

## General Information

The College of Professional Studies and Fine Arts is committed to the pursuit of excellence in academic and artistic endeavors geared to enhancing the human enterprise. Composed of 11 departments and schools, the college is recognized for its excellent academic programs that create a bridge between university and community life by preparing students for professional careers in a wide spectrum of cultural, educational, social, economic, and technical fields.

The college houses the schools of Art, Design, and Art History; Communication; Exercise and Nutritional Sciences; Hospitality and Tourism Management; Journalism and Media Studies; Music and Dance; Public Affairs; Theatre, Television, and Film. The college also houses three ROTC programs which lead to commissioned officer status upon graduation. The Center for Hospitality and Tourism Management, the Institute of Public and Urban Affairs, the Production Center for Documentary and Drama, and the Institute for International Security and Conflict Resolution are the research centers that offer the campus and San Diego communities unique instructional opportunities and research.

The College of Professional Studies and Fine Arts is at the forefront of meeting and integrating the needs of community, corporate, government and educational goals. The college is uniquely positioned because of its dedication to and appreciation of traditional and non-traditional forms of scholarship and research reflecting a demographically changing society through its curriculum, research and outreach activities. Interdisciplinary collaboration is the hallmark of the college's academic programs, research and creative activity that enrich the quality of life, provoke the status quo, enhance understanding of cultural diversity and are at the cutting edge of technology.

## Curricula Offered

Refer to the courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Professional Studies and Fine Arts.

### Master's Degrees

Art (M.A., M.F.A.), City Planning (M.C.P.), Communication (M.A.), Criminal Justice and Criminology (M.S.; jointly with the College of Arts and Letters), Exercise Physiology (M.S.), Kinesiology (M.A.), Music (M.A., M.M.), Nutritional Sciences (M.S.), Nutritional Science and Exercise Physiology (M.S./M.S.), Public Administration (M.P.A.), Television, Film and New Media Production (M.A.), Theatre Arts (M.A., M.F.A.).

### Bachelor's Degrees

Art (B.A.), Communication (B.A.), Criminal Justice (B.S.), Dance (B.A., B.F.A.), Foods and Nutrition (B.S.); Hospitality and Tourism Management (B.S.), International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Sciences), Journalism (B.A.), Kinesiology (B.S.), Music (B.A., B.M.), Public Administration (B.A.), Recreation Administration (B.S.), Television, Film and New Media Production (B.S.), Theatre Arts (B.A.), Urban Studies (B.A.).

## Minors

Advertising, Aerospace Studies, Art, Art History, Communication, Dance, International Security and Conflict Resolution (jointly with the College of Arts and Letters and the College of Sciences), International Studies, Journalism, Military Science, Music, Naval Science, Public Administration, Public Relations, Recreation, Television, Film and New Media, Theatre Arts.

## Military Curricula

Aerospace Studies, Military Science, Naval Science

## Certificate Programs

Artist Diploma, Museum Studies, Performance, Public Administration (available at Imperial Valley Campus only), Transborder Public Administration and Governance (available through Extension only)

## Research Centers and Institutes

### Center for the Visual and Performing Arts

The Center for the Visual and Performing Arts initiates and supports nationally and internationally recognized arts programs that inspire, engage, and enrich the university and the region through residencies, artistic alliances, and collaboration. Through grant support, the center (1) integrates the arts on campus by designing collaborative courses across the arts and other disciplines; (2) brings internationally known artists to perform and exhibit, to conduct master classes and workshops, and to offer lectures to students, faculty, and the San Diego arts community; (3) initiates outreach programs throughout the community, and; (4) explores important issues and themes through educational opportunities, business forums, and artistic research.

### The J. Willard and Alice S. Marriott Foundation Student Center for Professional Development

Brian P. Blake, Director

The J. Willard and Alice S. Marriott Foundation Student Center for Professional Development is housed in the School of Hospitality and Tourism Management (HTM). The center provides support for internship programs related to the hospitality industry. It assists HTM students in finding internships and job placement through workshops, focus groups, and continuing conversations with industry leaders. Every HTM student spends two semesters working with the center, and again uses center resources at graduation. This experiential learning builds professional competencies which enhance effectiveness when students enter the workforce. The center serves as a testing ground to determine an individual's competence before hiring as a permanent employee.

### Center for Hospitality and Tourism Research

Carl Winston, Director

The Center for Hospitality and Tourism Research is an education and research center dedicated to the study and application of professional principles in the broad field of hospitality and tourism. The mission of the center is to enhance the skills and knowledge of professionals and students in the field of hospitality and tourism management through the creation and delivery of initiatives in executive development, research, and curriculum innovation.

Programs associated with the center focus on identifying "best practices" in all aspects of hospitality and tourism such as hotel operations, restaurant operations, global tourism, and events, conventions and attractions management. The center's mission is pursued in multiple venues, including private, public, and not-for-profit agencies. Our vision is to become the leading center for hospitality and tourism management education in Southern California and a prominent national and international resource for questions related to education in hospitality and tourism. The center actively seeks to support SDSU, the College of Professional Studies and Fine Arts, and members of the local and national community in matters related to hospitality and tourism.

Contact the center in Professional Studies and Fine Arts, Room 436 or at 619-594-4964.

**Sycuan Institute on Tribal Gaming**  
**Katherine Contreras, Director**

The Sycuan Institute on Tribal Gaming focuses on research, policy studies, and education related to the area of tribal gaming management. The institute, centered in the largest tribal gaming community in the world, is geared to studying tribal gaming within the broader industry of hospitality and tourism management. The functions of the institute include (1) the conduct of timely and innovative research in tribal gaming such as governance, community and regional impact, marketing, tribal gaming operations, trends, etc.; (2) the collection of benchmarking data in order to develop "best practices" in tribal gaming; (3) the creation of an annual summit on tribal gaming that addresses policy, regulatory issues, trends, social issues, etc.; (4) the implementation of an annual community lecture or symposium on topics geared to informing and engaging the community about tribal issues and community conflicts, and; (5) educating students, professionals, tribal personnel, and interested others for positions in the tribal gaming industry. The institute will facilitate the involvement of faculty with expertise from a variety of disciplines such as mathematics, computer science, policy studies, business, marketing, and public relations in the process of creating and disseminating new knowledge in the area of tribal gaming. The institute is managed and operated by the School of Hospitality and Tourism Management and supported by an endowment from the Sycuan Tribal Council of the Kumeyaay Indians. Visit <http://htm.sdsu.edu/sycuan/index.html> for details.

**Institute of Public and Urban Affairs**  
**Mounah Abdel-Samad, Interim Director**

The Institute of Public and Urban Affairs is located in the School of Public Affairs. The institute was established to conduct research in community and governmental affairs and to sponsor conferences, colloquia and symposia related to issues in public administration and affairs including urban planning, management, and criminal justice administration. The institute also publishes occasional working papers and research monographs. Selected students and faculty of San Diego State University staff the institute. An integral part of the institute is the Public Administration Center which contains a specialized and growing collection of research materials emphasizing issues in public affairs particular to San Diego and California. Visit the Web site at <http://spa.sdsu.edu/ipua.html> for additional information.

**Institute for Meetings and Events**

The Institute for Meetings and Events is focused on education and research dedicated to the application of professional principles in meetings and events. The mission of the institute is to enhance the skills and knowledge of students and professionals in this discipline.

The institute creates and delivers initiatives in executive development, research, and curricular innovation. It also offers symposia and similar forums to stimulate dialogue and discussion on key issues and to share knowledge in this new and dynamic discipline. The institute's

functions include the conducting of timely research and innovation; collecting benchmarking data for "best practices"; creating symposia and community events; and educating students and others in the professions in meetings and events.

The institute involves faculty with expertise in a variety of disciplines such as project management, business, public relation, advertising, graphic design, communications, nutrition, and theater to create and disseminate new knowledge in the area of meetings and events.

**Theatre, Youth, Media, and Education (TYME) Arts Center**  
**Danielle J. Bedau, Director**

The Theatre, Youth, Media, and Education (TYME) Arts Center embraces a variety of unique programs, creative projects, research-based initiatives, and artistic production hosted by the School of Theatre, Television, and Film. The purpose of the center is to (1) engage SDSU students, current and future educators, young people, and leaders, in theatre and media arts education, in an on-going discussion of pertinent, relevant, and cutting-edge issues in fields such as Theatre for Young Audiences (TYA) and Youth Arts aesthetics, community-building and ethics and current methodologies; (2) train the next generation of theatre and media arts educators to both practice and analyze current trends and methods in the field of theatre and media arts education; (3) ignite creativity and a passion for the arts in our audiences through touring productions, the annual Theatre of the World Festival, and other theatrical and media production, and; (4) conduct original research and evaluation related to the field, and disseminate these findings on the center's Web site at <http://tyme.sdsu.edu/>.

**Production Center for Documentary and Drama**  
**Jack Ofield, Director**

The Production Center for Documentary and Drama is located in the School of Theatre, Television, and Film and is the professional production arm of the university. The center mentors graduate students in media in the creation of projects that promote their artistic and technical growth, and works with global film schools, film institutes, and filmmakers in the production of its long-running, international TV series, "The Short List," showcasing short films. The center interfaces with local, state, and national entities in the creation of films and television programs in the arts, humanities, and sciences, including distribution on public and cable television. These projects provide senior and graduate students with professional opportunities to work in key capacities, such as writing, directing, camera crew, editing, and production design.

For more information, visit the Web site at <http://www.rohan.sdsu.edu/dept/socgrad/TFM/productioncenter.html>.

**Center for the Study of Women in Television and Film**  
**Martha M. Lauzen, Director**

The Center for the Study of Women in Television and Film is the nation's first program dedicated solely to the study and discussion of women's representation on screen and behind the scenes in television and film. The purpose of the center is to (1) engage students, faculty, and individuals working in the industry in an on-going discussion regarding the portrayals of girls and women in television and film and women's employment behind the scenes; (2) heighten the profile of women's representation in television and film as a public policy issue and concern; (3) train the next generation of scholars to analyze media images of women, and; (4) conduct an expanded agenda of original research on women's representation in television and film that has both practical and theoretical import.

To learn more, visit <http://womenintvfilm.sdsu.edu>.

**Center for Optimal Health and Performance (COHP)**

The Center for Optimal Health and Performance (COHP) is a service unit within the School of Exercise and Nutritional Sciences. The center provides services to community members in the assessment of bone health and occasionally other areas such as physical fitness, diet, and cardiovascular risk. COHP is a co-sponsor with the Aztec Recreation Center to provide supervised exercise programming for adults, focusing especially on the middle and senior years. Target populations include (1) people interested in improving their physical fitness, physical activity, and nutritional behaviors, and; (2) people seeking advice to prevent inactivity related chronic diseases. Committed to the promotion and support of active living and healthy eating, the center serves as an educational medium for undergraduate and graduate students to gain hands-on experience in exercise and nutritional assessments, counseling, and exercise leadership. COHP operates cooperatively with the SDSU Center for Behavioral Epidemiology and Community Health and in collaboration with the Bone Health Unit.

Learn more about the center at <http://www.cohp.sdsu.edu>.

**Dr. Sanford I. Berman Institute for Effective Communication and General Semantics**

**Brian H. Spitzberg, Director**

The Dr. Sanford I. Berman Institute for Effective Communication and General Semantics within the School of Communication is dedicated to the scholarly study of language and its relations among our symbolic activities, society, and the mind. Specifically, the institute is devoted to the assessment, investigation, and enhancement of communication processes in applied contexts.

**Institute for the Study of Intercollegiate Athletics (ISIA)**

**Roger W. Caves, Director**

The Institute for the Study of Intercollegiate Athletics (ISIA) is a research center focused on the use of survey research methods to obtain much needed data about issues concerning intercollegiate athletics and issues associated with intercollegiate athletes. Clients include universities, athletic conferences, foundations, media outlets, and other private sector concerns. A complete range of services is available to include: survey instrument design, sampling, data collection, data reduction and analysis, summary report of findings.

**Institute for Leisure and Tourism Management**

**Vinod Sasidharan, Director**

The Institute for Leisure and Tourism Management is a research and community service unit within the School of Hospitality and Tourism Management. It is primarily concerned with conducting leisure, recreation, and tourism related research, promoting professional development, sustainable practices, multicultural experiences, healthy lifestyles, disseminating specialized publications, organizing conferences, seminars, lectures and workshops.

The institute administers a variety of service programs within San Diego County. Camp Able at Coronado, an aquatic-based camp for disabled children and adults, operates ten weeks during the summer at Silver Strand State Beach. The Spring Valley R.E.A.C.H. Program, funded by Social Advocates for Youth, provides recreational and educational activities for children and youth. Additionally, the institute conducts research for local tourism, park and recreation entities as well as the California Department of Parks and Recreation, United States Forest Service, and the National Park Service. The institute publishes monographs focusing on important issues relative to leisure and tourism services delivery. These are available to the public, as well as tourism, park, and recreation practitioners.

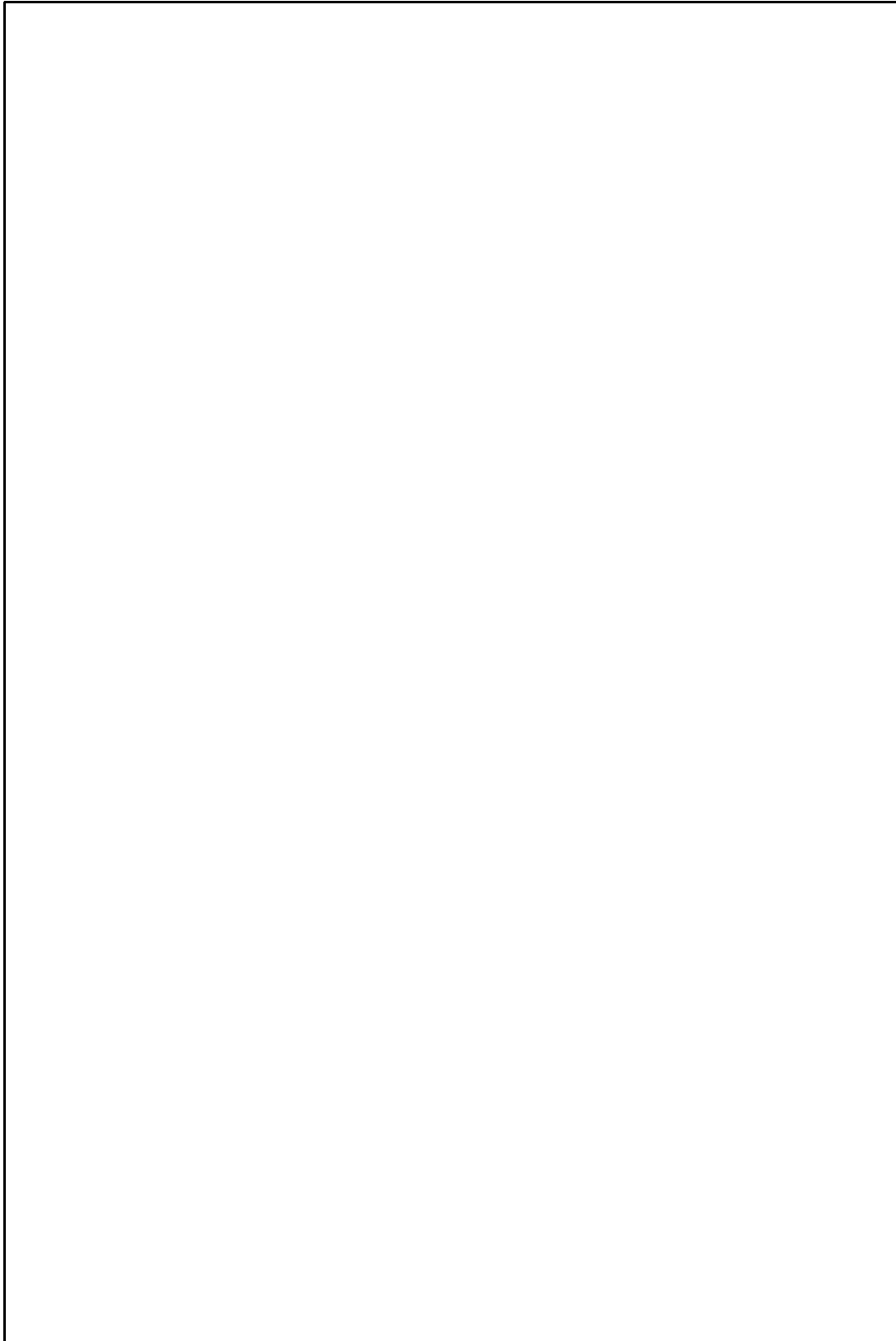
To learn more about the institute, visit the Web site at <http://rtm.sdsu.edu/research/institute.html>.

**The Watchdog Institute**

**Lorie Hearn, Executive Director**

The Watchdog Institute is housed in the School of Journalism and Media Studies. The institute is an independent, non-profit organization whose mission is twofold: (1) to produce investigative, data-driven journalism that informs the citizens of San Diego and Imperial counties and (2) to help develop the investigative journalists of the future. Through internships and other mentoring opportunities, the institute offers ways to enhance the learning experience of journalism students at San Diego State University. The institute is collaborative, not competitive, and seeks to distribute its work across multiple media platforms – print, broadcast and online – throughout the region. The institute is nonpartisan and does not engage in political advocacy. The Web site is <http://watchdoginstitute.org/>.





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# College of Sciences

## Administration

Dean: Stanley R. Maloy

Associate Dean for Graduate and Research Affairs: Patrick J. Papin

Associate Dean for Academic and Faculty Affairs: Catherine J. Atkins

Assistant Dean for Student Affairs: Estralita Martin

Director of Development: Pam Becker

Director of Resource Management: Julie Mitsven

## General Information

The College of Sciences, composed of eight departments and various subprograms, offers bachelor's, master's, and doctoral degrees, and curricula for preprofessional students in medicine, veterinary medicine, and dentistry. The science curriculum is enhanced by research centers which provide field experience as well as special seminars with guest speakers. The off-campus sites include the Mt. Laguna Observatory, and about 5,000 acres in four biological sciences research stations. The majority of tenured Sciences faculty have active research programs which offer student involvement.

## Curricula Offered

Refer to the Courses and Curricula section of this catalog for a complete listing of program requirements and courses offered by departments within the College of Sciences.

### Doctoral Programs

Biology (Cell and Molecular), Chemistry, Clinical Psychology, Computational Science, Ecology, Evolutionary Biology, Geophysics, Mathematics and Science Education.

### Master's Degrees

Applied Mathematics (M.S.), Astronomy (M.S.), Biology (M.A., M.S.), Biomedical Quality Systems (M.S.), Chemistry (M.A., M.S.), Computational Science (M.S.), Computer Science (M.S.), Geological Sciences (M.S.), Homeland Security (M.S.), Mathematics (M.A.), Microbiology (M.S.), Physics (M.A., M.S.), Psychology (M.A., M.S.), Radiological Health Physics (M.S.), Regulatory Affairs (M.S.), Statistics (M.S.).

### Bachelor's Degrees

Astronomy (B.S.), Biology (B.A., B.S.), Chemical Physics (B.S.), Chemistry (B.A., B.S.), Computer Science (B.S.), Environmental Sciences (B.S.), Geological Sciences (B.S.), International Security and Conflict Resolution (B.A.; jointly with the College of Arts and Letters and the College of Professional Studies and Fine Arts), Mathematics (B.A., B.S.), Microbiology (B.A., B.S.), Physical Science (B.A.), Physics (B.A., B.S.), Psychology (B.A.), Statistics (B.S.).

### Minors

Astronomy, Biology, Chemistry, Computer Science, Energy Studies, Geological Sciences, History of Science and Technology, International Security and Conflict Resolution (jointly with the College of Arts and Letters and the College of Professional Studies and Fine Arts), Mathematics, Oceanography, Physics, Psychology, Statistics.

### Certificate Programs

Biomedical Quality Systems, Biotechnology, Communications Systems, Geographic Information Science, Industrial/Organizational Psychology, Mathematics Specialist, Professional Computational Science, Regulatory Affairs, Single Subject Mathematics.

### Preprofessional Curricula

Allied Health, Predental, Premedical, Preoptometry, Prepharmacy, Prephysician Assistant, Prepodiatry, Preveterinary.

## Research Centers and Institutes

### Edwin C. Allison Center for Earth System History

**Stephen Schellenberg, Director**

Throughout the history of science, many of the critical breakthroughs in scientific understanding have resulted from cross-disciplinary research. The mission of the Allison Center for Earth System History is to foster this approach across the fields of paleontology, paleoclimatology, geochemistry, sedimentology, and organismal biology. The center seeks to facilitate research designed to improve and disseminate our understanding of global climate change and biodiversity, arguably the two most important topics facing current and future generations. Research materials of the co-directors and their students form the core of an in-house reference and systematics collection, including Cretaceous to Recent Ostracodes from globally distributed ocean drilling sites and Ordovician, Devonian, and Carboniferous brachiopods and associated communities from the Appalachian Basin, the Great Basin, the Ohio Valley, and the mid-continent. Scholarly examination of these and other materials by SDSU students, faculty, and guests (e.g. visiting students, faculty) are supported through dedicated research space and facilities, including image analysis, carbonate microsampling, and hydrodynamics flume systems.

For more information about the center, visit the Web site at <http://www.geology.sdsu.edu/facilities/allisonctr/>.

### Center for Behavioral and Community Health Studies (BACH)

**John P. Elder, Director**

**Guadalupe X. Ayala, Elva Arredondo, Linda C. Gallo, Enrico Marcelli, Simon Marshall, Joni A. Mayer, Gregory A. Talavera, Senior Core Investigators**

The Center for Behavioral and Community Health Studies (BACH) is located at 9245 Skypark Court, Suite 221, San Diego, CA 92123. The center was founded as The Center for Behavioral Medicine in 1982 for the purpose of promoting research and academic programs relevant to the applications of behavioral science principles to medicine and health care.

The center has 10 investigators from four different colleges. The interdisciplinary center encourages participation from all of the university colleges and departments. Active investigators are from the Graduate School of Public Health, the School of Exercise and Nutritional Sciences, and the Departments of Psychology and Sociology. Center projects involve collaboration between scientists and clinicians from a variety of specialties, as well as a variety of other institutions, many of which emphasize Latino health. Funding for the center comes from National Institutes of Health, Centers for Disease Control, the State of California, and private foundations.

The center provides important research experiences to diverse students who intend to pursue related careers and offers opportunities for project staff and graduate students to participate in community interventions. The Web site is <http://www.sdsbach.org>.

### Center for Behavioral Teratology (CBT)

**Edward P. Riley, Director**

**Sarah N. Mattson, Associate Director**

Teratology is the study of birth defects. The faculty and students at the Center for Behavioral Teratology (CBT) are interested in how prenatal exposure to various drugs influences both brain and behavioral development. Additionally, members of the center engage in research related to the general neurotoxicity of alcohol as well as the study of other birth defects and disorders. The CBT is truly an interdisciplinary research organization, with a broad range of basic and clinical research interests. While the primary purpose of the CBT is to promote research in teratology, personnel in the center also act as a resource to the university and the community. The staff provides in-service talks at local hospitals, schools, and drug treatment facilities, as well as lectures to various classes at the university. The CBT staff has active collaborations with faculty from UCSD, the VA Hospital, Children's Hospital, and the Scripps Research Institute. Faculty in the center have grants from the National Institutes of Health, Tobacco-Related Disease Research Program, and the State of California.

## Center for Bio/Pharmaceutical and Biodevice Development E. Dale Sevier, Director

The Center for Bio/Pharmaceutical and Biodevice Development focuses on education and training specifically applicable to the research, development, process development, manufacturing, and marketing of FDA regulated pharmaceutical, biologic and medical device products. Faculty and courses from departments within the Colleges of Sciences and Business Administration are integrated with the center's programs to provide students with a broad understanding of science and management issues that exist in the biomedical industry work environment. The center's programs particularly address the research and workforce needs of biotechnology companies as their initial product development projects progress from R&D into clinical research, process development, and manufacturing. The Master of Science in Regulatory Affairs was the first degree program developed and offered by the center. This program addresses overarching legal, ethical, and regulatory requirements that impact the development, manufacturing, and commercialization of biomedical products.

A second, newer Master of Science in Biomedical Quality Systems degree program is being offered by the center. With a focus on the quality aspects of development, manufacturing, and commercialization of biomedical products, it strongly complements the regulatory affairs program and the two programs share some elective courses. Both of these programs also offer a certificate to those students interested in obtaining a foundational understanding, through successfully completing four basic courses.

Internet-based, distance teaching technologies are used to make the center's education and training programs more widely available to individuals outside of the San Diego area, and this also facilitates the training of industry professionals who often find themselves traveling worldwide on company business. The center is also engaged with regional economic development and workforce development issues and the future acquisition of new training and research facilities. The center interfaces extensively with the California State University Program for Education and Research in Biotechnology (CSUPERB).

Visit <http://interwork.sdsu.edu/cbbd/aboutus.htm> for additional information.

## Coastal and Marine Institute Todd Anderson, Director

The Coastal and Marine Institute provides a focus for marine science education and research at SDSU. The institute assists departments within the university in the development of instructional, research, and public service aspects of coastal and programs and provides supporting services, including advising students, facilitating faculty and student research, operating the SDSU Coastal and Marine Laboratory, and acting as a liaison with other institutions, agencies, and the community. The institute is operated as a special unit of the College of Sciences and is administered by a director and an advisory council consisting of faculty members from participating departments. Additional information about marine studies is available from the Coastal and Marine Institute director or from the office of the dean of the College of Sciences.

The Web site is <http://www.sci.sdsu.edu/CMII/>.

## Computational Science Research Center (CSRC)

José E. Castillo, Director  
Andrew L. Cooksy, Eugene A. Olevisky,  
and Paul J. Paolini, Associate Directors

The Computational Science Research Center (CSRC) promotes the development and advancement of the interdisciplinary subject of computational science. This is accomplished by fostering research, developing educational programs, and promoting industrial interaction, outreach, and partnership activities.

The center provides an environment for scientific research at San Diego State University. It facilitates the interaction between applied mathematics, computer science, and other disciplines by providing the necessary infrastructure for productive research efforts. Real world applications are the focus of faculty and student projects. These projects provide an educational opportunity for students to hone industrially relevant computational skills.

The goals of the center are to encourage and facilitate research in computation, simulation, visualization, and numerical modeling in all disciplines (business and finance, biology and bioinformatics, engineering, physical sciences, and geography); to interact with other centers, laboratories, universities, and local industry; reduce lag time

between algorithm development/analysis and applications; to participate in programs with other countries, including international programs sponsored by the National Science Foundation; to arrange visits by professors, including foreign visitors on sabbaticals and professional staff on industrial sabbaticals; to arrange part time and adjunct appointments for consulting activities by professional staff from local research laboratories; to provide employment, experience, and contacts for students; to sponsor conferences, workshops, and courses; to facilitate collaboration with government laboratories with private sector; to provide bridges to regional industry; and to direct the computational science program at San Diego State University.

Interested students and faculty may obtain more information by contacting the CSRC at 619-594 3430 or <http://www.sci.sdsu.edu/csdc>.

## Institute for Ecological Monitoring and Management

The Institute for Ecological Monitoring and Management (IEMM) provides a productive, interdisciplinary, and collaborative environment for research directed at developing new approaches, techniques and models for ecological monitoring and management. It engages in applied research that conducts science in service of policy and management, and works to translate science for policy makers and the larger community.

IEMM serves as a nexus to promote inter-department and inter-college research initiatives and facilitates the incorporation of academic and scientific expertise and involvement into relevant restoration, conservation and monitoring projects in the greater San Diego area. Its mission is to create an internationally and nationally recognized research entity. IEMM has three primary goals: research, training, and community service.

## Center for Energy Studies (CES)

Alan R. Sweedler, Director

The San Diego State University Center for Energy Studies (CES) facilitates, promotes and supports research and academic programs relating to energy, with particular emphasis on energy matters of concern to the greater San Diego region including the international border with Mexico. The center encourages interdisciplinary research and instructional programs in the broad areas of energy modeling, technology assessment of energy systems, local energy policy planning and data collection relating to energy usage in the San Diego region. SDSU offers through the CES an interdisciplinary minor in energy studies. Completion of the minor will give the student a broad understanding of the technical, economic, social, and political aspects of energy issues. The CES is closely integrated with the environmental sciences program, which offers a Bachelor of Science degree through the College of Sciences and the recently established SDSU Center for Sustainability. The CES works closely with local and state agencies concerned with energy policy and planning, and serves as a community resource in matters concerning local energy issues, and the impact of energy use of the environment.

For more information call the CES at 619-594-1354.

## Field Stations Program

Patrick J. Papin, Interim Director

The Field Stations Program provides opportunities for a broad community of students and faculty to explore the natural ecosystems of southern California. In addition, the field stations serve SDSU by functioning as a liaison to broader public community, highlighting SDSU's expertise regionally, nationally, and internationally. The Field Stations Program manage almost 9,000 acres of San Diego and Riverside county land for university teaching and research.

SDSU currently has four field stations: the Sky Oaks Field Station, 1,640 acres of high elevation redshank chaparral habitat in the Chihuahuah Valley east of Temecula Valley; the Santa Margarita Ecological Reserve (SMER), a 4,464 acre reserve located along the upper Santa Margarita River inland from Camp Pendleton in San Diego and Riverside Counties; Fortuna Mountain, 231 acres close to the SDSU campus located within Mission Trails Regional Park; and the Tijuana River National Estuarine Research Reserve, a 2,513-acre reserve which serves as an auxiliary field station for SDSU.

Providing research and education opportunities for the future requires detailed knowledge of how changes in the environment outside the boundaries of a certain area affect ecosystem dynamics within that area. As habitat continues to be lost to development, areas such as the SDSU field stations will increase in importance as sites for studying natural ecosystems.

The proximity of sensitive habitats to a rapidly urbanizing landscape makes this region a recognized biodiversity "hot spot." San Diego State University has an extremely dynamic group of scientists (faculty,

researchers, and students) working to understand these unique and threatened ecosystems. Research ranges from the global scale examining global warming and the impacts of increased carbon dioxide on native vegetation to the meso- and micro-scales of chaparral ecosystems dynamics, as well as plant, vertebrate, insect, and fungal diversity. Researchers at SDSU are also increasingly using sophisticated computer modeling and molecular techniques for analyzing environmental change. Natural sciences are the core users of the SDSU field stations. Biology, geography, geological sciences, hydrogeology, and other field sciences are consistent areas of study. There are growing opportunities for interdisciplinary work as well as for nontraditional study in the fields ranging from public health, civil and environmental engineering, recreation, business, and art, to education.

Persons interested in conducting research, instructional use, or access to the SDSU field stations should contact the academic programs of the SDSU Field Stations Program at 619-594-0580 or through the Web site at <http://fs.sdsu.edu/kfi/>.

## Heart Institute

**Christopher C. Glembotski, Director**

The Heart Institute is sponsored by the College of Sciences and the College of Health and Human Services. The goals of the institute are to enhance basic and clinical research in the cardiovascular sciences, to foster undergraduate and graduate education in cardiovascular physiology and medicine, and to provide a community outreach service focused at heightening the awareness of cardiovascular disease and its prevention in the San Diego region surrounding SDSU. The institute is comprised of faculty members representing four different colleges at SDSU, as well as physicians and scientists from local hospitals and clinical research centers. Importantly, the institute also sponsors SDSU undergraduate and graduate student memberships, which strengthens the involvement of students in all aspects of Heart Institute activities. The unusual blend of talent and expertise that comprise the institute membership results in an interdisciplinary approach to cardiovascular research, education and community outreach that is unique to the Heart Institute. The institute sponsors special seminars, on- and off campus, which cover a wide range of topics in the field, and provides funding for the support of graduate students who are involved in cardiovascular research at SDSU. Areas of focus for the institute include studies of the molecular basis of cardiovascular disease, establishment of unique approaches for the early detection and prevention of cardiovascular disease, and the promotion of cardiovascular health in San Diego area K-12 schools. An important feature of these efforts that distinguishes the Heart Institute is the central role that SDSU students play in each of these areas. Funding for Heart Institute activities comes from a variety of sources, including the National Institutes of Health, the American Heart Association, the Muscular Dystrophy Association, the Rees-Stealy Research Foundation, and several San Diego-based biotechnology companies.

For more information contact the Heart Institute office at 619-594-5504.

## Center for Homeland Security Technology Assessment

**Robert W. Welty and Eric G. Frost, Co-Directors**

The Center for Homeland Security Technology Assessment (CHSTA) provides an opportunity to promote ongoing homeland security efforts at SDSU and to facilitate interactions with other groups working in related areas under the umbrella of the Institute for Public Security and Health. The center is a campus-wide research, education, and outreach effort focused on technologies useful for protection against human-generated and natural disasters in the US and countries around the world. The center assesses various technologies to assist first responders and decision makers by providing an unbiased approach for review, testing, and implementation of technological developments. The center works with the community to solve and coordinate solutions to regional issues, and regularly participates in regional homeland security efforts. The center also considers policy issues specifically linked to technologies to promote public safety within constitutional and legal guidelines.

The center promotes collaborations between faculty, staff, and students at SDSU and other universities and agencies to facilitate the development, assessment, and application of new technologies for use in homeland security. CHSTA is particularly focused on technologies such as telecommunications, visualization, optical and wireless networks, sensor networks, and geospatial mapping to provide inputs into large-scale data analysis and situational awareness functionality, which are required to build larger decision-

support and collaboration systems. These applications provide practical solutions to communication, security, surveillance, imaging, database, and data-fusion problems. By integrating technology with language, culture, history, and public policy, the center also helps guide decision makers in the appropriate use of technology and appropriate understanding of vulnerabilities and risks, as well as the complex nature of real-world solutions to security issues. These resources are used to rapidly respond to natural disasters such as earthquakes, tsunamis, hurricanes, fires, and floods on a global basis. They are also useful for building sustainable solutions for avoiding man-made and natural disasters and accelerating business, enhancing the quality of life, and providing international cooperation and educational opportunities.

## Center for Information Technology and Infrastructure

**Eric G. Frost, Director**

The Center for Information Technology and Infrastructure (CITI) was established to promote the vision of transforming and empowering SDSU to take advantage of emerging tools in optical networking, wireless communication, and human-computer interactions through visualization. It nurtures new technologies, builds on existing efforts in environmental monitoring, student safety, transportation studies, law enforcement and first responder interaction, homeland security, collaborative education, Internet technologies, GIS systems, and other high interest areas. Activities extend to many sectors of the community (government, business, academia, non-profit organizations, private citizens) and among different jurisdictions within the region and especially internationally.

CITI is a product of the efforts of the SDSU Visualization Center resulting from community exercise development and participation. Its infrastructure exists in the form of hardware, software, facilities, people, and relationships. Many of these resources were informally gathered through the efforts of the SDSU Viz Center, the SDSU Research Foundation, and relationships with corporations. SDSU has actively collaborated and established partnerships with other academic and medical institutions, law enforcement and military agencies, local, state and federal governmental agencies, and high technology corporations. The center's continuing involvement in community exercises and organizations also results in a strong, collaborative relationship with regional law enforcement and first responder agencies. These efforts promote additional research, resulting in increased awareness and understanding, a higher state of preparedness, and greater safety for our residents across the region and worldwide.

CITI pursues four major themes, which provide a framework for the center and a pathway for diverse projects: homeland security; natural disaster mitigation and response; global sharing of information and collaborative visualizations; and remote sensing and environmental monitoring.

To learn more about the center, visit the Web site at <http://citi.sdsu.edu/>.

## Center for Research in Mathematics and Science Education (CRMSE)

**Ricardo B. Nemirovsky, Director**

The Center for Research in Mathematics and Science Education (CRMSE) is an interdisciplinary consortium of faculty interested in research on substantive questions related to the learning and teaching of science and mathematics. The center currently has members from the faculties of biology, mathematics and statistics, mechanical engineering, physics, policy studies in language and cross-cultural education, psychology, and teacher education. CRMSE is administered by a director and an associate director, who are appointed by the deans of the Colleges of Sciences and Education, in consultation with CRMSE members. Through its activities, CRMSE initiates, encourages, and supports the scholarly pursuit of important theoretical and applied problems in mathematics and science education. CRMSE supports faculty in their current research projects and in the preparation of manuscripts for publication and grant proposals for continued research. The center houses the Doctoral Program in Mathematics and Science Education that is offered jointly by SDSU and the University of California, San Diego. It also houses the Professional Development Collaborative to serve area teachers.

The main office of the center is located at 6475 Alvarado Road, Suite 236, San Diego, CA 92120-5013. For more information, contact 619-594-4696. The center may also be reached via campus Mail Code 1862 and at <http://crmse.sdsu.edu>.

### Center for Microbial Sciences

**Anca M. Segall, Director**  
**Stanley R. Maloy, Associate Director**

The Center for Microbial Sciences is a research center dedicated to the study of microorganisms. The center's mission is to provide a productive, stimulating, and interactive research environment that will lead to rapid progress in the fields of microbial biology. The center integrates multiple scientific approaches to elucidate basic biological principles that helps in combating human health problems caused by microorganisms and stimulates applications of microorganisms in the biotechnology industry.

The center encourages multidisciplinary scientific research by bringing together a group of creative, cooperative investigators with different scientific backgrounds to attack major questions in microbial biology using a variety of experimental approaches. The center also trains scientists to attack important but neglected problems in microbial biology. The close proximity of the Center for Microbial Sciences to a nucleus of biotechnology companies facilitates interactions with industry. The center also collaborates with neighboring institutions with expertise in other biological areas (UCSD, Scripps Research Institute, Salk Institute, Scripps Institution of Oceanography, and others) providing additional intellectual and physical resources.

The primary goals of the center are: *Research* – To attract a group of imaginative, interactive investigators and provide a stimulating environment for productive, innovative research in microbial biology; *Training* – To train a new generation of scientists to solve important problems in microbial biology using innovative experimental approaches; *Outreach* – to provide expertise and facilities for visiting scientists from academia and industry to learn new technologies.

Find out more about the center by visiting the Web site at <http://www.sci.sdsu.edu/~smaloy/CMS/>.

### Microchemical Core Facility (MCF)

**Joan Chen, Director**  
**Forest L. Rohwer and Robert W. Zeller, Co-Directors**

The Microchemical Core Facility (MCF) is a component of the California State University Program for Education and Research in Biotechnology (CSUPERB). The MCF is a state-of-the-art facility that provides DNA sequencing and purification services for cell and molecular biologists associated with any of the 23 CSU campuses. In addition, the MCF provides for CSU faculty access to the most recent advances in computer-assisted analyses of molecular structure. Located on the third floor of the Chemical Sciences Laboratory building and managed by the Department of Biology, the MCF provides state-of-the-art molecular analyses and characterization to CSU scientists for the lowest possible cost, as well as fostering the training of university faculty at all levels in the most recent techniques available in the molecular life sciences. Funding for the establishment and maintenance of the SDSU MCF is derived from the National Science Foundation with matching funds provided by the State of California.

For more information call 619-594-1669 or visit [http://www.sci.sdsu.edu/dnacore/sdsu\\_dnacore.html](http://www.sci.sdsu.edu/dnacore/sdsu_dnacore.html).

### Molecular Biology Institute

**Greg L. Harris, Director**

The Molecular Biology Institute was established to serve interested departments of the biological and physical sciences in the coordination, support and enhancement of research and instruction in the molecular biological sciences. Interests and activities of the MBI encompass all approaches which aim to explain biology at the molecular level. The MBI sponsors a weekly seminar series that facilitates faculty and student interaction with scientists from other institutions. Currently, full members of the institute are drawn from the Departments of Biology, Chemistry and Biochemistry, and the Graduate School of Public Health, and participate in the respective Ph.D. programs. Associate members are drawn from a variety of disciplines that are cognate with the molecular biological sciences. The institute is also constituted as the university unit authorized to administer the master's degree program with an emphasis in molecular biology. The research programs of the MBI members are supported by a variety of agencies including the National Institutes of Health, the National Science Foundation, NASA, the American Heart Association, the American Diabetes Association, the Muscular Dystrophy Association, the Department of Energy, the US Department of Agriculture, and the California Metabolic Research Foundation.

Additional information is available from the MBI office at 619-594-5655 or through the Master of Science degree Web site at <http://www.bio.sdsu.edu/cmb/masters.html>.

### Visualization (Viz) Center

**Eric G. Frost and Robert W. Welty, Co-Directors**

The SDSU Visualization (Viz) Center uses computer visualization and communications to bear on societal problems. The Viz Center is focused on processing and providing data sets to the world for humanitarian assistance disaster relief (HADR) events such as earthquakes, tsunamis, volcanoes, wildfires; as well as poverty, sustainable resources, and first responders in their daily efforts to serve the public. The focus is on being a connecting resource between the campus, community, and the world in bringing together solutions to problems that information technology, imaging, data fusion, visualization, and decision support can assist.

The Viz Center develops and deploys tools for homeland security and works closely with many of the homeland security academic and research groups on campus, at the SDSU Research Foundation (SDSURF), and regionally. The Viz Center provides the physical laboratory function for a DHS multi-year, grant-funded project to the SDSURF Regional Technology Center for the assessment of homeland security technologies, governance structures, and data needs on a regional basis. This effort has led to establishment of a national presence as SDSU becomes a leader in addressing homeland security issues. The Viz Center also collaborates with other institutions in Indonesia, China, Mexico, Africa, Australia, Canada, and Central Asia. We interact with companies to help deploy and develop technologies, especially for response to "all hazards" events.

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# College of Extended Studies

## Functions

The California State University regards the credit-bearing programs offered through Extended Education as integral parts of the institution. These programs are viewed as extensions of the institution's educational services and are in concert with the institution's overall mission and purpose. The programs and courses in Extended Education meet the standards of quality that the institution sets for its other programs and courses, with regard to resources, faculty, level of instruction, evaluation, and support services.

The College of Extended Studies at San Diego State University serves as the principal university liaison with the adult community and provides a wide variety of traditional and nontraditional, credit and noncredit, educational experiences designed to fit the life style and expectations of lifelong learners. Under the direction of the dean of the college, programs are developed and carried out within the divisions of Extension, Professional Development, American Language Institute, and Administrative Services. The programs are operated on a self-support basis since state funds are not provided for Continuing Education activities.

## Open University

Most regular on-campus courses are open to students through enrollment in Open University. Open University courses earn nonmatriculated resident credit and enrollment for students not seeking an advanced degree or advanced certificate and does not require formal admission to the university. Enrollment in courses through Open University is on a space available basis with the consent of the instructor and approval of the chair of the department in which the course is offered. Students pay College of Extended Studies fees for these units. The course repeat policy applies to courses repeated through Open University. Consult the College of Extended Studies or the current *Class Schedule* for complete details on Open University qualifications and registration procedures. A maximum of 24 units earned through Open University, Extension, and credit-by-examination combined may be used toward total units required for the bachelor's degree.

Open University classes may not be taken by the following:

1. Nonmatriculated foreign students (nonresidents from non-English-speaking countries) with a score of less than 550 on the Test of English as a Foreign Language (TOEFL) or its equivalent (80 iBT/213 CBT, 6.5 IELTS).
2. Foreign students with I-20 visas from another university.
3. SDSU matriculated students.
4. Disqualified students – Undergraduate students who have been disqualified from SDSU will not be allowed to attend Open University or classes through Special Sessions until one year from the date of their disqualification. Graduate students will not be allowed for one semester following disqualification.

## Limitations on Open University and Special Sessions Credit

Matriculated graduate students may **not** enroll in courses through Open University.

Students who have not been admitted to the university may enroll in on-campus courses through Open University during the regular semester on a space available basis with the approval of the course instructor and the department chair. Courses taken through Open University prior to admission to the university may be transferred to meet graduate degree requirements with the approval of the graduate adviser and the graduate dean and are normally limited to nine units depending on the degree objective (see Transfer Credit).

Special Session programs are offered through the College of Extended Studies. A matriculated graduate student who is not in a special sessions program may only take courses through Special Session if the course is not being offered through the regular session, if the student must take the course as part of their program of study, and if the course will not be offered again prior to the student's planned graduation date. In these cases, if the student is taking regular session courses, he or she will have to pay special session fees and regular session fees given they are enrolled in the regular session.

## American Language Institute (ALI)

The American Language Institute offers noncredit intensive (18-25 hours per week) English programs throughout the year to students and professionals interested in improving their English proficiency. Students may request conditional acceptance to the undergraduate freshman program at San Diego State University when they apply online to the ALI. This is offered to those applying from abroad who do not have an adequate proficiency in English (80 iBT), but who otherwise qualify for admission to the university. Students who successfully complete level 106 of the ALI's English for Academic Purposes program can request a TOEFL waiver, meaning that with positive recommendations they do not need a TOEFL score for admission to graduate or undergraduate programs at SDSU and several partner colleges.

Programs offered by the ALI are as follows:

### English for Academic Purposes

EAP is a full semester or summer term course for students planning to enter San Diego State or other colleges or universities at the graduate or undergraduate level. Classes are offered in academic reading, writing, grammar, listening/note taking and speaking; as well as in special areas, including TOEFL, GMAT, and GRE test preparation and business topics. In addition, students may choose from over 30 elective course offerings. Another popular course is Pre-MBA which prepares for graduate degrees in business, including MBA.

Highly advanced students may have the option to register for three to six units of SDSU courses in addition to their English classes. Also, students who meet the English proficiency requirement may register for nine to 12 units through ALI's Semester at SDSU and Summer Study Abroad programs.

### Intensive English for Communication

IEC is a 3- to 19-week course designed for students and professionals at all levels who want to develop and improve their practical English skills for professional or personal reasons. Classes include eight hours of oral communication in addition to 12 hours of reading, writing, grammar, and listening per week. Students can choose from a variety of electives, pronunciation clinics, sports, and conversation clubs. Students may specialize in Business for Global Practices (BGP), a non-credit practical program for professionals.

### Teacher Training and Certificate Programs

Teacher training programs include the amTEFL Certificate, for those with little or no previous English language teaching experience who would like to teach English abroad, and the TESL/TEFL seminar for teachers with a minimum of one year of previous English language teaching experience.

### Customized Group Programs

The ALI can offer customized English language programs for special groups in fields such as business, teacher training, law, health care, sports medicine, youth groups, and others. These are offered at our San Diego State University location or on-site in the home country.

### Services

All students at the institute are offered visa and immigration support and assistance, housing assistance, organized group volunteer activities, field trips to popular tourist attractions, counseling for university entrance, health services, and orientation to university life. Many SDSU campus facilities and activities are also available to ALI students.

For the most current and detailed information and to apply, please see the ALI Web site at <http://www.americanlanguage.org> or call 619-594-5907.

### Osher Lifelong Learning Institute

The Osher Lifelong Learning Institute offers instructor-led university inspired courses for people age 50 and better who are interested in meaningful intellectual and social engagement. Classes are held on the SDSU campus during the day and include courses in literature, science, history, music, current events, religion, sociology, and more. Courses are intellectually stimulating without the pressure of grades, tests, or papers. For more information call 619-594-2863, e-mail [osher@mail.sdsu.edu](mailto:osher@mail.sdsu.edu) or visit the Web site at:

<http://www.neverstoplearning.net/osher>

### Travel Abroad Study Programs

The college offers matriculated SDSU students and the general public the opportunity to study language and culture in foreign countries while earning SDSU credit.

For further information call 619-594-6398 or visit the Web site at:

<http://www.ces.sdsu.edu/travel>

### Certificate Programs

A complete listing of certificate programs is in the Curricula Summary section of this catalog.

### Extension Courses

In order to meet the needs of the adult community as well as matriculated students, the college provides a variety of extension courses, workshops, and Open University programs. For the convenience of adult students most courses are scheduled in the evenings or on weekends, on campus or at convenient learning extension centers throughout the service area.

Extension courses are offered each semester in a number of areas including education, business administration, public affairs, and the arts and sciences. Many courses and programs are developed in cooperation with off-campus organizations and groups who have identified specific needs. Many extension courses are now offered online. These courses are listed in a special Extended Studies Catalog published three times a year. Some one-unit weekend courses are also offered throughout the year.

There is no limit on the total number of extension units for which a student may enroll; however, the maximum extension credit which may be used toward SDSU bachelor's degree requirements is 24 units. Courses offered through Extension that are not offered on

campus or are not required in a student's program of study will appear on the SDSU transcript but are not transferable for graduate credit. Graduate students who enroll in these courses normally do so for personal enrichment only. Courses offered through Extension numbered 500-899 may be transferred with the approval of the graduate adviser and the dean of the Division of Graduate Affairs.

For more information, visit <http://www.neverstoplearning.net>.

### Professional Development

The Division of Professional Development provides business and industry with certificates and workshops that are responsive to the training and development needs of their employees. Through the division's activities, participants are kept abreast of the latest process improvement and leadership techniques to help ensure they will add to the productivity and profitability of their organizations.

#### Certificates/Seminars/Workshops

Certificate programs provide career development to meet the needs of the workforce. Certificates are focused on topics relevant to key industry sectors and are recognized by most employers as a significant academic accomplishment.

Examples include casino gaming management, coaching, construction, contract management, human resources, hospitality, Lean Six Sigma, marketing, meeting and event planning, and project management.

In addition, the division develops and coordinates seminars and workshops aimed at increasing the skills of the business professional. These seminars are taught by local and national seminar leaders chosen from the business and academic worlds for their expertise and outstanding teaching ability. Topics addressed cover a wide range of business subjects, such as leadership, supervisory training, marketing, project management, and cultural issues related to global competitiveness.

#### Professional Development Online (PDOL)

Meeting the needs of our students, the College of Extended Studies has developed a wide offering of professional development courses that can be completed on the Internet. Programs are available in key business areas such as leadership, finance, project management, and customer service. These online programs typically consist of five to ten courses, and can be completed at the student's own pace.

#### Tailored On-Site Training

SDSU's Professional Development Division of the College of Extended Studies develops and implements on-site training programs that meet specific needs of the San Diego business community. The programs serve medium as well as large businesses and organizations with topics ranging from team building and communication skills to supervision, leadership, process improvement, and project management. Program advisers and professional consultants are drawn from the academic and business worlds and have extensive practical experience. The programs offer significant value for the time invested and are designed with quality and adaptability to the workplace.



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# Library and Information Access

## Administration

Dean: Jon E. Cawthorne (Interim)

Associate Dean: Mark Stover (Interim)

Director of Access, Administrative Operations and  
Communication: Mark R. Lester

Director of Information Technologies and  
Digital Initiatives: Mark Figueroa (Interim)

Director of Development: (Vacant)

## Library Faculty

Emeritus: Barclay, Cargille, Chan, Coleman, Crisley, Dickinson,  
Dintrone, Goodwin, Goyne, Granrud, Harkányi, Harris, Hoover,  
Johns, Kinsey, Lamb, Leerhoff, Martinez, McAmis, McPhail,  
Murdock, Palsson, Pease, Posner, Rogers, Sandelin, Shira,  
Sonntag, Wilson

Librarians: Baber, Fikes, Harley, Muroi, Perkins, Puerto, Savage, Su,  
Turhollow, White

Associate Librarians: Bliss, Carande, Hall, Jackson, Lamont, Payne,  
Ray, Salem, Sullivan, Tumlin, Weston

Senior Assistant Librarians: Bahde, Jeffery, Jergovic, Kiczek

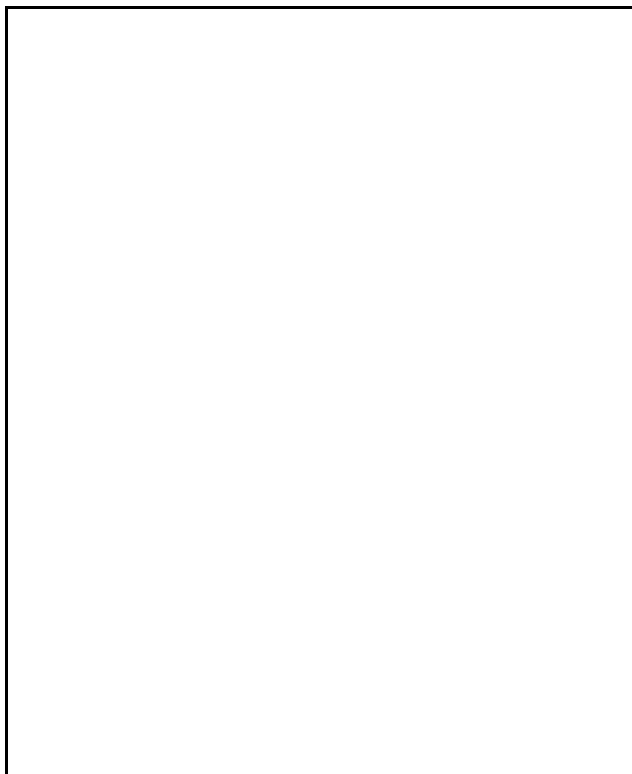
## General Information

Located in the heart of the SDSU campus, Library and Information Access supports the research and curricular needs of the university community through the development of collections and the provision of services designed to facilitate access to information. Voted the best library in San Diego by *San Diego Magazine*, the library was described as "friendly, accessible, modern and usually packed with good-looking, hard-working young people." A new wing for the library was dedicated in 1996, adding a striking library "dome," which quickly became a landmark on campus. The facility itself has become the intellectual intersection for the SDSU campus community, each year offering talks, lectures, tours, and a dozen exhibits. Spanning more than 500,000 square feet, with more than 3,000 seats for study and research, the library's importance to students, faculty, staff, and individuals living in the San Diego region is documented by more than 2.2 million annual visits.

## Access

The library is open to the public 24-hours per day, except on holidays, recess dates, and between 1-7 a.m., when access is restricted to SDSU students and affiliates. The library's Web site at <http://infodome.sdsu.edu/> provides access, within the library and remotely, to the library's catalog, electronic books, and over 79,301 electronic resources. Interlibrary loan services are provided to obtain materials not held in the library. In addition, students and faculty can place unmediated requests for books from San Diego and selected California libraries through Circuit and Link+.

The library's Information Technologies and Digital Initiatives group provides computer accounts to all students and hosts World Wide Web pages for students, the university and the library. It operates one of the largest computer labs in the country with over 700+ computers with Internet/World Wide Web access. Up-to-date computing resources include a student computing help desk and wireless networking throughout the library.



The library has a comprehensive instruction program, which includes course-related instruction and tours. Librarians provide research assistance in person, by telephone, e-mail and online chat. Service desks are located in: Circulation/Course Reserves, Reference Services, Media Center, Current Periodicals and Microforms Center, and Special Collections.

## Holdings

The library's holdings include 1,726,854 monographs and bound periodicals; 630,300 government documents; 4,643,296 microforms; 142,161 maps; 23,525 sound and video recordings; and 6,121 linear feet of archival papers. The library receives 79,301 periodical and serial titles, including government publications. It is a depository for United States and California government publications, and holds selected United Nations publications.

## Special Collections and University Archives

This department houses rare, fine, unique and valuable books, periodicals, manuscripts, and documents which require security and care in handling. The collections consist of approximately 37,000 volumes, 270 archival collections, and 369,000 other items, such as photographs, art prints, postcards, memorabilia, etchings, and oral histories.

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# Imperial Valley Campus

**TELEPHONE: 760-768-5500**

**WEB SITE: <http://www.ivcampus.sdsu.edu>**

## Administration

Dean: Stephen B. W. Roeder

Associate Dean for Academic Affairs: Roger M. Dunn

Assistant Dean for Student Affairs: Miguel Rahiotis

Director of Business and Financial Services: Irma Martinez

Director of Advancement: John Renison

## Faculty

Emeritus: Ayala, Ballesteros, Coates, Elizondo, Fatemi, Garrison, Hill, King, B., Livingston, Medeiros, Merino, Murphy, Polich, Ryan, Varela Ibarra

Professors: Castañeda, Champion, Dunn, Neumann, Reyes, Roeder, Shumaker

Associate Professors: Herrera, Ponce, Ramirez-Pimienta, Sabath, Stampfl, Verzi

Assistant Professors: Ajayi, Altamirano, Boime, Cordero, Rodriguez-Valls, Tuba

Lecturers: Fuentes, Hoyt, Kofford, Martin

## General Information

The Imperial Valley Campus is a branch campus of San Diego State University serving the desert area of southeastern California. It is accredited as an integral division of SDSU and operates under the same academic calendar. Established in 1959 by an act of the State legislature, the campus offers the last two years of undergraduate education, graduate programs, and fifth year credential programs for teacher preparation. In addition, the Imperial Valley Campus offers, as part of its Freshman Scholars Program, first and second year undergraduate education to a select cohort of students planning to major in criminal justice, liberal studies, or psychology. The campus offers students the advantages of smaller classes and individual contact with the faculty. The Imperial Valley Campus faculty are multinational in their classroom orientation and background. Interactive television provides students in Calexico the opportunity to participate in some classes broadcast live from the campus in San Diego. The Imperial Valley Campus schedules many of its classes in three-hour blocks so that students who work full time can earn 9-12 units a semester by attending classes once or twice a week. Occasional classes are also offered on the weekends.

Imperial County has a population of approximately 160,000 people. SDSU-Imperial Valley Campus is located on two sites, Calexico and Brawley. Calexico is 120 miles east of San Diego, 60 miles west of Yuma, Arizona and 120 miles south of Palm Springs. Interstate 8 and State Highways 111 and 86 connect the County to the rest of the country and state. The Calexico location, six blocks from the Mexican border, provides the opportunity for involvement in a bicultural environment. Just across the border is Mexicali, a city of more than one million people. The Brawley location is 24 miles north of the Calexico site. It is surrounded by rich agricultural fields, as agriculture is the largest industry in the Imperial Valley.

Student clubs, student government, lectures, art exhibits, and musical events enhance education for the approximately 1,000 students at SDSU – Imperial Valley Campus.

## Curricula Offered

### Master's Degrees

Master of Arts in Education

Concentration in Educational Leadership

Concentration in Elementary Curriculum and Instruction

Concentration in Secondary Curriculum and Instruction

Master of Public Administration (in cooperation with the San Diego campus)

Master of Science in Business Administration (in cooperation with the San Diego campus)

Concentration in International Business

No applications for the Fall 2010 semester will be accepted for the Master of Science in Business Administration with a Concentration in International Business at the Imperial Valley Campus.

## Admission to the Degree Curriculum

### Bachelor's Degrees

Criminal Justice (B.S.)

English (B.A.)

History (B.A.)

International Business: Latin America and North America

emphases (B.A.)

Latin American Studies (B.A.)

Liberal Studies (B.A.)

Mathematics (B.A.)

Psychology (B.A.)

Public Administration (B.A.)

Registered Nurse - Nursing Program (B.S.; in cooperation with the San Diego campus)

Social Science (B.A.)

Spanish (B.A.)

### Minors

English

History

Linguistics

Mathematics

Political Science

Psychology

Public Administration

Small Business Management

Spanish

### Certificate Programs

Business Administration

Public Administration

Single Subject Mathematics

Translation Studies

### Teaching Credentials

#### Basic

Multiple Subject Teaching Credential

Multiple Subject Bilingual Cross-Cultural Language and

Academic Development (BCLAD): Spanish

Single Subject

#### Specialist

Administrative Services

Special Education (in conjunction with the College of Education)

Mild/Moderate, Moderate/Severe.

For further information on any of these degrees, see the SDSU – Imperial Valley Campus Bulletin.

## **Freshman Scholars Program**

The Freshman Scholars Program offers an opportunity for a small, select cohort of students to join their intellectual peers in a four-year university program. The courses are designed to stimulate students with excellent academic skills who seek knowledge and new perspectives. The first year curriculum provides a foundation for several majors on our campus, currently criminal justice administration, liberal studies, or psychology.

## **Exchange Programs and Study Abroad**

Graduate and undergraduate students at the SDSU-Imperial Valley Campus can enhance their education and cultural awareness by taking part in several of the many opportunities available to study abroad. The campus has active exchange agreements with universities in Argentina, Brazil, Ecuador, Finland, France, Germany, Iran, Mexico, and Paraguay.

In addition to the Imperial Valley Campus' own international programs, students may participate in any international program at SDSU, including the California State University International Programs; the SDSU spring semester programs; or the International Student Exchange Program (ISEP) Consortia.

## **Research Center**

### **Center for Individual and Professional Skills Development Suzanna Fuentes, Director**

The Center for Individual and Professional Skills Development at San Diego State University-Imperial Valley Campus offers community programs to the Imperial and Mexicali valleys. The center presently offers English as a Second Language (ESL) in the local community and in Mexico, a teacher training program. Additionally, the Center for Individual and Professional Skills Development presents annual conferences including the Bi-national Conference on Education and the Bi-national Youth Leadership Conference.

## **Facilities**

The Calexico campus is located on an eight-acre city block in the heart of Calexico's civic center along the Mexican border. The campus facilities create a pleasing architectural harmony of old and new structures surrounding a spacious central lawn area, the Rollie Carrillo Quad. Adjoining the quad, the expanded library, Rodney Auditorium, and John Stepling Art Gallery provide academic and cultural resources for the entire community. Other buildings include classroom buildings, the administration building, faculty offices, computer labs, a bookstore, and the Student Union. The Brawley campus is a showcase of the latest instructional technologies, including a computer classroom, a video conference classroom, full computer and Internet presentation capabilities in all classrooms, as well as a computer laboratory for students to research and study individually or in groups.

The library, located at the Calexico site, is designed to facilitate research and to provide a pleasant atmosphere for study. The collection is expanding and has more than 110,000 volumes, periodicals, and newspapers which support the curricula offered on the Imperial Valley Campus. Services provided include reference assistance, CD ROM databases, personal computers for word processing, full text database, Internet access, interlibrary loans, and photocopying facilities.

Computer assistance is available in the computer laboratory. Both Macintosh and IBM compatible systems and Internet access are also available on campus.

## **Transfer Center**

The Transfer Center provides support services to identified and potential transfer students from accredited institutions. Information is provided by a professional counselor about programs and services available at San Diego State University, Imperial Valley Campus. The project works with all students but has as its primary goal to increase the number of underrepresented students in higher education. Underrepresented students are minorities, disabled, low income, and others not proportionately represented among the transfer population. For more information, call 760-768-5506 or visit the office located in Student Affairs.

## **Admission and Registration**

To apply for admission to the Imperial Valley Campus, students complete the CSUMentor application online at <http://www.csumentor.edu> and have transcripts sent to the Office of Admissions, San Diego State University, 5500 Campanile Drive, San Diego, CA 92182-7455. Call 760-768-5667 for additional information. Students can register on the Internet using WebPortal, but only after fees are paid. Late registration is allowed during the first three weeks of the semester. Students wishing to late register must pay registration fees plus a \$25.00 late fee.

## **Commencement**

The Imperial Valley Campus holds its own commencement exercises each spring, in the Rollie Carrillo Quad, prior to commencement exercises on the San Diego campus.

## **Imperial Valley Campus Scholarships**

The Imperial Valley Campus students were awarded \$121,370 in scholarships for the 2008-2009 academic year. Information and applications for scholarships are available from the Financial Aid Office. Following is a list of scholarships established at Imperial Valley Campus:

### **Scholarships with endowments:**

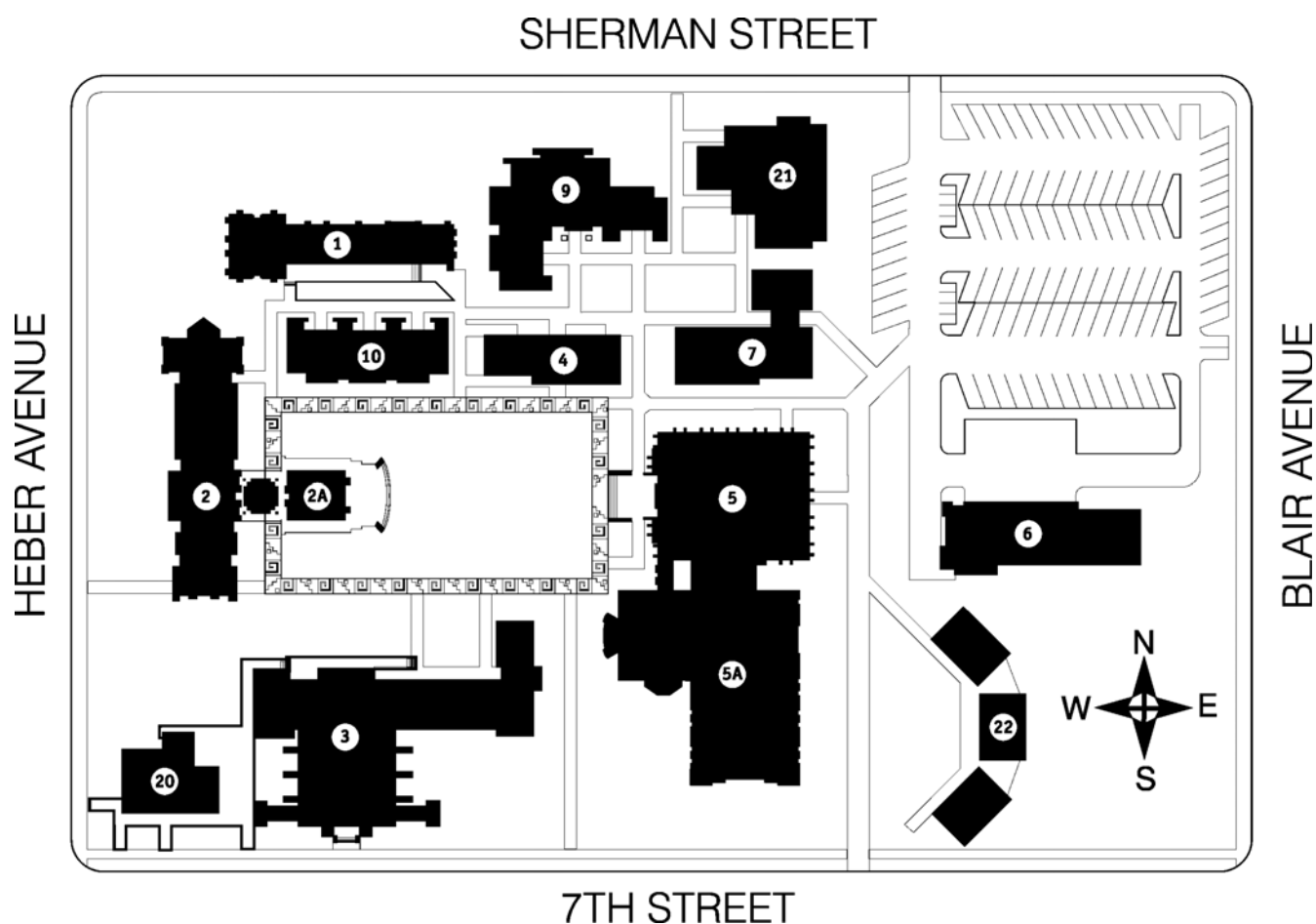
Anheuser-Busch Companies, Inc.	Alejandro and Florencia Nogales
David Ballesteros	Douglas and Barbara Patiño
William and Susan Brandt	Jerry Pennington Memorial
Enrique (Kiki) Camarena	Ralph and Eva Pesqueira
Francis and Edna Rae Frye	Joe and Dorothy Rodney
Jack Hart Family	Rotary International District 5340
Good Sport Howie	Ethan A. Singer
Herschel Hudson	Stephen and Susan Weber
Nancy A. Marlin	Title V
Sally McMahon/Doves	

# Imperial Valley Campus – Calexico Campus Map

SDSU IVC Campus – Calexico  
720 Heber Avenue  
Calexico, CA 92231  
760-768-5500

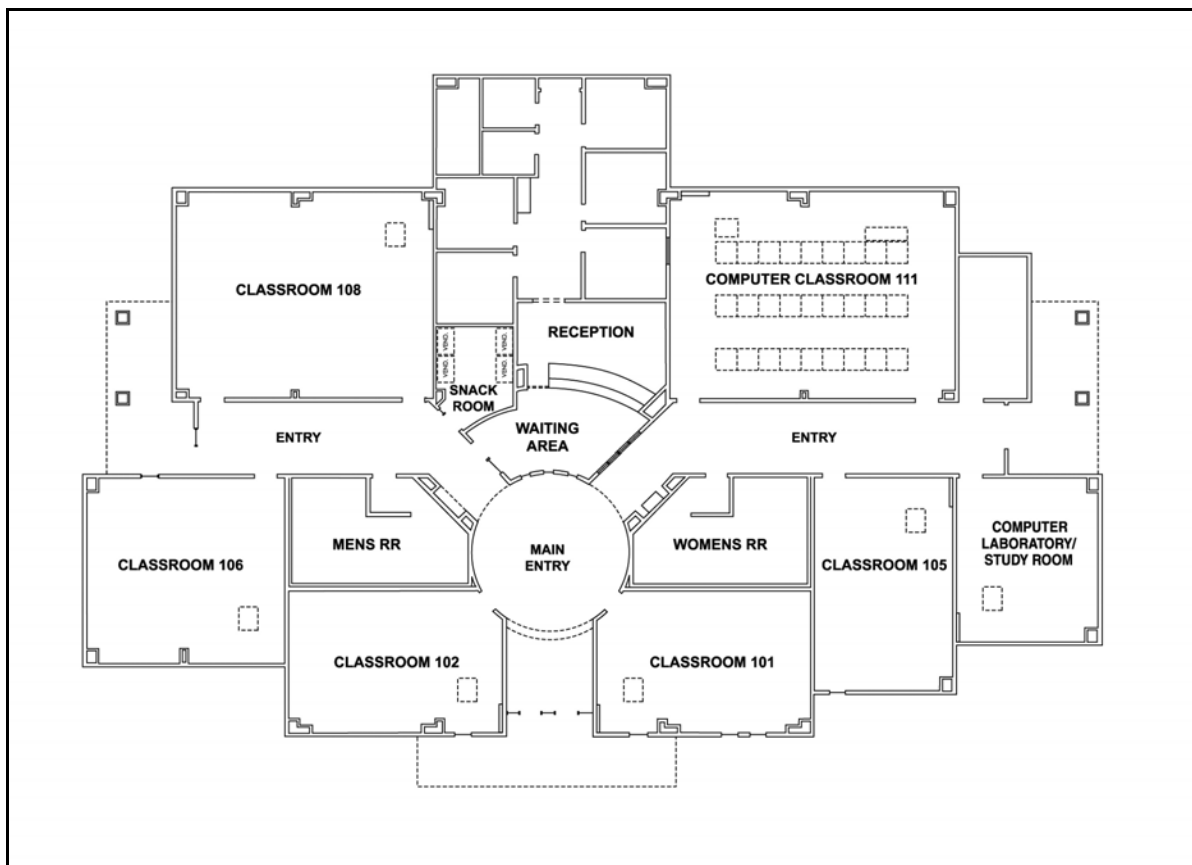
## BUILDING LEGEND

- |  |   |
|--|---|
| 1. North Classroom Building<br>(N-101, N-102, N-106, N-108)                        | 5. Library  |
| 2. Administration Building<br>(Administration/Academic<br>Affairs/Business Office) | 5A. Library Addition                              |
| 2A. Art Gallery  | 6. Physical Plant                                 |
| 3. Auditorium/ Classrooms<br>(A-3, LA-1, LA-2, LA-3, LA-4)                         | 7. Computer Building                              |
| 4. Classroom Building (C-7, C-8,<br>C-9, C-10)                                     | 9. Faculty Offices: Building East<br>(Classrooms) |
|  | 10. Faculty Offices: Building West                |
|  | 20. Student Center                                |
|  | 21. Student Affairs                               |
|  | 22. CLAT - Classrooms                             |



## **Imperial Valley Campus – Brawley Campus Map**

**SDSU IVC Campus – Brawley**  
**560 East Highway 78**  
**Brawley, CA 92227**  
**760-351-0806**





# Graduation Requirements for the Bachelor's Degree

The university will make every effort to preserve the requirements in this Graduation Requirements section for students subject to this catalog according to the provisions enumerated below. All other parts of the catalog are subject to change from year to year as university rules, policies, and curricula change. It is your responsibility to keep informed of such changes; failure to do so will not exempt you from whatever penalties you may incur.

The requirements appearing in this catalog are applicable to students under the following circumstances:

1. You may remain with the graduation requirements in effect during the academic year in which you entered SDSU, another campus in the CSU system, or a California community college, so long as you have remained in attendance at least one semester or two quarters within a calendar year in either the CSU or community college system. Absence due to an approved educational leave or for attendance at another regionally accredited institution of higher learning shall not be considered an interruption in attendance if the absence does not exceed two years. If you change or declare your majors in subsequent years, however, you must adopt the major and minor requirements in effect at the time of such change or declaration. You may continue with the earlier catalog only with regard to General Education and other graduation requirements.

If you are disqualified from San Diego State University, you may maintain catalog rights for General Education purposes only by enrolling immediately in a California community college or another CSU campus. If you are subsequently reinstated after a break in continuous enrollment, you are subject to the requirements of the *General Catalog* in effect during the semester in which you reenroll in the CSU system or a California community college. If you have been disqualified twice from SDSU, you cannot be awarded an SDSU degree.

2. You may change to the catalog in effect in the year in which you graduate. Thus, students graduating in December 2010, May 2011, or in the 2011 summer term may adopt this catalog by so indicating on their application for graduation.

## I. Freshmen Competency Requirements: Mathematics and Writing

All students are required to demonstrate competency in basic mathematics and standard written English. Incoming students who are not exempt from the CSU Entry Level Mathematics examination (ELM) and/or the English Placement Test (EPT) because of national test scores or college level courses (see explanation of exemptions) must take these tests by the May test date or their admission to SDSU will be cancelled. Those who fail one or both of these examinations are REQUIRED to be enrolled in appropriate sections of General Mathematics and/or Rhetoric and Writing Studies courses in the FIRST semester of enrollment. Students who do not successfully complete their remediation requirements within one year of their initial enrollment will be administratively disqualified.

Competency requirements are required preparation for a number of specific courses identified in the *Class Schedule*. Test dates and times are listed in the Testing Requirements section of the current *Class Schedule*. No student may graduate until all competency requirements are satisfied.

## MATHEMATICS TESTING REQUIREMENTS: FRESHMEN

Demonstration of mathematics competency is satisfied in one of the following ways:

- A. Passing one of the following national or state tests at the minimum score\* or level identified below:
  1. Score of 50 on the CSU Entry Level Mathematics Test (ELM) if taken after February 2002 or an ELM score of 550 if taken before February 2002.
  2. Score of 550 on the Scholastic Aptitude Test or Scholastic Assessment Test (SAT or SAT Subject Tests) in mathematics.
  3. Score of 23 on the American College Test (ACT) mathematics section if taken after October 1989.
  4. Score of "Ready for CSU College-Level Mathematics Courses" on the Early Assessment Program (EAP), augmented mathematics, taken in the 11th grade as part of the California Standards Test or Algebra II.
  5. Score of "Ready for CSU College-Level Mathematics Courses - Conditional" on the Early Assessment Program (EAP), augmented mathematics, taken in the 11th grade as part of the California Standards Test or Algebra II PLUS successful completion of a CSU-approved mathematics or mathematics-related course or activity taken before you enroll at a CSU campus.
  6. Score of 3 on the College Board Advanced Placement (AP) mathematics AB or BC examination or the statistics examination.
  7. Score of 550 on the College Board Mathematics Achievement Test, Level I or IC or II or IIC.
  8. Score of 550 on the College Board SAT II Mathematics Test, Level I or IC or II or IIC.

\* These scores are appropriate only to those students who satisfy the requirement upon matriculation in this catalog year or who take the examinations during this catalog year.

OR

- B. Earn a C or better grade in an approved transferable college mathematics course that satisfies CSU General Education in Mathematics/Quantitative Reasoning.

OR

- C. Complete BOTH a. and b. (below)

- a. Attempt but fail (with a score below 50 if taken after February 2002 and score below 550 if taken before February 2002) the CSU Entry Level Mathematics (ELM) test.

AND

- b. Earn Credit (Cr) in General Mathematics Studies 91 at SDSU. Credit earned in General Mathematics Studies courses numbered below 100 are not applicable to the baccalaureate degree.

## Mathematics and Chemistry Departmental Placement Examinations

Prior to enrollment in certain mathematics and chemistry courses, students may be required to pass a Mathematics or Chemistry Departmental Placement Exam as part of the stated prerequisites. These examinations assess mathematical or chemistry preparation beyond the elementary level. The Precalculus Proficiency Assessment tests knowledge of algebra and trigonometry as needed in Mathematics 150, Calculus I. The Liberal Studies Mathematics Proficiency Assessment tests concepts relating to numbers and operations, geometry, and measurement. The Chemistry Department Placement Exam assesses student preparation to succeed in Chemistry 200 or 202.



## WRITING TESTING REQUIREMENTS: FRESHMEN

Demonstration of writing competency is satisfied in one of the following ways:

- A. Pass one of the following national or state tests at the minimum score\* or level identified below:
  1. Score of 151 total on the CSU English Placement Test (EPT).
  2. Score of 550 on the Scholastic Aptitude Test or Scholastic Assessment Test (SAT) critical reading section if taken after March 1995. SAT verbal score of 470 if taken before March 1995.
  3. Score of 24 on the American College Test (ACT) English test if taken after October 1989.
  4. Score of "Ready for CSU College-Level English Courses" category on the Early Assessment Program (EAP) taken in the 11th grade as part of the California Standards Test.
  5. Score of 3 on the College Board Advanced Placement (AP) Language and Composition or Literature and Composition test.
  6. Score of 600 on the College Board Achievement Test in English Composition with Essay.
  7. Score of 680 or above on the College Board SAT II Writing Test taken May 1998 to May 2005. Score of 660 on College Board SAT II Writing Test taken between April 1995 and April 1998. Score of 600 on the College Board SAT II Writing Test taken before March 1995.
  8. Score of 680 or above on the College Board SAT Writing section

\* These scores are appropriate only to those students who satisfy the requirement upon matriculation in this catalog year or who take the examinations during this catalog year.

OR

- B. Pass with a C or better an approved transferable college composition course that satisfies CSU General Education in Composition or Critical Thinking.

OR

- C. Complete BOTH 1. and 2 below
  1. Attempt but fail (with a score below 151 total) the CSU English Placement Test (EPT)

AND

2. Earn credit (Cr) in one of the following courses: Linguistics 94; Rhetoric and Writing Studies 92A, 92B, 94, 97.

Credit earned in Linguistics and Rhetoric and Writing Studies courses numbered below 100 are not applicable to the baccalaureate degree.

## II. Graduation Writing Assessment Requirement (GWAR)

All undergraduates must demonstrate competency in writing skills at the upper division level as a requirement for the baccalaureate degree. The Writing Placement Assessment (WPA) is a two hour examination used to evaluate writing competency.

- A. Students must take the WPA within the time frames described below. Once students are enrolled in Rhetoric and Writing Studies 280 or 281 or Linguistics 281, they may not take the WPA to test out of an upper division writing course.

**Continuing Students.** Continuing students must take the WPA during the semester in which they are completing 60 units or in the semester immediately following.

**Transfer Students.** Transfer students are eligible to take the WPA once they have received an offer of admission. They must take the examination during their first semester at SDSU.

Students who do not take the examination by the end of the required time frame will not be able to register for future terms. Students may stop out of the university one semester and maintain continuing

student status. If the examination is completed during the stop out term, the student may re-enroll the following semester. Students who have not taken the examination by the end of the stop out term will be required to reapply for admission to SDSU and meet the admission requirements in effect at the time they reapply.

- B. **Writing Placement Assessment scores.** Students who achieve a score of 10 or above on the WPA satisfy the statewide Graduation Writing Assessment Requirement and do not have to take a writing course **unless an upper division writing course is required by their major.**

Students who achieve a score of 8 or 9 are required to satisfy the Graduation Writing Assessment Requirement by completing an approved upper division writing course with a grade of C or higher. SEE LIST BELOW.

Students who earn a score of 7 or lower are required to complete Rhetoric and Writing Studies 280 (or Rhetoric and Writing Studies 281 or Linguistics 281 if English is your second language) with a grade of C or higher before enrolling in one of the required approved upper division writing courses. **The SDSU registration system will require students who earn a 7 or below to register for the required course in the semester following the testing time frame.**

- C. Students who transfer from another California State University campus having fulfilled the Graduation Writing Assessment Requirement will not be required to repeat it. However, a course listed below may be required for the major. Contact the Academic Advising Center if you believe you have fulfilled this requirement at another CSU.
- D. Students are allowed to attempt the WPA twice within the time-frames and restrictions described above. Students may not drop a course in which they are registered if test results are received after the schedule adjustment deadline. Students must pay the required fees for the examination each time it is taken.

### E. Approved upper division writing courses:

Anthropology 396W  
 Chicana and Chicano Studies 396W  
 Economics 449W  
 English 306W (Liberal Studies majors only)  
 English 308W (Required for English and Comparative Literature majors; open to other majors)  
 English 508W  
 English 581W  
 English 584W  
 History 400W  
 History 450W  
 Information and Decision Systems 390W  
 Information and Decisions Systems 396W  
 Journalism and Media Studies 310W  
 Linguistics 305W  
 Linguistics 396W  
 Recreation and Tourism Management 396W  
 Rhetoric and Writing Studies 305W  
 Rhetoric and Writing Studies 500W  
 Rhetoric and Writing Studies 503W  
 Rhetoric and Writing Studies 508W

## III. Major and Minor Requirements

- A. **Preparation for the major.** Every major requires a set of introductory and/or skills courses designed to prepare the student for upper division study in that field. Courses taken for this purpose may also be used to satisfy General Education requirements if approved for General Education.

- B. **Major.** Completion of a departmental or an interdisciplinary major is required. Students must meet major requirements in effect at time of declaration of major, provided continuous enrollment has been maintained, except as otherwise provided in the *California Code of Regulations*, Chapter 5, Section 40401, Election of Regulations. If a major is impacted, students must meet major requirements in effect at time of declaration of premajor, assuming continuous enrollment. A major is an area of specialized study which provides the student with extensive knowledge of the subject matter and its organizing concepts. It consists of 24 or more upper division units for the Bachelor of Arts, and Bachelor of Music; and of 36 or more units for

the Bachelor of Science degree. At least half of the units must be completed at SDSU unless specifically waived by the department; however, in no case shall a student be allowed to complete fewer than 12 units in the major at SDSU. Units received through SDSU extension courses, with the exception of courses offered for resident credit during summer term and Open University, spring 1998 and thereafter, are not applicable to the residency requirement. Unless otherwise stated, a student may (with the approval of the department) apply no more than three units of coursework from a basic certificate program toward a major or minor.

A summary list of all majors appears at the close of this chapter; the full statement of requirements for each major can be found through the Index. Upper division courses taken in the major department may not be used to meet requirements in a minor or in General Education, except for General Education, section III, American Institutions. A three-unit General Education course required for your major but not in your major department may be used in section IV, Explorations of Human Experience **only if** your major requires at least 27 units for the B.A. degree or at least 39 units for the B.S. degree. Courses graded credit (Cr) may not be used to fulfill upper division requirements in the major except for those courses identified in the course listing as graded Cr/NC.

A student may wish to major in two departments. If so, the requirements for both majors must be satisfied. Units for courses which could satisfy the requirements in both majors can be counted only once. Only one diploma will be granted but the diploma and transcript will note the completion of each major.

A student may earn two majors in one department only where the specific combinations of majors are authorized by the department and the college. All requirements for both majors must be satisfied; units for courses which could satisfy requirements in both majors can be counted only once. In most cases, students pursuing two majors in one department will be required to file with the Office of the Registrar a master plan approved by the major department.

**Time Limit on Completion of Requirements for the Major.** As authorized by Title 5, *California Code of Regulations*, Section 40401, departments may require that specific academic requirements be met within seven years of granting an undergraduate degree. Such requirements will consist of advanced courses and examinations in areas of knowledge changing so rapidly that information may be obsolete after seven years. In those cases in which a student is required to repeat a course taken more than seven years previously, only the last grade will be used in computation of grade point averages.

- C. Minor.** Completion of a minor is necessary if required by the major; the decision otherwise to have, or not to have, a minor is left with the student. Like the major, the minor offers an integrated and coherent pattern of coursework, combining lower and upper division coursework in proportions appropriate to the various disciplines. The minor shall consist of 15-24 units. Normally, 12 units of coursework in the minor will be upper division units. A minimum of six upper division units must be completed at SDSU. The minimum grade point average for awarding a minor at the time of graduation is 2.0 (C) or better in all units applicable toward a minor, including those accepted by transfer from another institution. Courses graded credit (Cr) may not be used to fulfill upper division requirements in the minor except for those courses identified in the course listing as graded Cr/NC. Courses numbered 296, 496, 596 may be applicable to the minor only with approval of the department chair. A summary list of all minors appears at the close of this chapter; the full statement of requirements for each minor can be found through the Index. Because special prerequisites must be met to qualify for certain minors, checking with the minor department before taking courses is advised. Courses in the minor may not be counted toward the major or another minor, but may be used to satisfy preparation for the major and General Education requirements. Declaration of a minor occurs by obtaining and filing a Declaration of Major or Minor form at the Office of the Registrar, Student Services West, Room 1641.

## IV. American Institutions Requirement

Title 5, *California Code of Regulations*, Article 5, Section 40404 requires that all students demonstrate an understanding of American history, the United States Constitution, and California state and local government.

The American Institutions requirement can be satisfied in any of three ways:

- A. San Diego State University courses.** By passing any one of the following pairs of courses (three of the six units needed for American Institutions can also be applied to General Education):

Africana Studies 170A and 170B	Political Science 101 and 102
American Indian Studies 140 and 141	Political Science 101 and 320
Chicana and Chicano Studies 120A and 120B	Political Science 102 and 305
Chicana and Chicano Studies 141A and 141B	Political Science 102 and 321
History 109 and 110	Political Science 102 and 422
History 109 and 410	Political Science 305 and 320
History 110 and 409	Political Science 305 and 321
History 409 and 410	Political Science 305 and 422
	Political Science 320 and 321
	Political Science 320 and 422
	Religious Studies 390A and 390B
	Women's Studies 341A and 341B

- B. Transfer courses from accredited California colleges and universities.**

- Full Certification of American Institutions Requirement:** Students transferring within California will fulfill the American Institutions requirement by providing certification on a transcript or other official document from a regionally accredited California university, liberal arts college, or community college that the requirement as outlined in Title 5, *California Code of Regulations*, Article 5, Section 40404 has been satisfied.
- Partial Completion of American Institutions Requirement:** Transfer credit may be used toward partial fulfillment of the American Institutions requirement.
- Certification Based on High School Work:** No certification based on high school work can be accepted.

- C. Transfer courses from outside California or Advanced Placement credit.** Students who have met both the American history and United States Constitution portion of the American Institutions requirement through any of the following:

- Advanced Placement (AP) credit in American history or Government/Politics: American or International Baccalaureate credit in History of the Americas.
- Course(s) in American history which cover a minimum of 100 years of U.S. history, including the establishment of the U.S. Constitution;
- An American history course which covers a minimum of 100 years of history AND a course in American Government: Student may elect to complete the California state and local government portion of the American Institutions requirement by either:
  - Taking the California Government examination available through the Student Testing, Assessment and Research Office, OR
  - Completing one of the following SDSU courses: Africana Studies 170B; American Indian Studies 141; Chicana and Chicano Studies 120B, 141B; History 110\*, 410, 445; Political Science 102\*\*, 320\*\*, 321, 422; Religious Studies 390B; Women's Studies 341B.

\* Credit will not be granted for this course if the student has taken an equivalent post-Civil War American history course or United States history AP credit.

\*\* Credit will not be granted for this course if the student has taken an equivalent American government course or Government/Politics: United States AP credit.

## V. Language Requirement

Students whose majors lead to the Bachelor of Arts degree in Liberal Arts and Sciences, the Bachelor of Music degree, or the Bachelor of Fine Arts degree in Dance must satisfy a language requirement in a language **other than English** as indicated below. Students whose majors lead to other degrees are not subject to this requirement.

**Exclusion:** Conversation courses may not be used to meet this requirement.

Native speakers from foreign countries where English is not the principal language and who have finished high school or the equivalent in that country will be considered to have satisfied the language requirement and will not be given credit for taking lower division courses in their native language except with advance approval from the department.

**A. The Bachelor of Arts degree in liberal arts and sciences** (see exceptions above) require competency in a language other than English. Such competency can be demonstrated by:

1. Successfully completing the third college semester or fifth college quarter in a language other than English (minimum competency/units required);
2. Successfully completing the fourth-year level of high school courses in a language other than English;
3. Successfully completing a third-semester equivalent proficiency examination in a language other than English;
4. Graduating from high school (where English is not the major language of instruction) in a non-English speaking country.
5. Passing with a score of 3 or higher on an Advanced placement (AP) examination in Chinese language and culture, French language, French literature, German language, Japanese language and culture, Spanish language or Spanish literature; or passing with a score of 5 in Latin literature or Vergil.
6. Passing with a score of 4 to 7 on the higher level examination for International Baccalaureate credit in French, German, or Spanish A2 or Spanish B.

Students who are majoring in **Art History, European Studies, Humanities, International Economics, and Linguistics** should also read the section on language requirement under their respective majors for special conditions and limits pertaining to those majors.

Courses offered at San Diego State University which satisfy the language requirement are:

Arabic 101, 102, 201, or 202  
 Chinese 101, 102, and 201  
 Classics 101G, 202G, and 303G (Greek)  
 Classics 101L, 202L, and 303L (Latin)  
 Filipino 101, 102, and 201  
 French 100A, 100B, and 200 or 201 or 210 or 221  
 German 100A, 100B, 202 or 205A or 205B  
 Hebrew 101, 102 and 200, and 201  
 Italian 100A, 100B, and 201 or 211 or 212  
 Japanese 111, 112, and 211  
 Korean 101, 102, and 201  
 Latin American Studies 110, 111, and 210 (Mixtec)  
 Persian 101, 102, and 201 or 202  
 Portuguese 101, 201, and 301  
 Russian 100A, 100B, and 200A  
 Spanish 101, 102, and 201 or 202 or 281 or 282  
 Speech, Language, and Hearing Sciences 101, 102, 201, or 202  
 Vietnamese 101, 102, and 201

**B. The Bachelor of Music degree** (except the specialization in Jazz Studies and Instrumental Performance) requires the completion of appropriate college level language courses as designated in the following specializations:

1. **World Music** – the third semester in any foreign language.
2. **Music Education** – the second semester in Spanish.
3. **Performance (vocalists only)** – the first semester in each of French, German, and Italian. Required competency must be evaluated in a language competency evaluation administered by the head of the vocal area in the School of Music and Dance.
4. **Contemporary Culture (Track 1 and Track 2) and Composition** – the second semester in French, German, Italian, or Spanish.

Students may demonstrate competency by taking a test of reading knowledge. Consult with music faculty adviser.

Students with prior competency may take a test of reading knowledge administered by the foreign language department concerned in consultation with the School of Music and Dance.

**C. The Bachelor of Fine Arts degree in Dance** requires competency (equivalent to that which is normally attained in two semesters of college study) in a foreign language.

## VI. Unit Requirements

**A. Overall unit requirement.** The minimum number of units necessary for a bachelor's degree (excluding courses numbered 99 and below; also courses numbered 397) is 120. Many majors and degrees have requirements that extend beyond the minimum number of units as listed below:

1. Bachelor of Arts degree in Applied Arts and Sciences 120-124
2. Bachelor of Arts degree in Liberal Arts and Sciences.. 120-124
3. Bachelor of Science degree in Applied Arts and Sciences ..... 120-128
4. Bachelor of Science degree in Engineering ..... 129-140
5. Bachelor of Science degree in Geological Sciences ... 124-132
6. Bachelor of Fine Arts degree in Dance..... 132
7. Bachelor of Music degree ..... 132

The degree which applies to a particular student is determined by the student's choice of major. Each student should therefore consult the statement of his or her major to establish the applicable degree. The full statement of each major can be found by consulting the Index.

**B. Upper division unit requirement.** The total number of upper division units necessary for a bachelor's degree is as follows:

1. Bachelor of Arts degree in Applied Arts and Sciences ..... 40
2. Bachelor of Arts degree in Liberal Arts and Sciences..... 40
3. Bachelor of Science degree in Applied Arts and Sciences .... 45
4. Bachelor of Fine Arts degree in Applied Arts and Sciences.... 48
5. Bachelor of Music degree ..... 44-59

Courses offering upper division credit are those numbered 300 through 599. All units from upper division courses (except those numbered 397 in any department) are applicable to the upper division unit requirement, including units from courses in the major and the minor, and from courses used to satisfy the American Institutions and the General Education requirements.

**C. Unit limit totals.** The maximum number of special units accepted for a bachelor's degree is as follows:

1. From transferable community and junior college courses .... 70
  2. From credit by examination (excluding AP credit)..... 30
  3. From a total of all Extension, Open University, and correspondence courses (includes courses taken before and after matriculation) ..... 24
- (NOTE: Only 24 units from Extension, Open University, and Special Sessions courses combined will be accepted toward the degree when taken prior to admission as a non-matriculated student. There is no limit on Special Session courses completed after matriculation.)

- \*4. From courses graded credit (Cr) ..... 15
5. From topics courses numbered 296, 496, 596..... 9
6. From General Studies courses numbered 200 and 400 ..... 6
7. From courses numbered below 100, and courses numbered 397 ..... 0
8. From Special Study courses numbered 299, 499, 599 ..... 9
9. From courses numbered 499 from one department (except Geological Sciences 499) ..... 6
10. From Aerospace Studies, Military Science, and Naval Science courses ..... 24
11. From Music 170-189, 370-389, 570-589 (for non-major, music major for B.A. degree, and B.M. degree in Music Education, Professional Studies, and Contemporary Culture, Tracks 1 and 2) ..... 14
12. From Music 170-189, 370-389, 570-589 (for music major for B.M. degree in Performance, Composition, and Jazz Studies)..... 18

\* Upper division courses in the major and minor must be taken for a letter grade unless they are offered only credit/no credit.

### D. Units in one department.

1. **Bachelor of Arts degree in Liberal Arts and Sciences.** The maximum number of units in any one department, lower and upper division combined, which can be applied toward the Bachelor of Arts degree in Liberal Arts and Sciences is 48, except in those majors outlined below:
  - a. For students majoring in Chemistry with Certificate of the American Chemical Society .....49
  - b. For students majoring in Dance .....49
  - c. For students majoring in English  
(courses in Comparative Literature, English,  
Rhetoric and Writing Studies).....54
  - d. For students majoring in French .....49
  - e. For students majoring in Japanese.....63
  - f. For students majoring in Journalism, Journalism with  
an emphasis in Advertising, or Journalism with  
an emphasis in Public Relations.....40
  - g. For students majoring in Psychology .....50
  - h. For students majoring in Russian .....53
  - i. For students majoring in Social Work ..... 50
  - j. For students majoring in Spanish ..... 52
  - k. For students majoring in Speech, Language,  
and Hearing Sciences.....68
  - l. For students majoring in Art with an emphasis in  
Studio Arts ..... 57
2. **Bachelor of Fine Arts degree in Dance.** The maximum number of units in upper division dance courses acceptable toward the Bachelor of Fine Arts degree in Dance is 70.
3. **Bachelor of Music degree.** The maximum number of units in upper division music courses acceptable toward the Bachelor of Music degree is 70.
4. **Bachelor of Science degree in Business Administration.** The minimum number of units required outside of business administration, economics, and statistics is 60.

### VII. Residence Requirements

To qualify for a bachelor's degree, each of the following unit requirements must be completed at this university:

- A. A minimum of 30 units total, of which at least 24 units must be in upper division courses (numbered 300-599).
- B. At least half of the upper division units required for the major, unless waived by the major department; however, in no case shall the unit total be fewer than 12 upper division units.
- C. If a minor is completed, a minimum of six upper division units in the minor.
- D. At least nine units in General Education courses.

**Note:** Courses taken in Open University prior to spring 1998, in Extension, and units earned through credit-by-examination may not be applied to these requirements.

### VIII. Grade Point Average Requirements

Four averages, each 2.0 or higher, are required for graduation:

- A. SDSU GPA – An average based on all courses attempted at SDSU.
- B. Cumulative GPA – An average based on all courses attempted at SDSU and transferable courses at other universities, liberal arts colleges, and community colleges.
- C. Major GPA – An average based on all upper division courses attempted in the major department. Upper division courses required for the major but taught outside the major department will also be included in the average.
- D. Minor GPA – An average based on all units applicable to a minor, if a minor is being completed for the degree.

Information on the computation of averages can be found in the University Policies section of this catalog under Grades.

### IX. General Education

General Education profoundly influences undergraduates by providing the breadth of knowledge necessary for meaningful work, life-long learning, socially responsible citizenship, and intellectual development. This 49-unit program, which comprises over one third of an undergraduate's course of study, places specialized disciplines into a wider world, enabling students to integrate knowledge and to make connections among fields of inquiry.

The General Education program at SDSU prepares students to succeed in an increasingly complex and rapidly changing world. Our students will live and work in the context of globalization, scientific and technological innovation, cross-cultural encounters, environmental challenges, and unforeseen shifts in economic and political power. Through this program, students will acquire knowledge of human cultures and the physical and natural world that will enable them to engage significant questions, both contemporary and enduring.

To put their breadth of knowledge to work, students gain intellectual and practical skills such as inquiry and analysis, creative and critical thinking, written and oral communication, scientific and quantitative literacy, and technological-information proficiencies. Students practice these skills in progressively challenging venues, mastering learning outcomes from a series of courses drawn from the following four sections: I, Communication and Critical Thinking; II, Foundations of Learning; III, American Institutions; and IV, Explorations of Human Experience. In order to acquire the skills required for advanced coursework within and across disciplines, student should complete the four sections sequentially.

The General Education program at San Diego State University is evolving. A standing committee of faculty and students reviews the program continually and encourages the development of new courses, concepts, and learning experiences.

#### Seven Essential Capacities Developed through General Education

In addition to mastering the specialized disciplinary knowledge typically associated with undergraduate majors, well-educated individuals acquire general abilities, habits of mind, or capacities that significantly enhance their intellectual and professional lives. Students come to understand how arguments—whether in journal articles, laboratory reports, lyrics, or manifestos—are constructed and evaluated; and they are able to craft persuasive cases in a wide variety of contexts. Students become familiar with the ways scholars—whether physicists or literary critics— theorize; and they are able to apply different kinds of theoretical models to real-world conditions. Students come to realize that most significant phenomena—from endangered species to British novels—cannot be understood in isolation because they are inevitably situated in complex webs or networks of interrelated phenomena; and they are able to locate concepts, ideas, texts, and events within these broader contexts. Students recognize the value of engaging diverse and opposing principles, perspectives, and people to achieve political, intellectual, artistic, and social ends; and they grow competent in the sorts of negotiations such engagement requires. Students come to appreciate that local and global perspectives on subjects as diverse as policing, safe drinking water, and artistic trends are inevitably connected; and they can bring the two perspectives together. Students come to see that diverse concepts—from principles of harmony to supply and demand—apply to multiple phenomena; and they are skilled in identifying the relevance of such concepts across traditional boundaries. Finally, students come to understand the intricate causal relationships between actions—whether giving a dowry or exploring space—and their effects; and they develop the ability to evaluate consequences in meaningful and responsible ways.

In order to develop these abilities in all our students, San Diego State University's General Education program will emphasize the following seven *essential capacities*:

1. Construct, analyze, and communicate arguments;
2. Apply theoretical models to the real world;
3. Contextualize phenomena;
4. Negotiate differences;
5. Integrate global and local perspectives;
6. Illustrate relevance of concepts across boundaries;
7. Evaluate consequences of actions.

It is important to note that although these essential capacities inform General Education, they are by no means its exclusive property. In fact, these fundamental abilities are to be further strengthened through students' major coursework. More specific goals of the various areas of General Education articulate directly with the seven essential capacities, in many cases manifesting the general abilities characterized—in rather abstract terms—by the capacities.

### Communication and Critical Thinking

Communication and Critical Thinking are essential skills that underlie all university education. Focusing particularly on argument, courses in this area of General Education help students understand the general function of writing, speaking, visual texts, and thinking within the context of the university at large, rather than within specific disciplines. In addition to featuring the basic rules and conventions governing composition and presentation, Communication and Critical Thinking courses establish intellectual frameworks and analytical tools that help students explore, construct, critique, and integrate sophisticated texts.

#### Goals in Communication and Critical Thinking:

- Goal 1: Craft well-reasoned arguments for specific audiences.
- Goal 2: Analyze a variety of texts commonly encountered in the academic setting.
- Goal 3: Situate discourse within social, generic, cultural, and historic contexts.
- Goal 4: Assess the relative strengths of arguments and supporting evidence.

### Foundations of Learning

Foundations of Learning courses follow and build upon Communication and Critical Thinking courses and are offered by individual departments and interdisciplinary areas in the Natural Sciences and Quantitative Reasoning, Social and Behavioral Sciences, and Humanities and Fine Arts. Foundations of Learning courses in the Natural Sciences and Quantitative Reasoning are divided into four categories: 1. Physical Sciences, 2. Life Sciences, 3. Laboratory, and 4. Mathematics and Quantitative Reasoning. Those in the Humanities and Fine Arts are divided into five categories: 1. Literature, 2. Art, Classics, Dance, Drama, Humanities, and Music, 3. History, 4. Philosophy and Religious Studies, and 5. Foreign Language. Foundations of Learning courses introduce students to the basic concepts, theories, and approaches offered by disciplinary and interdisciplinary areas of study. They provide the foundation to understand and approach problems in the academy, and in local and global real-world environments. Consistent with class size and learning goals, they cultivate skills in reading, writing, communication, computation, information-gathering, and use of technology. Where appropriate, courses intended as preparation for a major may also be designated as Foundations of Learning courses. Only lower division courses are designated as Foundations of Learning courses.

### Explorations of Human Experience

Explorations of Human Experience courses are upper division courses which allow concentrated or thematic study. In Explorations of Human Experience there are three areas of study – Natural Sciences and Quantitative Reasoning, Social and Behavioral Sciences, and Humanities and Fine Arts. Among these areas are courses designated as cultural diversity courses. Explorations of Human Experience courses take the goals and skills of Foundations of Learning courses to a more advanced level. This may find expression in one or more of the following pedagogical elements: greater interdisciplinary, more complex and in-depth theory, deeper investigation of local problems, and wider awareness of global challenges. More extensive reading, written analysis involving complex comparisons well-developed arguments, considerable bibliography, and use of technology are appropriate in many Explorations of Human Experience courses. Courses narrowly centered within one aspect of a discipline are more suited to major study than general education, which encourages students to relate their learning across the range of their educational experience. Explorations of Human Experience courses are upper division and cannot be used to fulfill this requirement if taken before students reach junior standing (passing 60 units).

### Areas of Study in Foundations of Learning and Explorations of Human Experience

#### A. NATURAL SCIENCES AND QUANTITATIVE REASONING

##### Natural Sciences

Natural Sciences use the scientific process to study nature and represent an approach to the study of the universe and its natural laws and phenomena. Students achieve basic scientific literacy and thereby

understand the scientific process including the value of observation, hypothesis testing, and experiments in the advance of science. Thus students require a general understanding of fundamental concepts and knowledge accumulated by the natural sciences. From that understanding, students develop an ability to reason about and follow new developments in the natural sciences, and to think in a scientifically informed manner about social and political issues that involve science and technology.

#### Goals for GE Courses in the Natural Sciences

- Goal 1: Explain basic concepts and theories of the natural sciences.
- Goal 2: Use logic and scientific methods to analyze the natural world and solve problems.
- Goal 3: Argue from multiple perspectives about issues in natural science that have personal and global relevance.
- Goal 4: Use technology in laboratory and field situations to connect concepts and theories with real-world phenomena.

#### Quantitative Reasoning

Quantitative reasoning refers to a range of academic capacities that includes learning from data, communicating quantitatively, analyzing evidence and assertions, and employing quantitative intuition. While quantitative reasoning is essential to sciences, other disciplines require the ability to use and comprehend quantitative language. To do this, students require the ability to analyze and interpret data in both scientific and social contexts. By possessing this set of mathematical and problem solving skills, students will be able to engage effectively in quantitative situations arising in life and work.

#### Goals for GE Courses in Quantitative Reasoning

- Goal 1: Apply appropriate computational skills and use basic mathematical concepts to analyze problems in natural and social sciences.
- Goal 2: Use methods of quantitative reasoning to solve and communicate answers to real-world problems.

#### B. SOCIAL AND BEHAVIORAL SCIENCES

The Social and Behavioral Sciences focus on human behavior, cognition, and organization from anthropological, economic, geographic, linguistic, political, psychological and sociological perspectives. Students gain an understanding of society and culture, as well as individual and social interaction processes. Disciplines within the Social and Behavioral Sciences employ the scientific method and utilize both quantitative and qualitative techniques to analyze the diversity and complexity of human experience. Through interdisciplinary learning, students explore the relationships between human societies and the physical environment.

#### Goals for GE Courses in the Social and Behavioral Sciences

- Goal 1: Explore and recognize basic terms, concepts, and domains of the social and behavioral sciences.
- Goal 2: Comprehend diverse theories and methods of the social and behavioral sciences.
- Goal 3: Identify human behavioral patterns across space and time and discuss their interrelatedness and distinctiveness.
- Goal 4: Enhance understanding of the social world through the application of conceptual frameworks from the social and behavioral sciences to first-hand engagement with contemporary issues.

#### C. HUMANITIES AND FINE ARTS

The Humanities and Fine Arts encompass works of the imagination, such as art, literature, film, drama, dance, and music, and related scholarship. Students better understand human problems, responsibilities, and possibilities in changing historical contexts and diverse cultures, and in relation to the natural environment. Students acquire new languages and familiarize themselves with related cultures. They gain the ability to recognize and assess various aesthetic principles, belief systems, and constructions of identity. Students acquire capacities for reflection, critique, communication, cultural understanding, creativity, and problem solving in an increasingly globalized world.

#### Goals for GE Courses in the Humanities and Fine Arts

- Goal 1: Analyze written, visual, or performed texts in the humanities and fine arts with sensitivity to their diverse cultural contexts and historical moments.
- Goal 2: Develop a familiarity with various aesthetic and other value systems and the ways they are communicated across time and cultures.
- Goal 3: Argue from multiple perspectives about issues in the humanities that have personal and global relevance.
- Goal 4: Demonstrate the ability to approach complex problems and ask complex questions drawing upon knowledge of the humanities.

### GENERAL EDUCATION Requirements and Limitations

You must complete all requirements in sections I, II, III, and IV for a total of 49 units. Because you must be a junior (60 units) to satisfy the upper division section IV requirement, you should not register for upper division GE courses until the semester in which you complete 60 units. Only those courses listed in the General Education areas may be used to satisfy General Education requirements.

Within these 49 units, the following limitations apply:

1. No more than **12** units from one department can be used in General Education.
2. No more than **7** units from one department can be used in sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than **10** units from one department in sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).
3. All credit earned in the General Studies 260A-260F 18-unit package will satisfy General Education. The limitations described in 1. and 2. above do not apply to these courses, but students who complete all 18 units may not take any additional courses in General Studies to satisfy section IV, Explorations of Human Experience. Students who complete only one 9-unit package (General Studies 260A and 260B and 260C, or General Studies 260D and 260E and 260F) may apply only one additional General Studies course to satisfy section IV, Explorations of Human Experience.
4. Upper division courses in your major department cannot be used in section IV, Explorations of Human Experience.
5. A three-unit General Education course required for your major but not in your major department may be used in section IV, Explorations of Human Experience **only if** your major requires at least 27 units for the B.A. degree or at least 39 units for the B.S. degree.
6. Explorations of Human Experience courses shall not be taken sooner than the semester in which you pass 60 units.
7. Credit/No Credit grades cannot be used in section I, Communication and Critical Thinking or section II.A.4., Mathematics/Quantitative Reasoning.
8. Courses numbered 296, 299, 496, 499, 500-level and above cannot be used in General Education.

#### Transfer Students—Additional Information

If you fall into one of the following four categories, you must complete only section IV, Explorations of Human Experience, to satisfy your General Education requirements:

1. You transferred from a California community college and have **completed** the Intersegmental General Education Transfer Curriculum (IGETC)
2. You transferred from a California community college and are certified as having **completed** the 39 unit lower division CSU General Education pattern (Sections I, II, and III)
3. You transferred from another California State University campus and have completed all lower division General Education requirements at the CSU campus
4. You transferred from a University of California campus and have completed all lower division General Education requirements at the UC campus.

Your previous college must provide SDSU with proof of completion, either a GE certification or a statement of completion from a University of California campus. Remember, you may not take Explorations of Human Experience courses sooner than the semester in which you complete 60 units.

If you completed one or more areas of CSU General Education pattern at a California community college or another CSU campus, some of the SDSU General Education area requirements may be met. If you have transfer courses from a California community college, a CSU or UC campus (but have not completed any General Education area), these courses may be used in the appropriate area of the SDSU General Education pattern. Consult with an adviser at the Academic Advising Center to determine which requirements you must complete.

If you transferred from a private college in California or from a non-California college, you must meet the requirements listed below. A transfer course will be used when equivalent to the listed SDSU course.

#### Freshmen Registration Requirements

All students entering SDSU as freshmen are required to register for a specific sequence of lower division General Education courses in the areas of I.1. Oral Communication, I.2. Composition, I.3. Intermediate Composition and Critical Thinking, and II.4. Mathematics/Quantitative Reasoning. Freshmen whose scores on the Entry Level Mathematics (ELM) and English Placement Test (EPT) examinations are below passing must enroll in the appropriate remedial course in the first semester. Freshmen must begin the required sequences in their first semester and continue in subsequent semesters until they complete the sequences. The registration system will enforce enrollment in the required courses. This enforcement will occur every semester until the required sequences are completed.

Students who do not successfully complete their remediation requirements within one year of their initial enrollment will be administratively disqualified.

#### Specialized General Education Patterns

Engineering, Liberal Studies, Nursing, and single subject credential majors should refer to the description of their major in the Courses and Curricula section of this catalog for a listing of General Education requirements.

#### I. COMMUNICATION AND CRITICAL THINKING (9 units)

You may **not** use Credit/No Credit grades in this section. Complete one course from each of the following three sections.

1. **Oral Communication.** Complete one course.
  - Africana Studies 140. Oral Communication (3)
  - Chicana and Chicano Studies 111A. Oral Communication (3)
  - Communication 103. Oral Communication (3)
2. **Composition**
  - Africana Studies 120. Composition (3)
  - American Indian Studies 120. Written Communication (3)
  - Chicana and Chicano Studies 111B. Written Communication (3)
  - English 100. Rhetoric of Written Argument (3) [Same course as Rhetoric and Writing Studies 100.]
  - General Studies 260A. Composing Identities (3)
  - Linguistics 100. English Composition for International Students (3)
  - Rhetoric and Writing Studies 100. Rhetoric of Written Argument (3) [Same course as English 100.]
  - Rhetoric and Writing Studies 101. Rhetoric of Written Argument (3)
3. **Intermediate Composition and Critical Thinking**
  - Africana Studies 200. Intermediate Expository Writing and Research Fundamentals (3)
  - Chicana and Chicano Studies 200. Intermediate Expository Research and Writing (3)
  - English 200. Rhetoric of Written Arguments in Context (3) [Same course as Rhetoric and Writing Studies 200.]
  - General Studies 260D. Imagining Communities (3)
  - Linguistics 200. Advanced English for International Students (3)
  - Philosophy 110. Critical Thinking and Composition (3)
  - Rhetoric and Writing Studies 200. Rhetoric of Written Arguments in Context (3) [Same course as English 200.]

#### II. FOUNDATIONS OF LEARNING (28 units)

No more than **7** units total may be taken in any one department in Foundations of Learning and Explorations of Human Experience combined, and no more than **10** units may be taken in any one department in Foundations of Learning, American Institutions, and Explorations of Human Experience combined.

**A. Natural Sciences and Quantitative Reasoning.** Complete one course from each of the following four sections. (For majors in the sciences and related fields refer to the Special Provision for Majors in the Sciences and Related Fields section.)

**1. Physical Sciences**

- Astronomy 101. Principles of Astronomy (3)
- Astronomy 201. Astronomy for Science Majors (3)
- Chemistry 100. Introduction to General Chemistry with Laboratory (4)
- Chemistry 102. Introduction to General, Organic, and Biological Chemistry with Laboratory (5)  
[For Nursing majors only.]
- Environmental Science 100. Environmental Sciences (3)
- + Geography 101. Principles of Physical Geography (3)  
[Cannot be used in combination with Anthropology 101.]
- + Geography 103. Weather and Climate (3) [Cannot be used in combination with Anthropology 101.]
- Geological Sciences 100. Planet Earth (3)
- Geological Sciences 104. Earth Science (3)
- Natural Science 100. Physical Science (3)
- Oceanography 100. The Ocean Planet (4)
- Physics 107. Introductory Physics with Laboratory (4)

**2. Life Sciences**

- + Anthropology 101. Human Biocultural Origins (3) [Cannot be used in combination with Geography 101 or 103.]
- Biology 100. General Biology (3)
- Biology 101. World of Animals (3)

**3. Laboratory**

- Astronomy 109. Astronomy Laboratory (1)
- Biology 100L. General Biology Laboratory (1)
- Biology 101L. World of Animals Laboratory (1)
- Chemistry 100. Introduction to General Chemistry with Laboratory (4)
- Chemistry 102. Introduction to General, Organic, and Biological Chemistry with Laboratory (5)  
[For Nursing majors only.]
- Geography 101L. Physical Geography Laboratory (1)
- Geological Sciences 101. Dynamics of the Earth Laboratory (1)
- Oceanography 100. The Ocean Planet (4)
- Physics 107. Introductory Physics with Laboratory (4)

**4. Mathematics/Quantitative Reasoning**

You may *not* use Credit/No Credit grades in this section.

- Administration, Rehabilitation and Postsecondary Education 201. Introductory Statistics and Research Design for Education (3) [Priority given to students in the Bachelor of Vocational Education program.]
- Biology 215. Biostatistics (3)
- Computer Science 100. Fundamental Ideas in Computer Science (3)
- Economics 201. Statistical Methods (3)
- Geography 104. Geographic Information and Spatial Reasoning (3)
- Mathematics 105. College Algebra (3)
- Mathematics 118. Topics in Mathematics (3)
- Mathematics 120. Calculus for Business Analysis (3)
- Mathematics 121. Calculus for the Life Sciences I (3)
- Mathematics 122. Calculus for the Life Sciences II (3)
- Mathematics 141. Precalculus (3)
- Mathematics 150. Calculus I (4)
- Mathematics 151. Calculus II (4)
- Mathematics 210. Number Systems in Elementary Mathematics (3)
- Mathematics 211. Geometry in Elementary Mathematics (3)
- Mathematics 245. Discrete Mathematics (3)
- Mathematics 252. Calculus III (4)
- Mathematics 254. Introduction to Linear Algebra (3)
- Philosophy 120. Introduction to Logic (3)
- Political Science 201. Elementary Statistics for Political Science (3)
- Psychology 280. Statistical Methods in Psychology (4)
- Sociology 201. Elementary Social Statistics (3)
- Statistics 119. Elementary Statistics for Business (3)
- Statistics 250. Statistical Principles and Practices (3)

**Special Provision for Majors in the Sciences and Related Fields**

Some majors require or recommend coursework in astronomy, biology, chemistry, geological sciences, or physics in preparation for the major. If you have declared one of these majors you may substitute those courses for courses listed under either Life Sciences or Physical Sciences (as appropriate) in Section II.A above.

**B. Social and Behavioral Sciences.** Complete two courses taken from different departments (6 units). Students who complete General Studies 260C and 260F will clear the Social and Behavioral Sciences requirement.

- Africana Studies 101A. Introduction to Africana Studies: Social and Behavioral Sciences (3)
- Africana Studies 270. African Foundations of Africana Studies (3)
- Anthropology 102. Introduction to Cultural Anthropology (3)
- Asian Studies 100. State and Society in the Asia Pacific (3)
- Child and Family Development 135. Principles of Family Development (3)
- Child and Family Development 170. Child and Adolescent Development from a Cultural Perspective (3) [Same course as Teacher Education 170; for Liberal Studies majors only.]
- Economics 101. Principles of Economics (3)
- Economics 102. Principles of Economics (3)
- General Studies 260C. Composing Identities (3)
- General Studies 260F. Imagining Communities (3)
- Geography 102. Principles of Cultural Geography (3)
- Geography 106. World Regional Geography (3)
- Gerontology 101. Introduction to Human Aging (3)
- Journalism and Media Studies 200. Introduction to Contemporary Media (3)
- Latin American Studies 101. Latin American Heritage (3)
- Linguistics 101. Introduction to Language (3)
- Political Science 103. Introduction to Comparative Politics (3)
- Professional Studies and Fine Arts 100. Sustainable Development (3)
- Psychology 101. Introductory Psychology (3)
- Sociology 101. Introductory Sociology: The Study of Society (3)
- Sociology 102. Introduction to Social Problems (3)
- Speech, Language, and Hearing Sciences 150. Sign Languages and Deaf Culture (3)
- Teacher Education 170. Child and Adolescent Development from a Cultural Perspective (3) [Same course as Child and Family Development 170; for Liberal Studies majors only.]
- Women's Studies 101. Women: Self, Identity and Society (3)

**C. Humanities.** Complete a course in each of four of the following five areas (12 units). General Studies 260B, Composing Identities and 260E, Imagining Communities, satisfy a total of six units under C. Humanities. Students taking both of these courses must also complete two additional courses from two of the following areas (excluding C.2.) to fulfill the 12 unit requirement in Humanities: 1. Literature, 3. History, 4. Philosophy and Religious Studies, or 5. Foreign Language.

**1. Literature**

- Africana Studies 260. Africana Literary Study (3)
- Comparative Literature 270A. World Literature (3)
- Comparative Literature 270B. World Literature (3)
- English 220. Introduction to Literature (3)

**2. Art, Classics, Dance, Drama, Humanities, and Music**

- Africana Studies 101B. Introduction to Africana Studies: Humanities (3)
- American Indian Studies 110. American Indian Heritage (3)
- Art 157. Introduction to Art (3)
- Art 258. Introduction to Art History I (3)
- Art 259. Introduction to Art History II (3)
- Asian Studies 101. Asian Thought and Cultures (3)
- Asian Studies 150. Understanding the Chinese World (3)

\* Only one of these three courses may be taken for General Education credit.



## Graduation Requirements

Chicana and Chicano Studies 100. Chicana and Chicano Heritage (3)  
 Classics 140. Heritage of Greece and Rome (3)  
 Construction Engineering 101. Construction and Culture (3)  
 Dance 181. Introduction to Dance (3)  
 European Studies 101. Introduction to European Studies (3)  
 German 150. Introduction to German Studies (3)  
 Humanities 101. Introduction to Humanities (3)  
 Humanities 140. Mythology (3)  
 Jewish Studies 130. The Jewish Heritage (3)  
 Music 151. Introduction to Music (3)  
 Russian 110. Slavic Legends and Tales (3)  
 Russian 120. Russia Today: Russian Culture and People (3)  
 Television, Film and New Media 160. Cinema as Art (3)  
 Theatre 100. Theatre and Civilization (3)  
 Theatre 120. Heritage of Storytelling (3)  
 Women's Studies 102. Women: Images and Ideas (3)

### 3. History

History 100. World History (3)  
 History 101. World History (3)  
 History 105. Western Civilization to the Seventeenth Century (3)  
 History 106. Western Civilization Since the Sixteenth Century (3)

### 4. Philosophy and Religious Studies

Africana Studies 240. Africana Intellectual Thought (3)  
 Philosophy 101. Introduction to Philosophy: Ethics (3)  
 Philosophy 102. Introduction to Philosophy: Knowledge and Reality (3)  
 Philosophy 103. Historical Introduction to Philosophy (3)  
 Religious Studies 100. Exploring the Bible (3)  
 Religious Studies 101. World Religions (3)  
 Religious Studies 103. American Religious Diversity (3)

### 5. Foreign Language

Arabic 101. Elementary Arabic I (4)  
 Arabic 102. Elementary Arabic II (4)  
 Arabic 201. Intermediate Arabic I (4)  
 Arabic 202. Intermediate Arabic II (4)  
 Chinese 101. Elementary Chinese I (5)  
 Chinese 102. Elementary Chinese II (5)  
 Chinese 201. Intermediate Chinese I (5)  
 Chinese 202. Intermediate Chinese II (5)  
 Classics 101G. Ancient Greek I (5)  
 Classics 101L. Latin I (5)  
 Classics 120. English Words from Latin and Greek (3)  
 Classics 202G. Ancient Greek II (5)  
 Classics 202L. Latin II (5)  
 Filipino 101. Elementary Filipino I (4)  
 Filipino 102. Elementary Filipino II (4)  
 Filipino 201. Intermediate Filipino (4)  
 French 100A. Elementary French I (5)  
 French 100B. Elementary French II (5)  
 French 201. Readings in French (3)  
 French 210. French Grammar (3)  
 French 220. Grammar of Spoken French (3)  
 French 221. Writing French (3)  
 German 100A. First Course in German (5)  
 German 100B. Second Course in German (5)  
 German 202. Readings in German (3)  
 German 205A. Third Course in German (4)  
 German 205B. Fourth Course in German (4)  
 Hebrew 101. Elementary Hebrew I (3)  
 Hebrew 102. Elementary Hebrew II (3)  
 Hebrew 201. Intermediate Hebrew (4)  
 Italian 100A. Elementary Italian I (5)  
 Italian 100B. Elementary Italian II (5)  
 Italian 201. Reading and Speaking Italian (3)  
 Italian 211. Intermediate Italian I (4)  
 Italian 212. Intermediate Italian II (4)  
 Japanese 111. Elementary Japanese I (6)  
 Japanese 112. Elementary Japanese II (6)  
 Japanese 211. Intermediate Japanese I (6)  
 Japanese 212. Intermediate Japanese II (6)

Korean 101. Elementary Korean I (5)  
 Korean 102. Elementary Korean II (5)  
 Korean 201. Intermediate Korean I (5)  
 Korean 202. Intermediate Korean II (5)  
 Latin American Studies 110. Elementary Mixtec I (4)  
 Latin American Studies 111. Elementary Mixtec II (4)  
 Latin American Studies 120. Elementary Zapotec I (4)  
 Latin American Studies 121. Elementary Zapotec II (4)  
 Latin American Studies 210. Intermediate Mixtec I (4)  
 Persian 101. Elementary Modern Persian I (4)  
 Persian 102. Elementary Modern Persian II (4)  
 Persian 201. Intermediate Persian I (4)  
 Persian 202. Intermediate Persian II (4)  
 Portuguese 101. Elementary/Intensive Portuguese I (5)  
 Portuguese 201. Elementary/Intensive Portuguese II (5)  
 Russian 100A. Beginning Russian 1 (5)  
 Russian 100B. Beginning Russian 2 (5)  
 Russian 200A. Intermediate Russian 1 (5)  
 Russian 200B. Intermediate Russian 2 (5)  
 Spanish 101. Introduction to Spanish I (4)  
 Spanish 102. Introduction to Spanish II (4)  
 Spanish 201. Intermediate Spanish I (4)  
 Spanish 202. Intermediate Spanish II (4)  
 Spanish 211. Intermediate Conversation and Reading (3)  
 Spanish 212. Intermediate Conversation and Writing (3)  
 Spanish 281. Intermediate Spanish for U.S. Hispanics (3)  
 Spanish 282. Intermediate Spanish for U.S. Hispanics (3)  
 Speech, Language, and Hearing Sciences 101. American Sign Language I (4)  
 Speech, Language, and Hearing Sciences 102. American Sign Language II (4)  
 Speech, Language, and Hearing Sciences 201. American Sign Language III (4)  
 Speech, Language, and Hearing Sciences 202. American Sign Language IV (4)  
 Vietnamese 101. Elementary Vietnamese I (4)  
 Vietnamese 102. Elementary Vietnamese II (4)  
 Vietnamese 201. Intermediate Vietnamese I (4)

### III. AMERICAN INSTITUTIONS (3 units)

Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above. Refer to General Education section IV, Explorations of Human Experience for exceptions. Upper division courses in the major department may be used to satisfy General Education section III, American Institutions.

### IV. EXPLORATIONS OF HUMAN EXPERIENCE

**Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education section IV, Explorations of Human Experience.**

No more than **7** units total may be taken in any one department in Foundations of Learning and Explorations of Human Experience combined, and no more than **10** units may be taken in any one department in Foundations of Learning, American Institutions, and Explorations of Human Experience combined.

Complete one course each in areas A, B, and C (9 units). One course must be a course in cultural diversity, designated by an \*. (Majors in the departments of astronomy, biology, chemistry and biochemistry, computer science, environmental sciences, geological sciences, mathematics and statistics, natural science, nursing, and physics may replace the area A course with an additional course from area B or C or an upper division American Institutions course if American Institutions requirement was not completed with lower division coursework.)

#### A. Natural Sciences. Complete one course.

- Anthropology 355. Exploring Primate Behavior (3)
- \* Anthropology 360. From the Grave: Modern Forensic Anthropology (3)
- \* Anthropology 402. Dynamics of Biocultural Diversity (3)
- Astronomy 301. Cosmology and Gravitational Collapse (3)
- Astronomy 310. Astrobiology and the Search for Extraterrestrial Life (3)

\* Cultural diversity course.

- Biology 307. Biology of Sex (3)  
 Biology 315. Ecology and Human Impacts on the Environment (3)  
 Biology 319. Evolution and the Diversity of Life (3)  
 Biology 324. Life in the Sea (3)  
 Biology 326. Plants, Medicines, and Drugs (3)  
 Biology 327. Conservation of Wildlife (3)  
 Biology 336. Principles of Human Physiology (3)  
 Biology 341. The Human Body (3)  
 Chemistry 300. Forensic Science (3)  
 Chemistry 308. Chemistry as a Unifying Science (3)  
 Computer Science 301. Computers and Society (3)  
 Environmental Engineering 320. Designing Solutions for Environmental Problems (3)  
 Environmental Science 301. Energy and the Environment (3)  
 # General Studies 340. Confronting AIDS (3)  
 Geological Sciences 301. Geology of National Parks and Monuments (3)  
 Geological Sciences 302. Fossils: Life Through Time (3)  
 Geological Sciences 303. Natural Disasters (3)  
 Geological Sciences 304. Planetary Geology (3)  
 Geological Sciences 305. Water and the Environment (3)  
 Mathematics 303. History of Mathematics (3)  
 Natural Science 310. Science in Science Fiction (3)  
 Natural Science 315. History of Science and Technology (3)  
 Natural Science 317. Development of Scientific Thought (3)  
 Natural Science 333. Technology and Human Values (3)  
 Nursing 350. Women's Health Across the Lifespan (3)  
 Oceanography 320. The Oceans (3)  
 \* Women's Studies 382. Gender, Science, and Technology (3)
- B. Social and Behavioral Sciences.** Complete one course.
- \* Africana Studies 320. Political Economy of African Diaspora (3)
  - \* Africana Studies 321. Black Political Participation in America (3)
  - \* Africana Studies 322. African American Political Thought (3)
  - \* Africana Studies 341. Cultural Patterns and African American Identity (3)
  - \* Africana Studies 380. Blacks in the American Justice System (3)
  - \* Africana Studies 420. Afro-Americans and the Politics of Urban Education (3)
  - \* Africana Studies 421. Black Urban Experience (3)
  - \* Africana Studies 445. Ethnicity and Social Psychology (3)
  - \* Africana Studies 455. Africana Class, Gender, and Sexualities (3)
  - \* American Indian Studies 320. American Indians in Contemporary Society (3)
  - \* American Indian Studies 420. Indian Peoples of California (3)
  - \* American Indian Studies 451. American Indian Identity (3)  
[Same course as Anthropology 451]
  - \* American Indian Studies 460. American Indian Languages (3)  
[Same course as Linguistics 460]
  - \* Anthropology 348. Historical Archaeology (3)
  - \* Anthropology 350. Cultures Around the Globe (3)
  - \* Anthropology 351. Language and Globalism (3)
  - \* Anthropology 410. Language in Culture (3)
  - \* Anthropology 430. Anthropology of Law and Dispute Processing (3)
  - \* Anthropology 432. Principles of Personality in Culture (3)
  - \* Anthropology 439. Cultural Comparisons Through Film (3)
  - \* Anthropology 440. Mesoamerican Civilization Before the Europeans (3)
  - \* Anthropology 441. South American Civilization Before the Europeans (3)
  - \* Anthropology 442. Cultures of South America (3)
  - \* Anthropology 446. Native Peoples of the Southwest (3)
  - \* Anthropology 448. South Pacific Cultures (3)
  - \* Anthropology 449. Cultures of Sub-Saharan Africa (3)
  - \* Anthropology 450. Cultures of India (3)
  - \* Anthropology 451. American Indian Identity (3)  
[Same course as American Indian Studies 451]
  - \* Anthropology 452. Japanese Society (3)
  - \* Anthropology 457. Native Cultures of California (3)
  - Asian Studies 300. Asia's Global Future (3)
  - Asian Studies 303. Imperialism and Nationalism in the Asia Pacific (3)
  - \* Asian Studies 310. Contemporary Issues in Asian-American Communities (3)
  - \* Asian Studies 320. Asian Environmental Issues (3)
  - \* Asian Studies 450. Socio-Cultural and Health Issues Among Asia Pacific Americans (3)
  - \* Asian Studies 460. Contemporary Issues in Filipino-American Communities (3)
  - \* Chicana and Chicano Studies 301. Political Economy of the Chicano People (3)
  - \* Chicana and Chicano Studies 303. Chicana and Chicano Community Studies (3)
  - \* Chicana and Chicano Studies 320. Chicana and Chicano Life Styles (3)
  - \* Chicana and Chicano Studies 355. The United States-Mexico International Border (3)
  - Child and Family Development 437. Violence in Relationships (3)
  - \* Communication 371. Intercultural Communication (3)
  - Counseling and School Psychology 300. Stress Management and Life Planning (3)
  - \* Counseling and School Psychology 420. Popular Culture and Counseling (3)
  - Economics 330. Comparative Economic Systems (3)
  - \* Economics 464. Economic Problems of Latin America (3)
  - Economics 489. Economics and Population (3)
  - Education 350. Education in American Society (3)
  - Educational Technology 350. Going Global: Designing Your International Learning Experience (3)
  - Exercise and Nutritional Sciences 330. Exercise and Wellness Across the Lifespan (3)
  - \* General Studies 321. Gay and Lesbian Identities in the Modern World (3)
  - General Studies 330. Plagues Through the Ages (3)
  - General Studies 420. Disability and Society (3)
  - \* Geography 312. Culture Worlds (3)
  - \* Geography 321. United States (3)
  - \* Geography 323. Middle America (3)
  - \* Geography 324. South America (3)
  - \* Geography 336. Europe (3)
  - \* Geography 354. Geography of Cities (3)
  - \* Geography 370. Environmental and Natural Resource Conservation (3)
  - \* Gerontology 360. Diversity and Aging (3)
  - \* Gerontology 370. Images of Aging in Contemporary Society (3)
  - \* Health and Human Services 350. Applied International Health and Human Services (3)
  - \* Honors Program 413. Interdisciplinary Perspectives on Social Problems (3)
  - \* International Security and Conflict Resolution 300. Global Systems (3)
  - \* International Security and Conflict Resolution 301. Conflict and Conflict Resolution (3)
  - International Security and Conflict Resolution 310. Our Global Future: Values for Survival (3)
  - International Security and Conflict Resolution 320. International Security in the Nuclear Age (3)
  - Latin American Studies 350. Globalization and the Americas (3)
  - \* Linguistics 344. Language and Gender (3)
  - Linguistics 350. Language and Politics (3)
  - Linguistics 354. Language and Computers (3)
  - Linguistics 420. Linguistics and English (3)
  - \* Linguistics 460. American Indian Languages (3)  
[Same course as American Indian Studies 460]

# Only one of these two courses may be taken for General Education credit.

\* Cultural diversity course.

† Either Asian Studies 460 (IV.B.) or History 422 (IV.C.) may be taken for General Education credit.

## Graduation Requirements

- Political Science 301A. History of Western Political Thought (3)
- Political Science 301B. History of Western Political Thought (3)
- Political Science 302. Modern Political Thought (3)
- \* Political Science 336. Women's Issues in the American Political Process (3)
- Political Science 356. Governments of Continental Europe (3)
- \* Political Science 359. Government and Politics of Russia and the Commonwealth (3)
- \* Political Science 361. Governments and Politics of the Developing Areas (3)
- \* Political Science 362. Governments and Politics of East Asia (3)
- \* Political Science 363. Governments and Politics of the Middle East (3)
- Political Science 370. Political Violence (3)
- Psychology 340. Social Psychology (3)
- Psychology 351. Psychology of Personality (3)
- # Public Health 353. Human Sexuality and Disease (3)
- \* Public Health 362. International Health (3)
- Recreation and Tourism Management 304. Leisure and Tourism (3)
- Recreation and Tourism Management 305. Wilderness and the Leisure Experience (3)
- \* Recreation and Tourism Management 404. Cross-Cultural Perspectives of Tourism (3)
- \* Social Work 350. Cultural Pluralism (3)
- Social Work 360. Perspectives on Human Behavior and the Social Environment (3)
- \* Sociology 320. Sex and Gender in Contemporary Society (3)
- Sociology 335. Mass Communication and Popular Culture (3)
- Sociology 338. Sociology of Religion (3)
- Sociology 350. Population and Contemporary Issues (3)
- Sociology 352. Contemporary Social Problems (3)
- \* Sociology 355. Minority Group Relations (3)
- Sociology 410. Social Psychology: Mind, Self, and Society (3)
- Sociology 421. American Families (3)
- Sociology 430. Social Organization (3)
- Sociology 450. Social Change (3)
- \* Women's Studies 310. Women in Cross-Cultural Perspective (3)
- \* Women's Studies 320. Socialization of Women (3)
- \* Women's Studies 325. Psychology of Women (3)
- \* Women's Studies 331. Women in Asian Societies (3)
- \* Women's Studies 370. Women, Law, and Policy (3)
- \* Women's Studies 375. Sex, Power, and Politics (3)
- \* Women's Studies 385. Women's Work (3)

### C. Humanities. Complete one course.

- \* Africana Studies 365A. African American Literature to 1900 (3)
- \* Africana Studies 365B. African American Literature After 1900 (3)
- \* Africana Studies 385. African American Music (3)
- \* Africana Studies 463. Black Literatures of the World (3)
- \* Africana Studies 464. Caribbean Literature (3)
- \* Africana Studies 465. Africa in Literature and Film (3)  
[Same course as French 465]
- \* Africana Studies 470. Comparative History: Afro-American and African Heritage (3)
- \* Africana Studies 472. African Enslavement (3)
- \* Africana Studies 481. Africana Aesthetics (3)
- \* American Indian Studies 300. American Indian Oral Literature (3)
- \* American Indian Studies 430. American Indian Poetry and Fiction (3)
- \* American Indian Studies 435. Indians Through Film and Television (3)
- \* American Indian Studies 440. American Indian History (3)
- \* American Indian Studies 470. American Indian Religion (3)
- \* Anthropology 349. Roots of Civilizations (3)
- \* Anthropology 422. Music and Culture (3)
- \* Anthropology 424. The Supernatural in Cross-Cultural Perspective (3)

- Arabic 301. Advanced Arabic I (4)
- Arabic 302. Advanced Arabic II (4)
- \*^ Arabic 330. Arabic Culture (3)
- \* Arabic 350. Advanced Conversational Arabic (4)
- Art 357. World Art in Contemporary Life (3)
- \* Asian Studies 451. Modern Asian Literature (3)  
[Same course as Comparative Literature 451]
- \* Asian Studies 456. Contemporary Asian Film (3)
- \* Asian Studies 458. Asian Traditions (3)
- \* Asian Studies 459. Modern Asian Cultures (3)
- \* Chicana and Chicano Studies 310. Mexican and Chicano Music (3)
- \* Chicana and Chicano Studies 335. Chicana and Chicano Literature (3)
- \* Chicana and Chicano Studies 350A. Chicana and Chicano History (3)
- \* Chicana and Chicano Studies 350B. Chicana and Chicano History (3)
- \* Chicana and Chicano Studies 375. US/Mexico Border History (3)
- \* Chicana and Chicano Studies 376. Chicana and Chicano Culture and Thought (3)
- \* Chicana and Chicano Studies 380. US/Mexico Borderlands Folklore (3)
- \* Chicana and Chicano Studies 400. Mexican Images in Film (3)
- \* Chicana and Chicano Studies 450. Contemporary Chicana and Chicano Theatre (3)
- Chinese 301. Advanced Chinese I (3)
- Chinese 302. Advanced Chinese II (3)
- \*^ Chinese 352. Aspects of Chinese Language (3)
- Classics 303G. Reading Greek Prose (3)
- Classics 303L. Reading Latin Prose (3)
- Classics 304G. Reading Greek Poetry (3)
- Classics 304L. Reading Latin Poetry (3)
- Classics 310. Greek and Roman Myth and Legend (3)
- Classics 320. Epic and the Novel (3)
- Classics 330. Tragedy and Comedy (3)
- Classics 340. Ancient Greece and Rome (3)
- Classics 350. Classics and Cinema (3)
- Comparative Literature 405. The Bible as Literature (3)  
[Same course as English 405]
- \* Comparative Literature 440. African Literature (3)
- \* Comparative Literature 445. Modern Latin American Literature (3)
- \* Comparative Literature 451. Modern Asian Literature (3)  
[Same course as Asian Studies 451]
- \* Comparative Literature 455. Classical Asian Literature (3)
- \* Comparative Literature 470. Folk Literature (3)  
[Maximum GE credit 3 units]
- \* Dance 382. Dance in World Cultures (3)
- English 301. The Psychological Novel (3)
- @ English 302. Introducing Shakespeare (3)
- English 401. Childhood's Literature (3)
- English 405. The Bible as Literature (3)  
[Same course as Comparative Literature 405]
- English 409. Science Fiction (3)
- English 410. Literature and the Passions (3)
- English 494. Modern Fiction of the United States (3)
- European Studies 301. Contemporary Europe (3)
- European Studies 424. European Cinema (3)
- French 301. Advanced Grammar and Composition (3)
- French 302. Advanced Grammar and Translation (3)
- French 305A. Survey of French Literature (3)
- French 305B. Survey of French Literature (3)
- French 421. French Civilization (3)
- French 422. Contemporary France (3)
- \*^ French 424. French Cinema and Theory (3)
- \*^ French 465. Africa in Literature and Film (3)  
[Same course as Africana Studies 465]
- \* General Studies 322. Gay and Lesbian History and Culture (3)
- General Studies 450. Life and Culture Semester Abroad (3)
- German 300. Readings in Contemporary German Culture (3)
- German 301. Grammar and Composition (3)
- ^ German 320. German Film (3)
- \* Hebrew 330. Hebrew Discourse and Literature (3)
- \* Hebrew 471. Kabbalah as a Symbolic System (3)

\* Cultural diversity course.

# Only one of these two courses may be taken for General Education credit.

^ Taught in English.

@ English 533 may not be used in place of English 302 for General Education credit.

- \* History 402. History of Childhood (3)
- \* History 406. History of Sexuality (3)
- History 407. Early Modern Europe (3)
- History 408. Modern Europe (3)
- \* History 415. Pre-Contact and Colonial Latin America (3)
- \* History 416. Modern Latin America (3)
- \* History 420. Asia's Dynamic Traditions (3)
- \* History 421. Asia's Emerging Nations (3)
- \*† History 422. Asian American Experiences (3)
- \* History 436. Modern Jewish History in Feature Films (3)
- History 440. The Holocaust and Western Civilization (3)
- History 441. Unnatural Disasters: History of Current Environmental Problems (3)
- History 442. People From Our Past (3)
- \* History 473. Middle Eastern History from the Advent of Islam to 1500 (3)
- \* History 474. The Middle East Since 1500 (3)
- \* History 488. Modern Jewish History (3)
- Humanities 310. French Humanities (3)
- Humanities 320. German Humanities (3)
- Humanities 330. Russian Humanities (3)
- Humanities 340. Italian Humanities (3)
- Humanities 370. Humanities in America (3)
- Humanities 401. Age of Faith (3)
- Humanities 402. Renaissance (3)
- Humanities 403. Age of Enlightenment (3)
- Humanities 404. Romanticism to Postmodernism (3)
- \* Humanities 460. African Civilizations (3)
- Italian 301. Advanced Oral and Written Composition (3)
- Italian 305A. Italian Literature (3)
- Italian 305B. Italian Literature (3)
- Italian 421. Italian Civilization (3)
- Japanese 311. Third Year Japanese I (4)
- Japanese 312. Third Year Japanese II (4)
- Korean 301. Advanced Korean I (3)
- Korean 302. Advanced Korean II (3)
- \* Korean 321. Korean Civilization (3)
- \* Latin American Studies 307. Brazilian Music and Culture (3)  
[Same course as Portuguese 307]
- \* Latin American Studies 370. History of Mexico: From Independence to Early Twentieth Century (3)
- Linguistics 410. History of English (3)
- \* Music 345. World Music in Contemporary Life (3)
- Music 351C. History of Rock and Roll (3)
- Music 351D. Jazz in America (3)
- Persian 301. Advanced Persian I (4)
- Persian 302. Advanced Persian II (4)
- Philosophy 305. Classics of Western Philosophy (3)
- Philosophy 310. Philosophy and Human Nature (3)
- Philosophy 329. Social Ethics (3)
- Philosophy 330. Medical Ethics (3)
- Philosophy 332. Environmental Ethics (3)
- Philosophy 334. Philosophy and Literature (3)
- Philosophy 340. Morality of War and Peace (3)
- \* Philosophy 351. Chinese Philosophy (3)
- \* Philosophy 353. Buddhist Philosophy (3)
- Portuguese 301. Intermediate Portuguese Grammar and Composition (3)
- \* Portuguese 307. Brazilian Music and Culture (3)  
[Same course as Latin American Studies 307]
- Portuguese 401. Advanced Portuguese Grammar and Composition (3)
- Professional Studies and Fine Arts 320. Creativity and Communication in the Arts (3)
- Religious Studies 301. Hebrew Bible (3)
- Religious Studies 305. The New Testament (3)
- \* Religious Studies 310. The Qur'an (3)
- Religious Studies 320. Judaism (3)
- Religious Studies 325. Christianity (3)
- \* Religious Studies 328. Islam (3)
- \* Religious Studies 330. Abrahamic Faiths: Shared Stories (3)
- \* Religious Studies 338. Buddhism (3)
- \* Religious Studies 339. Religions of India (3)
- \* Religious Studies 345. Religions of East Asia (3)
- Religious Studies 350. Varieties of Religious Experience (3)
- Religious Studies 353. Religion and Psychology (3)
- \* Religious Studies 358. Death, Dying, and Afterlife (3)
- Religious Studies 363. Religion and the Sciences (3)
- Religious Studies 364. Religion and Film (3)
- \* Religious Studies 370. Women in Religion (3)
- \* Religious Studies 373. Women and the Bible (3)
- Religious Studies 376. Nature, Spirituality, Ecology (3)
- Religious Studies 379. Religious Violence and Nonviolence (3)
- Religious Studies 395. New Religions (3)
- Russian 301. Advanced Grammar and Composition (3)
- ^ Russian 305A. Russian Literature of the Nineteenth Century (3)
- ^ Russian 305B. Russian Literature of the Twentieth Century (3)
- ^ Russian 310. Russian and East European Cinema (3)
- Russian 430. Russian Civilization (3)
- \*^ Russian 435. Russian and East European Jewish Culture (3)
- Spanish 340. Spanish Civilization (3)
- Spanish 341. Spanish American Civilization (3)
- \* Spanish 342. Mexican Civilization (3)
- Spanish 405A. Survey Course in Spanish Literature (3)
- Spanish 405B. Survey Course in Spanish Literature (3)
- Spanish 406A. Survey of Spanish American Literature (3)
- Spanish 406B. Survey of Spanish American Literature (3)
- Television, Film and New Media 363. International Cinema (3) [Maximum GE credit 3 units]
- Television, Film and New Media 430. History of Prime-Time Television (3)
- Television, Film and New Media 462. Documentary: History and Theory (3)
- Theatre 460A. History of the Theatre (3)
- Theatre 460B. History of the Theatre (3)
- \* Theatre 465. Theatre of Diversity (3)
- \* Women's Studies 336. Women of Color in the United States (3)
- \* Women's Studies 340. Women in Modern European History (3)
- \* Women's Studies 352. Women in Literature (3)
- \* Women's Studies 360. Women's Sexuality and the Body (3)

\* **Cultural diversity course.**

† **Either Asian Studies 460 (IV.B.) or History 422 (IV.C.) may be taken for General Education credit.**

^ **Taught in English.**

### Application for Graduation

Graduation is not automatic upon the completion of requirements. Students who intend to graduate must take the initiative. When they believe they are eligible, they should file an application with the Office of the Registrar. Deadlines by which applications must be received in the Office of the Registrar are published each year in the academic calendar and on the Apply to Graduate Web site at <http://www.sdsu.edu/apply-tograduate>. A nonrefundable application fee of \$55.00 is required.

All requirements must be completed by the graduation date. Candidates for graduation are not eligible to register for terms subsequent to the graduation date unless an application for readmission as a postbaccalaureate student has been filed with Graduate Admissions.

Students not completing requirements will have their graduation cancelled and must reapply for graduation during the appropriate filing period. Candidates who wish to change their projected graduation date between May and August may do so by submitting a Graduation Term Transfer Form. Changes between December and May or August graduation dates require a new application. Both term transfer and reapplication require a nonrefundable \$55.00 fee.

**Graduation requirements will be determined by the continuous enrollment regulations. A student not in a period of continuous enrollment at the time of filing for a bachelor's degree must meet the catalog requirements in effect at the time of filing.** Continuous enrollment is defined here as attendance in at least one semester or two quarters within a calendar year. See the Election of Regulations for Graduation section below for complete regulations. After the degree is granted **no** changes can be made to the undergraduate record.

**Time Limit on Completion of Requirements for the Major.** As authorized by Title 5, *California Code of Regulations*, Section 40401, departments may require that specific academic requirements be met within seven years of granting an undergraduate degree. Such requirements will consist of advanced courses and examinations in areas of knowledge changing so rapidly that information may be obsolete after seven years. In those cases in which a student is required to repeat a course taken more than seven years previously, only the last grade will be used in computation of grade point averages.

**NOTE:** San Diego State University does not backdate degrees. The semester in which all your requirements are completed is the semester in which your degree will be posted to your academic record as long as you have an active application for graduation on file.

### Election of Regulations for Graduation

An undergraduate student remaining in attendance in regular session at any California State University campus, any California community college, or any combination of California community colleges and campuses of The California State University may, for purposes of meeting graduation requirements, elect to meet the requirements in effect at San Diego State University either at the time the student began such attendance or at the time of entrance to the campus or at the time of graduation. Substitutions for discontinued courses may be authorized or required by the proper authorities.

"Attendance" is defined here as attendance in at least one semester or two quarters within a calendar year. Absence due to an approved educational leave or for attendance at another accredited institution of higher learning shall not be considered an interruption in attendance if the absence does not exceed two years. When students change or declare their majors, they must adopt the requirements of the major and any minors in effect at that time.

### Commencement

Commencement exercises are held once a year at the end of the spring semester for undergraduate students who graduated fall of the previous year, candidates for graduation in spring and summer of the current year, graduate students who graduated summer or fall of the previous year, and graduate student candidates for spring of the current year. The president of the university, by the authority of the trustees and on recommendation of the faculty, awards the degrees. Details regarding the exercises are mailed to prospective participants in March and are made available on the Commencement Web site at <http://www.sdsu.edu/commencement>.





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# Summary of Curricula Offered

## Types of Curricula Offered

San Diego State University offers the following types of curricula:

**Undergraduate Curricula.** Undergraduate curricula provide the following opportunities for study:

(1) **Liberal arts and sciences:** Curricula in the academic major fields, leading to the Bachelor of Arts degree in liberal arts and sciences.

(2) **Applied arts and sciences:** Curricula in major fields leading to the Bachelor of Science, Bachelor of Arts, Bachelor of Fine Arts in Dance, or Bachelor of Music degree in applied arts and sciences.

(3) **Professional curricula:** The College of Business Administration offers the Bachelor of Science degree in business administration with majors in seven fields; the College of Engineering offers the Bachelor of Science degree in engineering with majors in six fields; and the College of Education offers curricula in teacher education leading to graduate credentials at all levels of public school teaching.

The School of Speech, Language, and Hearing Sciences offers curricula leading to clinical certification and graduate credentials in speech pathology, audiology, and speech, language, and hearing sciences.

The School of Nursing offers the Bachelor of Science degree and the Master of Science degree in Nursing (areas of concentration are advanced practice nursing of adults and the elderly, community health nursing, nursing education, and nursing leadership in health care systems) and offers a curriculum leading to registered nurse licensure, public health nurse credential, health services credential (school nurse services), and nurse educator.

(4) **Preprofessional and nondegree curricula:** Programs are offered in allied health, pre dental, prelegal, premedical, and preveterinary leading to transfer to professional schools. Air Force, Army, and Naval ROTC programs are also available.

**Graduate Curricula.** The Division of Graduate Affairs offers curricula in the various colleges and departments leading to the Master of Arts and Master of Science degrees in a wide variety of fields, the Master of Arts in Teaching, the Master of Business Administration, the Master of Business Administration and Juris Doctor, the Master of City Planning, the Master of Engineering, the Master of Fine Arts in Art, the Master of Fine Arts in Creative Writing, the Master of Fine Arts in Theatre Arts, the Master of Music, the Master of Public Administration, the Master of Public Health, and the Master of Social Work, Master of Social Work and Juris Doctor.

Also offered are the Educational Specialist in school psychology, the Professional Doctorate in audiology, the Doctor of Education, the Doctor of Education in educational leadership, and the Doctor of Philosophy in biology (cell and molecular), chemistry, clinical psychology, computational science, ecology, education, engineering sciences/applied mechanics, evolutionary biology, geography, geophysics, language and communicative disorders, mathematics and science education, and public health.

## Degrees and Certificates

San Diego State University offers the following degrees and certificates:

Bachelor of Arts  
Bachelor of Fine Arts (Dance)  
Bachelor of Science  
Bachelor of Music  
Master of Arts  
Master of Arts in Teaching  
Master of Science  
Master of Business Administration  
Master of Business Administration and Juris Doctor  
Master of City Planning  
Master of Engineering  
Master of Fine Arts (Art, Creative Writing, Theatre Arts)  
Master of Music  
Master of Public Administration  
Master of Public Health  
Master of Social Work  
Master of Social Work and Juris Doctor  
Master of Social Work and Master of Public Health  
Educational Specialist in School Psychology  
Doctor of Audiology  
Doctor of Education  
Doctor of Philosophy

Nondegree programs leading to certificates are offered in Accounting, Applied Gerontology, Algebra Specialist, Art (Imperial Valley Campus only), Artist Diploma (Music), Behavior Analysis, Bilingual (Spanish) Special Education, Bilingual Speech-Language Pathology, Biomedical Quality Systems, Biotechnology, Business Administration (Imperial Valley Campus only), Children's/Adolescent Literature, Communications Systems, Cognitive Disabilities, Community College Teaching, Computational Linguistics, Developing Gifted Potential, Distance Education, Dual Language Bilingual, Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist, Early Childhood Special Education, Educational Facility Planning, Environmental Studies, Family Life Education, Geographic Information Science, Industrial/Organizational Psychology, Institutional Research, Planning, and Assessment, Instructional Design, Instructional Technology, Mathematics Specialist, Museum Studies, Nursing Education, Performance, Personal Financial Planning, Preventative Medicine Residency, Primary Grade Writing Instruction, Professional Computational Science, Professional Writing, Psychiatric Rehabilitation, Public Administration (Imperial Valley Campus only), Rehabilitation Administration, Rehabilitation Technology, Regulatory Affairs, Single Subject Mathematics, Spanish Court Interpreting (Imperial Valley Campus only), Spanish Translation and Interpretation Studies, Supported Employment and Transition Specialist, Teacher Induction: Fifth Year, Teaching English as a Second or Foreign Language (TESL/TEFL), Teaching of Writing, Transborder Public Administration and Governance, United States-Mexico Border Studies, and Workforce Education and Lifelong Learning.



## Types of Degrees Offered by Major

Majors	Applied Arts and Sciences		Liberal Arts and Sciences	Graduate Curricula		
	B.A., B.F.A.	B.S.		M.A., M.F.A.	M.S., Ed.S., M.A.T.	Au.D., Ph.D., Ed.D.
Accountancy .....	-	-	-	-	M.S.	-
# Accounting .....	-	B.S.	-	-	-	-
Aerospace engineering.....	-	B.S.	-	-	M.S.	-
Africana studies.....	-	-	B.A.	-	-	-
American Indian studies.....	-	-	B.A.	-	-	-
Anthropology .....	-	-	B.A.	M.A.	-	-
Applied mathematics .....	-	-	-	-	M.S.	-
Art.....	B.A.	-	B.A.	M.A., M.F.A.	-	-
Asian studies .....	-	-	B.A.	M.A.	-	-
Astronomy .....	-	B.S.	B.A.	-	M.S.	-
Audiology .....	-	-	-	-	-	Au.D.
Bioengineering .....	-	-	-	-	M.S.	-
Bioinformatics and medical informatics.....	-	-	-	-	M.S.	-
Biology.....	-	B.S.	B.A.	M.A.	M.S.	Ph.D.
Biomedical quality systems.....	-	-	-	-	M.S.	-
Business administration .....	-	B.S.	-	M.B.A.	M.S.	-
Business administration and juris doctor .....	-	-	-	M.B.A./J.D.	-	-
Business administration/Latin American studies...	-	-	-	M.B.A./M.A.	-	-
Chemical physics .....	-	B.S.	-	-	-	-
Chemistry .....	-	B.S.	B.A.	M.A.	M.S.	Ph.D.
Chicana and Chicano studies.....	-	-	B.A.	M.A.	-	-
Child development .....	-	B.S.	-	-	M.S.	-
City planning .....	-	-	-	-	M.C.P.	-
Civil engineering.....	-	B.S.	-	-	M.S.	-
Classics .....	-	-	B.A.	-	-	-
Communication .....	B.A.	-	B.A.	M.A.	-	-
Comparative literature .....	-	-	B.A.	-	-	-
Computational science.....	-	-	-	-	M.S.	Ph.D.
Computer engineering .....	-	B.S.	-	-	-	-
Computer science.....	-	B.S.	-	-	M.S.	-
Construction engineering.....	-	B.S.	-	-	-	-
Counseling .....	-	-	-	-	M.S.	-
Creative writing .....	-	-	-	M.F.A.	-	-
Criminal justice .....	-	B.S.	-	-	-	-
Criminal justice and criminology .....	-	-	-	-	M.S.	-
Dance .....	B.F.A.	-	B.A.	-	-	-
Ecology.....	-	-	-	-	-	Ph.D.
Economics.....	-	-	B.A.	M.A.	-	-
Education .....	-	-	-	M.A.	M.A.T.	Ph.D.
Educational leadership.....	-	-	-	-	-	Ed.D.
Educational technology.....	-	-	-	-	-	Ed.D.
School psychology .....	-	-	-	-	Ed.S.	-
Teaching and learning.....	-	-	-	-	-	Ed.D.
Electrical engineering.....	-	B.S.	-	-	M.S.	Ph.D.
Engineering .....	-	-	-	-	M.Eng.	-
English.....	-	-	B.A.	M.A.	-	-
Environmental engineering.....	-	B.S.	-	-	-	-
Environmental sciences .....	-	B.S.	-	-	-	-
European studies .....	-	-	B.A.	-	-	-
Evolutionary biology .....	-	-	-	-	-	Ph.D.
Exercise physiology .....	-	-	-	-	M.S.	-
Exercise physiology and nutritional science.....	-	-	-	-	M.S./M.S.	-
# Finance.....	-	B.S.	-	-	-	-
# Financial services.....	-	B.S.	-	-	-	-
Foods and nutrition.....	-	B.S.	-	-	-	-
French .....	-	-	B.A.	M.A.	-	-
Geography .....	-	B.S.	B.A.	M.A.	M.S.	Ph.D.
Geological sciences.....	-	B.S.	-	-	M.S.	-
Geophysics .....	-	-	-	-	-	Ph.D.
German .....	-	-	B.A.	-	-	-
Gerontology .....	-	-	B.A.	-	M.S.	-
Health science.....	-	B.S.	-	-	-	-
History .....	-	-	B.A.	M.A.	-	-
Homeland security .....	-	-	-	-	M.S.	-
Hospitality and tourism management.....	-	B.S.	-	-	-	-
Humanities.....	-	-	B.A.	-	-	-
# Information systems .....	-	B.S.	-	-	-	-
Interdisciplinary studies .....	-	-	B.A.	M.A.	M.S.	-
International business .....	-	-	B.A.	-	-	-
International security and conflict resolution .....	-	-	B.A.	-	-	-
Japanese.....	-	-	B.A.	-	-	-
Journalism .....	-	-	B.A.	-	-	-
Juris doctor and business administration .....	-	-	-	M.B.A./J.D.	-	-
Juris doctor and social work .....	-	-	-	-	M.S.W./J.D.	-
Kinesiology .....	-	B.S.	-	M.A.	-	-
Language and communicative disorders .....	-	-	-	-	-	Ph.D.
Latin American studies.....	-	-	B.A.	M.A.	-	-
Latin American studies/business administration...	-	-	-	M.B.A./M.A.	-	-
Latin American studies and public health.....	-	-	-	M.A./M.P.H.	-	-
Liberal arts and sciences.....	-	-	-	M.A.	-	-
Liberal studies.....	B.A.	-	-	-	-	-
Linguistics .....	-	-	B.A.	M.A.	-	-

# An emphasis within the B.S. in Business Administration.

Types of Degrees Offered by Major – *continued*

Majors	Applied Arts and Sciences		Liberal Arts and Sciences	Graduate Curricula		
	B.A., B.F.A.	B.S.	B.A.	M.A., M.F.A.	M.S., Ed.S.	Au.D., Ph.D., Ed.D.
# Management.....	–	B.S.	–	–	–	–
# Marketing.....	–	B.S.	–	–	–	–
Mathematics.....	–	B.S.	B.A.	M.A.	–	–
Mathematics and science education.....	–	–	–	–	–	Ph.D.
Mechanical engineering.....	–	B.S.	–	–	M.S.	–
Microbiology.....	–	B.S.	B.A.	–	M.S.	–
Modern Jewish studies.....	–	–	B.A.	–	–	–
Music.....	–	B.M.	B.A.	M.A.	M.M.	–
Nursing.....	–	B.S.	–	–	M.S.	–
Nutritional sciences.....	–	–	–	–	M.S.	–
Nutritional science and exercise physiology.....	–	–	–	–	M.S./M.S.	–
Philosophy.....	–	–	B.A.	M.A.	–	–
Physical science.....	B.A.	–	–	–	–	–
Physics.....	B.A.	B.S.	–	M.A.	M.S.	–
Political science.....	–	–	B.A.	M.A.	–	–
Psychology.....	–	–	B.A.	M.A.	M.S.	Ph.D.
Public administration.....	B.A.	–	–	–	M.P.A.	–
Public health.....	–	–	–	–	M.P.H., M.S.	Ph.D.
Public health and Latin American studies.....	–	–	–	–	M.P.H./M.A.	–
Public health and social work.....	–	–	–	–	M.S.W./M.P.H.	–
Radiological health physics.....	–	–	–	–	M.S.	–
# Real estate.....	–	B.S.	–	–	–	–
Recreation administration.....	–	B.S.	–	–	–	–
Regulatory affairs.....	–	–	–	–	M.S.	–
Rehabilitation counseling.....	–	–	–	–	M.S.	–
Religious studies.....	–	–	B.A.	–	–	–
Rhetoric and writing studies.....	–	–	–	M.A.	–	–
Russian.....	–	–	B.A.	–	–	–
Russian and Central European studies.....	–	–	B.A.	–	–	–
Social science.....	–	–	B.A.	–	–	–
Social work.....	–	–	B.A.	–	M.S.W.	–
Social work and juris doctor.....	–	–	–	–	M.S.W./J.D.	–
Social work and public health.....	–	–	–	–	M.S.W./M.P.H.	–
Sociology.....	–	–	B.A.	M.A.	–	–
Spanish.....	–	–	B.A.	M.A.	–	–
Speech, language, and hearing sciences.....	–	–	B.A.	M.A.	–	–
Statistics.....	–	B.S.	–	–	M.S.	–
Television, film and new media production.....	–	B.S.	–	M.A.	–	–
Theatre arts.....	B.A.	–	–	M.A., M.F.A.	–	–
Urban studies.....	–	–	B.A.	–	–	–
Women's studies.....	–	–	B.A.	M.A.	–	–

# An emphasis within the B.S. in Business Administration.

## Curricula Summary

### Emphases and Concentrations

An emphasis or concentration is defined as an aggregate of courses within a degree major designed to give a student specialized knowledge, competence, or skill. Completion of an emphasis or concentration is noted on the student's transcript and diploma for undergraduate students.

#### BACCALAUREATE MAJORS

**Art** (B.A., Liberal Arts and Sciences)

**Emphases:**

Art History  
Studio Arts

**Art** (B.A., Applied Arts and Sciences)

**Emphases:**

Applied Design  
Graphic Design  
Interior Design  
Multimedia  
Painting and Printmaking  
Sculpture

**Asian Studies** (B.A., Liberal Arts and Sciences)

**Emphasis:**

Chinese Studies and Language

**Biology** (B.S., Applied Arts and Sciences)

**Emphases:**

Bioengineering  
Cellular and Molecular Biology  
Ecology  
Evolution and Systematics  
Marine Biology  
Zoology

**Chemistry** (B.S., Applied Arts and Sciences)

**Emphasis:**

Biochemistry

**Classics** (B.A., Liberal Arts and Sciences)

**Emphases:**

Classical Humanities  
Classical Language

**Communication** (B.A., Liberal Arts and Sciences)

**Emphasis:**

Telecommunications and Film

**Economics** (B.A., Liberal Arts and Sciences)

**Emphases:**

International Economics  
Preprofessional Studies

**Environmental Sciences** (B.S., Applied Arts and Sciences)

**Emphasis:**

Watershed Science

**European Studies** (B.A., Liberal Arts and Sciences)

**Emphases in language:**

French  
German  
Italian  
Portuguese  
Russian  
Spanish

**Geography** (B.A., Liberal Arts and Sciences)

**Emphases:**

Methods of Geographical Analysis  
Natural Resource and Environmental  
Physical Geography  
Urban and Regional Analysis

**Geography**

(B.S., Applied Arts and Sciences)

**Emphasis:**

Geographic Information Science

**Geological Sciences**

(B.S., Applied Arts and Sciences)

**Emphases:**

General Geology  
Engineering Geology  
Geochemistry  
Geophysics  
Hydrogeology  
Marine Geology  
Paleontology

**German** (B.A., Liberal Arts and Sciences)

**Emphasis:**

German Studies

**Health Science** (B.S., Applied Arts and Sciences)

**Emphasis:**

Public Health

**Hospitality and Tourism Management** (B.S., Applied Arts and Sciences)

**Emphases:**

Global Tourism Management  
Hotel Operations and Management  
Meetings and Events Operations and Management  
Restaurant Operations and Management  
Tribal Gaming Operations and Management

**Humanities** (B.A., Liberal Arts and Sciences)

**Emphasis:**

European Humanities

**International Business** (B.A., Liberal Arts and Sciences)

**Emphasis in language:**

Arabic  
Chinese  
French  
German  
Italian  
Japanese  
Portuguese  
Russian  
Spanish

**Emphasis in regional/cultural studies:**

Africa-Middle East  
Asia-Pacific  
Latin America  
North America  
Russia and Central Europe  
Western Europe

**Journalism** (B.A., Liberal Arts and Sciences)

**Emphases:**

Advertising  
Media Studies  
Public Relations

**Kinesiology** (B.S., Applied Arts and Sciences)

**Emphases:**

Athletic Training  
Fitness, Nutrition, and Health  
Physical Education  
Prephysical Therapy

**Mathematics** (B.S., Applied Arts and Sciences)

**Emphases:**

Applied Mathematics  
Computational Science  
Mathematical Finance  
Science

**Microbiology** (B.S., Applied Arts and Sciences)

**Emphasis:**

Clinical Laboratory Science and  
Public Health Microbiology

**Public Administration**

(B.A., Applied Arts and Sciences)

**Emphasis:**

City Planning

**Recreation Administration**

(B.S., Applied Arts and Sciences)

**Emphases:**

Outdoor Resource Management  
Recreation Systems Management  
Sustainable Tourism Management

**Social Science** (B.A., Liberal Arts and Sciences)

**Emphases:**

Environmental Studies  
Islamic and Arabic Studies

**Statistics** (B.S., Applied Arts and Sciences)

**Emphases:**

Actuarial Science  
Statistical Computing

**Television, Film and New Media** (B.S., Applied Arts and Sciences)

**Emphases:**

Critical Studies  
Production

**Theatre Arts** (B.A., Applied Arts and Sciences)

**Emphases:**

Children's Drama  
Design and Technology for Theatre  
Design for Television and Film  
Performance

#### GRADUATE MAJORS

**Applied Mathematics** (M.S.)

**Concentrations:**

Dynamical Systems  
Mathematical Theory of Communication Systems

**Art** (M.A.)

**Concentrations:**

Art History  
Studio Arts

**Biology** (M.A. or M.S.)

**Concentrations:**

Ecology  
Evolutionary Biology  
Molecular Biology  
Physiology

**Business Administration** (M.S.)

**Concentration:**

Entrepreneurship  
Finance  
Financial and Tax Planning  
Information Systems  
International Business  
Management  
Marketing  
Real Estate  
Supply Chain Management  
Taxation

**Civil Engineering** (M.S.)

**Concentration:**

Environmental Engineering

**Computational Science** (M.S.)

**Concentration:**

Professional Applications

**Counseling** (M.S.)

**Concentrations:**

Marriage and Family Therapy  
School Counseling

**Education**

**Concentrations (M.A.):**

Counseling  
Educational Leadership  
Educational Research  
Educational Technology  
Elementary Curriculum and Instruction  
Mathematics Education  
Policy Studies in Language and Cross-cultural Education  
Reading Education  
Secondary Curriculum and Instruction  
Special Education

**Geography**

**Concentrations (M.S.):**

Geographic Information Science  
Watershed Science

**Nursing** (M.S.)

**Concentrations:**

Advanced Practice Nursing of Adults and the Elderly  
Community Health Nursing  
Nursing Education  
Nursing Leadership in Health Care Systems

**Psychology** (M.S.)

**Concentrations:**

Applied Psychology  
Clinical Psychology (included within the Ph.D. program; not available separately)

**Public Administration** (MPA)

**Concentrations:**

City Planning  
Criminal Justice Administration

**Public Health**

**Concentrations (MPH):**

Biometry  
Environmental Health  
Epidemiology  
Health Management and Policy  
Health Promotion and Behavioral Science  
**Concentration (M.S.):**  
Toxicology

## Speech, Language, and Hearing Sciences (M.A.)

### Concentrations:

Speech-Language Pathology  
Communicative Sciences

## Statistics (M.S.)

### Concentration:

Biostatistics

## Theatre Arts (M.F.A.)

### Concentrations:

Acting  
Design and Technical Theatre  
Musical Theatre

## Credentials Offered

### Teaching Credentials

Multiple subject; internship  
Multiple subject cross-cultural, language and academic development (CLAD) emphasis  
Multiple subject bilingual cross-cultural language and academic development (BCLAD) emphasis: Spanish; internship  
Single subject; internship  
Single subject cross-cultural, language, and academic development (CLAD) emphasis  
Single subject bilingual cross-cultural language and academic development (BCLAD) emphasis: Spanish

### Specialist Credentials

BCLAD  
Education Specialist for the deaf and hard of hearing, levels I and II  
Reading/Language Arts  
Special Education:  
Early Childhood Special Education, levels I and II; internship credential  
Mild/Moderate Disabilities, levels I and II; internship credential  
Moderate/Severe Disabilities, levels I and II; internship credential

### Service Credentials

Administrative; internship  
Child Welfare and Attendance  
Pupil Personnel:  
School Counseling  
School Nurse  
School Psychology; internship  
School Social Work  
Speech Language Pathology

## Minors for the Bachelor's Degree

Accounting  
Advertising  
Aerospace Studies  
African Studies  
Africana Studies  
American Indian Studies  
Anthropology  
Art  
Art History  
Asian Studies  
Astronomy  
Biology  
Business Administration  
Chemistry  
Chicana and Chicano Studies  
Child Development  
Chinese  
Classics  
Communication  
Comparative Literature  
Computer Science  
Counseling and Social Change  
Dance  
Economics  
Educational Technology  
Energy Studies

Engineering  
English  
Environment and Society  
European Studies  
Finance  
French  
Geography  
Geological Sciences  
German  
Gerontology  
Health Science  
History  
Honors in Interdisciplinary Studies  
Humanities  
Information Systems  
International Security and Conflict Resolution  
International Studies, PSFA  
Italian  
Islamic and Arabic Studies  
Japanese  
Journalism  
Judaic Studies  
Latin American Studies  
Leadership Development  
Lesbian, Gay, Bisexual, and Transgender Studies  
Linguistics  
Management  
Marketing  
Mathematics  
Media Arts and Technology  
Military Science  
Music  
Naval Science  
Oceanography  
Philosophy  
Physics  
Political Science  
Portuguese  
Psfa International Studies  
Psychology  
Public Administration  
Public Relations  
Real Estate  
Recreation  
Religious Studies  
Rhetoric and Writing Studies  
Russian  
Small Business Management (Imperial Valley Campus only)  
Social Work  
Sociology  
Spanish  
Statistics  
Television, Film and New Media  
Theatre Arts  
United States-Mexican Border Studies  
Women's Studies

## Special Curricula

### Preprofessional Curricula

Dental  
Prelegal  
Premedical  
Preveterinary

### Military Curricula

Aerospace Studies (AFROTC)  
Military Science (ROTC)  
Naval Science (NROTC)

## Certificate Programs (nondegree)

Academic Literacy Development for English Language Learners  
Accounting  
Algebra Specialist  
Applied Gerontology  
Artist Diploma  
Behavior Analysis  
Bilingual Speech-Language Pathology  
Biomedical Quality Systems

Biotechnology  
Business Administration (Imperial Valley Campus Only)  
Children's/Adolescent Literature  
Cognitive Disabilities  
Communications Systems  
Community College Teaching  
Computational Linguistics  
Court Interpreting (Imperial Valley Campus Only)  
Developing Gifted Potential  
Distance Education  
Dual Language Bilingual  
Early Childhood-Socio-Emotional and Behavior Regulation Intervention Specialist  
Early Childhood Special Education  
Environmental Studies  
Family Life Education  
Geographic Information Science  
Industrial/Organizational Psychology  
Instructional Design  
Instructional Technology  
Lesbian, Gay, Bisexual, and Transgender Mathematics Specialist  
Mexico (BCLAD)  
Museum Studies  
Nursing Education  
Performance  
Personal Financial Planning  
Preventive Medicine Residency  
Primary Grade Writing Instruction  
Professional Computational Science  
Professional Writing  
Psychiatric Rehabilitation  
Public Administration (Imperial Valley Campus Only)  
Reading  
Regulatory Affairs  
Rehabilitation Administration  
Rehabilitation Technology  
Single Subject Mathematics  
Supported Employment and Transition Specialist  
Teacher Induction: Fifth Year  
Teaching English as a Second or Foreign Language (TESL/TEFL)  
Teaching Of Writing  
Transborder Public Administration and Governance  
Translation and Interpretation Studies (Spanish)  
United States-Mexico Border Studies  
Workforce Education and Lifelong Learning

### The following non-credit programs are available through Extension only.

Advanced Government Contract Management  
Business of Wine  
Casino Gaming  
Coaching for Organizational Excellence  
Construction Estimating Online  
Construction Inspection Technology  
Construction Practices  
Construction Supervisory Online  
Financial Management  
Government Contract Management  
Green Building Construction  
Health Care  
Healthy Aging  
Hospitality  
Human Resource Management  
Leading Strategically  
Lean Manufacturing  
Lean Six Sigma  
Management in Action  
Marketing and Media Specialist  
Medical Office Procedures  
Meeting and Events Planning  
Nutrition for Optimal Health  
Occupational Health and Safety Management  
Personal Fitness Training  
Project Management  
Renewable Energy and Green Energy Management  
Teen Summer Academy

# Major and Credential Codes\*

## MAJOR CODE KEY:

- U = Undergraduate  
G = Graduate  
+ = Emphasis within another bachelor's degree  
¢ = Concentration within another master's or Ph.D. degree  
# = Specialization within another bachelor's degree

MAJOR	MAJOR CODE
Accountancy	05021 G
+ Accounting	05021 U
Africana Studies	22111 U
American Indian Studies	22121 U
Anthropology	22021 U & G
Applied Mathematics	17031 G
Art	10021 U & G
+ ¢ Art History	10031 U & G
+ Graphic Design	10091 U
+ Interior Design	02031 U
+ Multimedia	06991 U
Art - MFA	10022 G
Asian Studies	03011 U & G
+ Chinese Studies and Language	03011 U
Astronomy	19111 U & G
Audiology	12202 G
Bioinformatics and Medical Informatics	07994 G
Biology	04011 U & G
Biomedical Quality Systems	09994 G
Business Administration	05011 G
¢ Life Sciences	05016 G
Business Administration and Juris Doctor (concurrent program)	05995 G
Business Administration and Latin American Studies (concurrent program)	49061 G
+ Chemical Physics	19081 U
Chemistry	19051 U & G
+ Biochemistry	19051 U
Chicana and Chicano Studies	22131 U & G
Child Development	08231 U & G
City Planning	02061 G
Classics	15041 U
Clinical Psychology	20031 G
Communication	06011 U & G
General Communication	15061 U
+ Advertising	06041 U
# Media Studies	15060 U
+ Public Relations	05992 U
+ Telecommunications and Film	06033 U
Comparative Literature	15031 U
Computational Science	07992 G
Computer Science	07011 U & G
Counseling	08261 G
Creative Writing	15071 G
Criminal Justice	21051 U
¢ Criminal Justice Administration	21051 G
Criminal Justice and Criminology	22091 G
Dance	10081 U
Dance - BFA	10082 U
¢ Ecology	04201 G
Economics	22041 U & G
+ International Economics	22042 U
Education (Ed.D.)	08291 G
School Psychology (Ed.S.)	20013 G
Education (MAT)	08292 G
Education	08011 G
¢ Counseling	08261 G

MAJOR	MAJOR CODE
¢ Educational Leadership	08271 G
¢ EDL: PreK-12 School Leadership	08272 G
¢ EDL: Community College/Post-secondary Leadership	08273 G
¢ Educational Research	08241 G
¢ Educational Technology	08992 G
¢ Elementary Curriculum and Instruction	08021 G
¢ Mathematics Education K-8	17012 G
¢ Policy Studies in Language and Cross-Cultural Education	08994 G
¢ Reading Education	08301 G
¢ Secondary Curriculum and Instruction	08031 G
¢ Special Education	08081 G
Engineering	09134 G
Aerospace Engineering	09021 U & G
Bioengineering	09051 G
Civil Engineering	09081 U & G
Computer Engineering	09094 U
Construction Engineering	09254 U
Electrical Engineering	09091 U & G
¢ Environmental Engineering	09221 U & G
Mechanical Engineering	09101 U & G
Engineering Sciences/ Applied Mechanics	09012 G
English	15011 U & G
¢ Entrepreneurship	05997 G
Environmental Sciences	49011 U
European Studies	03101 U
Evolutionary Biology	04016 G
Exercise Physiology	08355 G
Exercise Physiology and Nutritional Science (concurrent program)	08356 G
+ ¢ Finance	05041 U & G
+ Financial Services	05043 U
+ ¢ Financial and Tax Planning	05043 G
Foods and Nutrition	13061 U
French	11021 U & G
Geography	22061 U & G
Geological Sciences	19141 U & G
Geophysics	19160 G
German	11031 U
Gerontology	21043 U & G
Health Science	12011 U
Homeland Security	22102 G
History	22051 U & G
Hospitality and Tourism Management	05081 U
Humanities	15991 U
¢ Human Resource Management	05151 G
+ ¢ Information Systems	07021 U & G
Interdisciplinary Studies	49993 U & G
¢ International Business	05131 U & G
International Security and Conflict Resolution	22103 U
Japanese	11081 U
Journalism	06021 U
Juris Doctor and Social Work (concurrent program)	21045 G
Kinesiology	08351 U & G
Language and Communicative Disorders	12201 G

MAJOR	MAJOR CODE
Latin American Studies	03081 U & G
Latin American Studies and Business Administration (concurrent program)	49061 G
Liberal Arts and Sciences	49017 G
Liberal Studies	49015 U
Linguistics	15051 U & G
+ ¢ Management	05061 U & G
+ ¢ Marketing	05091 U & G
Mathematics-B.A. degree	17011 U & G
Mathematics-B.S. degree	17031 U
Mathematics and Science Education	08997 G
Microbiology	04111 U & G
Modern Jewish Studies	15102 U
¢ Molecular Biology	04161 G
Music	10041 U & G
Music	10051 G
Music	10052 U
Nursing	12031 U
Nursing	12032 U & G
Nutritional Sciences	13061 G
Nutritional Science and Exercise Physiology	08356 G
¢ Operations Management	05064 G
Philosophy	15091 U & G
Physical Science	19011 U
Physics	19021 U & G
¢ Physiology	04101 G
Political Science	22071 U & G
Psychology	20011 U & G
Public Administration	21021 U & G
Public Health	12141 G
¢ Health Behavior	12143 G
Public Health and Social Work (concurrent program)	12991 G
Radiological Health Physics	12251 G
+ ¢ Real Estate	05111 U & G
Recreation Administration	21031 U
Regulatory Affairs	49045 G
Rehabilitation Counseling	12221 G
Religious Studies	15101 U
Rhetoric and Writing Studies	15013 G
Russian	11061 U
Russian and Central European Studies	03071 U
Social Science	22011 U
Social Work	21041 U & G
Social Work and Juris Doctor (concurrent program)	21045 G
Social Work and Public Health (concurrent program)	12991 G
Sociology	22081 U & G
Spanish	11051 U & G
Speech, Language, and Hearing Sciences	12201 U & G
Statistics	17021 U & G
¢ Systematics and Evolutionary Biology (Zoology)	04071 G
¢ Taxation	05022 G
Television, Film and New Media Production	06031 U & G
Theatre Arts	10071 U & G
Theatre Arts - MFA	10072 G
Undeclared	00000 U
Urban Studies	22141 U
Vocational Education	08395 U
+ Watershed Science	49052 U
Women's Studies	49991 U & G

\* See following page for NUMERICAL LISTING OF MAJOR CODES and CREDENTIAL CODES.

## NUMERICAL LISTING OF MAJOR CODES

MAJOR CODE	MAJOR	MAJOR CODE	MAJOR	MAJOR CODE	MAJOR
00000 U	Undeclared	08997 G	Mathematics and Science	20031 G	Clinical Psychology
02031 U	+ Interior Design		Education	21021 U & G	Public Administration
02061 G	¢ City Planning	09012 G	Engineering Sciences/ Applied Mechanics	21031 U	Recreation Administration
03011 U & G	Asian Studies			21041 U & G	Social Work
03011 U	+ Chinese Studies and Language	09021 U & G	Aerospace Engineering	21043 U & G	Gerontology
03071 U	Russian and East European Studies	09051 G	Bioengineering	21045 G	Social Work and Juris Doctor (concurrent program)
03081 U & G	Latin American Studies	09081 U & G	Civil Engineering		
03101 U	European Studies	09091 U & G	Electrical Engineering		
04011 U & G	Biology	09094 U	Computer Engineering	21051 U	Criminal Justice
04016 G	Evolutionary Biology	09101 U & G	Mechanical Engineering	21051 G	¢ Criminal Justice Administration
04071 G	¢ Systematics Evolutionary Biology (Zoology)	09134 G	Engineering		
		09221 U & G	¢ Environmental Engineering	22011 U	Social Science
		09254 U	Construction Engineering	22021 U & G	Anthropology
		09994 G	Biomedical Quality Systems	22041 U & G	Economics
04101 G	¢ Physiology			22042 U	+ International Economics
04111 U & G	Microbiology	10021 U & G	Art	22051 U & G	History
04161 G	¢ Molecular Biology	10022 G	Art - MFA	22061 U & G	Geography
04201 G	¢ Ecology	10031 U & G	+ ¢ Art History	22071 U & G	Political Science
05011 U & G	Business Administration	10041 U & G	Music	22081 U & G	Sociology
05016 G	¢ Life Sciences	10051 G	Music	22091 G	Criminal Justice and Criminology
05021 G	Accountancy	10052 U	Music		
05021 U	+ Accounting	10071 U & G	Theatre Arts	22102 G	Homeland Security
05022 G	¢ Taxation	10072 G	Theatre Arts - MFA	22103 U	International Security and Conflict Resolution
05041 U & G	+ ¢ Finance	10081 U	Dance		
05043 U	+ Financial Services	10082 U	Dance - BFA	22111 U	Africana Studies
05043 G	¢ Financial and Tax Planning	10091 U	+ Graphic Design	22121 U	American Indian Studies
05061 U & G	+ ¢ Management	11021 U & G	French	22131 U & G	Chicana and Chicano Studies
05064 G	¢ Operations Management	11031 U	German		
05081 U	Hospitality and Tourism Management	11051 U & G	Spanish	22141 U	Urban Studies
05091 U & G	+ ¢ Marketing	11061 U	Russian	49011 U	Environmental Sciences
05111 U & G	+ ¢ Real Estate	11081 U	Japanese	49015 U	Liberal Studies
05131 U & G	¢ International Business	12011 U	Health Science	49017 G	Liberal Arts and Sciences
05151 G	¢ Human Resource Management	12031 U & G	Nursing	49045 G	Regulatory Affairs
		12032 U	Nursing	49052 U	+ Watershed Science
05992 U	+ Public Relations	12141 G	Public Health	49061 G	Business Administration and Latin American Studies (concurrent program)
05995 G	Business Administration and Juris Doctor (concurrent program)	12143 G	¢ Health Behavior		
		12201 U & G	Speech, Language, and Hearing Sciences Language and Communicative Disorders	49991 U & G	Women's Studies
05997 G	¢ Entrepreneurship			49993 U & G	Interdisciplinary Studies
06011 U & G	Communication	12202 G	Audiology		
06021 U	Journalism	12221 G	Rehabilitation Counseling		
06031 U & G	Television, Film and New Media Production	12251 G	Radiological Health Physics		
06033 U	+ Telecommunications and Film				
		12991 G	Social Work and Public Health (concurrent program)		
06041 U	+ Advertising				
06991 U	+ Multimedia	13061 U	Foods and Nutrition		
07011 U & G	Computer Science	13061 G	Nutritional Sciences		
07021 U & G	+ ¢ Information Systems	15011 U & G	English		
07992 G	Computational Science	15013 G	Rhetoric and Writing Studies		
07994 G	Bioinformatics and Medical Informatics				
08011 G	Education	15031 U	Comparative Literature		
08021 G	¢ Elementary Curriculum & Instruction	15041 U	Classics		
08031 G	¢ Secondary Curriculum & Instruction	15051 U & G	Linguistics		
		15060 U	# Media Studies		
08081 G	¢ Special Education	15061 U	General Communication		
08231 U & G	Child Development	15071 G	Creative Writing		
08241 G	¢ Educational Research	15091 U & G	Philosophy		
08261 G	Counseling	15101 U	Religious Studies		
08271 G	¢ Educational Leadership	15102 U	Modern Jewish Studies		
08272 G	¢ EDL: PreK-12 School Leadership	15991 U	Humanities		
08273 G	¢ EDL: Community College/ Postsecondary Leadership	17011 U & G	Mathematics-B.A. degree		
		17012 G	¢ Mathematics Education K-8		
08291 G	Education (Ed.D.)	17021 U & G	Statistics		
08292 G	Education (MAT)	17031 G	Applied Mathematics		
08301 G	¢ Reading Education	17031 U	Mathematics-B.S. degree		
08351 U & G	Kinesiology	19011 U	Physical Science		
08355 G	Exercise Physiology	19021 U & G	Physics		
08356 G	Nutritional Science and Exercise Physiology	19051 U & G	Chemistry		
		19051 U	Biochemistry		
08395 U	Vocational Education	19081 U	Chemical Physics		
08992 G	¢ Educational Technology	19111 U & G	Astronomy		
08994 G	¢ Policy Studies in Language and Cross-Cultural Education	19141 U & G	Geological Sciences		
		19160 G	Geophysics		
		20011 U & G	Psychology		
		20013 G	School Psychology (Ed.S.)		

CODES FOR CREDENTIALS CREDENTIAL CODE	
Single Subject Instruction	00100
Multiple Subject Instruction	00200
Reading/Language Arts Specialist	00410
BC/LAD Specialist	00440
Special Education: Early Childhood Special Education	00435
Special Education: Mild/Moderate Disabilities	00468
Special Education: Moderate/Severe Disabilities	00469
Special Education: Physical and Health Impairments	00472
Administrative Services (Preliminary)	00501
Administrative Services (Professional Clear)	00502
School Nurse Services	00600
Pupil Personnel Services	
School Counseling	00802
Child Welfare and Attendance or	00801
School Social Work	00803
School Psychology	00804
Speech Language Pathology	00900
Language, Speech, Hearing, and Audiology	00902
Audiology	00903
Language, Speech, and Hearing including Special Class Authorization	00910
Language, Speech, and Hearing adding Special Class Authorization	00911

## CODES FOR CREDENTIALS

**CREDENTIAL  
CODE**

Single Subject Instruction	00100
Multiple Subject Instruction	00200
Reading/Language Arts Specialist	00410
BCLAD Specialist	00440
Special Education: Early Childhood Special Education	00435
Special Education: Mild/Moderate Disabilities	00468
Special Education: Moderate/Severe Disabilities	00469
Special Education: Physical and Health Impairments	00472
Administrative Services (Preliminary)	00501
Administrative Services (Professional Clear)	00502
School Nurse Services	00600
Pupil Personnel Services	
School Counseling	00802
Child Welfare and Attendance <i>or</i>	00801
School Social Work	00803
School Psychology	00804
Speech Language Pathology	00900
Language, Speech, Hearing, and Audiology	00902
Audiology	00903
Language, Speech, and Hearing including Special Class Authorization	00910
Language, Speech, and Hearing adding Special Class Authorization	00911

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# Nondegree Curricula

## Preprofessional Programs

Entrance into professional schools is becoming increasingly competitive; therefore, it is imperative that students begin planning their curriculum at the earliest possible time in conjunction with the appropriate academic adviser and your preprofessional adviser.

Students who hold undergraduate degrees who wish to take courses for professional schools may do so through Open University in the College of Extended Studies.

### Prelegal Curriculum

The prelegal program is pursued in conjunction with a degree program. There is no specific prelaw program leading to a bachelor's degree. Students interested in the legal profession should consult with the university prelaw adviser regarding the entrance requirements of the specific law school they hope to attend.

The following curriculum is designed to meet the requirements of standard American schools of law for a broad and liberal education, while at the same time providing desirable flexibility in the individual programs. There are two patterns of concentration which will usually be indicated for the prelegal student, either of which may be selected, in consultation with the adviser, to fit best the interests of the student. These are the major-minor pattern and the liberal studies major pattern. Subject to individual variation, the fields of economics, history, and political science should receive first consideration when choosing the pattern of concentration as being the most effective background for later professional study in law.

The following courses of study are recommended. Lower division: Accountancy 201 and 202, Economics 101 and 102, Political Science 101 and 102, and a year course in history. Upper division: In the junior and senior years students will plan their course with the counsel of their adviser in terms of the field of law in which they plan to work, but keeping in mind the entrance requirements and examinations for admission to schools of law. The following list should receive prime consideration by all prelegal students in the selection of courses, though it is to be thought of as flexible in accordance with student needs. Economics 338; History 545; Political Science 301A-301B, 346, 347A-347B. Additional: Economics 380, History 536, Political Science 348.

In addition to the courses taken in the fields of concentration, upper division electives in English, philosophy, psychology, sociology, and speech communication are recommended. A mastery of English is essential.

Students interested in pursuing a legal career are counseled by the university prelaw adviser. Through this office, prelegal students receive information and advice concerning law school application and admission procedures. Guidance in undergraduate preparation for law study is also available. The university prelaw adviser can be contacted through the Department of Political Science.

### Preprofessional Health Advising Office

The Preprofessional Health Advising Office is responsible for advising premedical, predental, preveterinary, prepharmacy, prephysician assistant, and other allied health students in their preparation for and application to the professional schools of their choice. This office works in conjunction with the candidate's major department to establish a degree program coordinated with the preprofessional requirements of the professional schools. It is the communication link between the student and the profession, keeping the student apprised of changes in the requirements and procedures for acceptance. The preprofessional health advising office provides the university-sanctioned SDSU committee letter. To use the services of the Preprofessional Health Advising Office, students must first attend a one hour orientation given several times throughout the semester. Students may sign up for orientation, and to open a file, at the PPHA advising office anytime after the beginning of the semester. The advising office is located in GMCS 323 and can be reached at 619-594-6638 or online at <http://www.sci.sdsu.edu/preprof/>.

### Predental Curriculum

The predental program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, microbiology, or psychology with a major in one area and selected coursework in the others. Other departmental majors are permissible, however. **Predental students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, predental students should confer with the predental adviser at least once each semester to discuss other preparation for dental school.**

**College preparation.** High school students planning to enter dentistry should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.

**Admission.** Predental students must realize that the pool of dental applicants has recently increased and the competition for admission to schools of dentistry, particularly at University of California, Los Angeles and University of California, San Francisco, is great.

Admissions tests given by the American Dental Association should be taken not later than fall term one year before admission. Since the test is now given only in computer format, candidates should check the web for current information on where to take the test.

San Diego State University offers the opportunity to obtain a committee letter for students applying to dental schools. In many instances, a dental school will state in its secondary application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year-and-a-half before applying. Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU. The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Most schools also require three letters of evaluation, at least one from a dental professional and two of which should be from science professors from whom you have taken courses. Evaluation request forms are available in the preprofessional health advising office. Applicants may request electronic uploads of the committee letter to ADSAS (The dental school application service). A publication: *ADEA Official Guide to Dental Schools* is available at the SDSU Bookstore or from the American Association of Dental Schools.

**All predental students should establish a personal file in the Preprofessional Health Advising (PPHA) Office, GMCS 323.** The office can be reached at 619-594 6638 or online at <http://www.sci.sdsu.edu/preprof/>.

### Premedical Curriculum

The premedical program is pursued in conjunction with a degree program. Students ordinarily elect to concentrate in biology, chemistry, or microbiology, with a major in one area and selected coursework in the others. Other departmental majors are permissible, however. **Premedical students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, premedical students should confer with the premedical adviser at least once each semester to discuss other preparation for medical school.**

**College preparation.** High school students planning to enter medicine should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics, two or three years of French, German or Spanish, and four years of English.

**Admission.** Most medical schools give preference to students with baccalaureate degrees in academic subjects; **premedicine is not an academic major.** Any major is acceptable to medical schools, and recent research has demonstrated that there is no bias against the nonscience major in the selection process. Nor is there any significant difference between the science and the nonscience major in medical school performance or in eventual selection of residency. The specific requirements for various majors are found in this catalog under department and program headings.

Competition for admission to California medical schools remains high. Selection for admission is based on many factors beyond the satisfactory completion of minimum requirements including undergraduate grade point average, MCAT scores, and letters of evaluation. Courses taken to satisfy the science requirements must be taken on a graded basis. The credit/no credit option should be used only sparingly in nonscience courses.

Nearly all allopathic and osteopathic medical schools also require applicants to take the MCAT, which is now available only by computer. Applicants are urged to take the test in the spring of the calendar year preceding the year of admission to medical school and not later than the fall term one year before anticipated admission.

San Diego State University offers the opportunity to obtain a committee letter for students applying to medical schools. In many instances, a health professional school will state in its secondary application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year-and-a-half before applying. **Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU.** The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Three to seven individual letters of evaluation are also generally required by medical schools and used in the selection process. At least two letters should be from science faculty. Some medical schools now require a letter from a humanities professor. The importance of these letters cannot be overemphasized. It is strongly recommended that premedical students secure letters from instructors immediately upon finishing courses, and that students see their adviser regularly so that the adviser can write knowledgeable recommendations when needed. Evaluation forms are available in the preprofessional health advising office.

The varying admission requirements of medical schools are listed in the publication *Medical School Admission Requirements* (available in the SDSU Bookstore). Since most students seek admission to an average of twenty medical schools, this book should be consulted during the year of application.

**Osteopathic medical schools** require basically the same minimum undergraduate program as allopathic schools. Most schools also request letters of evaluation from practicing osteopathic physicians.

**All premedical students should establish a file in the Preprofessional Health Advising (PPHA) Office, GMCS 323.** The office can be reached at 619-594-6638 or online at <http://www.sci.sdsu.edu/preprof/>.

### Preveterinary Curriculum

The preveterinary program is pursued in conjunction with a degree program. Students ordinarily elect to major in biology. Other departmental majors are permissible, however. **Preveterinary students should meet each semester with their major departmental academic adviser to obtain approval for their program for the coming semester. In addition, preveterinary students should confer with the preveterinary adviser at least once each semester to discuss other preparation for veterinary medicine school.**

**College preparation.** High school students planning to enter veterinary medicine should include in their high school program the following subjects: elementary algebra, geometry, intermediate algebra, chemistry, physics and four years of English.

**Admission.** Competition for veterinary school admission continues to be great, with a 4 to 1 ratio of applicants to accepted students at University of California, Davis. All preveterinary students should consider applying to one or more out-of-state schools in addition to UC Davis, as most U.S. schools now accept nonresidents.

San Diego State University offers the opportunity to obtain a committee letter for students applying to health professional schools. In many instances, a health professional school will state in its secondary application that, if a student's undergraduate or post-baccalaureate school offers a committee letter, a copy of that letter is required as part of the application process. In order to obtain a committee letter, you must open a file with the Preprofessional Health Advising (PPHA) Office and complete all the steps of the committee procedure, which starts a year-and-a-half before applying. Therefore, it is imperative that you register with the PPHA office as soon as you begin classes at SDSU. The official committee letter, available only from the PPHA office, is SDSU's only formal endorsement of your candidacy. Two or three additional letters from veterinarians and science faculty are also generally required and used in the selection process. The importance of these letters cannot be overemphasized.

A publication, *Veterinary Medical School Admission Requirements in the United States and Canada* is available in the preprofessional health advising office and in the SDSU Bookstore.

**All preveterinary students should establish a file in the Preprofessional Health Advising (PPHA) Office, GMCS 323.** The office can be reached at 619-594-6638 or online at <http://www.sci.sdsu.edu/preprof/>.

### Allied Health Professions

The allied health professions served by the Preprofessional Health Advising (PPHA) Office include chiropractic medicine, optometry, pharmacy, physician assistant, naturopathic, and podiatric medicine. San Diego State University does not offer specific degree programs in these fields. Prephysical therapy and preoccupational therapy advising are located in the School of Exercise and Nutritional Sciences, ENS 331. The advising office can be reached at 619-594-5161 (Patricia Patterson).

**Prechiropractic Medicine, Preoptometry, Prepharmacy, Prephysician Assistant, Prenaturopathic, and Prepodiatric Medicine.** Students interested in these fields usually major in biology since this curriculum is most appropriate. Other majors, such as chemistry, may be used; however, students must complete the required courses regardless of which major is chosen. In general, all schools require the same courses in biology, chemistry, physics, and mathematics; students should be in contact with the schools of their choice to determine any specific requirements.

**Academic Requirements for Entrance to a Professional Degree Program in One of the Above Allied Health Professions.** Students should see their academic adviser and the preprofessional adviser to ensure that all entrance requirements are met. Students interested in the above allied health professions (except for prephysical therapy or pre-occupational therapy) are encouraged to open a file early in their academic careers at the Preprofessional Health Advising (PPHA) Office.

**Preoccupational Therapy.** Students interested in a career in occupational therapy may major in a variety of areas including psychology, kinesiology, art, or biology. There are several schools in California that offer B.S. or M.S. degrees in occupational therapy. Students must complete certain courses required by each school; in general, these include courses in the humanities, natural sciences and mathematics, and social sciences. For further information, contact the American Occupational Therapy Association at <http://www.apta.org>.

**Prephysical Therapy.** The prephysical therapy curriculum is pursued in conjunction with an established major. Students ordinarily select a major in kinesiology (emphasis in prephysical therapy) and complete selected coursework in other departments. Another major often selected is biology. Prephysical therapy students should confer with their departmental adviser prior to initial registration, and at least



once each semester regarding their program progress. Course requirements for entry to a graduate program in physical therapy vary according to the institution. Information regarding entrance requirements for specific physical therapy schools is available through the American Physical Therapy Association Web site at <http://www.apta.org>. Each student should consult the major adviser for the level of course required when there are alternatives. It is recommended that students consult at least two years prior to graduation with the physical therapy schools to which they are planning to apply in order to learn the details of the entrance requirements for those particular institutions. Students should expect to fulfill the following general requirements for admission: (1) specific course requirements as outlined above; (2) volunteer experience in a hospital or clinical physical therapy program, under the direct supervision of a licensed physical therapist; (3) satisfactory completion of the GRE examination; (4) overall GPA of 2.8 or higher (the average GPA of applicants accepted to a prephysical therapy program is 3.6) and; (5) grades of "C" or better in basic science courses (biology, chemistry, physics).

### Preparation for Other Professions

Full programs of professional study in other fields, such as agriculture, forestry, architecture, and theology, are not available at San Diego State University. However, students who may wish to take some undergraduate work in liberal arts at this university can also begin coursework in preparation for such programs. Students are advised to consult the catalog of the university to which they expect to transfer to determine requirements before arranging the program. Further information may be obtained from the assistant dean of students in the appropriate college at San Diego State University.

## Certificate Programs

### Basic Certificate

The purpose of the basic certificate program is to provide individuals whose educational objectives do not require a degree program the opportunity to participate in university academic activities designed to meet specific educational needs.

Ordinarily, credit certificate programs are available to matriculated and nonmatriculated students. Students seeking a certificate must apply for admission according to the guidelines set forth by the individual certificate programs.

Coursework for a basic certificate shall not duplicate in content and level the student's prior educational experience. Unless otherwise stated, a student may apply no more than six units of coursework from a basic certificate program toward a major or minor with the approval of the department.

For a complete listing of certificate programs offered by San Diego State University, refer to the Curricula Summary section of this catalog.

### Advanced Certificate – Post-Baccalaureate

The advanced certificate at the post-baccalaureate entry level provides students a program of coursework leading to a specific applied goal. The general educational background of a bachelor's degree with a major in the appropriate field(s) of study is prerequisite to such a certificate. Courses taken for advanced certificate program may be applied to a master's degree with the approval of the graduate adviser.

For a listing of admission standards and specific certificate requirements, refer to the *Graduate Bulletin*.

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# Course Information

## Absence from Class

### Instructor Initiated Drop Policy

Students who do not attend the first class session and the beginning of the second class session of a course may be dropped from that course by the instructor within the first seven class days of the semester. Students who do not meet prerequisite requirements can also be dropped within the first seven class days of the semester. Any student dropped by the instructor during this period will be notified of the action by e-mail. It is the student's responsibility to keep a current e-mail address on file through the SDSU WebPortal at <http://www.sdsu.edu/portal>. To reenroll, the student must receive an add code from the instructor and reenroll in the course by 6 p.m. on the 12th class day of the semester.

NOT ALL INSTRUCTORS WILL DROP STUDENTS WHO MISS THE FIRST CLASS SESSION AND THE BEGINNING OF THE SECOND CLASS SESSION. Students are responsible for all courses on their schedules. Students should check their online schedules regularly and take necessary action to add or drop during the schedule adjustment period.

### Religious Observances

By the end of the second week of classes, students should notify the instructors of affected courses of planned absences for religious observances. Instructors shall reasonably accommodate students who notify them in advance of planned absences for religious observances.

## Schedule Adjustment Policy

The schedule adjustment period allows you to drop a course, add course, withdraw from the university, and change the grading basis of a course. The deadline to DROP a class is the at 6 p.m. on the 10th day of the term. The deadline to ADD a class, change grading basis or withdraw from the university is at 6 p.m. on the 12th day of the term. You are not allowed to make any schedule adjustments after these deadlines and are responsible for knowing the current semester dates for these deadlines, which can be found on the academic calendar.

## Major Academic Plans (MAPs)

The MAPs Web site located at <http://www.sdsu.edu/mymap> was created to help first-time freshmen navigate the course requirements for their majors. The Major Academic Plans (MAPs) created for each major are not meant to encompass every major-specific requirement or a required sequencing of courses. Refer to this catalog for a complete description of requirements, including: course prerequisites, minimum grade requirements, unit limitations, and General Education approved courses and distribution requirements.

The MAPs will help you identify which General Education course will also fulfill a major preparation course requirement. They will also suggest sequencing to ensure that you complete prerequisites for an upper-division course prior to taking the higher-level course.

Questions about graduation requirements and General Education should be directed to the Academic Advising Center at 619-594-6668. The Academic Advising Center is located in Student Services, Room 1551 (north of Aztec Center) and online at

<http://www.sdsu.edu/advising>.

## Numbering of Courses

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor's degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses.

Courses numbered at the 900 level, except 997, are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the university with post-baccalaureate classified standing. Undergraduate students may enroll in these courses only if they are officially admitted to a blended or integrated program where undergraduate and credential coursework is included in the same program. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered 397 offered in regular sessions are professional advancement/training or tutorial/discussion classes that may accompany other credit courses and are not acceptable towards an undergraduate or graduate degree.

Courses numbered X-01 through X-79 and X-397 are Extension professional development units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

## The Unit or Credit Hour

In the listing of courses that follow, figures in parentheses indicate the unit value of the course. One unit or credit hour represents 50 minutes of recitation or lecture, together with the required preparation, or three hours of laboratory work or two hours of activities, each week for a semester.

## Prerequisites for Undergraduate Courses

Students must satisfy course prerequisites (or their equivalent) prior to beginning the course to which they are prerequisite. Faculty have the authority to enforce prerequisites listed in the current catalog and current *Class Schedule*, to evaluate equivalent preparation, and to require proof that such prerequisites/preparation have been completed. Students who do not meet prerequisite requirements can be dropped within the first 12 days of the semester.

## General Education and American Institution Courses

Notations in brackets at the end of course titles in the course listings identify courses which satisfy General Education [GE] and American Institutions [AI] requirements. See Graduation Requirements for the Bachelor's Degree section in this catalog for full explanation.

### Common Courses

#### Experimental or Selected Studies or Topics or Workshop Courses (96, 296, 496, 596)

Courses offered by departments under the numbers 296, 496, 596 are subject to the following conditions: no more than nine units of such courses shall be applicable toward a bachelor's degree; such courses may be applicable toward the minor or toward preparation for the major only with the approval of the department chair.

Topics courses may be offered by the departments under the number 96. These courses are nonbaccalaureate level and are not acceptable for a bachelor's degree or General Education.

#### Special Study (299, 499, 599)

These courses provide opportunity for individual study of a subject not offered in the regular curriculum. The student does this outside of the classroom and must secure the consent of an instructor to supervise the study *before* registering for the course. The student should discuss the topic with the instructor and come to an understanding on the amount of time to be devoted to the topic, the credit to be earned, and the mode of investigation and report to be used. As with regular courses, the expectation is that the student will devote three hours per week to the subject for each unit of credit. A maximum combined credit of nine units of 299, 499, and 599 is applicable to a bachelor's degree. Maximum credit of six units of 499 in one department applicable to a bachelor's degree.

A 499 or 599 number cannot be used to offer lower division coursework. Also, 299, 499, and 599 cannot be used to extend internships, to award academic credit in place of pay, for work experience, or for class-sized groups.

### Credit/No Credit Courses

Courses which are offered for credit/no credit are indicated by the symbols Cr/NC in the course title.

### Online and Hybrid Courses

Certain courses may be offered as online (distance education) or hybrid (combination online and in-person). The online and hybrid courses offered each term can be found in the *Class Schedule*.

### Faculty Office Hours

All faculty members are required to hold regularly scheduled office hours during the week to allow for student consultation. A schedule of those hours is posted outside each faculty member's office door.

## Accreditation

San Diego State University is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges, 985 Atlantic Avenue, Suite 100, Alameda CA 94501, 510-748-9001; FAX 510-748-9797; e-mail: [wascsr@wascsenior.org](mailto:wascsr@wascsenior.org); <http://www.wascweb.org>. It is also approved to train veterans under the G.I. Bill.

San Diego State University's programmatic accreditation is through membership in the following associations:

**Accreditation Council for Graduate Medical Education  
(Preventive Medicine Residency Program)**

515 N. State Street, Suite 2000  
Chicago, IL 60610  
312-464-4972

**American Association of Colleges for Teacher Education**

One Dupont Circle, Suite 610  
Washington, D.C. 20036-1186  
202-293-2450

**American Chemical Society**

Committee on Professional Training  
1155 Sixteenth Street, N.W.  
Washington, D.C. 20036  
202-872-4600

**American College of Nurse Midwives Accreditation  
Commission for Midwifery Education**

8403 Colesville Road, Suite 1550  
Silver Spring, MD 20910-6374  
240-485-1802

**American Psychological Association (Clinical Psychology)**

750 First Street, N.E.  
Washington, D.C. 20002-4242  
202-336-5500

**Council on Academic Accreditation in Audiology  
and Speech-Language Pathology**

2200 Research Boulevard  
Rockville, MD 20850-3289  
301-296-5700

**California Commission on Teacher Credentialing**

1812 Ninth Street  
Sacramento, CA 95814-7000  
916-445-0184

**Commission on Accreditation of Healthcare  
Management Education**

2000 14th Street North, Suite 780  
Arlington, VA 22201  
703-894-0960

**Commission on Collegiate Nursing Education**

One Dupont Circle, NW, Suite 530  
Washington, D.C. 20036-1120  
202-887-6791

**Computing Accreditation Commission of ABET, Inc.  
(Computer Science)**

111 Market Place, Suite 1050  
Baltimore, MD 21202-4012  
410-347-7700

**Council for Interior Design Accreditation**

146 Monroe Center NW, #1318  
Grand Rapids, MI 49503-2822  
616-458-0400, <http://www.accredit-id.org/>

**Council of Graduate Schools**

One Dupont Circle, N.W., Suite 430  
Washington, D.C. 20036-1173  
202-223-3791

**Council on Education for Public Health**

1015 Fifteenth Street, N.W.  
Washington, D.C. 20005  
202-789-1050

**Council on Social Work Education**

1725 Duke Street, Suite 500  
Alexandria, VA 22314-3457  
703-683-8080, <http://www.cswe.org>

**National Association of School Psychologists**

4340 East West Highway, Suite 402  
Bethesda, MD 20814  
301-657-0280

**National Association of Schools of Art and Design**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190  
703-437-0700

**National Association of Schools of Public Affairs  
and Administration**

1120 G Street, N.W., Suite 730  
Washington, D.C. 20005-3801  
202-628-8965

**National Association of Schools of Theatre**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
703-437-0700

**National Council on Rehabilitation Education**

c/o Dr. Garth Eldredge, Administrative Secretary  
Utah State University  
Department of Special Education and Rehabilitation  
2870 University Boulevard  
Logan, Utah 84322-2870

**National Recreation and Park Association**

22377 Belmont Ridge Road  
Ashburn, VA 20148  
703-858-0784

**Western Association of Graduate Schools**

University of Washington, The Graduate School  
Box 351240  
Seattle, WA 98195-1240  
206-543-9054

In addition, San Diego State University is accredited by the following agencies:

The College of Business Administration and the School of Accountancy are accredited by AACSB International—The Association to Advance Collegiate Schools of Business—at both the undergraduate and graduate levels. Several College of Business Administration programs are registered with the Certified Financial Planner Board of Standards, 1700 Broadway, Suite 2100, Denver, CO 80290-2101, 303-830-7500.

The College of Engineering undergraduate programs in aerospace engineering, civil engineering, computer engineering, electrical engineering, environmental engineering and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700.

The School of Journalism and Media Studies programs in advertising, journalism, and public relations are accredited by the Accrediting Council on Education in Journalism and Mass Communication, Stauffer-Flint Hall, 1435 Jayhawk Boulevard, Lawrence, KS 66045-7575, 785-864-3973,  
<http://www2.ku.edu/~acejmc/index.html>.

The School of Nursing is accredited by the California Board of Registered Nursing, State of California, Department of Consumer Affairs, 400 R Street, Suite 4030, Sacramento, CA 95814, 916-322-3350.

Concentrations in Environmental Health and Occupational Health, in the Graduate School of Public Health are accredited by the American Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202, 410-347-7700.

The undergraduate program in Athletic Training in the School of Exercise and Nutritional Sciences is accredited by the Commission on Accreditation of Athletic Training Education, 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664, 512-733-9700, <http://www.caate.net>.

Foods and Nutrition, the Didactic Program in Dietetics in the School of Exercise and Nutritional Sciences is approved by the Commission on Accreditation of Dietetics Education, American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 800-877-1600,  
<http://www.eatright.org/cps/rde/xchg/ada/hs.xsl/CADE.html>.

### Course Abbreviations

ACCTG .....	Accountancy	HONOR .....	Honors Program
ARP .....	Administration, Rehabilitation and Post Secondary Education	HTM .....	Hospitality and Tourism Management
A E .....	Aerospace Engineering	HUM .....	Humanities
A S .....	Aerospace Studies	IDS .....	Information and Decision Systems
AFRAS .....	Africana Studies	INT S .....	Interdisciplinary Studies
AMIND .....	American Indian Studies	I B .....	International Business
ANTH .....	Anthropology	ISCOR .....	International Security and Conflict Resolution
ARAB .....	Arabic	ITAL .....	Italian
ART .....	Art	JAPAN .....	Japanese
ASIAN .....	Asian Studies	JS .....	Jewish Studies
ASTR .....	Astronomy	JMS .....	Journalism and Media Studies
AUD .....	Audiology	KOR .....	Korean
BIOMI .....	Bioinformatics and Medical Informatics	LATAM .....	Latin American Studies
BIOL .....	Biology	LIB S .....	Liberal Studies
BQS .....	Biomedical Quality Systems	LING .....	Linguistics
B A .....	Business Administration	MGT .....	Management
CHEM .....	Chemistry	MKTG .....	Marketing
CCS .....	Chicana and Chicano Studies	MALAS .....	Master of Liberal Arts and Sciences
CFD .....	Child and Family Development	MATH .....	Mathematics
CHIN .....	Chinese	M S E .....	Mathematics and Science Education
C P .....	City Planning	MTHED .....	Mathematics Education
CIV E .....	Civil Engineering	M E .....	Mechanical Engineering
CLASS .....	Classics	MIL S .....	Military Science
COMM .....	Communication	M BIO .....	Molecular Biology
C LT .....	Comparative Literature	MUSIC .....	Music
COMP .....	Computational Science	N SCI .....	Natural Science
COMPE .....	Computer Engineering	NAV S .....	Naval Science
CS .....	Computer Science	NURS .....	Nursing
CON E .....	Construction Engineering	NUTR .....	Nutrition
CSP .....	Counseling and School Psychology	OCEAN .....	Oceanography
CJ .....	Criminal Justice	PERS .....	Persian
DANCE .....	Dance	PHIL .....	Philosophy
ECON .....	Economics	PHYS .....	Physics
ED .....	Education	PLC .....	Policy Studies in Language and Cross-Cultural Education
EDL .....	Educational Leadership	POL S .....	Political Science
EDTEC .....	Educational Technology	PORT .....	Portuguese
E E .....	Electrical Engineering	PSFA .....	Professional Studies and Fine Arts
ENGR .....	Engineering	PSY .....	Psychology
E M .....	Engineering Mechanics	P A .....	Public Administration
ENGL .....	English	P H .....	Public Health
ENV E .....	Environmental Engineering	RTM .....	Recreation and Tourism Management
ENV S .....	Environmental Science	R A .....	Regulatory Affairs
EUROP .....	European Studies	REL S .....	Religious Studies
ENS .....	Exercise and Nutritional Sciences	RWS .....	Rhetoric and Writing Studies
FILIP .....	Filipino	RUSSN .....	Russian
FIN .....	Finance	SWORK .....	Social Work
FRENC .....	French	SOC .....	Sociology
GMS .....	General Mathematics Studies	SPAN .....	Spanish
GEN S .....	General Studies	SPED .....	Special Education
GEOG .....	Geography	SLHS .....	Speech, Language, and Hearing Sciences
GEOL .....	Geological Sciences	STAT .....	Statistics
GERMN .....	German	TE .....	Teacher Education
GERO .....	Gerontology	TFM .....	Television, Film and New Media
HHS .....	Health and Human Services	THEA .....	Theatre
HEBRW .....	Hebrew	VIET .....	Vietnamese
HIST .....	History	WMNST .....	Women's Studies
H SEC .....	Homeland Security		

# Accountancy

In the College of Business Administration

**OFFICE: Student Services 2411**

**TELEPHONE: 619-594-5070 / FAX: 619-594-3675**

**E-MAIL: [accounting@sdsu.edu](mailto:accounting@sdsu.edu)**

A member of AACSB International—The Association to Advance Collegiate Schools of Business.

## Faculty

Emeritus: Barnett, Brodshatzer, Butler, Capettini, Chow, Garrett, Houston, Lightner, K., Meier, Meigs, Samuelson, Snudden, Toole, Venable, Whittington, Williamson

Director: Lightner, S.

The Vern E. Odmark Chair in Accountancy: Chang

Professors: Anderson, Chang, Grudnitski, Oestreich, Whittenburg

Associate Professors: Doran, Joh, Krivogorsky

Assistant Professors: Chan, Clor-Proell, DeBoskey, Fleming, Gill, Hee, Proell

Clinical Scholar: Snyder

## Offered by the School

Master of Business Administration.

Master of Science degree in accountancy.

Major in accounting with the B.S. degree in business administration.

Minor in accounting.

Certificate in accounting.

## The Vern E. Odmark Chair in Accountancy

Established in recognition of Dr. Vern Odmark for his 25 years of teaching at SDSU, basic support is provided by contributions from friends, alumni, and corporations, including many major national accounting firms. The chair acknowledges the university's objective of continuing the high standards of teaching excellence and professionalism that characterized Odmark's career.

Dr. Chee W. Chow, widely recognized throughout the country for the breadth of his research and his technical thoroughness, held the chair from 1984 until his retirement in 2006. Dr. Janie Chang, recognized for research and teaching was awarded the chair in fall 2006.

## The Major

The major in accounting provides basic concepts of accounting and business knowledge to students seeking professional careers in the field. Growing with the increased complexity of the business world, accounting continues to offer a wide choice of careers and opportunities.

The School of Accountancy offers two programs at the undergraduate level: The Business Accounting Program and the BS/MS 4+1 degree program (BMACC) for a B.S. and M.S. in Accountancy.

The Business Accounting Program offers courses to prepare students for a variety of entry-level financial or general business positions, or for graduate work in accounting, business, or law. This track leads to a B.S. in Business Administration, Accounting.

The BS/MS 4+1 degree program (BMACC) is for students who plan to pursue professional accounting careers in public accounting firms, corporations, and not-for-profit and governmental organizations.

## Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative

GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

## Statement on Computers

Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the university.

## Retention Policy

The College of Business Administration expects that upper division students will make reasonable academic progress towards the degree. Students earning less than a 2.0 average in their major GPA for two consecutive semesters will be removed from business and placed in undeclared.

## Transfer Credit

**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept *upper division transfer credits* where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

## Impacted Program

The accounting major is impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.9.

Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully-qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Accounting Major

**With the B.S. Degree in Business Administration**

**(Major Code: 05021) (SIMS Code: 221908)**

A minor is not required with this major.

**Preparation for the Major.** Complete with a grade of C or higher: Accountancy 201, 202; Finance 240; Information and Decision Systems 180; Economics 101, 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. (24 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Information and Decision Systems 390W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Business Accounting Program Major.** Forty-seven upper division units consisting of Accountancy 321, 322, 421, 522, and three units of upper division accountancy electives (not including Accountancy 325 or 326); Business Administration 300; Finance 323; Information and Decision Systems 301, 302, and 390W with a grade of C (2.0) or better; Management 350; Business Administration 404 or Management 405 or 458 (3 units); Marketing 370. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of course-work applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

**BS/MS 4+1 Degree Program (BMACC). (SIMS Code: 221912)** Students must successfully complete 141 units to be awarded simultaneously the B.S. degree in Business Administration, Accounting, and then the M.S. degree in Accountancy. Students must apply and be admitted to the BS/MS 4+1 degree program (BMACC). All students must have a satisfactory score on the Graduate Management Admissions Test, a minimum overall GPA of 3.0, a minimum SDSU GPA of 3.0, and a minimum upper division SDSU College of Business Administration GPA of 3.0. Students may apply for the program at several different points in their academic career: (1) after completing Accountancy 321 with a minimum grade of 3.0, (2) after completing Accountancy 321 and 322 with a minimum average GPA of 3.0 in these courses, or (3) after completing Accountancy 321, 322, 421 with a minimum average GPA of 3.0 in these courses.

Students must have graduate status for their last 30 units of 500-numbered and above courses. No more than nine units may be in 500-level courses. At least 15 units of 500 or above courses must be in accountancy courses (including Accountancy 522 and 790) at SDSU and must include at least 12 units in courses numbered 650 and above (in special cases, nine units with adviser approval). Students must achieve at least a 3.0 average in the classes numbered 500 and above specified on their official program for their 30 unit master's degree. Those 500-numbered and above courses must be completed within seven years of the first course completed on the master's degree program.

**Suggested Course of Study for the BS/MS 4+1 Degree Program (BMACC):** Students may *apply* after taking the GMAT and completing Accountancy 321. Students must be *admitted* to the BS/MS 4+1 degree program (BMACC) prior to beginning their last 30 units.

### JUNIOR YEAR (Fall Semester)

	Units
Accountancy 321 .....	6
Business Administration 300 .....	1
Information and Decision Systems 301 .....	3
Management 350 .....	3
General Education Explorations of Human Experience ...	3
	<hr/> 16

### JUNIOR YEAR (Spring Semester)

Accountancy 322 .....	6
Finance 323 .....	3
Information and Decision Systems 390W .....	4
General Education Explorations of Human Experience ..	3
	<hr/> 16

### SENIOR YEAR (Fall Semester)

Accountancy 421 .....	6
Information and Decision Systems 302 .....	3
Marketing 370 .....	3
Graduate elective 500- and above .....	3
	<hr/> 15

### SENIOR YEAR (Spring Semester)

Accountancy 522 .....	3
Management 405 or 458 <b>OR</b>	
Business Administration 404 .....	3
Additional accountancy course 500- and above .....	3
General Education Explorations of Human Experience ..	3
Graduate elective 600- and above .....	3
	<hr/> 15

### FIFTH YEAR (Fall Semester)

Graduate elective 600- and above .....	3
Graduate elective 600- and above .....	3
Graduate elective 600- and above .....	3
Internship .....	0
	<hr/> 9

### FIFTH YEAR (Spring Semester)

Graduate elective 600- and above .....	3
Graduate elective 600- and above .....	3
Accountancy 790 .....	3
Prepare and pass professional	
certification examination .....	0
	<hr/> 9

*Total preparation for the major 61*

*Overall total for BS/MS 4+1 degree program (BMACC) 141*

## Accounting Minor

(SIMS Code: 221910)

The minor in accounting consists of a minimum of 24 units to include Accountancy 201, 202, 321, 322\*, Information and Decision Systems 301, and Mathematics 120.

\* Information and Decision Systems 390W prerequisite waived for students in this program.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the accounting minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

## Accounting Certificate

(SIMS Code: 221003)

The purpose of the Accounting Certificate is to provide professional and post-baccalaureate certification to accounting and nonaccounting professionals in San Diego.

Students must apply and be admitted to the program before the completion of 18 certificate units. The certificate requires 30 units to include Accountancy 201, 202, 321\*, and approved electives to make a total of 30 units. Accountancy 201 and 202 must be completed with a minimum grade of C (2.0) and the certificate coursework must be completed with a minimum grade point average of C (2.0).

Courses with relevant content may be substituted for the courses listed above with the approval of the certificate adviser. Courses in the certificate may not be counted toward the major or minor.

\*General Education prerequisite waived for students in this program.

## Courses (ACCTG)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ACCTG 201. Financial Accounting Fundamentals (3)

Theory and practice of accounting applicable to recording, summarizing, and reporting of business transactions for external reporting and other external uses. Asset valuation; revenue and expense recognition; various asset, liability, and capital accounts.

#### ACCTG 202. Managerial Accounting Fundamentals (3)

Prerequisite: Minimum grade of C in Accountancy 301. **Proof of completion of prerequisite required:** Copy of transcript.

Selection and analysis of accounting information for internal use by managers. Using financial information for planning and control purposes.

#### ACCTG 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ACCTG 321. Integrative Accounting Topics I (6)

Prerequisites: Admission to Accountancy major, minor, or certificate. Minimum grade of C in both Accountancy 201 and 202. Completion of General Education requirement in Communication and Critical Thinking. **Proof of completion of prerequisites required:** Copy of transcript.

Information and accounting systems to satisfy decision making requirements of managers and external users. Introduction to taxation and tax considerations in selecting the form of organization. Includes topics typically contained in Intermediate Accounting I, Managerial and Cost Accounting, Accounting Information Systems, and Federal Income Tax courses. Not open to students with credit in Accountancy 325 and 326.

#### ACCTG 322. Integrative Accounting Topics II (6)

Prerequisites: Minimum grade of C in Accountancy 321. Credit or concurrent registration in Information and Decision Systems 390W. **Proof of completion of prerequisites required:** Copy of transcript.

Financial and tax research methods, taxation topics, accounting information systems, financial reporting issues, preparation and use of financial statement information, and accounting issues of not-for-profit organizations. Includes material typically contained in Accounting Information Systems, Accounting for Not-for-Profit Organizations, Federal Income Tax, and Intermediate Accounting II.

#### ACCTG 325. Intermediate Managerial and Tax Accounting (3)

Prerequisites: Accountancy 202. Approved upper division business major or minor or other approved major. Not open to accounting majors.

Theories, practices, and concepts needed to satisfy decision making requirements of internal users; tax considerations to managerial decision making. May not be taken for credit by accounting majors.

#### ACCTG 326. Intermediate Financial Accounting (3)

Prerequisites: Accountancy 202. Approved upper division business major or minor or other approved major. Not open to accounting majors.

Theories, practices, and concepts needed to satisfy the decision making requirements of external users; financial reporting for enterprises engaged in international trade of business. May not be taken for credit by accounting majors.

#### ACCTG 409. Field Study in Taxation (1) Cr/NC

Prerequisite: Accountancy 321.

Income tax preparation in the field. Follows procedures of IRS VITA Program. IRS instruction followed by faculty supervised fieldwork. (Student must be available for special IRS tax school.)

#### ACCTG 421. Integrative Accounting Topics III (6)

Prerequisites: Information and Decision Systems 390W; Finance 323; minimum grade of C in Accountancy 322. **Proof of completion of prerequisites required:** Copy of transcript.

Audit of financial statements, consolidated financial reporting issues, and advanced financial accounting topics. Includes material typically contained in Auditing and Advanced Accounting.

#### ACCTG 496. Selected Topics in Accountancy (1-4)

Prerequisite: Consent of department chair.

Selected areas of concern in accountancy. May be repeated with new content with consent of department chair. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

#### ACCTG 498. Investigation and Report (1-3)

Prerequisite: Consent of instructor and senior standing.

A comprehensive and original study of a problem connected with accounting under the direction of one or more members of the accounting staff. May be repeated with new content. Maximum credit six units.

#### ACCTG 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.



### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### **ACCTG 501. Advanced Financial Accounting (3)**

Prerequisites: Minimum grade of C in Accountancy 322; credit or concurrent registration in Accountancy 421. **Proof of completion of prerequisites required:** Copy of transcript.

Advanced financial accounting topics. Partnerships, consolidations, foreign currency transactions and financial statements, accounting for derivatives and hedging, accounting for bankruptcy and reorganizations.

#### **ACCTG 503. Federal Taxation of Individuals (3)**

Prerequisites: Accountancy 201 and 202. Approved upper division business major, business minor, or other approved major. **Proof of completion of prerequisites required:** Copy of transcript.

Taxation of individuals, including income, deductions, credits, social security taxes, and property transactions.

#### **ACCTG 505. Fraud Examination (3)**

Prerequisite: Accountancy 421 or 626.

Fraud examination to include techniques and technologies for interviewing, document examination, public records research, and financial statement analysis. Skills and tools for auditors, consultants, tax professionals, managers.

#### **ACCTG 508. Accounting for Not-For-Profit Organizations (3)**

Prerequisite: Minimum grade of C in Accountancy 322. **Proof of completion of prerequisite required:** Copy of transcript.

Principles of fund accounting useful in state and local governmental units, hospitals, colleges, and universities. Comparisons with commercial accounting emphasized. Includes study of budgetary accounting, appropriations, encumbrances, internal checks and auditing procedures.

#### **ACCTG 522. Current Issues in Accounting Practice and Theory (3)**

Prerequisites: Information and Decision Systems 301, 390W; minimum grade of C in Accountancy 322 (or Accountancy 620 and 625). Credit or concurrent registration in Accountancy 421. **Proof of completion of prerequisite required:** Copy of transcript.

Accounting information for managerial performance evaluation, advanced financial reporting issues, and international accounting. Include material typically contained in International Accounting, Advanced Accounting, and Management Control Systems. (Formerly numbered Accountancy 422.)

#### **ACCTG 575. Accounting Information Systems (AIS) Development (3)**

Prerequisite: Accountancy 322 or 621 with grade of C or better.

AIS theories, databases, and internal controls in designing, maintaining, and enhancing business processes and systems. Hands-on experience to develop skills with EXCEL, ACCESS, and/or other integrated systems.

#### **ACCTG 596. Contemporary Topics in Accounting (1-3)**

Prerequisites: Business major approved by the College of Business Administration and consent of instructor.

Contemporary topics in modern accounting. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Administration, Rehabilitation and Postsecondary Education

In the College of Education

**OFFICE: 3590 Camino del Rio North**  
**San Diego, CA 92108-1716**  
**TELEPHONE: 619-594-6115**  
**<http://interwork.sdsu.edu/arpa>**

Accredited by the Council on Rehabilitation Education.

## Faculty

Emeritus: Atkins, Jacobs, McFarlane, Morey, Piland, Stevens  
 Chair: Sax  
 Professors: Bresciani, Hampton, Sax  
 Associate Professors: Degeneffe, Olney  
 Assistant Professors: Harris, Jeffcoat, Mulholland  
 Lecturers: Barnes, Schroeder, Tucker  
 Adjunct: Adamez, Cook, Kitchen, Starck, Tarbox, Turner

## Offered by the Department

Doctor of Education degree in educational leadership.  
 Concentration in community college/postsecondary leadership.

Master of Arts degree in education.  
 Concentration in educational leadership with a specialization in postsecondary education.  
 Concentration in educational leadership with a specialization in student affairs in postsecondary education.

Master of Science degree in rehabilitation counseling.

Minor in leadership development.

Certificate in cognitive disabilities  
 (refer to the *Graduate Bulletin*).

Certificate in community college teaching  
 (refer to the *Graduate Bulletin*).

Certificate in institutional research, planning, and assessment  
 (refer to the *Graduate Bulletin*).

Certificate in psychiatric rehabilitation  
 (refer to the *Graduate Bulletin*).

Certificate in rehabilitation administration  
 (refer to the *Graduate Bulletin*).

Supported employment and transition specialist certificate  
 (refer to the *Graduate Bulletin*).

Certificate in workforce education and lifelong learning  
 (refer to the *Graduate Bulletin*).

Certificate in rehabilitation technology  
 (refer to Engineering section in the *Graduate Bulletin*).

## Minor in Leadership Development

**(Minor Code: 08271) (SIMS Code: 331907)**

The minor in leadership development consists of a minimum of 20 units to include Administration, Rehabilitation and Postsecondary Education 205, 380, 403; Educational Leadership 206, 404, 405; and six units of electives selected from Communication 371, Counseling and School Psychology 310, Political Science 375, Public Administration 330, 340, 480, Philosophy 329, 330, 332, 340.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ARP)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ARP 201. Introductory Statistics and Research Design for Education (3) [GE]

Prerequisites: Intermediate algebra, satisfaction of the Entry-Level Mathematics requirement, and consent of instructor.

Understanding, interpreting, and applying educational research. Basic research design, sampling, distributions, reliability, validity, descriptive statistics, inferential statistics, hypothesis testing, tests of significance, and evaluating an education research report. Priority given to students in the Bachelor of Vocational Education program. Students with credit or concurrent registration in the following lower division courses will be awarded a total of four units for the two (or more) courses: Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Psychology 280; Sociology 201; Statistics 119, 250.

#### ARP 205. Exploring Leadership (3)

Understanding, applying and critiquing leadership theories, examining personal strengths, values, goals, and philosophy of leadership.

#### ARP 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ARP 380. Principles of Adult and Vocational Education (3)

Principles, practices, scope, and functions of adult and vocational education.

#### ARP 381. Developing Adult and Vocational Education (3)

Needs assessment, task analysis, formulation of objectives, lesson plans, instructional techniques, and evaluation in adult and vocational settings.

#### ARP 382. Directed Teaching (2-4) Cr/NC

Prerequisite: Administration, Rehabilitation and Postsecondary Education 380, 381, or 565.

Systematic observation, participation, and teaching under supervision in an occupational subject matter area. Application to take this course must be made in preceding semester.

#### ARP 397. Problems in Education (Credit to be arranged) (Offered only in Extension)

Prerequisite: Consent of instructor.

Class study of specially selected problems in education. Does not apply to pattern requirements for credentials. Credit earned in this course not applicable to a bachelor's degree.

## ***Administration, Rehabilitation and Postsecondary Education***

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### **ARP 403. Field laboratory in Leadership: Campus and Other Postsecondary Settings (1)**

Prerequisite: Administration, Rehabilitation and Postsecondary Education 205.

Laboratory on campus and at other postsecondary settings to integrate academic work with experiences on campus and in postsecondary settings.

### **ARP 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### **ARP 499. Special Study (1-3)**

Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

### **ARP 565. Psychological Foundations of Adult and Vocational Education (3)**

Prerequisite: Administration, Rehabilitation and Postsecondary Education 380 or 381.

Learning processes of adult and vocational education students in relationship to theories of learning and methods of teaching.

### **ARP 568. Adult and Vocational Education in Contemporary Society (3)**

Prerequisite: Administration, Rehabilitation and Postsecondary Education 565.

Contemporary adult and vocational education in the U.S. Learning opportunities and environments, instructional delivery systems, and adult learning models.

### **ARP 596. Topics in Administration, Rehabilitation and Postsecondary Education (1-3)**

Selected topics in administration, rehabilitation and postsecondary education. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### **GRADUATE COURSES Refer to the *Graduate Bulletin*.**

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# Aerospace Engineering and Engineering Mechanics

In the College of Engineering

**OFFICE: Engineering 308**

**TELEPHONE: 619-594-6074**

**E-MAIL: [ae@engineering.sdsu.edu](mailto:ae@engineering.sdsu.edu)**

The undergraduate degree in Aerospace Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

## Faculty

Emeritus: Conly, Dharmarajan, Faulkner, Pierucci, Shutts, Wang

Chair: Plotkin

Professors: Katz, Narang, Nosseir, Plotkin

Associate Professor: Venkataraman

Assistant Professors: Demasi, Jacobs

## Offered by the Department

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in aerospace engineering.

Major in aerospace engineering with the B.S. degree.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

### I. Communication and Critical Thinking: 9 units

You may not use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 29 units

#### A. Natural Sciences and Quantitative Reasoning (17 units):

1. Physical Sciences (11 units)  
Engineering students will take Chemistry 202 (4 units).  
Physics 195 (3 units)  
Physics 195L (1 unit)  
Physics 196 (3 units)

#### 2. Life Sciences (3 units)

Engineering students will take Biology 100 or 101.

#### 3. Laboratory (satisfied under A.1. above)

#### 4. Mathematics/Quantitative Reasoning

Engineering students will take Mathematics 150, 3 units applicable to General Education. You may not use Credit/No Credit grades.

#### B. Social and Behavioral Sciences (3 units)

#### C. Humanities (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Total 9 units; must include one course of cultural diversity.

#### A. Upper division Humanities (3 units)

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

#### B. Upper division Humanities (3 units from a department not selected in A above.)

#### C. Upper division Social and Behavioral Sciences (3 units)

## The Major

The educational objectives of the aerospace engineering program are (1) To provide students with a comprehensive education in aerospace engineering with coverage of all major sub-disciplines. All students will receive an appropriate background in mathematics, science, and engineering fundamentals, and further studies in aerodynamics, structures, flight mechanics, stability and control, propulsion and aerospace design. (2) To provide students with preparation for careers in aerospace engineering or related fields by emphasizing analysis and problem solving skills and fostering the following attributes: individual initiative, ability to work in teams, good communication skills, and ethical professional behavior. (3) To cultivate in students an appreciation for lifelong learning including graduate study and career paths in research and development.

The aerospace industry, the second largest industry in our country, is one of the largest employers of engineers. Opportunities for employment in entry level positions in large aircraft companies, general aviation manufacturers, or government aerospace-related laboratories are good. Graduates of the program are also qualified to continue their formal education at the graduate level or to accept entry level positions in several nonaerospace fields.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Aerospace Engineering Major

With the B.S. Degree

(Major Code: 09021) (SIMS Code: 441001)

Students majoring in aerospace engineering must include in their program a sequence of fundamental courses. In addition, the students have the opportunity to satisfy their particular areas of interest by selecting a pattern of study indicated in the sequence below. This pattern includes typical aerospace engineering topics, such as aerospace vehicle design, performance, structural analysis, aerodynamics, and propulsion.

The program below describes 137 units required for the degree. Each course specifically listed in the program is required.

**Preparation for the Major.** Aerospace Engineering 123; Engineering Mechanics 200, 220; Biology 100 or 101; Chemistry 202; Electrical Engineering 204; Engineering 280; Mathematics 150, 151, 252; Mechanical Engineering 101, 202, 240; Physics 195, 195L, 196, 197. (50 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 51 upper division units to include Aerospace Engineering 301, 302, 303, 310, 320, 403, 410, 430, 440, 460A, 460B; Engineering Mechanics 340, 341; Civil Engineering 301 (or Mechanical Engineering 304), 302; Engineering 510; Mechanical Engineering 352; and six units selected from one of the following areas of specialization:

**Aerodynamics** – Aerospace Engineering 530, 550, Engineering Mechanics 510.

**Aerospace Structures** – Aerospace Engineering 540, Engineering Mechanics 510, 530.

**Propulsion and Flight Mechanics** – Aerospace Engineering 520, 530, 540.

Other electives may be substituted with consent of the adviser and department chair.

**Master Plan.** A master plan including elective courses and area of specialization must be approved by the undergraduate adviser and filed with the Office of Advising and Evaluations during the first semester of the junior year.

### Courses (AE & EM)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSE IN AEROSPACE ENGINEERING (A E)

##### A E 123. The Aerospace Engineer (1)

Introduction to professional aerospace engineering. Emphasis on aeronautics and astronautics.

#### UPPER DIVISION COURSES IN AEROSPACE ENGINEERING (Intended for Undergraduates)

##### A E 301. Low Speed Aerodynamics (3)

Prerequisite: Credit or concurrent registration in Engineering Mechanics 340.

Subsonic flow, airfoil and wing theory, experimental characteristics of wing sections, high lift devices.

##### A E 302. High Speed Aerodynamics (3)

Prerequisites: Aerospace Engineering 301 and Mechanical Engineering 352.

Supersonic flow, two- and three-dimensional compressible flow, wings in compressible flow, two- and three-dimensional method of characteristics, transonic flow.

##### A E 303. Experimental Aerodynamics (2)

One lecture and three hours of laboratory.

Prerequisites: Engineering Mechanics 341 and credit or concurrent registration in Aerospace Engineering 301.

Operating characteristics of subsonic and supersonic wind tunnels. Aerodynamic characteristics of wings and bodies. Flow visualization techniques. Force, moment and pressure distribution measurement. Use of hot-wire anemometer and schlieren equipment.

##### A E 310. Aerospace Structural Analysis (3)

Prerequisite: Civil Engineering 301 (or Mechanical Engineering 304).

Methods of static structural analysis of problems encountered in flight of aerospace vehicles.

##### A E 320. Aerospace Flight Mechanics (3)

Prerequisites: Engineering Mechanics 220 and Engineering 280.

Two-body orbital mechanics including geocentric orbits and interplanetary transfers.

##### A E 403. Aerospace Engineering Senior Project (3)

One lecture and six hours of laboratory.

Prerequisites: Aerospace Engineering 302, 303, Engineering Mechanics 340.

Design and build an aerospace project, conduct experimental measurements, perform analyses of measured data.

##### A E 410. Aerospace Structural Dynamics (3)

Prerequisite: Credit or concurrent registration in Aerospace Engineering 310.

Methods of structural dynamic analysis of problems encountered in aerospace vehicles.

##### A E 430. Aircraft Propulsion Systems (3)

Prerequisite: Aerospace Engineering 302 or Mechanical Engineering 351.

Theory and performance characteristics of aircraft propulsion systems including reciprocating engines, turbojets, ramjets, etc.

##### A E 440. Aircraft Stability and Control I (3)

Prerequisite: Aerospace Engineering 303.

Static stability and control, general equations of unsteady motion, stability derivatives, stability of uncontrolled motion, response of aircraft to actuation of controls.

##### A E 460A. Aerospace Engineering Applications (3)

One lecture and five hours of design activity.

Prerequisites: Aerospace Engineering 302, 303, 310.

Student projects in aerospace design.

**A E 460B. Aerospace Engineering Applications (2)**

Six hours of laboratory.  
Prerequisite: Aerospace Engineering 460A.  
Student projects in aerospace design.

**A E 496. Advanced Aerospace Engineering Topics (1-3)**

Prerequisite: Consent of instructor.  
Modern developments in engineering. See *Class Schedule* for specific content. Maximum credit six units for any combination of Aerospace Engineering 496 and 499.

**A E 499. Special Study (1-3)**

Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units for any combination of Aerospace Engineering 496 and 499.

**UPPER DIVISION COURSES IN  
AEROSPACE ENGINEERING  
(Also Acceptable for Advanced Degrees)**

**A E 520. Intermediate Aerospace Flight Mechanics (3)**

Prerequisite: Aerospace Engineering 320.  
Rigid-body dynamics with applications in spacecraft attitude dynamics.

**A E 530. Rocket and Space Propulsion (3)**

Prerequisite: Aerospace Engineering 430.  
Equilibrium combustion thermodynamics. Performance of rocket propelled vehicles. Rocket propulsion fundamentals. Topics in chemical (solid and liquid) and electrical propulsion systems.

**A E 540. Aircraft Stability and Control II (3)**

Prerequisite: Aerospace Engineering 440.  
Dynamic stability and control of rigid aircraft; general equations of unsteady motion, stability derivatives, perturbed state thrust forces and moment, special problems in dynamic stability and response.

**A E 550. Viscous Flow (3)**

Prerequisites: Credit or concurrent registration in Engineering Mechanics 340, and Engineering 510.  
Kinematics of fluid motion. Conservation of mass, momentum, and energy. Navier-Stokes equations; exact solutions. Boundary layer approximations, turbulent flow.

**A E 596. Advanced Aerospace Engineering Topics (3)**

Prerequisite: Consent of instructor.  
Modern developments in aerospace engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of six units for any combination of Aerospace Engineering or Engineering Mechanics 496, 499, and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**LOWER DIVISION COURSES IN  
ENGINEERING MECHANICS (E M)**

**E M 200. Statics (3)**

Prerequisites: Physics 195 and credit or concurrent registration in Mathematics 151. **Proof of completion of prerequisites required:** Copy of transcript or enrollment confirmation.

Force systems, equilibrium, structures, distributed forces, friction, virtual work, moments of inertia, vector algebra.

**E M 220. Dynamics (3)**

Prerequisite: Engineering Mechanics 200 with a grade of C or better. **Proof of completion of prerequisite required:** Copy of transcript.

Kinetics of a particle; central force motion; systems of particles; work and energy; impulse and momentum; moments and products of inertia; Euler's equations of motion; vibration and time response; engineering applications.

**E M 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES IN  
ENGINEERING MECHANICS  
(Intended for Undergraduates)**

**E M 340. Fluid Mechanics (3)**

Prerequisites: Engineering Mechanics 220; and credit or concurrent registration in Engineering 280.

Fluid statics. Laminar and turbulent flow of liquids and gases in pipes, nozzles, and channels. Dimensional analysis and modeling. Drag forces on moving or immersed objects.

**E M 341. Fluid Mechanics Laboratory (1)**

Three hours of laboratory.  
Prerequisite: Credit or concurrent registration in Engineering Mechanics 340.

Flow measuring devices. Experimental applications of continuity, Bernoulli and momentum equations. Model studies. Pipe and channel flows. Flow visualization techniques. Operating characteristics of wind tunnel and water table.

**E M 496. Advanced Engineering Mechanics Topics (1-3)**

Prerequisite: Consent of instructor.  
Modern developments in engineering mechanics. See *Class Schedule* for specific content. Maximum credit six units for any combination of Engineering Mechanics 496, 499, and 596.

**E M 499. Special Study (1-3)**

Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units for any combination of Engineering Mechanics 496, 499, and 596.

**UPPER DIVISION COURSES IN  
ENGINEERING MECHANICS  
(Also Acceptable for Advanced Degrees)**

**E M 510. Finite Element Methods in Aerospace Structures (3)**

Prerequisite: Aerospace Engineering 410.  
Static and dynamic analysis of aerospace structures utilizing finite element methods.

**E M 530. Composite Structural Analysis (3)**

Prerequisites: Engineering 280 and Civil Engineering 301 (or Mechanical Engineering 304).

Strength of composite materials; lamination theory; strength analysis of laminates; bending, buckling, and vibration of composite plates.

**E M 596. Advanced Engineering Mechanics Topics (1-3)**

Prerequisite: Consent of instructor.  
Modern developments in engineering mechanics. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of six units for any combination of Engineering Mechanics 496, 499, and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES IN AEROSPACE ENGINEERING  
AND ENGINEERING MECHANICS  
*Refer to the Graduate Bulletin.***

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# Aerospace Studies

In the College of Professional Studies and Fine Arts

**OFFICE:** Exercise and Nutritional Sciences 385

**TELEPHONE:** 619-594-5545

## Faculty

Chair: Wojtysiak

Professor: Wojtysiak

Assistant Professors: Rinehart, Weaver, Yim

## Offered by the Department

AFROTC curriculum.

Minor in aerospace studies.

## AFROTC Curriculum

The department offers a three- or four-year Air Force Reserve Officers Training Corps program designed to develop officers who have broad understanding and high growth potential. For qualified students, two, three, or four-year scholarships are available in certain areas on a competitive basis. Scholarships pay full tuition at SDSU and various laboratory, textbook, and incidental fees plus a monthly nontaxable allowance of \$300-\$500 during the school year. Cadets participate in dialogues, problem solving, and other planning activities designed to develop leaders and managers. All coursework is done on campus with the exception of field trips and one field training encampment conducted at a military base.

Either a four- or six-week field training camp is required for all students during the summer between the sophomore and junior years. The four-week camp is for students who have completed all AFROTC lower division courses with a grade of "C" or better in each course. Field training emphasizes military orientation for the junior officer and aircraft and aircrew familiarization. Cadets receive physical training and participate in competitive sports. They observe selected Air Force units perform everyday operations, and they are trained in drill and ceremonies, preparation for inspections, and the use of weapons. Upon completion of the AFROTC program and all requirements for a bachelor's degree, cadets are commissioned Second Lieutenants in the Air Force and serve a minimum of four years active duty. Graduates go on active duty in a specialty consistent with their academic major, their desires, and existing Air Force needs. Graduates may request a delay from entry on active duty to continue their education or may apply for Air Force sponsored graduate study to begin immediately upon entry on active duty.

## Applying for the Program

SDSU students enroll in aerospace classes by signing up for courses in the same manner as other university classes. There is no advance application needed for the freshman or sophomore (AS100/200) classes. However, an orientation program, held just prior to the start of each term, is recommended and designed to give new cadets a broad, realistic introduction to Air Force officer training and provide them with helpful, important information on meeting academic requirements. Contact the Aerospace Studies Department as early as possible for additional information and sign-up procedures. The last two years of AFROTC (AS300/400) lead to the commission as a Second Lieutenant for which students must apply during the sophomore year. The application process involves taking the Air Force Officer Qualification Test (AFOQT), a physical examination, a physical fitness test, and a personal interview. Students from other institutions in the San Diego area are eligible to take AFROTC and should check with the department to obtain enrollment procedures. Veterans who can be commissioned by age 35 are also eligible for the program.

## Aerospace Studies Minor

(Minor Code: 01019) (SIMS Code: 660101)

The minor in aerospace studies consists of a minimum of 15 units in aerospace studies, 12 of which must be upper division.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (A S)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### A S 91A-91B. Leadership Laboratory (1-1) Cr/NC

One hour and fifty minutes of activity per unit.

Prerequisites for AFROTC cadets: Concurrent registration in Aerospace Studies 100A for Aerospace Studies 91A; concurrent registration in Aerospace Studies 100B for Aerospace Studies 91B.

Designed to prepare junior cadets for positions as leaders and managers of the cadet corps and a commission in the US Air Force. Application of principles of motivation, time management, organizational behavior, and participative group management in solving problems. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the professor of aerospace studies. Credit earned in this course is not applicable to a bachelor's degree.

#### A S 92A-92B. Leadership Laboratory (1-1) Cr/NC

One hour and fifty minutes of activity per unit.

Prerequisites for AFROTC cadets: Concurrent registration in Aerospace Studies 200A for Aerospace Studies 92A; concurrent registration in Aerospace Studies 200B for Aerospace Studies 92B.

Designed to prepare junior cadets for positions as leaders and managers of the cadet corps and a commission in the US Air Force. Application of principles of motivation, time management, organizational behavior, and participative group management in solving problems. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the professor of aerospace studies. Credit earned in this course is not applicable to a bachelor's degree.

#### A S 93A-93B. Leadership Laboratory (1-1) Cr/NC

One hour and fifty minutes of activity per unit.

Prerequisite: Concurrent registration in Aerospace Studies 300A for Aerospace Studies 93A; concurrent registration in Aerospace Studies 300B for Aerospace Studies 93B.

Demonstration laboratory designed to develop leadership and management skills, problem-solving skills, and exercise group planning, organizing and coordinating activities. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the professor of aerospace studies. Credit earned in this course is not applicable to a bachelor's degree.

**A S 94A-94B. Leadership Laboratory (1-1) Cr/NC**

One hour and fifty minutes of activity per unit.

Prerequisite: Concurrent registration in Aerospace Studies 400A for Aerospace Studies 94A; concurrent registration in Aerospace Studies 400B for Aerospace Studies 94B.

Demonstration laboratory designed to develop leadership and management skills, problem-solving skills, and exercise group planning, organizing and coordinating activities. Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the professor of aerospace studies. Credit earned in this course is not applicable to a bachelor's degree.

**A S 100A-100B. Foundations of the United States Air Force (1-1)**

Meets one hour per week.

Prerequisite for AFROTC cadets: Concurrent registration in Aerospace Studies 91A for Aerospace Studies 100A; concurrent registration in Aerospace Studies 91B for Aerospace Studies 100B.

Introduction to organizational structure, mission of selected military organizations, selected topics that contribute to understanding the Air Force today. Includes professional appearance, customs and courtesies, officership and core values, basic communications, officer opportunities, and benefits.

**A S 200A-200B. Evolution of USAF Air and Space Power (1-1)**

Meets one hour per week.

Prerequisite for AFROTC cadets: Concurrent registration in Aerospace Studies 92A for Aerospace Studies 200A; concurrent registration in Aerospace Studies 92B for Aerospace Studies 200B.

Study of air and space power through a historical perspective. Techniques for improving communication, discussion of Air Force heritage, leadership basics. Ethics, values, problem solving, and Air Force core values.

**A S 233. Field Training Unit (2-3) Cr/NC**

Required for advanced cadets, military orientation and flight familiarization. Credit granted for four- or six-week field training camp on basis of individual student application with approval of Aerospace Studies department chair.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**A S 300A-300B. Air Force Leadership Studies (3-3)**

Air Force leadership and management principles. Responsibility and authority of an Air Force officer, subordinate leadership, ethics, standards of conduct, and officer values. Improving writing, briefing skills, counseling, and feedback process.

**A S 400A-400B. National Security Affairs/Preparation for Active Duty (3-3)**

Role of professional officer in democratic society, socialization within armed services, requisites for adequate national security forces. Political, economic, and social constraints on national defense structure and impact of technological and international developments on defense policy making.

**A S 499. Special Study (1-3)**

Prerequisite: Consent of Aerospace Studies department chair. Individual study. Maximum credit six units.





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# Africana Studies

In the College of Arts and Letters

**OFFICE: Arts and Letters 373**

**TELEPHONE: 619-594-6531**

**<http://www-rohan.sdsu.edu/dept/afra>**

## Faculty

Emeritus: Chambers, Kornweibel

Chair: Weber

Professor: Weber

Associate Professors: Alkebulan, Cornwell, Nesbitt, Toombs

Adjunct: Reddick

## Offered by the Department

Major in Africana studies with the B.A. degree in liberal arts and sciences.

Minor in Africana studies.

Minor in African studies. **See** Interdisciplinary Programs.

## The Major

Africana studies offers a broad, interdisciplinary program. The curriculum is designed to focus on a variety of subjects pertaining to the Africana experience. It is also concerned with strengthening links between black students and the black community, and developing frameworks for social change and the struggle for black dignity. It seeks, in short, to provide a total educational experience of the Africana culture. The courses offered in Africana studies are available to anyone who is interested.

The major provides excellent preparation for the fields of law, government, foreign service, business administration, research, consulting, librarianship, counseling, program development, program design, program analysis, urbanology, and writing, to name a few, as well as the more traditional Africana studies profession of teaching.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Africana Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 22111) (SIMS Code: 110301)**

All candidates for the degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in Africana studies courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Africana Studies 101A or 101B and 170A; and nine units selected from Africana Studies 101A or 101B (not chosen above), 170B, 240, 250, 260, 270. (15 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Study Abroad Requirement.** Majors specializing in African Studies or Diaspora Studies are required to complete a minimum of three units of study abroad experience in Africa or in the Black diaspora (excluding the United States). To meet this requirement, majors must have the study abroad experience approved with written consent of the undergraduate adviser and department chair.

**Major.** A minimum of 27 upper division units to include Africana Studies 327, 490, and 12 units selected from one of the following areas; six units from one of the other areas and three units from the remaining area. Up to six units, with appropriate content, of 496 and 499 in any combination may be applied to an area of specialization with the approval of the department chair. With the exception of Africana Studies 485, no course may be used to satisfy more than one area of specialization.

**African American Studies:** Africana Studies 321, 322, 331, 332, 341, 362, 363, 365A, 365B, 380, 385, 420, 421, 422, 423, 455, 462, 471, 476, 485. Study abroad is recommended.

**African Studies:** Africana Studies 423, 463, 465 (or French 465), 470, 472, 481, 485; Humanities 460; Political Science 364; Religious Studies 328\*. Study abroad is required.

**Diaspora Studies:** Africana Studies 320, 351, 421, 463, 464, 476, 481, 485. Study abroad is required.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the Africana studies program adviser and filed with the Office of Advising and Evaluations one semester before graduation.

\*Additional prerequisites required.

## Africana Studies Minor

**(SIMS Code: 110301)**

The minor in Africana studies consists of a minimum of 18 units in Africana Studies, of which 12 units must be upper division, to include six units selected from the courses for preparation for the major, six units selected from one of the three areas of the major, and three units from each of the remaining areas.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (AFRAS)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### AFRAS 101A. Introduction to Africana Studies: Social and Behavioral Sciences (3) [GE]

Interdisciplinary introduction of African American thought and behavior. Subject areas include social systems, economic empowerment, self development, family dynamics, use of power, cognitive styles, interethnic communication and international relations. Review of relevant literature in social and behavioral sciences.

**AFRAS 101B. Introduction to Africana Studies: Humanities (3) [GE]**

Interdisciplinary introduction to African American history, literature, other arts and religion. Subject areas include methodology and theoretical perspectives of Africana studies.

**AFRAS 120. Composition (3) [GE]**

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See the Graduation Requirements section of catalog.) **Proof of completion of prerequisites required:** Copy of EPT or competency scores or verification of exemption; proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

Designed to develop and enhance composition and reading skills. Focus on writing skills that contribute to academic growth and development. Not open to students with credit in a higher-numbered composition course or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

**AFRAS 140. Oral Communication (3) [GE]**

Practice in speaking, critical listening, reasoning and organizing. Theory and techniques of communications used to evaluate the effect they have on the lives of Blacks and others. Not open to students with credit in Chicana and Chicano Studies 111A or Communication 103.

**AFRAS 170A-170B. Afro-American History (3-3) [AI]**

American history from a Black perspective. These courses satisfy the graduation requirement in American Institutions.

**AFRAS 200. Intermediate Expository Writing and Research Fundamentals (3) [GE]**

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirement and Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Development of intermediate expository writing skills and application of practical research principles. Not open to students with credit in Chicana and Chicano Studies 200, English 200, General Studies 260D, Linguistics 200, or Rhetoric and Writing Studies 200.

**AFRAS 240. Africana Intellectual Thought (3) [GE]**

Major theories and theory-makers and production of a global black intellectual tradition. Thoughts and writings of major black leaders as they relate to liberation, struggle, resistance, and cultural production.

**AFRAS 250. Psychology of Blackness (3)**

Facts, principles, and concepts which are basic to understanding human behavior. An analysis of the psychological motivations and behavioral responses of and toward Afro-Americans.

**AFRAS 260. Africana Literary Study (3) [GE]**

Oral and written literature produced by people of African descent. How Africana people use language to communicate their history and culture. Basic literary vocabulary, techniques, and theories for the non-specialist.

**AFRAS 270. African Foundations of Africana Studies (3) [GE]**

African foundations of Africana studies from contemporary issues to forces that shaped Africa and its Diaspora.

**AFRAS 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**AFRAS 320. Political Economy of African Diaspora (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Political economy of urban growth, development, and redevelopment in African diaspora, examined in historical and contemporary contexts. Race and class inequality and conflict; effectiveness of public and private sector decisions and programs.

**AFRAS 321. Black Political Participation in America (3) [GE]**

Prerequisites: Africana Studies 101A or 170A or 170B or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Afro-American political life and development in the United States. Interaction between Afro-Americans and various actors, institution processes, and policies of the American system of politics and governance.

**AFRAS 322. African American Political Thought (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Political and social thought underlying principles, goals, strategies developed by African Americans in struggle for social development and human rights. Focus on twentieth century thought.

**AFRAS 327. Critical Theories in Africana Studies (3)**

Prerequisite: Africana Studies 101A or 101B.

Major historical and contemporary theories and thinkers that have defined and continue to define discipline of Africana studies. Comparative analyses of diverse voices and perspectives.

**AFRAS 331. The Black Family (3)**

Structure and functions of the Black family in contemporary American society.

**AFRAS 332. Black Women: Myth and Reality (3)**

Prerequisite: Africana Studies 101A or 101B.

Images of Black women in America and how those images have been distorted.

**AFRAS 341. Cultural Patterns and African American Identity (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Impact of social institutions on African American identity and cultural patterns.

**AFRAS 351. Black Religions and Spirituality (3)**

Prerequisite: Africana Studies 101B.

Major Black religious and spiritual responses and expressions in Africa and Black diaspora, including creation of institutions to support and advance religious and spiritual matters.

**AFRAS 360. Communications and Community Action (3)**

Prerequisite: Africana Studies 140 (field assignments are a major part of this course).

Application of the basic theories of communication through field projects. Study of the communication problems that exist between sociopolitical groups and the media.

**AFRAS 362. Rhetoric of Black America (3)**

Prerequisite: Three units of Afro-American history or communications.

Rhetoric of Black Americans from David Walker to the present, role rhetoric has played in history of Black people and an analysis of Black audience in terms of the Black experience.

**AFRAS 363. Sociocultural Analysis of Black Languages (3)**

Prerequisite: Three units in Africana Studies.

Social and cultural functions of Black languages, verbal and non-verbal, in Afro-American life, and their profound impact on larger society. Also, a probe into issues concerning validity of Black English.

**AFRAS 365A. African American Literature to 1900 (3) [GE]**

Prerequisite: Africana Studies 101B or 260 or completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Eighteenth and nineteenth century writing by African American authors. Issues of literary form, canon formation, and sociopolitical impact of the literature upon African American culture.

**AFRAS 365B. African American Literature After 1900 (3) [GE]**

Prerequisite: Africana Studies 101B or 260 or completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Writing by African American authors after 1900. Issues of literary form, canon formation and sociopolitical impact of the literature upon African American and American culture of the twentieth and twenty-first centuries.

**AFRAS 380. Blacks in the American Justice System (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Interpretation and application of constitutional principles and judicial decisions to political and social problems faced by Afro-Americans.

**AFRAS 385. African American Music (3) [GE]**

Prerequisite: Africana Studies 101B or completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

African American music from its African roots to present. Consideration of musical styles, events, significant contributors as well as role of sociocultural values in development of music.

**AFRAS 420. Afro-Americans and the Politics of Urban Education (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Struggle against Afro-American subordination and complexities, contradictions, and dilemmas of formulating and implementing quality education and equal opportunity policies. Interaction between politics and education during eras of machine, reform, and postreform politics.

**AFRAS 421. Black Urban Experience (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Major social science literature of international Black urban experience. Behavior, culture, and oppressions unique to urban environment.

**AFRAS 422. Modern Civil Rights Movement (3)**

Prerequisite: Africana Studies 101A or 101B.

Key events, strategies, and theoretical debates that emerged from struggle for black equality during modern civil rights movement in the United States from 1945 to present.

**AFRAS 423. Black Nationalism (3)**

Prerequisite: Africana Studies 101A or 101B.

Black nationalism in the world, with emphasis on comparative analysis of writings of leading nationalist (and Pan-Africanist) thinkers and theorists.

**AFRAS 445. Ethnicity and Social Psychology (3) [GE]**

Prerequisite: Africana Studies 101A or 250 or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Major social psychological theories specifically focusing on how these theories relate to minority attitude/value formation and group behavior. Strategies for resolving social issues.

**AFRAS 455. Africana Class, Gender, and Sexualities (3) [GE]**

Prerequisite: Africana Studies 101A or completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Intersection of race, class, gender, and sexualities within Africana culture and experience and impact on Africana world-view.

**AFRAS 462. The Harlem Renaissance (3)**

Black literature of the 1920s from literary, historical, sociological and cultural perspectives.

**AFRAS 463. Black Literatures of the World (3) [GE]**

Prerequisite: Africana Studies 101B or 260 or completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Afro-American literature in context of world literatures by Blacks. Cross-cultural influences between Africa and the Americas.

**AFRAS 464. Caribbean Literature (3) [GE]**

Prerequisite: Africana Studies 101B or 260 or completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Political, religious, and musical paradigms in writing from 1900 to present. Politico-religious movements and related art forms (i.e. Rastafarian Reggae, Dub Poetry).

**AFRAS 465. Africa in Literature and Film (3) [GE]  
(Same course as French 465)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

African cultural history through literature and film. Consistency/variety of African cultural expressions and conventions in literature and film. Taught in English.

**AFRAS 470. Comparative History: Afro-American and African Heritage (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Conceptual framework of African history and a comparative study of Afro-American institutions.

**AFRAS 471. Africana History (3)**

Prerequisite: Africana Studies 170A or 170B.

Major themes in African American historical development as they relate to African survivals in diaspora; growth of free Africana communities; Reconstruction; history of United States social movements; movement leadership and daily life; and concurrent developments in Africa. Not open to students with credit in Africana Studies 471A and 471B.

**AFRAS 472. African Enslavement (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Comparative history of enslavement of Africans in the Americas and Muslim world, African servitude, and modern day enslavement.

**AFRAS 476. History and Culture of Hip Hop (3)**

Prerequisite: Africana Studies 101A or 101B.

Genesis of hip hop as a worldwide culture, with attention to major Africana historical, political, sociological, cultural, and aesthetic precursors.

**AFRAS 481. Africana Aesthetics (3) [GE]**

Prerequisite: Africana Studies 101B or completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Africana theory and cultural production relating to ideas of beauty and truth. African aesthetic practices and their transformations in Black diaspora.

**AFRAS 485. Blacks in the Arts (3)**

Prerequisite: Africana Studies 101B.

Academic and artistic perspectives on Black participation in and contributions to the creative and performing arts. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**AFRAS 490. Senior Seminar (3)**

Prerequisite: Open only to majors who have completed the first semester of junior year.

Capstone experience in which mastery of practice, theories, concepts, and issues central to Africana studies is demonstrated.

**AFRAS 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**AFRAS 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

# American Indian Studies

In the College of Arts and Letters

**OFFICE:** Arts and Letters 331

**TELEPHONE:** 619-594-6991 / **FAX:** 619-594-2646

## Faculty

Chair: Field

Professors: Kilpatrick, Parker

Associate Professor: Field

Assistant Professor: Kamper

Adjunct: Cayleff, Colston, Connolly, Cooper, Cox, Garrett, Greenfeld, Ortiz, Reinholtz, Robinson-Zanartu, White

## Offered by the Department

Major in American Indian studies with the B.A. degree in liberal arts and sciences.

Minor in American Indian studies.

## The Major

A major in American Indian studies provides students with a liberal arts education focused on cultural diversity. The American Indian studies program takes an interdisciplinary approach to the study of Native American peoples. Using literature, art, history, and politics as touchstones, students come to understand the individual, as well as tribal character of Indian people. Special emphasis is given to the tribes of Southern California. Courses also draw comparisons between American Indian life and the life of other members of American society. Career opportunities for graduates include jobs in business, education, government, politics, social sciences, and health and human services. Students may also find positions in programs and institutions located on local Indian reservations. Federal agencies also seek people with knowledge about and experience with American Indian people and their culture. Agencies include the Bureau of Indian Affairs, the Indian Health Services, the Bureau of Land Management, and the U.S. Forestry Services.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## American Indian Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 22121) (SIMS Code: 110702)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in American Indian studies can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** American Indian Studies 110; and 140 or 141. (6 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 25 upper division units to include American Indian Studies 420, 485, 498, and 18 units selected from American Indian Studies 300, 320, 331, 370, 430, 435, 440, 451, 460, 470, 499. Anthropology 446, 457, or American Indian content courses from other departments may be applied to this major with written consent of the undergraduate adviser.

## American Indian Studies Minor

**(SIMS Code: 110701)**

The minor in American Indian studies consists of a minimum of 18 units, 12 of which must be upper division courses selected from American Indian studies or other appropriate departments (e.g., anthropology, linguistics, political science, Latin American studies) in consultation with the departmental adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (AMIND)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### AMIND 110. American Indian Heritage (3) [GE]

Major American Indian themes, beliefs, and practices and their impact on Western civilization through institutions, art, literature, philosophy, and religion.

#### AMIND 120. Written Communication (3) [GE]

Prerequisite: Satisfaction of the English Placement Test and Writing Competency requirements. (See the Graduation Requirements section of catalog.) **Proof of completion of prerequisite required:** Copy of EPT or competency scores or verification of exemption; proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

Understanding of rhetoric of written argument from interdisciplinary perspectives, with reference to American Indian content. Designed to develop and enhance composition and reading skills. Focus on writing skills that contribute to academic growth and development. Not open to students with credit in a higher-numbered composition course or Africana Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

#### AMIND 140. U.S. History from an American Indian Perspective to 1870 (3) [AI]

U.S. history from an indigenous perspective pre-Columbian contact to 1870. Examines Native American societies with attention to white intrusion, U.S. constitution and legislation to remove Indians, control of their land and impact upon indigenous culture and society. Satisfies the American Institutions requirement in American history and United States Constitution.

#### AMIND 141. U.S. History from an American Indian Perspective Since 1870 (3) [AI]

U.S. history from an indigenous perspective from 1870 to the present. Examines Native American societies, political systems, and reservations. Attention given to historical, contemporary, political, socioeconomic issues, the U.S. and California constitutions and their impact on Native Americans. Satisfies the American Institutions requirement in American history and California government.

**AMIND 200. American Indian Environmental Management (3)**

Native American sciences and contemporary tribal environmental management, including care and restoration of California and other North American landscapes. Environmental issues surrounding American Indian lands, such as water supply and quantity, land use planning, environmental justice, and environmental economics.

**AMIND 220. Contemporary California Indian Issues (3)**

Contemporary reservation, rural, and urban Indian communities in California. California Indian status and issues examined through history, literature, economic development, law, political systems, religious practices, ecology, language use, and identity formation.

**AMIND 240. Kumeyaay History (3)**

History of Kumeyaay and Diegueno tribes living in Southern California and Baja, prior to contact with Europeans to late twentieth century. Traditional culture including socio-political organization. Relations with and reactions to Spanish, Mexican, and American cultures.

**AMIND 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**AMIND 300. American Indian Oral Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Pre-twentieth century American Indian oral and symbolic traditions including creation and origin legends, coyote stories, ceremonial songs, oratory, and memoirs.

**AMIND 320. American Indians in Contemporary Society (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Sociological understanding of the American Indian groups in contemporary society with emphasis on the relationship to dominant society and why the focus has been on Indians as social problems.

**AMIND 331. The American Indian Political Experience (3)  
(Same course as Political Science 331)**

Prerequisite: American Indian Studies 110 or Political Science 102.

Social and political responses to dominant group policies by American Indian as compared to other minority groups. (Formerly numbered American Indian Studies 400.)

**AMIND 370. Tribal Gaming: Cultural and Political Context (3)  
(Same course as Hospitality and Tourism Management 370)**

Prerequisite: American Indian Studies 110 or Hospitality and Tourism Management 201.

Social and political context of American Indian tribal gaming, political relationships between federal and tribal governments, contemporary examples of tribal gaming, sociocultural and economic forces leading to gaming as strategy for economic development, and responses by non-Indian communities to tribal gaming.

**AMIND 420. Indian Peoples of California (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Indian peoples of California. Their histories and cultures from oral traditions to contemporary issues. Focus on selected Indian tribes and communities.

**AMIND 430. American Indian Poetry and Fiction (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Contemporary American Indian poetry and fiction explored in works of Welch, Ortiz, Momaday, Silko, Deloria, Allen, Erdrich, and others.

**AMIND 435. Indians Through Film and Television (3) [GE]**

Ethnographic film-making. Impact of movies and television on popular concepts of Indians. Films viewed in class.

**AMIND 440. American Indian History (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Historical analysis of Indian-White contact. Emphasis on the impact of historical events upon the various cultures.

**AMIND 451. American Indian Identity (3) [GE]  
(Same course as Anthropology 451)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Multidisciplinary perspectives on American Indian identity today. Topics include perspectives from political, ethnic, cultural and legal standpoints, both within and outside of indigenous communities, as well as diachronic variation in perspectives.

**AMIND 460. American Indian Languages (3) [GE]  
(Same course as Linguistics 460)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Structures of American Indian languages. Language families of North America, history, and present circumstances. Interdependence of language and culture, differences in ways of speaking. Issues of language endangerment, language death, language maintenance, and language revitalization.

**AMIND 470. American Indian Religion (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Spirits, prophecies, and renewals of the Indian way compared through symbols and ceremony. Religions surveyed as they have been influenced by foreign elements and philosophies. Influences on values and tribalism as reflected through symbols and other measures.

**AMIND 485. Federal Indian Law (3)**

Prerequisite: American Indian Studies 110, 140, or 141.

Legal relationship between the United States and Indian people and Indian tribes as field of Indian law was developed and has changed over the years until the present.

**AMIND 496. Topics in American Indian Studies (1-3)**

An undergraduate seminar. See *Class Schedule* for specific content. Maximum credit six units. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**AMIND 498. American Indian Community Service Experience (1) Cr/NC**

Service learning experience in local American Indian community, mentoring, tutoring, or interning at Indian Education Center, Indian Health Center, or similar experience. Minimum of 35 contact hours. Service experience coordinated by supervising American Indian studies faculty with target community organization.

**AMIND 499. Special Study (1-4)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

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# Anthropology

In the College of Arts and Letters

**OFFICE:** Arts and Letters 448  
**TELEPHONE:** 619-594-5527 / **FAX:** 619-594-1150  
**E-MAIL:** [anthro@mail.sdsu.edu](mailto:anthro@mail.sdsu.edu)  
**http://www-rohan.sdsu.edu/~anthro**

## Faculty

Emeritus: Gamble, Goldkind, Greenfeld, Henry, Himes, Leach,  
 Lippold, Moore, Pendleton, Rohrl, Rollefson, Watson, Whitney  
 Chair: Mallios  
 Professors: Ball, Mallios, Sobo  
 Associate Professor: Pérez  
 Assistant Professors: Conway, Lauer, Mayes, Riley  
 Lecturer: Miller

## Offered by the Department

Master of Arts degree in anthropology.  
 Major in anthropology with the B.A. degree in liberal arts and sciences.  
 Minor in anthropology.

## The Major

Anthropologists study the biological characteristics, evolutionary history, geographic distribution, environmental adaptations, linguistic practices, social relationships, institutions, customs, knowledge, myths, and cultural processes of human populations.

The anthropology major provides a broad background for the various specialized areas in the field: (a) archaeology, the analysis of past cultures through a focus on material remains or artifacts; (b) socio-cultural anthropology, the study of socio-cultural processes and diversity; (c) linguistic anthropology, the analysis of cultural differences in communication; and (d) biological anthropology, the study of past and present human and primate populations.

Employment opportunities for anthropology graduates include academic research and teaching as well as nonacademic or applied careers, for example in nonprofit associations, federal, state, local government, and international agencies; in health care, business, and manufacturing organizations; at research institutes; at zoos or wildlife preserves; on environmental projects, doing human-impact assessment or resource management; and in museums.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser during the first semester after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Anthropology Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 22021) (SIMS Code: 110901)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in anthropology courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Anthropology 101 and 102; and either Economics 201, Political Science 201, Sociology 201, or Statistics 119 or 250. (9 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirements. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or Anthropology 396W, or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Graduation Survey.** All majors will complete an online survey assessing their experiences in the department and educational outcomes in the major. Students answer the survey online at the Department of Anthropology webpage. **The survey must be completed during the student's final semester.**

**Major.** A minimum of 36 upper division units in anthropology to include Anthropology 301, 302, 303, 304, one course may be substituted with another upper division anthropology course, with consent of department; six units selected from the following "methods" courses: Anthropology 312, 348, 360, 495, 502, 505, 506, 507, 508, 520, 531, 532, 560, 561, 580; 499 and 583 with consent of department; and 18 additional upper division units in anthropology completed either from across the discipline, for a four-field focus (all upper division courses are eligible, including Anthropology 396W, if not used to satisfy the Graduation Writing Assessment Requirement), or from one of the following focal areas:

**Archaeology:** Anthropology 312, 348, 349, 440, 441, 446, 457, 471, 505, 537, 560, 561; also acceptable when of relevant content are Anthropology 495, 499, 580, 582, 583, and Anthropology 396W if not used to satisfy the Graduation Writing Assessment Requirement.

**Biological Anthropology:** Anthropology 355, 360, 402, 406, 429, 501, 502, 505, 506, 507, 537, 580; also acceptable when of relevant content are Anthropology 495, 499, 582, 583, and Anthropology 396W if not used to satisfy the Graduation Writing Assessment Requirement.

**Linguistic Anthropology:** Anthropology 351, 410, 520, 524, 537, 580; also acceptable when of relevant content are Anthropology 495, 499, 582, 583, and Anthropology 396W if not used to satisfy the Graduation Writing Assessment Requirement.

**Socio-Cultural Anthropology:** Anthropology 350, 351, 402, 403, 410, 422, 424, 429, 430, 432, 439, 442, 444, 446, 448, 449, 450, 451, 452, 457, 508, 510, 520, 522, 523, 524, 529, 531, 532, 533, 535, 536, 537, 540, 580; also acceptable when of relevant content are Anthropology 495, 499, 582, 583, and Anthropology 396W if not used to satisfy the Graduation Writing Assessment Requirement.

## Anthropology Minor

(SIMS Code: 110901)

The minor in anthropology consists of a minimum of 18 units in anthropology to include Anthropology 101, 102, and 12 upper division units in anthropology.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ANTH)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### ANTH 101. Human Biocultural Origins (3) [GE]

Humankind's place in nature; fossil evidence for hominid evolution; evolutionary theory; racial, clinal and genetic variability; relationship of physical and cultural adaptations; the rise of civilization.

#### ANTH 102. Introduction to Cultural Anthropology (3) [GE]

Our relationship to our environment; types of preliterate society; systems of social organization, politics, economics, religion, and language.

#### ANTH 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ANTH 301. Principles of Biological Anthropology (3)

Two lectures and three hours of laboratory.

Prerequisite: Anthropology 101.

Theory and method in biological anthropology. Hands-on collection and interpretation of data in primate comparative anatomy, human evolution, human skeletal biology, human adaptability, and primate behavioral observation.

#### ANTH 302. Principles of Archaeology (3)

Prerequisite: Anthropology 101.

History, method, and theory of archaeological data acquisition and interpretation. Methods of data recovery and analysis suitable to resolution of historical and processual questions. Archaeological examples from a worldwide sample of prehistoric and historic societies.

#### ANTH 303. Principles of Socio-Cultural Anthropology (3)

Prerequisite: Anthropology 102.

Development of theories which explain nature of culture and cultural variation. Applications of theory of culture to field methods in ethnography and interpretation of ethnographic findings.

#### ANTH 304. Principles of Anthropological Linguistics (3)

Prerequisite: Anthropology 102.

Structural nature of language. How languages differ, change and influence each other. Language families of the world. Significance of language for human social life in a variety of cultures.

#### ANTH 312. Archaeological Field Techniques (3)

Six hours of activity.

Prerequisite: Anthropology 302.

Archaeological excavation of significant sites in San Diego. Techniques of excavation, recording, and surveying.

#### ANTH 348. Historical Archaeology (3) [GE]

Prerequisites: Anthropology 102 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

How historical texts and archaeological artifacts are used to understand colonial expansion and indigenous response across the globe over last half millennium. Incorporates native and European worldviews in investigation of archaeological sites from historical times.

#### ANTH 349. Roots of Civilizations (3) [GE]

Prerequisite: Open only to upper division students who have completed the General Education requirement in Foundations of Learning II.C., Humanities.

Origins and major attributes common to civilizations. Form and function of fundamental characteristics in different civilizations. Examples taken from Africa, Asia, the Near East and the New World.

#### ANTH 350. Cultures Around the Globe (3) [GE]

Prerequisites: Anthropology 102 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Cultural patterns of representative peoples. Industries, arts, social organization and supernaturalism considered with view to environmental adjustment, historical development and functional interrelation. Ethnological theories reviewed and applied in interpreting illustrative societies.

#### ANTH 351. Language and Globalism (3) [GE]

Prerequisites: Anthropology 102 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Relationship between languages and global expansion of human societies from early modern humans to present. Changes in language use accompanying emergence of new communicative technologies and increased integration of diverse societies and cultures into the world economy.

#### ANTH 355. Exploring Primate Behavior (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A. Natural Sciences and Quantitative Reasoning. If a biological sciences course is not taken to satisfy Foundations of Learning II.A. 2. Life Sciences, a college course in biological sciences is required.

World of our closest living relatives. What it means to be a primate, where primates live, how primates have evolved into different groups and adapted to different environments, and what primates are threatened with extinction and why.

#### ANTH 360. From the Grave: Modern Forensic Anthropology (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A. 2. Life Sciences. If a biological sciences course is not taken to satisfy Foundations of Learning II.A. 2. Life Sciences, a college course in biological sciences is required.

Physical anthropology and skeletal biology within medicolegal context. Methodologies used in science of forensic anthropology, as interdisciplinary nature and authorities in related fields.

#### ANTH 396W. Writing of Anthropology (3)

Prerequisites: Anthropology 101 and 102. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed the Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Ability to write clearly, correctly and effectively about anthropological subjects. Examples of anthropological writing from the main sub-disciplines, mini-ethnographies, summaries and critiques.

**ANTH 402. Dynamics of Biocultural Diversity (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy Foundations of Learning II.A.2. Life Sciences, a college course in biological sciences is required.

Interaction of biology and culture in human populations. Relating genetic and cultural processes to the changes in human populations over time.

**ANTH 403. Body Culture: Anthropology of the Body (3)**

Prerequisite: Anthropology 102.

Human embodiment from socio-cultural perspective. Body ideals as well as body decoration, modification, care, and use in cultural context. Relationship between mind and body, and culture's relationship to the individual.

**ANTH 406. Nonhuman Primates (3)**

Prerequisite: Anthropology 101.

Basic aspects of nonhuman primates, geographical distribution, ecology (habitat, diet), external and internal morphology, locomotion and social behavior, reproduction and development.

**ANTH 410. Language in Culture (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Survey of anthropological interests in the study of language and of linguistic interests in the sociocultural context of language.

**ANTH 422. Music and Culture (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

How the forms, functions and meanings of music vary crossculturally. Understanding a society's music historically, holistically and experientially, with emphasis on non-Western music. Universals of music and music use. Ethnological theories of music and music change.

**ANTH 424. The Supernatural in Cross-Cultural Perspective (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Magic and religion. Conceptions of the supernatural in a cross section of world's cultures. Anthropological theories relating to supernatural beliefs and practices.

**ANTH 429. Anthropology of Food and Eating (3)**

Prerequisites: Anthropology 101 and 102.

Human biological and cultural variation as seen in study of food and eating. Biocultural approach to explore evolution of human diet to political economy of contemporary food systems.

**ANTH 430. Anthropology of Law and Dispute Processing (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B, Social and Behavioral Sciences required for nonmajors.

Law, social control, and dispute processing studied in sociocultural context. Law in Western society compared with "law-ways" in a number of traditional or nonindustrialized cultures. Basic concepts and theories about law examined crossculturally.

**ANTH 432. Principles of Personality in Culture (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Principles related to the determinants of human behavior contained in culture. Studies of behavior crossculturally.

**ANTH 439. Cultural Comparisons Through Film (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Principles of cultural anthropology to include signs and proxemics, cultural prerequisites, kinship and social organization, and law and values. Feature and documentary films.

**ANTH 440. Mesoamerican Civilization Before the Europeans (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Pre-European cultures and civilizations of Mexico and upper Central America from 25,000 years ago to arrival of Spanish in 1517. Regional histories, economies, social organizations, ideologies, and political systems, settlement patterns, architecture, and art.

**ANTH 441. South American Civilization Before the Europeans (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Pre-European cultures and civilizations of Pacific Coastal, Andean Highland, and Amazonian South America from 25,000 years ago until 1553. Regional histories, economies, social organizations, political systems, ideologies, art, and architecture from peopling of the continent to European contact and colonization.

**ANTH 442. Cultures of South America (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Indian cultures in terms of origins, migration, relation to habitat, cultural variation and relevance to contemporary trends. Development of Inca civilization, the effects of the Spanish conquest and its aftermath.

**ANTH 444. American Cultures (3)**

Prerequisite: Anthropology 102.

An "inside-out" view of America. What culture has to do with feeling like an American. Theory and method in anthropology. Approaches include subcultures, American values, and mass media.

**ANTH 446. Native Peoples of the Southwest (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Indian cultures of the American Southwest in historic times; ecological adaptations, responses to white contact, adaptations to modern American life.

**ANTH 448. South Pacific Cultures (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Aboriginal cultures and peoples of Australia, Melanesia, Micronesia, and Polynesia in prehistoric, historic, and modern times.

**ANTH 449. Cultures of Sub-Saharan Africa (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Indigenous peoples and cultures of Africa south of the Sahara. Comparison of cultural traditions, social organization, and modern trends in newly emergent nations of the area.

**ANTH 450. Cultures of India (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Indigenous peoples and cultures of India and contiguous areas of South Asia. The development of cultural traditions, social organization, and modern trends.



**ANTH 451. American Indian Identity (3) [GE]**  
**(Same course as American Indian Studies 451)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Multidisciplinary perspectives on American Indian identity today. Topics include perspectives from political, ethnic, cultural and legal standpoints, both within and outside of indigenous communities, as well as diachronic variation in perspectives.

**ANTH 452. Japanese Society (3) [GE]**

Prerequisites: Anthropology 102, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences required for nonmajors.

Culture and social organization of Japanese people. Traditional Japanese economic, social, political and religious institutions. Okinawa and overseas Japanese. Recent industrial and urban changes in modern Japan.

**ANTH 457. Native Cultures of California (3) [GE]**

Prerequisites: Anthropology 102 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Cross-cultural comparison of California Indian societies. Traditional political, religious, and economic institutions. Ecological adaptations. Linguistic diversity, traditional architecture, and culture change. Focus on Kumeyaay, Cahuilla, Chumash, Patwin, Pomo, and Yurok.

**ANTH 471. Archaeology of North America (3)**

Prerequisite: Anthropology 101 or 102.

Origins of the American Indian and survey of the main prehistoric cultures of the North American continent.

**ANTH 495. Internship in Applied Anthropology (1-3) Cr/NC**

Prerequisites: Anthropology 301, 302, 303, 304.

Supervised field placement of students in campus or community organization, museums, cultural resource management firms, social service and development agencies, forensic laboratories and other offices including business firms where concepts and principles of anthropology can be put into practice. May be repeated for maximum credit three units.

**ANTH 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**ANTH 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**ANTH 501. Primate Behavioral Ecology (3)**

Prerequisite: Anthropology 301.

Ecology and behavior of nonhuman primates to include history of primate ecological research, feeding ecology, predation, demography and dispersal, reproduction, conflict and cooperation, conservation as well as contemporary primatology.

**ANTH 502. Observing Primate Behavior (3)**

Prerequisites: Anthropology 301 and Anthropology 355 or 501.

Methods of observation and analysis used in study of primate behavior. Behavioral observations of primates at the San Diego Zoo and review of literature in primatology. (Formerly numbered Anthropology 500.)

**ANTH 505. Human Osteology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Anthropology 301.

Identification of individual bones and teeth; sex, age, and racial variation; stature reconstruction; continuous and discontinuous morphological variations; paleopathology. Training in observations, measurements, and analyses.

**ANTH 506. Osteology and Paleopathology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Anthropology 505.

Conditions that result in bony pathological responses are often linked to cultural and environmental variables including habitual behaviors and diet. Will consider how these variables can be investigated through paleopathology and paleoepidemiology.

**ANTH 507. Forensic Anthropology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Anthropology 505.

Anthropology within medicolegal context. Methodology used in forensic anthropology.

**ANTH 508. Medical Anthropology (3)**

Prerequisite: Anthropology 303.

Socio-cultural ecology of disease, medical health beliefs and practices in cultural context, and complexities of health care delivery in pluralistic societies.

**ANTH 510. Environmental and Ecological Anthropology (3)**

Prerequisite: Anthropology 303.

Ecological thinking in anthropology with focus on relationships between human environmental and ecological systems in tribal, peasant, and industrial societies. Cultural aspects of how and why human societies have maintained or undermined their ecosystems.

**ANTH 520. Ethnographic Field Methods (3)**

Prerequisite: Anthropology 303.

Problems and techniques of field work in ethnographic and social anthropological research; field work projects conducted using various qualitative and quantitative research techniques. Students work with informants in various settings.

**ANTH 522. Economic Anthropology (3)**

Prerequisite: Anthropology 303.

Integrates analyses of production, distribution, and consumption of goods and services with study of cultures. Interrelated economic, social, and cultural thought; classifications of disparate economies and reciprocity.

**ANTH 523. Anthropology of Politics and Power (3)**

Prerequisite: Anthropology 303.

How anthropology investigates power as an underlying and primary force in human relations through cross-cultural study of political institutions, effects, and relationships of power in various societies.

**ANTH 524. Cultural Dynamics of Religious Discourse (3)**

Prerequisite: Anthropology 303.

Interplay of local and global religious discourses. Creativity of indigenous religious practices. Dynamics of missionization, including hybridization with local religious practices. Fundamentalist discourses as oppositional mediations between local and global identity formations.

**ANTH 529. Urban Anthropology (3)**

Prerequisite: Anthropology 303.

Urban adaptations of past and present societies. Descriptive topics and applied concerns regarding urban origins, migrations, kinship, ethnicity, stratification, and change. Ethnographic examples drawn from Western and non-Western societies.

**ANTH 531. Methods in Applied Anthropology (3)**

Prerequisite: Anthropology 303.

Anthropological concepts and methodologies to solve human problems in both western and non-western societies through intervention, community development, impact assessment, and cultural communication.

**ANTH 532. Anthropology of Development and Conservation (3)**

Prerequisite: Anthropology 303.

Anthropological perspectives on design, implementation, and assessment of development projects and conservation initiatives in "Third World." Interlinkages between resource exploitation, underdevelopment, and local autonomy; and political and ethical dilemmas faced by anthropologists involved in projects.

**ANTH 533. Race, Ethnicity, and Identity (3)**

Prerequisite: Anthropology 303.

Theories and practices of race, ethnicity, and identity from a cross-cultural and anthropological perspective. History of race in US and other regions, focusing on how identities are constructed around concepts of difference.

**ANTH 535. Sex, Gender, Kinship, and Marriage (3)**

Prerequisite: Anthropology 303.

Anthropological theories and typologies relating to kinship and marriage systems, their history, their relationship to cultural practices, their implications for constraints on sexual practices, and their significance in definition of gender and gender hierarchies in world societies.

**ANTH 536. Gender and Human Sexuality (3)**

Prerequisite: Anthropology 303.

Constructions of gender and sexuality from anthropological perspective. Social constructions of body, norms, deviance, and medicalization of sexuality.

**ANTH 537. Anthropology of Childhood (3)**

Prerequisite: Anthropology 303.

Childhood in diverse cultural settings; evolutionary, biosocial, and health-related aspects of childhood; social and cultural uses of idea of childhood; enculturation and children's relationship to material culture.

**ANTH 540. Contemporary Cultures of Mesoamerica (3)**

Prerequisite: Anthropology 303.

Utilizing ethnographic data explore growth and development of contemporary cultures of Mesoamerica from precontact to today. Countries may include Mexico, Belize, Costa Rica, El Salvador, Guatemala, Nicaragua, and Panama.

**ANTH 560. Advanced Archaeological Field Techniques (3)**

Six hours of activity.

Prerequisite: Anthropology 312.

Advanced projects in excavation and stabilization of ruins, archaeological surveys, laboratory analysis, preparation of reports, and act as unit supervisor. Course may be repeated with consent of instructor. Maximum credit six units.

**ANTH 561. Archaeological Laboratory Methods (3)**

Two lectures and three hours of laboratory.

Prerequisite: Anthropology 302.

Application of palynology, paleontology and relevant technologies. Individual laboratory research project required.

**ANTH 580. Anthropological Data Analysis (3)**

Two lectures and three hours of laboratory.

Prerequisites: At least one of the 300-level courses (Anthropology 301, 302, 303, or 304) and a statistics course.

Computer oriented data analysis class utilizing anthropological data sets. Special section of the SPSS computer workshop is required.

**ANTH 582. Regional Anthropology (3)**

Prerequisite: Consent of instructor.

Study of societies in a major geographical region of the world such as Africa, the Arctic, East Asia, Europe, Latin America, the Middle East, North America, Oceania, or South Asia. See *Class Schedule* for specific content. May be repeated with new content. Maximum credit six units.

**ANTH 583. Topical Anthropology (3)**

Prerequisite: Consent of instructor.

Study of a major subdiscipline such as political anthropology, economic anthropology, social anthropology, psychological anthropology, cultural ecology, applied anthropology, anthropological genetics, or environmental archaeology. See *Class Schedule* for specific content. May be repeated with new content. Maximum credit six units.

**ANTH 596. Topics in Anthropology (1-3)**

Prerequisite: Consent of instructor.

Advanced topics in anthropology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Arabic

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE: Education and Business Administration 334**  
**TELEPHONE: 619-594-5268 / FAX: 619-594-4877**  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman  
Associate Professor: Osman

**Offered by the Center for Islamic and Arabic Studies**  
Minor in Islamic and Arabic studies.

**Offered by International Business**  
Major in international business, with emphasis in Arabic.

**Offered by Social Science**  
Major in social science, with emphasis in Islamic and Arabic studies.

## Islamic and Arabic Studies Minor

(Minor Code: 22159) (SIMS Code: 115102)

Offered by the Center for Islamic and Arabic Studies, the minor in Islamic and Arabic studies consists of a minimum of 18 units, 12 of which must be upper division, to include Political Science 363; Religious Studies 328\*; six units from History 473, 474, 574; and three units of lower division religious studies. Three additional units may be selected from Arabic 101, 102, 201, 202, 330; History 473, 474, 574.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\* Additional prerequisites required.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Arabic to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Arabic 201 or the equivalent level of achievement. The usual sequence of coursework is Arabic 101, 102, 201, and 202. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the

second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters, thus fulfilling the language requirement.

## Courses (ARAB)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Arabic will not receive credit for taking lower division courses in Arabic except with advance approval from the department.**

**No credit will be given for lower division courses taken after successfully completing any upper division Arabic course taken in Arabic.**

**No credit will be given for Arabic 101, 102, 201, 202 taken out of sequence.**

### ARAB 101. Elementary Arabic I (4) [GE]

Introduction to Arabic, with emphasis on language of everyday conversation. Focus on vocabulary and structures needed for elementary speaking, listening, and reading. Not open to students who have completed three years of high school Arabic unless the third course was completed five or more years ago. Not open to students with credit in Arabic 102, 201, or 202.

### ARAB 102. Elementary Arabic II (4) [GE]

Prerequisite: Arabic 101 or two years of high school Arabic.  
Continuation of Arabic 101. Develops vocabulary and structures needed for elementary speaking, listening, and reading, with emphasis on the language of everyday conversation. Not open to students who have completed four years of high school Arabic unless the fourth course was completed five or more years ago. Not open to students with credit in Arabic 201 or 202.

### ARAB 201. Intermediate Arabic I (4) [GE]

Prerequisite: Arabic 102.  
Further development of speaking, listening, reading, and writing skills, with emphasis on the language of everyday conversation. Not open to students who have completed five years of high school Arabic unless the fifth course was completed five or more years ago. Not open to students with credit in Arabic 202.

### ARAB 202. Intermediate Arabic II (4) [GE]

Prerequisite: Arabic 201.  
Further development of speaking, listening, and reading skills, with emphasis on the language of everyday conversation.

### ARAB 296. Topics in Arabic Studies (1-4)

Topics in Arabic language, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**All upper division courses in Arabic are taught in Arabic unless otherwise stated.**

**No credit will be given for Arabic 301, 302 taken out of sequence.**

**ARAB 301. Advanced Arabic I (4) [GE]**

Prerequisites: Arabic 202; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Advanced facility in oral expression and writing for practical purposes; exposure to various dialects through newspaper and media Arabic; elements of literary and classical language.

**ARAB 302. Advanced Arabic II (4) [GE]**

Prerequisites: Arabic 301; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Continuation of Arabic 301. More advanced writing and longer expository texts. Reading modern and classical texts.

**ARAB 330. Arabic Culture (3) [GE]**

Prerequisites: Upper division standing; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Cultures of Arabic speaking peoples of the Near East, Middle East, and North Africa, as reflected in literature, the arts, history, political and social institutions. Taught in English.

**ARAB 350. Advanced Conversational Arabic (4) [GE]**

Prerequisites: Arabic 202; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Study of one or more spoken varieties of Arabic, with emphasis on advanced conversational proficiency. Social and cultural topics, conversational strategies and stylistic features. Dialect studied varies depending on student interest. May be repeated with new content. Maximum credit eight units.

**ARAB 496. Topics in Arabic Studies (1-4)**

Topics in Arabic language, literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units.

**ARAB 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

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# Art

## In the College of Professional Studies and Fine Arts

### OFFICE: Art 505

**TELEPHONE: 619-594-6511 / FAX: 619-594-1217**

**E-MAIL: [artinfo@mail.sdsu.edu](mailto:artinfo@mail.sdsu.edu)**

**<http://www.sdsu.edu/art>**

Accredited by the National Association of Schools of Art and Design.  
Accredited by the Foundation for Interior Design Education Research for Interior Design.

For purposes of exhibition and reference, the school reserves the right to retain for a limited period some of each student's work produced in class.

The School of Art, Design, and Art History is an impacted program. Therefore, students may enroll in art courses only to the maximum units allowed for credit towards graduation. Students enrolling in a course beyond the maximum allowable units will be disenrolled.

### Faculty

Emeritus: Baker, R., Berg, Cooling, Dominguez, Dumlao, Esser, Fisch, Higgins, Hunter, Longenecker, Miller, Moaney, Orth, Perczel, Ray, Rigby, Roberts-Fields, Rogers, Shirk, Wallace

Director: Ollman

Professors: Berelowitz, Burkett, Hayakawa, Maruyama, Merritt, Nelson, Ollman, Yapelli

Associate Professors: Johnson, Keely, Mansfield, Nakamura, Sherman, Siprut, Stringfellow

Assistant Professors: Cué Couttolenc, Deffebach, Hebert

Lecturers: Anderson, Bekic, Benzel, Burgess, Carlson, Fobes, Goodell, Harris, Hewitt, Kwon, Luera, Martinez, Matzigkeit, Medlen, Naage, Palese, Prior, Puffer, Rae, Ritterman, Salituri, Shigley, Trepchina, Weeks, West, Williams, Woods, Wyss

### Offered by the School of Art, Design, and Art History

Master of Arts degree in art.

Master of Fine Arts degree in art.

Major in art with the B.A. degree in liberal arts and sciences.

Emphasis in art history.

Emphasis in studio arts.

Major in art with the B.A. degree in applied arts and sciences.

Emphasis in applied design.

Emphasis in graphic design.

Emphasis in interior design.

Emphasis in multimedia.

Emphasis in painting and printmaking.

Emphasis in sculpture.

Teaching major in art for the single subject teaching credential.

Minor in art.

Minor in art history.

Certificate in museum studies (refer to the *Graduate Bulletin*).

### The Major

A significant concern of the School of Art, Design, and Art History is the creative growth of its students. The school focuses on the development of sound undergraduate programs which provide a strong basic foundation in art. A major in art may be planned with an emphasis in applied design, with specialties in ceramics, furniture/woodworking, metalsmithing, jewelry, and textiles; art history; studio arts; graphic design; interior design; multimedia; painting and printmaking; and sculpture. A broad spectrum of courses for both majors and nonmajors in art history, art appreciation, basic drawing and design is also available.

All emphases require a set of core courses consisting of courses in drawing, design, and the survey of art history of the Western world. It is strongly recommended that all students complete the core requirements during their freshman year, or at least prior to taking beginning coursework in a specific program emphasis. It is recommended that students take courses from other emphases in order to enhance their overall art experience. In addition to the undergraduate degree, the school offers a Master of Arts degree (30 units) in all of these emphases and a Master of Fine Arts degree (60 units).

Although a degree in art is often pursued as a means of self-fulfillment and creative growth, graduates of the school are employed in a variety of settings. The programs in graphic design, multimedia, and interior design have a preprofessional orientation supplemented by a strong liberal arts background. Interior design can lead to interior, architectural, landscape design or city planning. Graphic design can lead to magazine and book design; corporate design; branding; design for film, television, and the recording industry; information design; environmental graphic design; packaging; advertising; interface design for kiosks, CD-ROM, and the Internet; and type design. Multimedia prepares students in the areas of interactive and timebased media, such as web design, net art, gaming, DVD design, motion graphics, instructional systems, book arts, and publishing. The areas of painting, printmaking, and sculpture prepare students for professional attitudes toward the fine arts and the continuance of their educational experience in graduate schools with the goal of teaching at institutions of higher learning. The applied design program can be developed to specialize in ceramics, furniture design/woodworking, jewelry, metalsmithing, textile design and weaving.

### Impacted Programs

Emphases in the School of Art, Design, and Art History are impacted. Students must enter the university under the designated major code for selected programs. To be admitted to the selected program, refer to the program description for specific impacted criteria.

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Art Major

#### With the B.A. Degree in Liberal Arts and Sciences

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in art courses can apply to the degree for students with an emphasis in art history. For students majoring in art with an emphasis in studio arts no more than 57 units in art courses can apply to the degree.

This major in art may be planned with an emphasis in studio arts or art history.

A minor is not required with this major.

#### Emphasis in Art History

(Major Code: 10031) (SIMS Code: 660517)

**Impacted Program.** The art history emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the art history emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 258, 259, and 263. Art 100, 101, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (15 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. French or German is recommended for those students who plan to pursue graduate study in art history. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in art history to include Art 578 and 593; and 21 units selected from Art 371 and 557 through 578, and Philosophy 541.

### Emphasis in Studio Arts

(Major Code: 10021) (SIMS Code: 660589)

**Impacted Program.** The studio arts emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the studio arts emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 203, 204, 216, 258, 259, and six units of art electives. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (33 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units in art to include Art 403, 404, and 500; six units of art history; and nine units of art electives selected in consultation with an adviser.

## Art Major

With the B.A. Degree in Applied Arts and Sciences

(Major Code: 10021) (SIMS Code: 660501)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

### Emphasis in Applied Design

(Major Code: 10021) (SIMS Code: 660509)

**Impacted Program.** The applied design emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the applied design emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 220, 258, 259, and six units of art electives. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (27 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in art to include three units from each of the areas listed below, and six units of extended work in one of the areas; three units of art electives; and six units of art history.

*Fiber:* Art 435, 436, 535, 536

*Metal:* Art 331, 431, 432, 531, 532

*Clay:* Art 325, 326, 425, 525, 526

*Wood:* Art 323, 423, 523

### Emphasis in Graphic Design

(Major Code: 10091) (SIMS Code: 660557)

**Impacted Program.** The graphic design emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the graphic design emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 3.00 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 241, 242, 258, 259. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (24 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units in art to include six units of art history (Art 577 recommended); Art 339A, 339B, 339C, 340, 341, 342A, 345; 12 units selected from Art 441, 442, 445A, 445B, 445C, 450, 454, 541, 542, 545; six units selected from Art 342B, 343, 344A, 344B, 346, 440, 441, 442, 443, 445A, 445B, 445C, 446, 448, 450, 454, 540, 541, 543, 544, 545, 546, or any other art or art history course.

**Emphasis in Interior Design**  
(Major Code: 02031) (SIMS Code: 660565)

**Impacted Program.** The interior design emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the interior design emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

Art majors wishing to enter one of the Interior Design upper division courses (Art 451, 453, 552, 553) must receive, as a condition of junior level qualification, a *passing* evaluation of a portfolio of work submitted to the Interior Design Evaluation Committee. Any advance enrollment in the above-listed upper division courses will remain provisional until clearance of the portfolio review. Reviews are held prior to the beginning of the fall and spring semesters. See the School of Art, Design, and Art History office for specific information concerning current policies pertaining to the review, content of the portfolio, and the schedule to be observed.

**Preparation for the Major.** Art 100, 101, 102, 103, 148, 247, 248, 249, 250, 251, 258, 259. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (36 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in art to include Art 352, 451, 452, 453, 552, 553; three units selected from Art 323, 325, 340, 348, 436, 450, 547, 591; and six units of art history (Art 577 recommended).

**Emphasis in Multimedia**  
(Major Code: 06991) (SIMS Code: 660560)

**Impacted Program.** The multimedia emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the multimedia emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.75 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 240, 242, 258, 259; and six units of art electives, selected in consultation with an adviser, excluding Art 157. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (30 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in art to include Art 340 and 344A; six units of art history; three units selected from Art 342A, 346, 348; nine units selected from Art 342B, 344B, 407, 408, 440, 442, 445B, 446, 448, 540, 544, 545; six units of art electives (may include Professional Studies and Fine Arts 330 or Television, Film and New Media 565).

**Emphasis in Painting and Printmaking**  
(Major Code: 10021) (SIMS Code: 660573)

**Impacted Program.** The painting and printmaking emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the painting and printmaking emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 203, 258, 259, and six units selected from Art 204, 210, 216 or 240. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (27 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in art to include six units of art history, and 21 units selected in consultation with the adviser from Art 340, 344A, 346, 403, 404, 406, 407, 408, 410, 411, 416, 446, 500, 502, 503, 504, 506, 511.

**Emphasis in Sculpture**  
(Major Code: 10021) (SIMS Code: 660581)

**Impacted Program.** The sculpture emphasis is designated as an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the sculpture emphasis, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258, and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 216, 217, 258, 259; and three units selected from Art 203, 204, 231, or 240. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (27 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units to include Art 416 (six units), 516 (six units), 517; six units of art history; and six units selected from Art 323, 326, 331, 344A, 346, 403, 404, 407, 446, 500, 591.

## Art Major

**In Partial Preparation for the Single Subject Teaching Credential With the B.A. Degree in Applied Arts and Sciences**  
(Major Code: 10021) (SIMS Code: 660505)

Students who have declared this major prior to July 1, 2006, and have taken any of the courses listed below may follow this program providing it is completed by September 1, 2010. All other students may choose to complete this program of study, but must also take and pass the CSET examination.

Contact the School of Art, Design, and Art History undergraduate adviser for additional information.

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education.

This major may be used by students in teacher education as an undergraduate major for the B.A. degree in applied arts and sciences.

**Impacted Program.** The art major in preparation for the single subject teaching credential is an impacted program and specific criteria, which include a portion of the Preparation for the Major, are used to admit students. To be admitted to the art major in preparation for the single subject teaching credential, students must meet the following criteria:

- Complete with a grade of C or higher: Art 100, 101, 102, 103, 258 and 259. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher;
- Students not meeting the minimum GPA may petition for special consideration.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Art 100, 101, 102, 103, 204, 220, 240, 258, 259; Psychology 101; and either Child and Family Development 270 or Psychology 230. Art 100, 101, 102, 103, 258, and 259 must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). (33 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units to include Art 385; Art 340 or 407; Art 559; three units of art history selected from Art 561, 562, 564, 565, 569, 570; and 18 units selected from two sequences below:

- Sequence 1. Art 343, 344A, 443, 448, 540, 543, 544.
- Sequence 2. Art 346, 403, 404, 406, 407, 411, 500.
- Sequence 3. Art 325, 326, 331, 416, 425, 435, 436, 516.

## Art Minor

(Minor Code: 10021) (SIMS Code: 660501)

The minor in art consists of a minimum of 21 units in art, to include Art 100 and 101 and 12 units of upper division courses in art taken from art history, applied design, interior design, multimedia, painting, printmaking, and sculpture.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Art History Minor

(Minor Code: 10031) (SIMS Code: 660518)

The minor in art history includes a minimum of 21 units in art distributed as follows: Nine units to include Art 258, 259, 263. Twelve units selected from Art 371 and 557 through 577, and with consent of instructor selected Art 596 courses with art history content.

Courses in the minor may not be used toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ART)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### ART 100. Drawing I (3)

Six hours.

The ordering of two-dimensional space through drawing.

#### ART 101. Design I (3)

Six hours.

Fundamentals of space and color design. Basic course used as a prerequisite for advanced work.

#### ART 102. Drawing II (3)

Six hours.

Prerequisite: Art 100.

Line and value in drawing; emphasis on structure and proportion, sketching, gesture, and contour drawing.

#### ART 103. Design II (3)

Six hours.

Prerequisite: Art 101.

Introduction and investigation of design and theory, and practice in three dimensions.

#### ART 148. Visual Presentation I (3)

Six hours.

Prerequisite: Art 100.

Design drawing techniques including interior presentation drawings, interior detailing, architectural drafting, and lettering. Tools and materials used in the design professions.

#### ART 157. Introduction to Art (3) [GE]

An illustrated lecture course dealing with the meaning of art derived from an investigation of the principles of art. Designed to increase the understanding and appreciation of art.

#### ART 203. Life Drawing I (3)

Six hours.

Prerequisite: Art 102.

Drawing from the nude model. Maximum credit six units.

#### ART 204. Painting I (3)

Six hours.

Prerequisites: Art 101 and 102.

Pictorial composition and techniques of painting.

#### ART 210. Printmaking I (3)

Six hours.

Prerequisites: Art 101 and 102.

Introduction and exploration of basic printmaking media. Emphasis on aesthetic and technical processes in intaglio, lithography, relief and serigraphy.



## ART 216. Sculpture I (3)

Six hours.  
Prerequisite: Art 103.  
Introduction and experimentation of basic sculpture ideas, methods, and materials. Maximum credit six units.

## ART 217. Figurative Sculpture I (3)

Six hours.  
Prerequisite: Art 103.  
Creative experimentation with sculptural forms from the human figure.

## ART 220. Design in Crafts (3)

Six hours.  
Prerequisite: Art 103.  
Visual and structural form in crafts.

## ART 231. Jewelry and Metals IA (3)

Six hours.  
Prerequisite: Art 220.  
Design and construction of jewelry and small objects in non-ferrous metals. Basic fabrication, forming, and surface embellishment techniques for metal. Not open to students with credit in Art 331.

## ART 240. Fundamentals of Digital Media (3)

Six hours.  
Prerequisites: Grade of C (2.0) or better in Art 100 and 101.  
Principles of digital media used in visual communication.

## ART 241. Graphic Design I (3)

Six hours.  
Prerequisites: Grade of C (2.0) or better in Art 100, 101, 102, 103, 258, 259, and major standing. Concurrent registration in Art 339A. Computer proficiency required with working knowledge of vector graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.  
Principles of two-dimensional design applied to graphic form, including form/counter form, contrast, progression, and sequence.

## ART 242. Typography I (3)

Six hours.  
Prerequisites: Grade of C (2.0) or better in Art 100, 101, 102, 103, 258, 259, and major standing. Concurrent registration in Art 339A for graphic design majors. Concurrent registration in Art 240 for multimedia majors. Computer proficiency required with working knowledge of vector graphics and page layout software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.  
Fundamentals of typography including history, theory, and practice with emphasis on study of letterforms and type design; principles of two-dimensional design and hierarchy applied to basic typographic layout.

## ART 247. The House and Its Environment (3)

Architecture, interior design, landscape and city planning for forming the physical and aesthetic environment. Not open to students with credit in Art 347.

## ART 248. Visual Presentation II (3)

Six hours.  
Prerequisites: Art 102, 103, 148. **Proof of completion of prerequisites required:** Copy of transcript.  
Methods, materials, and tools of the professional environmental designer stressing art principles.

## ART 249. Visual Presentation III (3)

Six hours.  
Prerequisite: Art 248. **Proof of completion of prerequisite required:** Copy of transcript.  
Methods, materials, and tools of the professional environmental designer stressing art principles.

## ART 250. The Contemporary House (3)

Six hours.  
Prerequisite: Art 248. **Proof of completion of prerequisite required:** Copy of transcript.  
Elementary problems in neighborhood planning, house design, and landscaping.

## ART 251. Interior Design I (3)

Six hours.  
Prerequisites: Art 102 and 103. **Proof of completion of prerequisite required:** Copy of transcript.  
Elementary functional and aesthetic studies in interior space and form. Relationships of light, color, texture, shape and volume.

## ART 258. Introduction to Art History I (3) [GE]

Art development in painting, sculpture, architecture, and handicrafts from the dawn of art to the Renaissance. Illustrated.

## ART 259. Introduction to Art History II (3) [GE]

The period from the Renaissance through the modern school treated in the same manner as in Art 258.

## ART 263. Asian Art (3)

Arts of Asian countries including China, India, and Japan from pre-historic to pre-modern times. Role of religious belief and state ideology in shaping visual characteristics of regional cultures in Asia.

## ART 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

## UPPER DIVISION COURSES (Intended for Undergraduates)

## ART 323. Furniture Design and Woodworking I (3)

Six hours.  
Prerequisite: Art 103. Recommended: Art 148.  
Principles of design through the making of furniture. Basic techniques in woodworking and joinery.

## ART 325. Ceramics IA: Throwing (3)

Six hours.  
Prerequisites: Art 102 and 103. Recommended: Art 220.  
Basic methods of forming, decorating, glazing, and firing pottery forms with emphasis on the use of the potter's wheel.

## ART 326. Ceramics IB: Handbuilt (3)

Six hours.  
Prerequisites: Art 102 and 220.  
Design and construction of handbuilt ceramic forms and application of glaze for surface enhancement. Traditional approaches and contemporary issues.

## ART 331. Jewelry and Metals IB (3)

Six hours.  
Prerequisites: Art 102 and 103. Recommended: Art 220.  
Creative design and construction in metal of jewelry and small objects. Techniques in three-dimensional forming and constructions in nonferrous metals. Not open to students with credit in Art 231.

## ART 339A. Software for Graphic Design I (1)

Two hours.  
Prerequisites: Art 102, 103, premajor or major standing. Concurrent registration in Art 241 and 242.  
Vector, page layout, and image editing software consistent with current industry standards within graphic design practice.

## ART 339B. Software for Graphic Design II (1)

Two hours.  
Prerequisite: Art 339A.  
Web design software consistent with current industry standards within graphic design practice.

**ART 339C. Software for Graphic Design III (1)**

Two hours.

Prerequisite: Art 339A.

Motion graphics software consistent with current industry standards within graphic design practice.

**ART 340. Photographic Imagery (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 100, 101, 102, 103; Art 241 and 339A for graphic design majors. **Proof of completion of prerequisites required:** Copy of transcript.

Visual communication and expression using photographic media including photomechanical and digital processes and theory of color and light.

**ART 341. Graphic Design II (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 241, 242, 339A, 345. Computer proficiency required with working knowledge of vector graphics and page layout software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Graphic form with emphasis on visual translation techniques, visual metaphor, signs and symbols.

**ART 342A. Typography II (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 241, 242, 339A, 345. Computer proficiency required with working knowledge of vector graphics and page layout software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Typographic layout and page systems including theories of visual organization, proportion, and grids with emphasis on expression and communication.

**ART 342B. Letterpress (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 210 or 242.

History, technology, and process of relief printing using moveable type and photopolymer plates to create individual and collaborative page designs that integrate image and text. Maximum credit six units.

**ART 343. Drawing and Illustration for Graphic Design I (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 203 or 204. **Proof of completion of prerequisite required:** Copy of transcript.

Visual notation, sketching, representational drawing, and visual translation related to graphic design.

**ART 344A. Design for the Internet I (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 240 or 340.

Creative and practical applications of interactive visual communication using digital media fundamental to creation and design of interface, graphics, illustrations, photography, animation, sound, video, and interactive navigation for presentation on the Internet. (Formerly numbered Art 344.)

**ART 344B. Design for the Internet II (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 344A.

Intermediate design and development for World Wide Web. Topics include animation, gaming, advanced scripting and Internet art, and experimental applications.

**ART 345. History of Graphic Design (3)**

Prerequisites: Grade of C (2.0) or better in Art 258 and 259. **Proof of completion of prerequisites required:** Copy of transcript.

Evolution of graphic communication from prehistory through post-modern design and the digital revolution. (Formerly numbered Art 245.)

**ART 346. The Art of the Book I (3)**

Six hours.

Prerequisite: Any 300- or 400-level art or design course.

Terminology, tools, materials, and reproduction processes related to the making of books; historical and contemporary book structures; and development of content in the form of image and text. Maximum credit six units. Maximum combined credit of 15 units for Art 346, 446, 546.

**ART 347. The House and Its Environment (3)**

Architecture, interior design, landscape, and city planning for forming the physical and aesthetic environment, its simplicities and complexities. Not open to students with credit in Art 247.

**ART 348. Three Dimensional Digital Media (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 148, or 240, or 241, or 242, or 340.

Design communication utilizing digital media as it relates to three-dimensional objects and spatial environments.

**ART 352. Methods and Materials of Interior Design (3)**

Prerequisite: Art 451.

Topics in successful professional practice including codes, legal liabilities, contractual agreements, project management. Lectures in field settings illustrate methods and materials of installation and explore environmental systems.

**ART 357. World Art in Contemporary Life (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

World art and technology from ancient to post modern era and their relationship to contemporary culture and life. Gallery visits required.

**ART 371. Medieval Art (3)**

Prerequisite: Art 258.

Development of painting, sculpture, and architecture from time of Constantine through Gothic period.

**ART 385. Art Education History and Practice (3)**

Six hours.

Prerequisites: Art 102, 103, 258, 259.

History and theory of art education. Role of art in child and adolescent development, art heritage, diversity and equity in art education and teaching methodologies. For art majors interested in pursuing the single subject teaching credential.

**ART 387. Art for Elementary School Teacher (3)**

Six hours.

Prerequisite: Art 101, or upper division standing and consent of instructor.

A design-crafts course that explores in depth materials and processes primarily used by the elementary school teacher.

**ART 403. Life Drawing II (3)**

Six hours.

Prerequisite: Art 203.

Drawing the nude model. Maximum credit six units.

**ART 404. Painting II (3)**

Six hours.

Prerequisite: Art 204.

Concepts that enhance basic painting principles and a broad range of painting issues. Maximum credit six units.

**ART 406. Experimental Processes in Painting and Drawing (3)**

Six hours.

Prerequisites: Art 203 and 204.

Structure in picture making.

**ART 407. Fine Art Photography I (3)**

Six hours.

Prerequisites: Art 102, 103, and six units of studio art.

Black and white photography and darkroom techniques combined with independent research in contemporary art and photography. Criticism in contemporary context. Maximum credit six units.

**ART 408. Fine Art Photography II (3)**

Six hours.

Prerequisite: Art 407 or portfolio review.

Color photography as a fine art medium, including color theory, transparency and negative film exposure controls, darkroom techniques, and electronic flash and lighting techniques for color photography. Maximum credit six units.

**ART 410. Printmaking IIA- Intaglio (3)**

Six hours.

Prerequisites: Art 203 and 210.

Creative intaglio-etching, drypoint, aquatint, engraving and variations. Emphasis on fine print quality and technical development. Maximum credit six units.

**ART 411. Printmaking IIB- Lithography (3)**

Six hours.

Prerequisites: Art 101 and 203.

Creative lithography-stone and plate planographic process. Emphasis on fine print quality and technical development. Maximum credit six units.

**ART 416. Sculpture II (3)**

Six hours.

Prerequisite: Art 216.

Individual investigation into sculpture ideas, methods and materials, including clay, metal, plastics, paper or wood. Individual development in sculpture. Maximum credit six units.

**ART 423. Furniture Design and Woodworking II (3)**

Six hours.

Prerequisite: Art 323.

Intermediate individual design: Exploration of materials, processes and function. Specialized techniques focusing on case construction, making of drawers and doors for furniture. Maximum credit six units.

**ART 425. Ceramics II (3)**

Six hours.

Prerequisites: Art 325 and 326.

Continuation of Art 325. Further development of knowledge, skills and philosophy of ceramics through individual creative projects.

**ART 431. Jewelry and Metals IIA - Jewelry (3)**

Six hours.

Prerequisite: Art 231 or 331.

Further development of design and metalworking skills specifically related to jewelry. Specialized techniques such as casting, chasing, stone setting, die forming and enameling. Maximum credit six units.

**ART 432. Jewelry and Metals IIB - Metalsmithing (3)**

Six hours.

Prerequisite: Art 231 or 331.

Creative design and techniques in metalsmithing. Maximum credit six units.

**ART 435. Fiber Construction I (3)**

Six hours.

Prerequisites: Art 102 and 103. Recommended: Art 220.

Textile structures with emphasis on nonloom techniques. Maximum credit six units.

**ART 436. Fiber Surface Design I (3)**

Six hours.

Prerequisites: Art 102 and 103. Recommended: Art 220.

Application of design for the textile surface, using a broad variety of media and processes appropriate for both the individual designer and commercial reproduction. Media include stencil, block, silk-screen, batik, and tie-dye. Maximum credit six units.

**ART 440. Intermediate Photographic Imagery (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 340, or 240 and 407.

Visual and creative expression using photographic media with emphasis on refining technical skills, including lighting. Maximum credit six units.

**ART 441. Graphic Design III (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, 340, 341, 342A, 345. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Analysis and translation of complex information into visual communication systems.

**ART 442. Typography III (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, 340, 341, 342A, 345. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Typographic problem solving including more complex text materials and type with image.

**ART 443. Drawing and Illustration for Graphic Design II (3)**

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 343. **Proof of completion of prerequisite required:** Copy of transcript.

Drawing and illustration methods, materials, tools, and processes as they relate to graphic design.

**ART 445A. Professional Practice in Graphic Design (1) Cr/NC**

Two hours.

Prerequisites: Grade of C or better in Art 340, 341, 342A, and consent of instructor.

Evolving role of graphic designer in contemporary design practice, standards of professional conduct, and business practices.

**ART 445B. Graphic Design Internship (3) Cr/NC**

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, and two of the following: Art 441, 442, 450, 454, or 541, and portfolio review. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards.

**Proof of completion of prerequisites required:** Copy of transcript.

Field experience with practicing professionals. Maximum credit six units.

**ART 445C. Senior Portfolio/Exhibition (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, and two of the following: Art 441, 442, 450, 454, or 541 for graphic design majors, Art 344B, 448, 540, or 544 for multimedia majors; and portfolio review. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Planning, strategy, and development of a comprehensive body of design work to be professionally presented in a portfolio and/or exhibition format.

**ART 446. The Art of the Book II (3)**

Six hours.

Prerequisite: Art 346.

Creative research focused on concept, context, and form as they relate to communication and personal or collaborative expression within the context of the book. Maximum credit six units. Maximum combined credit of 15 units for Art 346, 446, 546.

**ART 448. Sequential Media (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 340, or 341, or 344A, or 348.

Study and presentation of sequential imagery and motion graphics. Maximum credit six units.

**ART 450. Packaging Design (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, 340, 341, 342A, 345. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards.

**Proof of completion of prerequisites required:** Copy of transcript.

Principles and theories of design: branding, typography, illustration, and photography applied to three-dimensional form within a specified social and cultural context with emphasis on strategy and concept; structure, functionality and materials; and modular systems.

**ART 451. Interior Design II (3)**

Six hours.

Prerequisites: Art 249, 250, 251, and completion of portfolio requirement. **Proof of completion of prerequisites required:** Copy of transcript.

Survey, analysis and conceptual design methods of residential interiors stressing materials, equipment, components and structural detailing. Maximum credit six units.

**ART 452. Interior Design Practicum (3) Cr/NC**

Nine hours of laboratory.

Prerequisite: Art 453. **Proof of completion of prerequisite required:** Copy of transcript.

Field experience with local professional interior designers in client relationships, business procedures, supervision of subcontracted work and installation, and execution of contracts. Maximum credit six units.

**ART 453. Interior Design III (3)**

Six hours.

Prerequisites: Art 451 and completion of portfolio requirement.

**Proof of completion of prerequisites required:** Copy of transcript.

Materials and techniques of nonresidential space planning. Estimating, specification writing, contractual agreements, record keeping, budgets, and project supervision. Required field trips to professional offices, studios, and showrooms.

**ART 454. Environmental Graphic Design (3)**

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, 340, 341, 342A, 345. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Identification and communication systems applied to environmental solutions. Landmark and wayfinding signage systems in interior, exterior, and architectural environments in collaboration with interior design students.

**ART 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**ART 498. Senior Project (3)**

Nine hours for 498A; three hours for 498B.

Prerequisite: Consent of instructor.

Investigation in art. Formal presentation of project.

**A.** Studio project

**B.** Art history project

**ART 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

**ART 500. Advanced Drawing (3)**

Six hours.

Prerequisites: One year of 400-level studio art coursework and consent of instructor.

Drawing emphasizing qualitative aspect of visual subject matter. Maximum credit six units.

**ART 502. Inter-Media (1-3)**

Two hours for each unit of credit.

Prerequisites: Art 102 and 103.

Process and materials in plane and space. Maximum credit six units. M.F.A. students: Maximum credit six units applicable to the M.A. degree; nine units applicable to the M.F.A. degree.

**ART 503. Life Drawing and Painting III (3)**

Six hours.

Prerequisites: Art 204 and 403.

Drawing and painting from nude and costumed models. Maximum credit six units.

**ART 504. Painting III (3)**

Six hours.

Prerequisite: Six units of Art 404.

Approaches to contemporary concepts in painting. Maximum credit six units.

**ART 506. Contemporary Issues for Studio Artists (3)**

Prerequisites: Upper division or graduate standing in art and consent of instructor.

Theory, practice, and philosophy of being an artist. Independent research on current art concepts and issues. Material will encompass the past five years. Field trips.

**ART 511. Printmaking III-Lithography (3)**

Six hours.

Prerequisite: Art 411.

Advanced creative lithography printmaking in color. Emphasis on fine print quality in color process and color technology unique to this medium. Maximum credit six units.

**ART 516. Sculpture III (3)**

Six hours.

Prerequisite: Art 416.

Individual investigations into sculpture ideas, methods, and materials. Individual development in sculpture. Materials may include clay, metal, plastics, paper or wood. Maximum credit six units.

**ART 517. Figurative Sculpture II (3)**

Six hours.

Prerequisites: Art 216 and 217.

Figurative study with emphasis on individual exploration. Maximum credit six units.

**ART 523. Furniture Design and Woodworking III (3)**

Six hours.

Prerequisite: Six units of Art 423.

Advanced individual design: Exploration of materials, process and function. Continued focus on development of personal design statements and specialized techniques. Maximum credit six units.

**ART 525. Ceramics III (3)**

Six hours.

Prerequisite: Art 425.

Study of ceramic design through creative projects of clay forms. Maximum credit six units.

**ART 526. Clay and Glaze Technology in Ceramic Design (3)**

Six hours.

Prerequisite: Art 425.

Experimentation and application of research concerning the use of ceramic materials and techniques as an integral part of the design process. Maximum credit six units.

**ART 531. Jewelry and Metals IIIA-Jewelry (3)**

Six hours.

Prerequisite: Art 431.

Problems involving fabrication processes already studied in order to increase technical competence while exploring personal design statements; specialized techniques such as photoetching and electroforming. Maximum credit six units.

**ART 532. Jewelry and Metals IIIB-Metalsmithing (3)**

Six hours.

Prerequisite: Art 432.

Advanced problems involving metal processes to increase technical competence while exploring personal design statements. Maximum credit six units.

## ART 535. Fiber Construction II (3)

Six hours.

Prerequisite: Art 435.

Advanced study in nonloom techniques. Techniques to include: looping, braiding, plaiting, and special fabricating techniques. Experimentation with new man-made fibers and with synthetic commercial dyes. Maximum credit six units.

## ART 536. Fiber Surface Design II (3)

Six hours.

Prerequisite: Art 436.

Application of design for the textile surface, appropriate for both the individual designer and commercial reproduction. Maximum credit six units.

## ART 540. Advanced Photographic Imagery (3)

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 340, or Art 240 and 407.

Visual communication and expression using photographic media, including photomechanical and digital processes. Preparation for multimedia and digital prepress. Maximum credit six units with consent of instructor.

## ART 541. Graphic Design IV (3)

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, and two of the following: Art 441, 442, 450, 454. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Strategy, planning, and problem solving related to visual communication systems with emphasis on social and cultural context.

## ART 542. Typography IV (3)

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, 442. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisite required:** Copy of transcript.

Individual creative and scholarly research in typography, conceptual and contextual exploration, typographic experimentation based on theory, strategy, and problem solving. Maximum credit six units.

## ART 543. Drawing and Illustration for Graphic Design III (3)

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 443. **Proof of completion of prerequisite required:** Copy of transcript.

Strategy and problem solving of professional illustration as related to graphic design; individual conceptual and contextual exploration. Maximum credit six units.

## ART 544. Emerging Technologies in Multimedia (3)

Six hours.

Prerequisite: Grade of C (2.0) or better in Art 344A, or 348, or 440, or 448, or 540.

Advanced design studies in emerging electronic communications, including cyberstudios, Internet and multimedia. Exploration in collaborative, interdisciplinary, and international projects. Maximum credit six units with consent of instructor.

## ART 545. Design Studio (3)

Six hours.

Prerequisites: Grade of C (2.0) or better in Art 339A, 339B, 339C, and two of the following: Art 441, 442, 450, 454, 541, and portfolio review. Computer proficiency required with working knowledge of vector graphics, page layout, digital image editing, web design, and motion graphics software consistent with current industry standards. **Proof of completion of prerequisites required:** Copy of transcript.

Solutions to design problems for clients in a studio environment including business procedures and production management. Development of a professional level portfolio. Maximum credit six units with consent of instructor.

## ART 546. The Art of the Book III (3)

Prerequisite: Art 446.

Design and creation of limited edition artist books made with mixed media and hand printing techniques such as letterpress, intaglio, woodcut, lithography, and photo. Maximum credit six units. Maximum combined credit of 15 units for Art 346, 446, 546.

## ART 547. Environmental Theory (3)

Prerequisite: Art 247 or 347.

Survey of alternative solutions to the problem of design of the physical environment.

## ART 552. Interior Design IV (3)

Six hours.

Prerequisites: Art 453 and completion of portfolio requirement.

**Proof of completion of prerequisites required:** Copy of transcript.

Projects in architectural interiors involving the use and perception of enclosed spaces. Space planning systems analysis. Maximum credit six units.

## ART 553. Interior Design V (3)

Six hours.

Prerequisite: Art 552. **Proof of completion of prerequisite required:** Copy of transcript.

Projects in interiors involving space planning analysis, specification writing, materials selection and furnishing design appropriate to commercial needs. Maximum credit six units.

## ART 557. Nineteenth Century European Art (3)

Prerequisite: Art 259.

Development of painting, sculpture, and architecture from the French Revolution to 1900.

## ART 558. Twentieth Century European Art to 1945 (3)

Prerequisite: Art 259.

Major developments in the visual arts and art criticism from 1880 to 1945 (Post-Impressionism through Surrealism).

## ART 559. Twentieth Century European and American Art Since 1945 (3)

Prerequisite: Art 259. Recommended: Art 558.

Major developments in the visual arts and art criticism since 1945.

## ART 560. History of American Art (3)

Prerequisite: Art 259.

Development of painting, sculpture, and architecture from the Native American art and Colonial Period to the present.

## ART 561. Mesoamerican Art: Olmecs to Aztecs (3)

Prerequisite: Art 259.

Art and architecture of Mesoamerica from Olmecs to Aztecs. Role of art as transmitter of cultural information and world view. Continuities and ideologies that characterize Mesoamerican civilizations. Field trips required.

## ART 562. Art of Latin America (3)

Prerequisite: Art 259.

Art and architecture of Latin America from the colonial period to the present. Field trips included.

## ART 563. Modern Mexican Art (3)

Prerequisites: Art 258 and 259.

Mexican art from 1900 to present. Emphasis on images created after Mexican Revolution (1910-1920) in murals, painting, architecture, prints, photography, film, conceptual art. Construction of national identity, debate between national/international currents in art and role of public art. Field trip.

## ART 564. Art of China (3)

Prerequisite: Art 258 or 259 or 263.

History of Chinese art from prehistoric times through the Ching Dynasty.

## ART 565. Art of Japan (3)

Prerequisite: Art 258 or 259 or 263.

History of Japanese art from prehistoric times to the Meiji Restoration.

**ART 566. History of Japanese Painting Tenth to Twentieth Centuries (3)**

Prerequisite: Art 258 or 259 or 263.

History of Japanese painting from tenth to twentieth centuries, emphasizing art from three social groups: aristocrats, warriors, and merchants. Analysis of motifs, iconography, and styles of art schools developed during these periods, reinforced by social history.

**ART 568. Art of Crete, Mycenae, Greece, and Rome (3)**

Prerequisite: Art 258.

Development of painting, sculpture, architecture, and crafts from prehistoric times to the fifth century A.D.

**ART 569. Art of Sub-Saharan Africa (3)**

Prerequisite: Art 258 or 259 or 263.

Form and content of the art of Sub-Saharan Africa viewed within its cultural context.

**ART 570. Art of the Pacific Islands (3)**

Prerequisite: Art 258 or 259 or 263.

Visual arts of the Pacific Islands; recognition of styles and object types and their historical, social, and cultural contexts.

**ART 571A. Modern Art of Latin America (3)**

Prerequisites: Art 258 and 259.

Historical, political, and social contexts of leading artists and artistic movements in Latin America from late-nineteenth to mid-twentieth century. Field trips required.

**ART 571B. Contemporary Art of Latin America (3)**

Prerequisites: Art 258 and 259.

Work created by leading contemporary Latin American artists from 1960 to present. Field trips required. (Formerly numbered Art 571.)

**ART 573A. Italian Art of the Fourteenth and Fifteenth Centuries (3)**

Prerequisite: Art 259.

Italian arts, architecture, artists, and patrons from fourteenth century Proto-Renaissance period through fifteenth century revival of classical humanism in city states of Florence, Siena, Bologna, Mantua, and Padua.

**ART 573B. Italian Art in the Sixteenth Century (3)**

Prerequisite: Art 259.

High Renaissance in Florence and Rome, followed by disintegration of classical principles and domination of Mannerism in Central and Northern Italy and history of arts of Venice in sixteenth century.

**ART 574. Northern Renaissance Art (3)**

Prerequisite: Art 259.

Painting, sculpture, architecture, printmaking, and tapestries in Northern Europe, 1350-1575. Historical context of art and artists pertaining to gender, popular culture, courtly traditions, and changing role of artists in the Reformation.

**ART 575. European Art from 1600 to 1750 (3)**

Prerequisite: Art 259.

Architecture, sculpture, and painting of the Baroque and Rococo periods.

**ART 577. History of Architecture (3)**

Prerequisites: Art 258 and 259.

Architecture from primitive times to the present.

**ART 578. Seminar in History of Museums and Exhibitions (3)**

Prerequisite: At least one course selected from Art 557, 558, 559, or 560.

Origin, history, and function of the museum. Theories of collecting, museums, and construction of knowledge. Role of elites in formation and construction of museums, controversial exhibitions, exhibitionary practices, and globalism.

**ART 591. Gallery Exhibition Design (3)**

Six hours.

Prerequisite: Fifteen units of art.

Fundamental art elements and principles applied to the theories and techniques of gallery exhibition design.

**ART 593. History and Methodology of Art History (3)**

Prerequisite: Twelve units of upper division art history.

Readings and discussions on the historiography of art and on modern methodologies for art historical research.

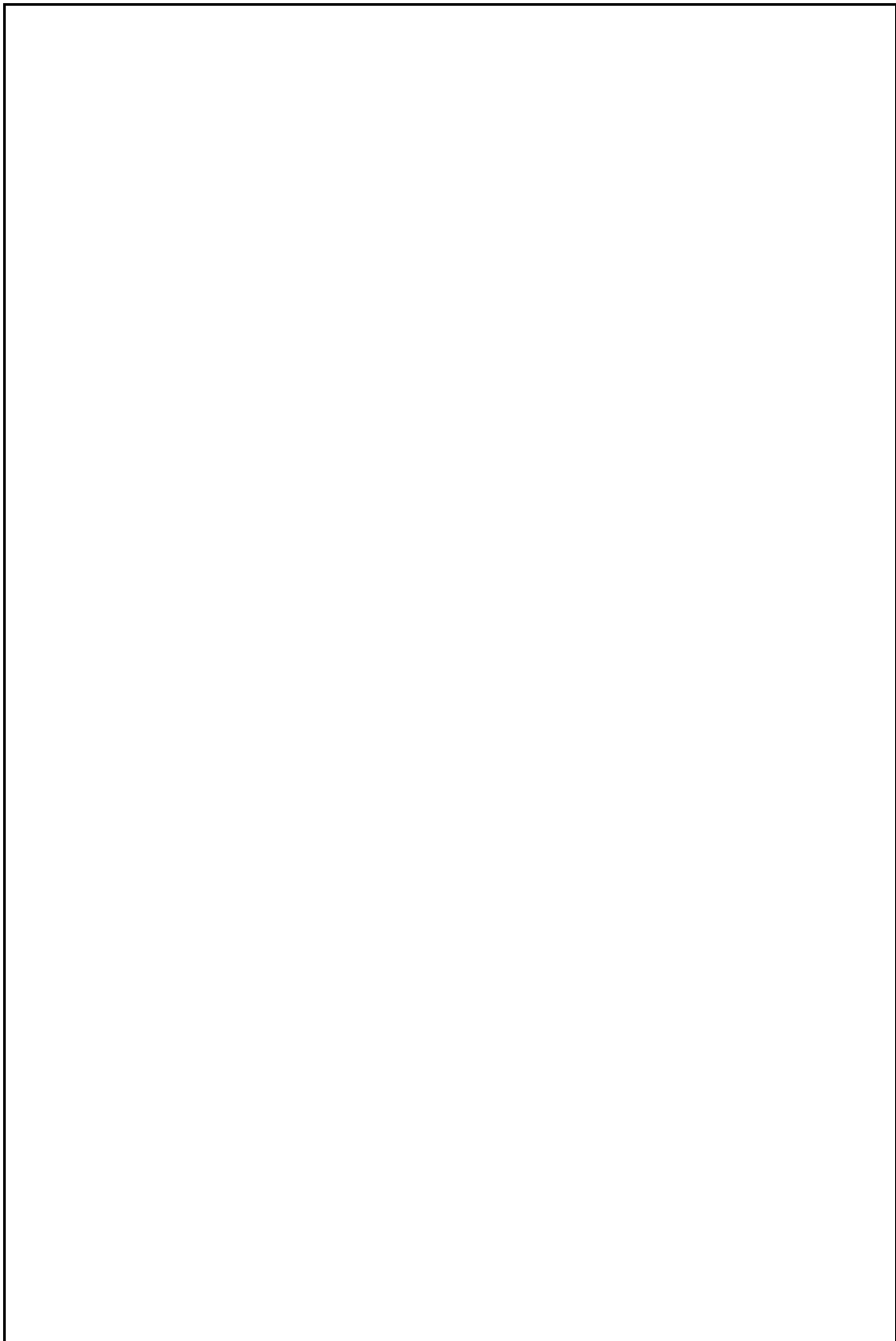
**ART 596. Advanced Studies in Art and Art History (1-4)**

Prerequisites: Twelve units of art and art history and consent of instructor.

Advanced topics in art and art history. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.



# Asian Studies

In the College of Arts and Letters

**OFFICE:** Arts and Letters 473

**TELEPHONE:** 619-594-0931 / **FAX:** 619-594-0257

**E-MAIL:** [mcastane@mail.sdsu.edu](mailto:mcastane@mail.sdsu.edu)

**<http://asiapacific.sdsu.edu>**

## Faculty

Asian and Pacific Studies is administered by the Asian and Pacific Studies Committee. Faculty assigned to teach courses in Asian and Pacific studies are drawn from Anthropology, Art, Design, and Art History, Chinese, Economics, English and Comparative Literature, Geography, History, Japanese, Journalism and Media Studies, Linguistics and Asian/Middle Eastern Languages, Philosophy, Political Science, Public Health, Religious Studies, Sociology, Speech, Language, and Hearing Sciences, Women's Studies.

*Emeritus:* Cai, Madhavan, Weiner

*Director:* Guang

*Undergraduate Adviser:* Guang

*Committee:* Abalatin (History), An (Geography), Chin (English and Comparative Literature), Choi (Linguistics), Edgerton-Tarpley (History), Ghosh (Women's Studies), Guang (Political Science), Gupta (Political Science), Hansen (Religious Studies), Higurashi (Japanese), Hua (Women's Studies), Johnson (Art, Design, and Art History), Kitajima (Japanese), Li (Social Work), Pang (Teacher Education), Riley (Anthropology), Samraj (Linguistics), Timalina (Religious Studies), Tsou (Geography), Varadarajan (Political Science), Wawrytko (Philosophy), Wong (Sociology and Dean, College of Arts and Letters), Wu (Linguistics and Asian/Middle Eastern Languages), Yu (Public Health), Zhang (Chinese), Zhong (Journalism and Media Studies).

## Offered by Asian and Pacific Studies

Master of Arts degree in Asian studies.

Major in Asian studies with the B.A. degree in liberal arts and sciences.

Emphasis in Chinese studies and language.

Minor in Asian studies.

## The Major

The importance of the immense and varied regions of Asian and the Pacific Rim are reflected in the rich culture and history of Asian people, Asian contributions to the world's literature and art, religion and philosophy, as well as contemporary international relations and economics.

The major in Asian studies is multidisciplinary. Students can enroll in classes from a wide range of departments and programs, such as anthropology, art, Chinese, comparative literature, economics, history, Japanese, philosophy, political science, religious studies, sociology, and women's studies. Because the program draws its faculty from multiple programs and departments on the SDSU campus, the major is able to provide resources for understanding East Asia, South Asia, Southeast Asia, the Pacific Rim, the relation of these peoples and cultures to North America, and Asian American diaspora communities. Areas of special interest may be pursued in depth.

The major provides students with the background for careers that require an understanding of Asia, whether in academic, business, government, or community and social services. Students in the major develop an understanding of cultural heritage, societies, and languages, as well as the social, political, and environmental issues of the Asian and Pacific regions. Non-majors who wish to increase their understanding about Asian and Pacific peoples and cultures will find courses available in Asian Studies.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Asian Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 03011) (SIMS Code: 111101)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in Asian studies courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Asian Studies 100, 101. (6 units)

**Language Requirement.** Competency (equivalent to that attained through three semesters or five quarters of college study) in one Asian language, unless specifically waived by the undergraduate adviser. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in Asian Studies. Courses from other departments acceptable for the Asian Studies major include: Anthropology 450<sup>\*</sup>, Art 564<sup>\*</sup>, 565<sup>\*</sup>, 566<sup>\*</sup>, Chinese 451<sup>\*</sup>, 496, 499; Comparative Literature 451, 455<sup>\*</sup>, 530<sup>\*</sup>; History 420, 421, 422, 543, 563, 564, 566, 567, 570; Japanese 421<sup>\*</sup>, 496, 499; Philosophy 351; Political Science 362, 575<sup>\*</sup>; Religious Studies 338, 339, 345, 581<sup>\*</sup>, 582<sup>\*</sup>, 583<sup>\*</sup>, 596<sup>\*</sup>; Sociology 555<sup>\*</sup>; Women's Studies 331.

Other Asian-content courses may be applied to the major with written approval of the undergraduate adviser.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the Asian Studies undergraduate adviser and filed with the Office of Advising and Evaluations.

<sup>\*</sup>Acceptable when of relevant content.

<sup>\*</sup>Indicates course with prerequisites not included in requirements listed above.

## Emphasis in Chinese Studies and Language

Close to one quarter of humanity lives in China, as has been the case for most of human history. Two of the world's major religions originated in China, as did key technologies ranging from paper and porcelain manufacturing to gunpowder and the magnetic compass. China's literature, art, poetry, and love of history are also world famous. In the 21st century, China's economic growth and increasing political clout play a crucial role in world affairs. An increasing number of Americans are discovering the importance of learning about and engaging with China and Chinese diaspora communities. The Emphasis in Chinese Studies and Language seeks to provide student with facility in the Chinese language and with a broad understanding of Chinese philosophy, religion, art, history, economics, politics, and geography.

Students selecting this emphasis may choose either Track (a) Chinese Studies or Track (b) Chinese Language.



**Preparation for the Major.** Asian Studies 100, 101, 150; Chinese 101, 102, 201, and 202. (29 units)

**Language Requirement.** The language requirement for graduation is automatically fulfilled by completing coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Study Abroad Requirement.** Capstone Experience (3 units). Students are required to fulfill the capstone requirement for the emphasis by study abroad for one semester on an SDSU pre-approved program in mainland China, Taiwan, Hong Kong, or Macao.

**Track (a): Chinese Studies**  
(SIMS Code: 111103)

**Additional Preparation for the Major.** One course selected from Anthropology 102, Geography 102, History 101, Linguistics 101, Political Science 103, or Religious Studies 101. (3 units)

**Major.** A minimum of 24 upper division units in Chinese studies to include History 567; Philosophy 351; three units selected from Art 564, Chinese 352, 353, Religious Studies 340; three units selected from Asian Studies 472, History 566, Political Science 362; and 12 additional units selected from courses not completed above or Asian Studies 499, 531, History 420, 421, 435\*, Journalism and Media Studies 450, Political Science 575, Religious Studies 338, 345.

**Track (b): Chinese Language**  
(SIMS Code: 111104)

**Major.** A minimum of 24 upper division units to include Chinese 301, 302, History 567, Philosophy 351; nine units selected from Chinese 431, 433, 434, 451; and three units selected from Chinese 352, 353, 496\*.

\*Acceptable when of relevant content.

**Asian Studies Minor**  
(SIMS Code: 111101)

The minor in Asian Studies consists of a minimum of 18 units to include Asian Studies 100, 101; and any combination of 12 units of upper division courses in Asian Studies, in Asian-content courses approved for the major, or upper division courses approved by the undergraduate adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Courses (ASIAN)**

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**LOWER DIVISION COURSES**

**ASIAN 100. State and Society in the Asia Pacific (3) [GE]**

Social, political, and economic foundations of Asia Pacific societies. Emphasis on diversity of Asian cultures, their relationship with each other and within the global community.

**ASIAN 101. Asian Thought and Cultures (3) [GE]**

Intellectual and cultural underpinnings of East, Southeast, South, and Central Asia, from ancient to present, by means of a comparative overview of philosophies, religions, literatures, architectural design, visual and performing arts, highlighting continuing influence of tradition in contemporary Asian societies.

**ASIAN 150. Understanding the Chinese World (3) [GE]**

Traditions of Chinese civilization and their contemporary transformations. Chinese civilization through introductory modules on geography, language, religions, philosophies, arts, history, and politics of Chinese world.

**ASIAN 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**ASIAN 300. Asia's Global Future (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Survey of contemporary Asia Pacific region and future prospects, politically, socially, and economically, as historically grounded in cultural and philosophical roots.

**ASIAN 303. Imperialism and Nationalism in the Asia Pacific (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Relationships between imperialism and nationalism; how nationalism has shaped China, Japan, Taiwan, and states of Southeast Asia. Mid-nineteenth century to present, with emphasis on first half of twentieth century.

**ASIAN 310. Contemporary Issues in Asian-American Communities (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Diverse processes, economic, political, and cultural, that have shaped formation and continued growth of diasporan communities in Asia Pacific region. Historical origins and contemporary status of diasporan communities.

**ASIAN 320. Asian Environmental Issues (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.B. Social and Behavioral Sciences required for nonmajors.

Major Asian environmental issues such as acid rain in China, dams on Mekong Delta, deforestation, and biodiversity conservation in Southeast Asia, population density in Bangladesh, overpopulation in China and India, and impending failure of Green Revolution.

**ASIAN 450. Socio-Cultural and Health Issues Among Asia Pacific Americans (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Asia Pacific American communities and social/cultural factors that influence individual and current community health, programs, legislation, and movements aimed at closing health gaps. Emphasis on Filipinos, Indo-Chinese, Chinese, Japanese, and Hawaiians.

**ASIAN 451. Modern Asian Literature (3) [GE]**  
(Same course as Comparative Literature 451)

Prerequisites: Asian Studies 100 or 101 or Comparative Literature 270A or 270B or English 220; and completion of the General Education requirement in Foundations of Learning II.C. Humanities required for nonmajors.

Asian literatures from modern period of China, Japan, India, Korea, Philippines, Vietnam, and others.

**ASIAN 456. Contemporary Asian Film (3) [GE]**

Two lectures and two hours of laboratory.

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C. Humanities required for nonmajors.

Contemporary Asian cinema focused on aesthetic and cinematic aspects of film. Methodologies of cultural criticism that elaborate relationships between media, representation, ethnicity, and national identity.

**ASIAN 458. Asian Traditions (3) [GE]**

Prerequisites: Six units of Asian-content courses or upper division standing, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Social, cultural, economic, and political traditions of South, South-east, and East Asia; how they functioned in theory and practice prior to twentieth century.

**ASIAN 459. Modern Asian Cultures (3) [GE]**

Prerequisites: Six units of Asian-content courses or upper division standing, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Interdisciplinary investigation of East and Southeast Asian countries and regions. Western colonialism to rise of Asia as an economic and political power; ethnicity in Asian politics and society; terrorism, leadership struggles, and secessionist movements in Indonesia, Burma, and the Philippines.

**ASIAN 460. Contemporary Issues in Filipino-American Communities (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

History of Philippines and Filipino immigration to US. Current issues in Filipino American communities to include labor, health, gender and sexuality, race relations, family culture and parenting, youth and the elderly, ethnic identity and empowerment.

**ASIAN 471. Business Environment in the Asia Pacific (3)**

Prerequisite: Consent of instructor for nonmajors.

Business environment in the Asia Pacific in terms of economic, political, legal, and cultural environment. Emphasis on major economies of the region, Japan, South Korea, and China.

**ASIAN 472. Economic Reforms in China (3)**

China's economic reforms and their impact on civil society and political development in contemporary China.

**ASIAN 496. Experimental Topics (1-4)**

Prerequisite: Six units of Asian-content courses.

Selected topics in Asian studies. May be repeated with new content. Maximum credit six units with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**ASIAN 499. Special Study (1-3)**

Prerequisites: At least six units of upper division work completed toward the major or minor in Asian studies and consent of the instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

**ASIAN 530. Media and Popular Culture in the Asia Pacific (3)**

Media and popular culture in Asia as instruments of social control, agencies of emancipation, expressions of global western power, and a means through which local identities are revitalized.

**ASIAN 531. Spiritual and Intellectual Traditions in the Contemporary Asia Pacific (3)**

Major thinkers or schools of Asian thought in modern times, reflecting East/West encounters and influences of global importance. Spiritual and intellectual aspects, cultural context, social/political/economic dimensions of the thinker or school and impact beyond the original culture.

**ASIAN 533. Minorities and Human Rights in the Asia Pacific (3)**

Human rights regimes and status of minorities in parts of Asia Pacific. Examines notion of "universal rights" within and between countries of the region.

**ASIAN 596. Selected Studies in Asian Cultures (3)**

Topics on various aspects of Asian studies. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

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# Astronomy

In the College of Sciences

**OFFICE:** Physics/Astronomy 210

**TELEPHONE:** 619-594-6182 / **FAX:** 619-594-1413

**E-MAIL:** [astro@sciences.sdsu.edu](mailto:astro@sciences.sdsu.edu)

**<http://mintaka.sdsu.edu>**

## Faculty

Emeritus: Angione, Daub, May, Nelson, Talbert, Young, A.

Chair: Shafter

Professors: Etzel (Director of Mt. Laguna Observatory),  
Sandquist, Shafter

Associate Professors: Orosz, Welsh

Assistant Professor: Leonard

Adjunct: Blanco, Ringwald, Young, A.T.

## Offered by the Department

Master of Science degree in astronomy.

Major in astronomy with the B.A. degree in liberal arts and sciences.

Major in astronomy with the B.S. degree in applied arts and sciences.

Minor in astronomy.

## The Major

Will the universe expand forever? Is there life on other planets? How are stars formed? These are the types of questions being addressed by students majoring in astronomy. Some areas of study in astronomy include the sun, the solar system, the stars, the Milky Way, the galaxies, and cosmology.

SDSU is the only institution in The California State University system that offers a complete academic program in astronomy. Students actively participate in all phases of observational astronomical research.

Joint faculty and student research activities are principally in the area of observational astrophysics. These include ongoing investigations of cosmology, eclipsing binary stars, low mass stars, planetary nebulae, galactic clusters, exterior galaxies, and extrasolar planets.

Much of this work is done at the Mount Laguna Observatory operated by the university. Modern astronomical detectors are employed that produce digital data, which lend themselves to computer analysis. Faculty and students also participate in space astrophysics projects. The department has excellent computer facilities at the observatory and on-campus.

Graduates with a bachelor's degree are trained in the application of the scientific method to the realm of astronomy and astrophysics, which requires a good foundation of understanding of physics and mathematics. Additionally, our students obtain useful skills in computing applications and in the use of modern electronic instrumentation. Many of our graduates find employment in industry, with astronomical observatories, or with government agencies or government contractors. These jobs support continuing research and include telescope operators, instrument makers, opticians, electronic technicians, programmers, image analysts, and laboratory technicians. Some of our graduates pursue advanced degrees.

Employment opportunities for astronomers who have advanced degrees include positions in colleges and universities, in national observatories and government laboratories, in planetariums, and in industry and private companies.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Astronomy Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 19111) (SIMS Code: 770501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in astronomy courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Astronomy 201; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L. (27 units)

Recommended: Chemistry 200, Computer Science 106 or 107.

**Language Requirement.** Competency (equivalent to that which is normally attained through three consecutive semesters of college study) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in astronomy and physics to include Astronomy 320, 350, 440, 450; Mathematics 342A; Physics 350, 354; and six units selected with the approval of the astronomy undergraduate adviser. Recommended: Physics 360, 400A, 406, 410.

## Astronomy Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 19111) (SIMS Code: 770502)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

**Preparation for the Major.** Astronomy 201; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L. (27 units)

Recommended: Chemistry 200, Computer Science 106 or 107.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units in astronomy and physics to include Astronomy 320, 350, 440, 450, 498A, 498B; Physics 350, 354, 360, 400A; and nine units selected from Physics 311, 317, 400B, 406, 410.

**Minor in Mathematics.** All candidates for the B.S. degree in astronomy must complete a minor in mathematics, to include Mathematics 342A, 342B, and three additional upper division units of electives in mathematics. Recommended: Mathematics 541; Statistics 551A.

## Astronomy Minor

**(SIMS Code: 770501)**

The minor in astronomy consists of a minimum of 15 units to include Astronomy 201 and 12 upper division units selected from Astronomy 301, 310, 320<sup>+</sup>, 350, 440<sup>+</sup>, 450<sup>+</sup>.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

<sup>+</sup>Additional prerequisites required.

## Courses (ASTR)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ASTR 101. Principles of Astronomy (3) [GE]

Discover the universe: planets, stars, galaxies, and our place in the cosmos; the Big Bang; how stars shine; comets, meteors, nebulae, the Milky Way; black holes and other exotic objects. Not open to students with credit in Astronomy 201.

#### ASTR 109. Astronomy Laboratory (1) [GE]

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Astronomy 101 or 201.

Demonstration of astronomical principles through observations with astronomical instruments and analysis of astronomical data. A nighttime field trip to Mount Laguna Observatory is required.

#### ASTR 201. Astronomy for Science Majors (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Directed toward students with a strong interest in science and mathematics. Understanding the night sky, introduction to the solar system, star formation and evolution, extrasolar planets, nature of the Milky Way and other galaxies, origin and fate of the universe. Students with credit in Astronomy 101 and 201 will receive a total of three units of credit toward graduation.

#### ASTR 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ASTR 301. Cosmology and Gravitational Collapse (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II. A.1. Physical Sciences.

Einstein's theory of general relativity applied to problems of gravitational collapse (stellar evolution, neutron stars, black holes) and cosmology (origin and evolution of the universe).

#### ASTR 310. Astrobiology and the Search for Extraterrestrial Life (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.1. Physical Sciences or II.A.2. Life Sciences.

Extraterrestrial life in our solar system and other planetary systems; formation of stars and planets; UFOs and SETI; origin and evolution of life on earth; life in extreme environments; cosmology and structure of universe.

#### ASTR 320. Solar System Astronomy (3)

Prerequisites: Astronomy 201 and Physics 197, 197L.

Structures of the planets; their surfaces, atmospheres, and satellite systems; asteroids, comets, and meteoroids. The Sun, its structure, energy production, and influence in the solar system. Life in the solar system.

#### ASTR 350. Astronomical Techniques (3)

Prerequisite: Astronomy 201.

Astronomical observation and optics. Data acquisition and reduction for modern astronomical instrumentation including photometry, direct imaging, and spectroscopy. Techniques for obtaining precise measurements and determining measurement uncertainties.

#### ASTR 440. Astrophysics of Stars (3)

Prerequisites: Credit or concurrent registration in Mathematics 342A and Physics 354.

Radiative transfer theory, atmospheres of stars and the emergent spectrum, interior structure and evolution of stars, stellar pulsations.

#### ASTR 450. Astrophysics of Star Systems (3)

Prerequisites: Credit or concurrent registration in Mathematics 342A and Physics 354.

Applications of physics in study of star clusters, the interstellar medium and galactic structure, galaxies, and cosmology.

#### ASTR 496. Experimental Topics (3)

Selected topics. May be repeated once with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### ASTR 498A. Senior Project (1)

Prerequisite: A student's academic program must demonstrate that they are on track to graduate within one academic year.

Selection and design of individual projects.

#### ASTR 498B. Senior Project (2)

Prerequisite: Astronomy 498A.

Six hours of laboratory. Individual research project culminating in a final written report.

#### ASTR 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### ASTR 596. Advanced Topics in Astronomy (2-3)

Prerequisite: Consent of instructor.

Selected topics in astronomy or astrophysics. May be repeated with new content upon approval of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES

Refer to the *Graduate Bulletin*.

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# Biology

In the College of Sciences

**OFFICE: Life Sciences 104**

**TELEPHONE: 619-594-6767**

**UNDERGRADUATE ADVISING OFFICE: Life Sciences 135**

**TELEPHONE: 619-594-6442 / FAX: 619-594-5676**

**<http://www.bio.sdsu.edu>**

## Faculty

Emeritus: Alexander, Alfred, Atkins, Avila, Barnett, Baxter, Bohnsack, Breindl, Carmichael, Carpenter, Chen, Clark, Cohn, Collier, B., Collier, G., Cox, Davis, C., Dexter, Diehl, Dowler, Ebert, Etheridge, Fisher, Ford, Franklin, Futch, Hanscom, Hazen, Hemmingsen, Huffman, Hunsaker, Hurlbert, Johnson, A., Johnson, K., Kelly, Krekorian, Krisans, Kummerow, Monroe, Moore, Neel, Norland, Olson, Paolini, P., Parsons, Phelps, Phleger, Plymale, Ratty, Rinehart, Sabbadini, Schapiro, Shepard, Taylor, Thwaites, Van Steenberg, Wedberg, Wilson, Zedler, J., Zedler, P., Zyskind

Chair: Frey

Vice Chair: Bohonak

Professors: Archibald, Bernstein, Berta, Bizzoco, Buono, Burns, Deutschman, Frey, Glembofski, Gottlieb, Harris, Maloy, McClenaghan, McGuire, Oechel, Perrault, Pozos, Reeder, Rohwer, Segall, Simpson, Sussman, Tsoukas

Associate Professors: Anderson, Bohonak, Edwards, Hedin, Hentschel, Hovel, Kelley, Lipson, Waters, Williams, Zeller

Assistant Professors: Cook, Clark, Dinsdale, Doran, Feuer, Lai, Lewison, Long, Wolkowicz, Zayas

Lecturers: Garver, Huntington, Martin, Norgard-Sumnicht, Paolini, M., Truesdale

## Offered by the Department

Doctor of Philosophy degree in biology, ecology, and evolutionary biology.

Master of Arts degree in biology.

Master of Science degree in biology.

Master of Science degree in microbiology.

Major in biology with the B.A. degree in liberal arts and sciences.

Major in biology with the B.S. degree in applied arts and sciences.

Emphasis in bioengineering.

Emphasis in cellular and molecular biology.

Emphasis in ecology.

Emphasis in evolution and systematics.

Emphasis in marine biology.

Emphasis in zoology.

Major in microbiology with the B.A. degree in liberal arts and sciences.

Major in microbiology with the B.S. degree in applied arts and sciences.

Emphasis in clinical laboratory science and public health microbiology.

Program of study in biology in preparation for the single subject teaching credential in science.

Minor in biology.

Certificate in biotechnology.

## The Majors

**Biology.** The Department of Biology offers a dynamic and modern program in biology which prepares students both academically and practically for vocations in science and science-related fields or for entry into graduate studies. The major is designed to present a basic background in modern biology and in the supportive disciplines of chemistry, mathematics and physics, and to provide specialized training selected by the student from a variety of areas. The wide range of faculty expertise and research interest allows the department to offer a curriculum which includes general and advanced courses in plant and animal sciences, marine sciences, genetics and physiology, ecology, molecular biology, microbiology, immunology, endocrinology,

entomology, evolution, and systematics. Formal programs of study within the major include Emphases in Bioengineering, Cell and Molecular Biology, Ecology, Evolution and Systematics, Marine Biology, and Zoology. Special studies opportunities with SDSU faculty and scientists at cooperating institutions allow qualified students to gain research experience on an individual basis.

The department offers a specific program of courses to fulfill the state of California's science requirements for the Single Subject Teaching Credential in Biological Science. Students successfully completing one of these programs may be certified by the department as having demonstrated subject competency as required in part for acceptance into College of Education single subject credential program.

The department also offers a program leading to the Biotechnology Certificate. The purpose of this program is to prepare undergraduate and graduate students for employment in public and private organizations utilizing biotechnology.

The rapid advances in theoretical and applied biology, the growing demands in health care and the expansion of general interest in and concern for the environment are just a few of the factors which continue to increase society's need for biologists. Some examples: a biology degree is the common precursor for the medical, dental, veterinarian and allied health professions; government agencies involved in environment protection, public health and conservation need ecologists, inspectors, laboratory technicians and wildlife, forest, coast and park managers; government and private agriculture agencies need entomologists and botanists; private companies, government laboratories and universities involved in biotechnology need microbiologists and molecular biologists; zoos, wild animal parks and aquaria need zoologists; the secondary school system needs biology teachers; textbook and scientific supply companies need science majors. Whether your goal is to work in a laboratory or a forest, there is opportunity for fulfillment and growth in the field of biology.

**Microbiology.** Microbiology is the study of bacteria, viruses, yeasts, molds, algae and protozoa. These microorganisms are found associated with plants and animals, in soil, and in fresh and marine waters. Many of the free-living species participate in maintaining the quality of our environment. Certain species affect the health and well-being of plants and animals, including humans, by causing infectious diseases. Microorganisms are often used in the molecular biology laboratory as research tools, for experiments in genetic engineering, and in the manufacture of food and chemicals.

The microbiology major is designed to provide the student with a background in basic biology, microbiology, and the disciplines of chemistry, mathematics and physics. The curriculum includes introductory and advanced courses (most with laboratories) in general and pathogenic microbiology, immunology, virology, physiology, and genetics as well as courses in food and industrial microbiology, marine microbiology, and molecular biology.

Microbiologists find positions with governmental agencies, in university and private research laboratories, in biotechnology, medical and industrial laboratories, in schools as teachers, with scientific supply companies, or with textbook companies. Depending on the situation, a microbiologist may conduct fundamental and applied research, identify disease-causing microorganisms in medical or veterinary specimens, participate in studies of the environment (e.g., soil, ocean, lakes), aid in the manufacture of pharmaceuticals, food, or beverages, or provide quality and safety control. The microbiology major is excellent preparation for entrance into medical, dental, veterinarian, and graduate schools. The Emphasis in Clinical Laboratory Science and Public Health Microbiology prepares students to become, after a postgraduate internship, licensed medical technologists or certified public health microbiologists.

## Impacted Programs

The biology and microbiology majors are impacted programs. To be admitted to the biology or microbiology major, students must meet the following criteria:

- Complete with a minimum GPA of 2.70 and a grade of C or higher: Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; and Physics 180A, 180B, 182A, 182B. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.60 or higher;
- Students choosing an emphasis in bioengineering have a different set of courses to complete in the preparation for the major. To be admitted to the major, bioengineering students must complete Biology 203, 203L, 204, 204L; Chemistry 200, 201, 232, 232L; Mathematics 150, 151; Physics 195, 196, 197 with at least a C in each course; and have a cumulative GPA of 2.70 or higher. Students may not elect credit/no credit grading for coursework needed to satisfy preparation for the major requirements.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Biology Major

**With the B.A. Degree in Liberal Arts and Sciences**  
(Major Code: 04011) (SIMS Code: 771402)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." A total of 40 upper division units must be taken, of which 24 must be selected from the General Biology Degree Requirements and the list of courses acceptable for electives. No more than 48 units in biology courses can apply to the degree.

A minor is not required with this major.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

## Biology Major

**With the B.S. Degree in Applied Arts and Sciences**  
(Major Code: 04011) (SIMS Code: 771401)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." A total of 36 upper division units must be selected from the General Biology Degree Requirements and the list of courses acceptable for electives.

A minor is not required with this major.

### General Biology Degree Requirements

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units for the B.A. degree or 36 upper division units for the B.S. degree to include Biology 352, 354, 366, 366L, and Chemistry 365. Elective courses include all upper division biology courses numbered 350 and above, and all upper division chemistry courses (except Chemistry 300, 308, 361, 497, 499, 560). A minimum of two elective courses must be biology laboratory courses, at least one of which must be an organismal level course selected from Biology 350, 458, 460, 512, 514, 515, 516A, 523, 524, 525, 526, 528, 530, 531, 535, 588.

All courses not included above must have specific approval of the department.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Advising and Evaluations.

### Emphasis in Bioengineering (SIMS Code: 771441)

**Preparation for the Major.** Biology 203, 203L, 204, 204L; Chemistry 200, 201, 232, 232L; Electrical Engineering 204; Engineering Mechanics 200; Mechanical Engineering 101, 240; Mathematics 150, 151, 252; Physics 195, 196, 197. (54 units)

Prerequisite courses, listed in item c. of Impacted Programs, may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 38 upper division units to include Biology 366, 366L and either Biology 350 or 590; Chemistry 365; Civil Engineering 301; Mathematics 342A; Mechanical Engineering 352, 490A\*, 490B; at least 12 additional units selected from the following courses, at least six of which must be biology courses: Biology 497 and 499 or Mechanical Engineering 499 (maximum 3 units); Biology 350 or 590, 474, 555, 556 or 557, 560, 567, 575; Chemistry 432, 432L; Electrical Engineering 303, 503; Exercise and Nutritional Sciences 306; Mechanical Engineering 310, 540, 580. Approval of the Emphasis in Bioengineering adviser is required for credit in Biology 497, 499, and other courses not listed above to be included in the emphasis. This approval must be filed with the Office of Advising and Evaluations.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

\*Additional prerequisites may be required.

### Emphasis in Cellular and Molecular Biology (SIMS Code: 771433)

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 350, 352, 354, 366, 366L, 567, 567L, Chemistry 365, and at least 11 units of electives selected from Biology and Chemistry 496 and/or 596 (maximum 3 units), Biology 497 and 499 and/or Chemistry 498 (maximum 3 units), Biology 510, 511, 528, 549, 551, 554, 555, 556, 557, 568, 570, 575, 576, 584, 485 or 585, 588, 590, and Chemistry 432, 432L. At least one course must be an organismal level course. Approval of the Emphasis in Cellular and Molecular Biology adviser is required for credit in Biology 497, Chemistry 498, Biology or Chemistry 496, 499, and 596 and other courses not listed above to be included in the emphasis. This approval must be filed with the Office of Advising and Evaluations.

Other than Biology 352, 354, 366, 366L and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

### **Emphasis in Ecology** (SIMS Code: 771434)

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. A computer programming course (e.g. Computer Science 106 or 107) is recommended. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 352, 354, 354L, 366, 366L, Chemistry 365, and at least 15 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 497 and 499 (maximum 3 units), 508, 509, 512, 516A, 516B, 517, 526, 527, 527L, 528, 535, 537, 538, 540, 541, 544, 560, 597A. At least one of the above electives must be a laboratory course. The remaining units must include an organismal level course selected from Biology 350, 458, 460, 512, 515, 516A, 523, 524, 525, 526, 528, 530, 531, 535, 588. Other electives include all biology courses numbered 350 and above (except Biology 452), and all upper division chemistry courses (except Chemistry 300, 308, 361, 497, 499, 560). Approval of the Emphasis in Ecology adviser is required for credit in Biology 496, 497, 499, 596, and other courses not listed above to be included in the 15 units of ecology electives. This approval must be filed with the Office of Advising and Evaluations.

Other than Biology 352, 354, 366, 366L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

### **Emphasis in Evolution and Systematics** (SIMS Code: 771435)

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 352, 354, 366, 366L, 509, Chemistry 365, and at least 12 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 497 and 499 (maximum 3 units), 458, 460, 508, 510, 511, 512, 515, 523, 524, 525, 526, 527, 527L, 528, 530, 531, 546, 568, 576, 588. Two of the above electives must be laboratory courses, one of which must be an organismal level course selected from Biology 458, 460, 512, 515, 523, 524, 525, 526, 528, 530, 531, 588. Other electives include all biology courses numbered 350 and above (except Biology 452), and all upper division chemistry courses (except Chemistry 300, 308, 361, 497, 499, 560). Approval of the Emphasis in Evolution and Systematics adviser is required for credit in Biology 496, 497, 499, 596, and other courses not listed above to be included in the 12 units of evolution and systematics electives. This approval must be filed with the Office of Advising and Evaluations.

Other than Biology 352, 354, 366, 366L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

### **Emphasis in Marine Biology** (SIMS Code: 771436)

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 352, 354, 366, 366L, Chemistry 365, and at least 15 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 497 and 499 (maximum 3 units), 512, 514, 515, 516A, 516B, 517, 541. At least two of the above electives must be laboratory courses, at least one of which must be one of the organismal courses Biology 512, 514, 515, 516A. The remaining units must be selected from biology courses numbered 350 and above (except Biology 452), all upper division chemistry courses (except Chemistry 300, 308, 361, 497, 499, 560), and may include three units selected from Economics 454, Geography 504, Geological Sciences 540, 545. Approval of the Emphasis in Marine Biology adviser is required for credit in Biology 496, 497, 499, 596, and other courses not listed above to be included in the 15 units of marine biology electives. This approval must be filed with the Office of Advising and Evaluations.

Other than Biology 352, 354, 366, 366L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

### Emphasis in Zoology (SIMS Code: 771438)

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 352, 354, 366, 366L, Chemistry 365, and at least 15 units of electives selected from Biology 496 and/or 596 (maximum 3 units), 497 and 499 (maximum 3 units), and 515, 516A, 526, 588 (invertebrate group), 512, 523, 524, 525 (vertebrate group), 508, 509, 510, 511, 527, 527L, 540, 546, 560, 576 (general zoology group). At least three units must be selected from each of the three groups. Two or more of the above electives must be laboratory courses, at least one of which must be an organismal level course selected from Biology 512, 515, 516A, 523, 524, 525, 526, 588. The remaining units must be selected from biology courses numbered 350 and above (except Biology 452), and all upper division chemistry courses (except Chemistry 300, 308, 361, 497, 499, 560). Approval of the Emphasis in Zoology adviser is required for credit in Biology 496, 497, 499, 596, and other courses not listed above to be included in the 15 units of zoology electives. This approval must be filed with the Office of Advising and Evaluations.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

Other than Biology 352, 354, 366, 366L, and Chemistry 365, only one course in this emphasis may be used for credit in another emphasis offered by the department.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department adviser and be filed with the Office of Advising and Evaluations.

### Microbiology Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 04111) (SIMS Code: 771452)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in biology courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. It is recommended that students select French, German, or Russian to satisfy this requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 31 upper division units to include Biology 350, 352, 354, 366, 366L, 528 or 584, 549, 567, 567L, Chemistry 365.

All courses not included above must have the prior approval of the Microbiology adviser and be filed with the Office of Advising and Evaluations.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Advising and Evaluations.

### Microbiology Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 04111) (SIMS Code: 771451)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (39 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Biology 350, 352, 354, 366, 366L, 528 or 567L, 549, 567, 584, Chemistry 365, and at least four to five units of electives selected from Biology and Chemistry 496 and 596 (maximum 3 units), Biology 497 and 499 (maximum 3 units), Biology 528, 551, 554, 555, 556, 557, 567L, 568, 584, 485 or 585, 590, Chemistry 432, 432L. Approval of the Microbiology adviser is required for credit in Biology 496, 497 and 499, 596, and other courses not listed above to be included in the electives. This approval must be filed with the Office of Advising and Evaluations.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Advising and Evaluations.

### Emphasis in Clinical Laboratory Science and Public Health Microbiology (SIMS Code: 771450)

The emphasis in clinical laboratory science and public health microbiology is a program of required and elective courses which prepares students for the Public Health Microbiologist and Clinical Laboratory Scientist academic certification and licensing examinations.

**Preparation for the Major.** Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201, 232, 232L, 251; Mathematics 121 and 122; Physics 180A, 180B, 182A, 182B. (44 units)

These prerequisite courses (excluding Chemistry 251) may not be taken Cr/NC and must be completed with a minimum GPA of 2.70 and a grade of C or higher in each class.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include at least 30 units from Biology 350, 352, 354, 366, 366L, 485 or 585, 549, 584, Chemistry 365, and Biology 528 or 567L with approval of the microbiology adviser. The remaining units to be selected from Biology 528, 551, 554, 555, 556, 557, 567L, 588, 590, Chemistry 432, 432L. To be



included in this major courses not listed above must have the prior approval of the Microbiology adviser and be filed with the Office of Advising and Evaluations.

All upper division transfer courses in biology will calculate in the major GPA but will not fulfill any major requirements without specific department approval. This approval must be filed with the Office of Advising and Evaluations.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Advising and Evaluations.

## Biology Major

**In preparation for the Single Subject Teaching Credential in Science/Biological Sciences**

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 04011) (SIMS Code: 771405)**

Students applying to the College of Education's graduate program for the Single Subject Teaching Credential in Science/Biological Sciences must be certified by this department for subject matter competency. This certification requires earning a B or better in Biology 452 and either (1) passing the required examinations (CSET), or (2) completing the subject matter preparation program described below.

Certification through the accomplishment of appropriate coursework requires (1) completion of the courses described under the General Biology Degree Requirements, B.S. degree (preparation for the major and major) including the following electives in the major: Biology 354L, 436\*, 452, and at least one course from Biology 458, 460, 515, 523, 524, 525, 526, 530 or 531 (it is recommended that Biology 497, 499 be taken as electives for the major); (2) earning a B or better in Biology 452, (3) completing Geological Sciences 101 and 104, Teacher Education 211, Health and Human Services 280, Natural Science 315, Special Education 450, and Education 451. No coursework substitutions are permitted for the SSTC program of study. The Department of Biology credential adviser (LS-135) must be consulted for certification.

Please refer to the Teacher Education section of this catalog for other requirements and prerequisites for the credential program.

**Time Limitation.** All courses for the major must be completed within seven years of the granting of the undergraduate degree. Exceptions for individual courses must be approved by the department and be filed with the Office of Advising and Evaluations.

All courses not included above must have the prior approval of the department and the substitution filed with the Office of Advising and Evaluations.

\*Additional prerequisites required.

## Biology Minor

The minor in biology consists of a minimum of 16 units to include Biology 204, 204L, and at least 12 units of upper division courses selected from one of the areas below. At least one of the selected courses must be a biology laboratory course numbered 350 or above. A maximum of three units of Biology 497 and 499 may be included in the minor with prior approval of the department. For courses requiring Biology 215 as a prerequisite, a college level course in statistics may be acceptable with the approval of the instructor. Courses may be substituted for those in areas below with approval of the biology adviser, and this approval must be filed with the Office of Advising and Evaluations.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

The minor in biology requires prerequisite courses that do not count towards the units in the minor. See descriptions of each area below.

### General Biology (SIMS Code: 771401)

Prerequisites: Biology 100, 100L or Biology 203, 203L and Chemistry 200. Required: Biology 204, 204L, and at least four courses with one course from each of the following areas: Evolution and Genetics (3 units): Biology 319 or 352; Ecology and the Environment (3 units): Biology 315, 324, 326, 327, or 354; Human Biology (3 units): Biology 307 or 336; Biology Laboratory (2-4 units): Biology 354L, 436, 458, 515, 516A, 517, 523, 524, 525, 526, 528, 530, 531, 535, 588. At least one elective must be a laboratory course.

### Cellular and Molecular Biology (SIMS Code: 771421)

Prerequisites: Biology 203, 203L, Chemistry 200, 201, 232, 232L, 365. Required: Biology 204, 204L, and at least 12 units of the following electives: Biology 350, 352, 366, 366L, 499, 549, 551, 554, 555, 567, 570, 575, 576, 584, 590, 594, and 485 or 585, and 556 or 557. At least one elective must be a laboratory course.

### Ecology (SIMS Code: 771422)

Prerequisites: Biology 203, 203L, Chemistry 200. Required: Biology 204, 204L, 354, and at least nine units of the following electives: Biology 315, 324, 327, 354L, 509, 512, 514, 515, 516A, 517, 523, 524, 525, 526, 527, 527L, 528, 531, 540, 541, 544, 588. At least one elective must be a laboratory course.

### Evolutionary Biology (SIMS Code: 771423)

Prerequisites: Biology 203, 203L, Chemistry 200. Required: Biology 204, 204L, 319 or 352, and at least nine units of the following electives: Biology 319, 352, 508, 509, 512, 523, 524, 525, 526, 527, 527L, 530, 531. At least one elective must be a laboratory course.

### Marine Biology (SIMS Code: 771425)

Prerequisites: Biology 203, 203L, Chemistry 200. Required: Biology 204, 204L, 324 and at least nine units of the following electives: Biology 512, 514, 515, 516A, 517, and 541. At least one elective must be a laboratory course.

### Plant Biology (SIMS Code: 771426)

Prerequisites: Biology 203, 203L, Chemistry 200. Required: Biology 204, 204L, 458 or 460 or 530 or 531 or 535. At least 8-9 units of the following electives (to total 12 upper division units): Biology 326, 458, 460, 530, 531, 535. At least one elective must be a laboratory course.

## Biotechnology Certificate

**(Certificate Code: 90005) (SIMS Code: 771479)**

Matriculated students must apply for admission to the program before completion of 15 certificate units and must complete all prerequisite and required courses with a GPA of 2.5 or better.

The certificate requires 13 prerequisite units – Biology 350, 366, 366L, Chemistry 365 and 25-29 certificate units including Biology 497 or 499 (5 units must be pre-approved by the certificate adviser), 567, 567L, 568, 594, and three electives selected from Biology 510, 549, 554, 570, 575, 584, 585, 590, Chemistry 563, 564. Prerequisite and certificate courses may be utilized in the biology, chemistry, and microbiology majors and minors as appropriate.

## Courses (BIOL)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### BIOL 100. General Biology (3) [GE]

Prerequisite recommended: Concurrent registration in Biology 100L.

A beginning course in biology stressing processes common to living organisms. Not applicable to biological sciences majors; see Biology 203, 203L, 204, 204L. Not open after Biology 203, 204.

#### BIOL 100L. General Biology Laboratory (1) [GE]

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 100.

A laboratory course in biology stressing processes common to living organisms. Not applicable to biological sciences majors; see Biology 203, 203L, 204, 204L. Not open after Biology 203L, 204L.

#### BIOL 101. World of Animals (3) [GE]

Animal adaptation and diversity and their relationship to the development of evolutionary theory. Not applicable to biological sciences majors. Not open after Biology 203, 204.

#### BIOL 101L. World of Animals Laboratory (1) [GE]

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 101.

Laboratory course on evolution and diversity of animals involving field trips and laboratory investigations. Not applicable to biological sciences majors. Not open after Biology 203L, 204L.

#### BIOL 203. Principles of Cell and Molecular Biology (3)

Prerequisites: Chemistry 200 and satisfaction of the English Placement Test requirement. Concurrent registration or credit with a grade of C or better in Biology 203L.

Principles of biology applying to all organisms, including basic biochemistry, cell structure, membrane transport, energy metabolism, cell division, classical and molecular genetics, gene expression, development, and recombinant DNA. Same course as lecture portion of Biology 201A. (Biology 203 and 203L formerly numbered Biology 201A.)

#### BIOL 203L. Principles of Cell and Molecular Biology Laboratory (1)

Three hours of laboratory.

Prerequisites: Chemistry 200 and satisfaction of the English Placement Test requirement. Concurrent registration or credit with a grade of C or better in Biology 203.

Laboratory experiences designed to demonstrate and reinforce concepts presented in lecture through active scientific investigation and experiences in observing, identifying, describing, and explaining evolution of cellular processes, and in applying laboratory methods and procedures relevant to molecular biology. Same course as laboratory portion of Biology 201A. (Biology 203 and 203L formerly numbered Biology 201A.)

#### BIOL 204. Principles of Organismal Biology (3)

Prerequisites: Satisfaction of the English Placement Test requirement. Concurrent registration or credit with a grade of C or better in Biology 204L. Recommended: Completion of Biology 203 and 203L.

Principles of biology applying to all organisms, including systematics and diversity of bacteria, protista, fungi, plants and animals, and concepts of physiology, reproduction, development and differentiation, ecology and the causes of endangerment of a species. Same course as lecture portion of Biology 201B. (Biology 204 and 204L formerly numbered Biology 201B.)

#### BIOL 204L. Principles of Organismal Biology Laboratory (1)

Three hours of laboratory.

Prerequisites: Satisfaction of the English Placement Test requirement. Concurrent registration or credit with a grade of C or better in Biology 204. Recommended: Completion of Biology 203 and 203L.

Laboratory experiences demonstrate and reinforce concepts and descriptive information presented in lecture through active scientific investigation and experience in observing, identifying, and classifying life, in analyzing the structural features of life, and in evaluating their adaptive significance. Same course as laboratory portion of Biology 201B. (Biology 204 and 204L formerly numbered Biology 201B.)

#### BIOL 211. Fundamentals of Microbiology (2)

Prerequisites: Biology 203 and 203L; or Biology 100 and Chemistry 100 or 102 or 130.

Microorganisms of the environment, including disease-producing organisms, their actions and reactions. For nursing, nutrition, and kinesiology (prephysical therapy) majors. Not applicable to biological sciences majors; see Biology 350. Same course as lecture portion of Biology 210. (Biology 211 and 211L formerly numbered Biology 210.)

#### BIOL 211L. Fundamentals of Microbiology Laboratory (2)

Six hours of laboratory.

Prerequisites: Credit or concurrent registration with a grade of C or better in Biology 211. Biology 203 and 203L; or Biology 100 and Chemistry 100 or 102 or 130.

Fundamentals of microbiology, including study of bacteria, fungi, protozoa, and algae of environment, including disease-producing organisms, their actions and reactions. Same course as laboratory portion of Biology 210. (Biology 211 and 211L formerly numbered Biology 210.)

#### BIOL 212. Human Anatomy (4)

Two lectures and six hours of laboratory.

Prerequisite: Biology 100 or 203.

Gross and microscopic anatomy of organ system of human body.

#### BIOL 215. Biostatistics (3) [GE]

Two lectures and three hours of laboratory.

Prerequisites: Credit or concurrent registration in Biology 203, 203L or 204, 204L and Mathematics 121 or 141.

Methods and experience in defining and solving quantitative problems in biology, including design of experiments, and parametric and nonparametric statistical techniques. Students with credit or concurrent registration in the following lower division courses will be awarded a total of four units for the two (or more) courses: Biology 215; Administration, Rehabilitation and Postsecondary Education 201; Civil Engineering 160; Economics 201; Political Science 201; Psychology 280; Sociology 201; Statistics 119, 250.

#### BIOL 246. Colloquium in Biomedical Sciences (1)

Prerequisite: University level biology course.

Current biomedical research projects ranging from cell biology to behavioral research. Research paper required. Maximum credit two units.

#### BIOL 247. Advanced Degree Programs in the Sciences: Application Strategies (1) Cr/NC

Two hours of activity.

Prerequisite: Junior or senior standing.

Instruction in preparing competitive applications to sciences' M.S. and Ph.D. degree programs to include development of the required personal statement. Introduction to sources of financial support, such as national fellowship programs, and development of interview skills and materials. Maximum credit one unit for any combination of Biology 247, 248, 249.

#### BIOL 248. Careers in Biological Sciences (1) Cr/NC

Career opportunities in biological sciences. Specialists in major biological areas will present information about their fields and how best to prepare for careers. Maximum credit one unit for any combination of Biology 247, 248, 249.

#### BIOL 249. Career Choices in the Health Professions (1) Cr/NC

Career opportunities in allied health professions; trends in health care; discussion of medical ethics; practicing professionals will present about their fields and how best to prepare for careers in their area of health care. Maximum credit one unit for any combination of Biology 247, 248, 249.

#### BIOL 250. Preprofessional Topics (1) Cr/NC

Designed to expose the preprofessional student to the profession of his/her choice through speakers and selected readings. Emphasis on alternatives and meeting stresses as a preprofessional student. Maximum credit one unit for any combination of Biology 250A-250B-250C.

A. Topics in Medicine.

B. Topics in Dentistry.

C. Topics in Veterinary Medicine.

**BIOL 261. Human Physiology (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 100 or 203; Biology 212; Chemistry 102 (or 100 and credit or concurrent registration in Chemistry 130).

Human function viewed from cellular through organ system levels of organization. Intended primarily for prenursing students. Not applicable to biological sciences majors. Not open to students with credit in Biology 336, 436, or 590.

**BIOL 277. Medical Terminology (2)**

Prerequisites: Biology 204, 204L.

Words and word components used in medical and allied medical practice translated, investigated, and applied.

**BIOL 291. Biology Laboratory (1)**

Prerequisites: Recommendation by department and consent of instructor.

Special course to allow makeup of program laboratory deficiencies. Student will be assigned to a laboratory section of the appropriate course.

**A.** Laboratory for Biology 203, 203L. (Formerly numbered Biology 291B.)

**B.** Laboratory for Biology 204, 204L. (Formerly numbered Biology 291A.)

**C.** Laboratory for Biology 215.

**BIOL 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**BIOL 299. Special Study (1-3)**

Individual research experience and interaction with researchers at an introductory level. Projects involve approximately 45 hours of laboratory or fieldwork per unit and a research report. Hours are flexible and arranged between the student and the researcher. Maximum credit four units.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**Writing Requirement: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course is a prerequisite for all upper division biology courses numbered 450 and above.**

**BIOL 305. Scientific Scuba Diving (3)**

Two lectures and three hours of laboratory.

Prerequisites: Upper division standing. Swimming competency evaluation, physical examination approval for scuba diving, waiver for scuba diving.

Entry level scientific diver training and certification course. Theory and practical diving skills to include diving physiology, hyperbaric conditions, medical hazards, proper selection, care and operation of diving equipment, marine environment, emergency procedures, scientific diving techniques and regulations. Not open to students with credit in Biology 306 or Exercise and Nutritional Sciences 320, 323, 324. Not applicable to biological sciences majors. (Formerly numbered Oceanography 305.)

**BIOL 306. Scientific Scuba Diving for Certified Divers (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 305 and Advanced or Scientific Diving Certification, diving skills proficiency evaluation, acceptable openwater diving equipment, physical examination approval for scuba diving, waiver for scuba diving.

Scientific diving operations, techniques and procedures; dive planning and lead diver responsibilities; underwater work, mapping, search and salvage, navigation, deep, night and small boat diving; emergency procedures and rescue. Physics, physiology, medicine, decompression theory, oceanography, marine life and marine environment. Master Diver Certification. Not open to students with credit in Exercise and Nutritional Sciences 324. Not applicable to biological sciences majors. (Formerly numbered Oceanography 306.)

**BIOL 307. Biology of Sex (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological science course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological science is required.

Reproductive adaptations in humans, and comparatively in other species. Topics include sex differences, mate choice and mating behavior, fertility regulation, fertilization and embryonic development, sex ratios, parental investment, effects of aging, and life history strategies. Not applicable to biological sciences majors.

**BIOL 315. Ecology and Human Impacts on the Environment (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological science course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological science is required.

Ecological characteristics of natural ecosystems and basic effects of human society upon those systems, emphasizing resource management, food production, global environmental problems, and future directions. Not applicable to biological sciences majors.

**BIOL 319. Evolution and the Diversity of Life (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.

Modern concepts in biological evolution with emphasis on examining the history of evolutionary thought; the evidence for evolution; processes and patterns responsible for the diversity of life; and consequences of an evolutionary world-view for human society. Not applicable to biological sciences majors; see Biology 352.

**BIOL 324. Life in the Sea (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.

Overview of complexity of marine life. Diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. Current controversies concerning the marine biosphere. Not applicable to biological sciences majors.

**BIOL 326. Plants, Medicines, and Drugs (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.

Medicinal plants, toxic-poisonous plants, herbal medicines, psychoactive plants, preparation of medicines and mechanisms of action; current research results on medicinal plants and drugs used in diseases such as diabetes, cancer, and heart diseases. Not applicable to biological sciences majors.

**BIOL 327. Conservation of Wildlife (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.

Global ecosystems and their dynamics, with emphasis on sustainable human use and preservation of biodiversity. Not applicable to biological sciences majors.

**BIOL 336. Principles of Human Physiology (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences. If a biological sciences course is not taken to satisfy General Education II.A.2. Life Sciences, a college course in biological sciences is required.

Systems of the human body, their interrelationships and control systems which regulate them. Not open to students with credit in a college course in human physiology. Not applicable to biological sciences majors.

**BIOL 340A. Preventive Dentistry Program (1) Cr/NC**

Four hours of clinical and other activities.

Prerequisites: Upper division standing and active preidental file in the Preprofessional Health Advising Office.

Participation in clinic, dental observation, marketing activities and two field trips. Maximum credit four units. Not applicable to biological sciences majors.

**BIOL 340B. Preventive Dentistry Leaders (2-4)**

Four hours of activity per unit.

Prerequisites: Biology 340A and consent of instructor.

Supervision of one component of Preventive Dentistry Program. Maximum credit six units. Not applicable to biological sciences majors.

**BIOL 341. The Human Body (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences.

Survey of human body with emphasis on intricacy of design and integration of various organ systems. Not open to nursing, exercise and nutritional sciences, or biological sciences majors, or to students with credit in any college level human physiology or anatomy course.

**BIOL 344. Advanced Human Anatomy (2)**

One lecture and three hours of laboratory.

Prerequisites: Biology 212 and consent of instructor.

Advanced topics in human anatomy with emphasis toward dissection of human cadavers. Dissection techniques, pathology, and special training in prosection. Not applicable to biological sciences majors.

**BIOL 348. Health Professions Internship (1-3)**

Prerequisites: 3.0 overall GPA, completion of lower division writing competency requirement, and consent of instructor.

Internship in a health care setting; term paper required. Maximum credit three units. Not applicable to biological sciences majors.

**BIOL 350. General Microbiology (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L; Chemistry 232, 232L.

Actions and reactions of microorganisms in response to their environment, both natural and as changed by other organisms, including man. Also includes an introduction to pathogens.

**BIOL 352. Genetics and Evolution (3)**

Prerequisites: Biology 203, 203L, 204, 204L, 215.

Principles of transmission genetics, population genetics, and evolution.

**BIOL 354. Ecology and the Environment (3)**

Two lectures and one hour of discussion.

Prerequisites: Biology 203, 203L, 204, 204L, 215; and Mathematics 122

Fundamental concepts in population, community, and ecosystem ecology.

**BIOL 354L. Experimental Ecology (2)**

One hour of discussion and three hours of laboratory.

Prerequisites: Credit or concurrent registration in Biology 354.

Methods of research in ecology; approaches to analysis of populations, communities, and ecosystems.

**BIOL 366. Biochemistry, Cell and Molecular Biology II (4)**

Prerequisite: Chemistry 365.

Concepts of modern integrated molecular biology, cell biology, and biochemistry.

**BIOL 366L. Biochemistry, Cell and Molecular Biology Laboratory I (2)**

Six hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 366.

Basic laboratory approaches in biochemistry, cell biology, and molecular biology.

**BIOL 436. Human Physiology Laboratory (2)**

One lecture and three hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 336 or 590.

Human physiology and rationale of current week's laboratory and experimental outcomes of previous week's laboratory. Not open to students with credit in Biology 261.

**BIOL 452. Science Concept Development and Integration (3)**

Two lectures and three hours of activity.

Prerequisite: Senior standing, or participation in the science single subject credential program.

Development and integration of biological science content knowledge, introduction to learning theory, and transformation of knowledge. Designed for students preparing for the single subject teaching credential in life sciences.

**BIOL 458. Plant Biology (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L.

Cell biology and structure, photosynthesis, respiration, secondary metabolism, physiology of water relations and transport, growth and development, evolution of major groups, plant ecology of Southern California and topics related to agriculture.

**BIOL 460. Economic Botany (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L.

Plants of agricultural, economic, and historical importance. Topics include basic plant morphology, anatomy, and taxonomy, plant genetics, agricultural breeding and propagation techniques, vegetables and fruits, spices and herbs, beverage plants, woods and plant fibers.

**BIOL 461. Underwater Research Methods and Techniques (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 204, 204L and Exercise and Nutritional Sciences 323 or Biology 306, and three upper division units in biology, Advanced Openwater or Scientific Scuba Diving Certification, diving skills proficiency evaluation, acceptable openwater diving equipment, medical examination, approval for scuba diving and waiver for scuba diving.

Preparation for scientific research underwater; scientific methods, techniques, operations and specialized equipment; scientific diver training and certification requirements; diving procedures and regulations; diving equipment; diving physiology hyperbaric conditions, fitness, practical diving skills, safety and emergency procedures.

**BIOL 474. Histology (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 204, 204L. Recommended: Biology 212.

Descriptive microscopic anatomy of cells, tissues and organs of mammals with special emphasis on humans.

**BIOL 485. Principles of Immunology (3)**

Prerequisites: Biology 203, 203L, Chemistry 365, credit or concurrent registration in Biology 366.

Basic areas of immunology to include inflammation, generation of immune response, antibody production, lymphocyte development and function, hypersensitivities and AIDS, major histocompatibility complex and cytokines. Designed to give a basic background in the immune system.

**BIOL 490. Undergraduate Honors Research (3)**

Prerequisites: Upper division standing with GPA of at least 3.20, four units of Biology 497 and/or 499, and approval of honors research program coordinator.

Experience in designing and carrying out independent research in a laboratory setting plus a written record of experimental design and results in the form of an honors research thesis to be presented at an undergraduate research forum and/or defended before a committee. Does not satisfy laboratory requirement in major. Maximum credit three units.

**BIOL 496. Experimental Topics (1-4)**

Selected topics. May be repeated once with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**BIOL 497. Undergraduate Research (1-3)**

Fifty hours of research per unit.

Prerequisites: Upper division status in good standing and consent of instructor.

Individual research project, supervised by faculty. Research course with research paper or other presentation of results. Maximum credit six units applicable to general biology major, three units to microbiology major, for any combination of Biology 497 and 499.

### **BIOL 499. Special Study (1-3)**

Fifty hours of activity per unit.

Prerequisites: Upper division status in good standing and consent of instructor.

Individual study, internship, other supervised laboratory or field project or experience. Credit involves 50 hour activity per unit per semester and a report. Maximum credit six units applicable to biology major, three units applicable to microbiology major, for any combination of Biology 497 and 499.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

**Writing Requirement: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course is a prerequisite for all upper division biology courses numbered 450 and above.**

### **BIOL 508. Coevolution (3)**

Prerequisites: Biology 352 and 354.

Coevolution in interspecific interactions, like herbivory, predation, parasitism, competition, pollination, and mimicry.

### **BIOL 509. Evolutionary Biology (3)**

Two lectures and two hours of activity.

Prerequisite: Biology 352.

Evolutionary biology including genetics of populations, speciation, systematic biology, adaptation, role of development in evolution, evolution of behavior, and comparative biology. Evolutionary biology as the central organizing principle of biology.

### **BIOL 510. Molecular Evolution (3)**

Prerequisites: Biology 352 and 366 or graduate standing.

Molecular evolution including concepts of homology and convergence, the nearly neutral theory of evolution, evolution of new protein function, detecting selection, multi-gene family evolution and evolutionary genomics.

### **BIOL 511. Evolution of Development (3)**

Prerequisites: Biology 352 and 366.

Dynamic relationship between regulatory functions that control development and the evolutionary process, and vice versa, illustrated with evidence derived from developmental, phylogenetic, paleontological, computational, and ecological research. Emphasis on genomic regulatory networks of transcriptional regulatory elements and cell-signaling pathways.

### **BIOL 512. Evolution and Ecology of Marine Mammals (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 352 and 354.

Biology of marine mammals including pinniped, cetacean and sirenian evolution, diet and foraging strategies, social organization, reproductive strategies, echolocation, diving physiology, and conservation.

### **BIOL 514. Biology of the Algae (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L and six units of upper division coursework in the major.

Evolution, life histories, morphology, physiology, and ecology of micro and macro algae, with attention to both marine and freshwater taxa, and of sea-grasses.

### **BIOL 515. Marine Invertebrate Biology (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Completion of three to six upper division units in the major.

Structure and function, ecology, behavior, physiology and phyletic relationships of marine invertebrate animals.

### **BIOL 516A. Marine Larval Ecology Research Part 1 (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L, 215.

Biology of marine invertebrate larvae. Biodiversity, evolution of complex life cycles, larval culture techniques, physiological and ecological consequences of environmental variability during larval development. Designing and peer reviewing original research proposals related to larval ecology.

### **BIOL 516B. Marine Larval Ecology Research Part 2 (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 516A and consent of instructor.

Research experience investigating marine invertebrate larval ecology.

### **BIOL 517. Marine Ecology (4)**

Two lectures and six hours of laboratory.

Prerequisite: Biology 354.

Ecological concepts as applied to pelagic and benthic marine organisms and their environment. Field and laboratory experience in oceanographic techniques, particularly the coastal environment.

### **BIOL 523. Herpetology (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Recommended: Biology 352.

Evolution, systematics, distribution, and ecology of amphibians and reptiles of the world.

### **BIOL 524. Ornithology (4)**

Two lectures, six hours of laboratory or field excursions, and a field project.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Completion of three to six upper division units in the major.

Study and identification of birds, especially those of the Pacific Coast and the San Diego region.

### **BIOL 525. Mammalogy (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Completion of three to six upper division units in the major.

Evolution, systematics, distribution and ecology of mammals of the world.

### **BIOL 526. Terrestrial Arthropod Biology (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Biology 352 and completion of three to six upper division units in the major.

Structure, function, behavior, ecology, evolution, and relationships of major groups of terrestrial arthropods, including insects, arachnids, and myriapods. Identification and natural history of southern California diversity.

### **BIOL 527. Animal Behavior (3)**

Prerequisites: Biology 203, 203L, 204, 204L, 215; Psychology 211 and 260 for psychology majors.

Biological bases of animal behavior with emphasis on ethological approach, including evolution and adaptive significance of behavior.

### **BIOL 527L. Animal Behavior Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 527.

Animal behavior with emphasis on ethological approach to include evolution and adaptive significance of behavior, data collection and analysis, scientific writing and results.

### **BIOL 528. Microbial Ecology (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Recommended: Biology 350 and 354.

Roles of microorganisms in soil, aquatic and marine ecosystems, microbial adaptations to the environment, and interactions within microbial communities and between microbes and multicellular organisms. Laboratory techniques to isolate and study microbes.

### **BIOL 530. Plant Systematics (4)**

Two lectures and six hours of laboratory, field trips.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Completion of three to six upper division units in the major.

Plant description, identification, classification, and nomenclature with emphasis on evolutionary patterns, interdisciplinary data acquisition, and phylogenetic analysis.

**BIOL 531. Taxonomy of California Plants (4)**

Two lectures and six hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L.

Fundamentals of plant taxonomy with emphasis on identification of plants native and naturalized to California. Plant collecting techniques. Field trips are required.

**BIOL 535. Plant Ecology (4)**

Three lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Biology 354.

Plant adaptation and response to living and non-living environment including aspects of plant evolution, demography, ecophysiology community and ecosystem dynamics and soil-plant relationships. Terrestrial systems emphasized.

**BIOL 537. Population Modeling for Conservation (3)**

Two lectures and three hours of laboratory.

Prerequisite: Biology 354.

Applied population modeling in context of conservation. How mathematical models can be used to simulate population dynamics of single and multiple species and rank conservation management options.

**BIOL 538. Environmental Policy and Regulations (3)**

Prerequisite: Biology 354.

History of biological conservation and environmental laws; regulations governing biological resources; role of biologists; environmental impact analysis, operation of regulatory and resource agencies; biologists as expert witnesses; wetland protection and mitigation, state heritage programs, role of nongovernmental agencies.

**BIOL 540. Conservation Ecology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Biology 354.

Human impacts on ecosystems, the resultant endangerment and extinction of plant and animal species, and strategies for the protection and recovery of threatened forms.

**BIOL 541. Ecology of Fishes and Fisheries Biology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Biology 354.

Ecology of fishes, including environmental constraints, habitats, feeding, behavior, growth, reproduction, biotic interactions, population dynamics and assemblage structure. Fisheries biology concepts, including stock recruitment models, climates and fisheries, density dependence and population regulation, and populations dynamics theory.

**BIOL 544. Terrestrial Ecosystems and Climate Change (3)**

Prerequisite: Biology 354.

Controls on fluxes and stocks of nutrients within terrestrial ecosystems, ecosystem responses, feedbacks to climate change. Climate systems, water transport, production and decomposition, nutrient cycling, stable isotopes, spatial and temporal integration.

**BIOL 546. Systematics and Biodiversity (3)**

Two lectures and two hours of activity.

Prerequisite: Biology 352.

History, philosophy, and practical aspects of systematic biology, emphasizing pervasive role of phylogenetic data in evolutionary biology and other fields, phylogenetic structure of all lifeforms, and geographic patterns of diversity, endemism and imperilment.

**BIOL 549. Microbial Genetics and Physiology (3)**

Prerequisite: Biology 350 or 366.

Physiology of microbial growth, bacterial structure and function, genetics of bacteriophages and bacteria.

**BIOL 551. Recombinant DNA (3)**

Prerequisites: Biology 350, 366, 366L, Chemistry 365, and credit or concurrent registration in Biology 549 or 567.

Theory and practice of recombinant DNA techniques.

**BIOL 554. Molecular Virology (3)**

Prerequisites: Biology 366 and Chemistry 365.

Molecular aspects of structure, genetics, and replication of viruses, virus-host interactions, pathogenesis of virus infections, diagnostic virology, and antiviral vaccines and drugs; emphasis on human pathogens.

**BIOL 555. Principles of Electron Microscopy (2)**

Prerequisites: Biology 204, 204L and Physics 180B.

Principles of scanning and transmission electron microscopy including theoretical basis of sample preparation.

**BIOL 556. Scanning Electron Microscopy Laboratory (2)**

Six hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 555.

Biological specimen preparation and operation of scanning electron microscope.

**BIOL 557. Transmission Electron Microscopy Laboratory (3)**

One lecture and six hours of laboratory.

Prerequisite: Credit or concurrent registration in Biology 555.

Biological sample preparation and operation of transmission electron microscope.

**BIOL 560. Animal Physiology (3)**

Prerequisites: Biology 203, 203L, 204, 204L; Chemistry 365; Physics 180B, 182A, and 182B.

Physiology of vertebrate and invertebrate animals with emphasis on diversity of solutions to physiological problems and on functional integration of organ systems.

**BIOL 561. Radiation Biology (3)**

Prerequisites: Biology 203, 203L, 204, 204L; Physics 180B, 182A, and 182B. Recommended: Biology 366.

Principles underlying radiological reactions of ionizing radiations. Effects of ionizing radiations at the biochemical, cell, organ, and organism levels.

**BIOL 567. Advanced Biochemistry, Cellular, and Molecular Biology (4)**

Prerequisites: Biology 366 and Chemistry 365.

Advanced concepts of cellular biology, molecular biology, and biochemistry.

**BIOL 567L. Biochemistry, Cellular, and Molecular Biology Laboratory II (2)**

Six hours of laboratory.

Prerequisites: Biology 366, 366L, credit or concurrent registration in Biology 567. Recommended: Biology 350.

Intermediate laboratory approaches to biochemistry, cellular biology, and molecular biology at a level appropriate for both advanced undergraduate and graduate students. (Formerly numbered Chemistry 467L.)

**BIOL 568. Bioinformatics (3)**

Two lectures and three hours of laboratory.

Prerequisite: Biology 366.

Bioinformatics analysis methods and programming skills. Practical bioinformatic software for sequence analysis, bioinformatic algorithms and programming fundamentals.

**BIOL 570. Neurobiology (3)**

Prerequisite: Biology 366 or 590 or Psychology 360 for psychology majors.

Structure and function of the nervous system to include cellular and molecular mechanisms underlying neuronal excitability and synaptic function, nervous system development, cellular and systems analysis of sensory, motor and higher brain functions. Emphasis on experimental approaches.

**BIOL 575. Molecular Basis of Heart Disease (3)**

Prerequisite: Biology 366 or 590.

Current literature on the molecular basis of disordered physiology leading to heart disease.

**BIOL 576. Developmental Biology (3)**

Prerequisite: Biology 366. Strongly recommended: Biology 567.

Fundamental processes of development from fertilized egg to organism. Emphasis on cellular and molecular mechanisms common to development of metazoan organisms.

**BIOL 584. Medical Microbiology (3)**

Prerequisites: Biology 350 and 366.

Major bacterial and viral pathogens; molecular mechanisms of pathogenesis, microbial toxins and antimicrobial agents; immune response to microbial infections; biochemical and molecular diagnostics.

**BIOL 585. Cellular and Molecular Immunology (3)**

Prerequisite: Biology 366. Recommended: Credit or concurrent registration in Biology 567 and 567L.

Cellular and molecular aspects of the immune response. Genetics of immunoglobulins, major histocompatibility complex, lymphocyte development and their manifestations on immune responsiveness, lymphokines immunopathologies including AIDS, and contemporary immunological techniques. Not open to students with credit in Biology 485.

**BIOL 588. General Parasitology (3)**

Two lectures and three hours of laboratory.

Prerequisites: Biology 203, 203L, 204, 204L. Strongly recommended: Completion of six upper division units in the major.

Parasites of medical and veterinary importance with special reference to those of humans. Practical training in identification of common human and animal parasites. Parasitological examination of local wildlife, collection and preservation of parasites.

**BIOL 590. Physiology of Human Systems (4)**

Three lectures and one hour of discussion.

Prerequisites: Biology 366, Chemistry 365, Physics 180B, 182B; or for the bioengineering emphasis: Physics 195, 196, 197.

Human physiology presented at both cellular and organ system levels; neurophysiology, muscle physiology, cardiovascular physiology and respiration, kidney function, hormone function and reproduction. For students majoring in a natural science or pre-professional studies.

**BIOL 594. Biotechnology Research Rounds (2) Cr/NC**

Prerequisites: Biology 366 and credit or concurrent registration in Biology 567.

Research methods in biotechnology community. Speakers from local biotechnology companies and research institutes discuss power and limitations of current research methods being applied to develop new therapeutics. Evaluation of approaches, results, and utility of these technologies. Not applicable to biology or microbiology majors.

**BIOL 596. Special Topics in Biology (1-4)**

Prerequisite: Consent of instructor.

Advanced selected topics in modern biology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**BIOL 597A. Univariate Statistical Methods in Biology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Biology 352 or 354 or 366.

Application of univariate statistical techniques in biological sciences.

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**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Business Administration

In the College of Business Administration

**OFFICE: Education and Business Administration 448**

**TELEPHONE: 619-594-5828 / FAX: 619-594-7046**

**<http://www.sdsu.edu/business>**

## Faculty

Faculty assigned to teach in Business Administration are drawn from departments in the College of Business Administration.

## The Majors

For majors, minors, additional programs and courses in the College of Business Administration, see listings under Accountancy, Finance, Information and Decision Systems, Management, and Marketing.

## Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

## Impacted Program

All majors in the College of Business Administration are impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (IDS 290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.9;

Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Business Administration Minor

**(Minor Code: 05010) (SIMS Code: 221750)**

*(See also, minors in Accounting, Finance, Information Systems, Management, Marketing, and Real Estate.)*

The minor in business administration provides a general overview of business for non-business majors. While it is open to qualified students from all majors (except majors in the College of Business Administration, Hospitality and Tourism Management, or International Business), it is particularly recommended for students whose career plans include self-employment or small business management. The minor in business administration is administered by the Business Advising Center (EBA-448), 619-594-5828.

The minor in business administration consists of 21 to 23 units to include Accountancy 201; Finance 323; Information and Decision Systems 180; Management 350; Marketing 370; and six to eight units selected from Finance 327, 328; Management 352, 358; Marketing 371, 373, 476.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the business administration minor include completion of the following courses with a grade of C or better in each: Economics 101, 102 and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

## Certificate in Business Administration

**(Imperial Valley Campus)**

**(Certificate Code: 90009) (SIMS Code: 221703)**

This certificate is designed primarily for persons who want to gain an increased understanding of essential principles through upper division business courses, and for students who decide to go on to pursue the B.S. degree with a major in either management, finance, accounting, marketing, information systems, or real estate at the San Diego campus. For those not seeking the B.S. degree it provides a program designed to give self-improvement opportunities for the purpose of securing employment, promotion or upward mobility on the job.

All students seeking admission to the program must have successfully completed 56 transferable lower division units with a grade point average of 2.0. This includes completion of the lower division preparation required for any business administration major, i.e., Accountancy 201, 202; Finance 240; Information and Decision Systems 180, 290; Economics 101 and 102; Economics 201 or Statistics 119, and Mathematics 120 (or other approved calculus course).

The certificate will be awarded upon successful completion of the following courses: Finance 323; Information and Decision Systems 301 or 302; Management 350; Marketing 370; and three units selected from Finance 321, 589; or Management 356. (15 units)



## **Courses (B A)**

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### **LOWER DIVISION COURSES**

#### **B A 100A. Exploration of Business I (1) Cr/NC**

Prerequisite: Registration in the Faculty-Student Mentor Program.

Selecting and preparing for business careers. Business departments, faculty, students, and alumni provide information on courses, skills needed, opportunities, and drawbacks of various occupations. Career services provides advice. Students complete skills/interest assessments that are explained by career services.

#### **B A 100B. Exploration of Business II (1) Cr/NC**

Prerequisite: Registration in the Faculty-Student Mentor Program.

Continuation of exploration of business careers. Additional business departments and other campus services provide information on courses, skills needed, opportunities, and drawbacks of various occupations.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **B A 300. Ethical Decision Making in Business (1)**

Prerequisite: Approved upper division business major or another major approved by the College of Business Administration.

Theoretical concepts and dimensions of ethics in business decisions. Ethics of decision alternatives using different approaches and philosophies, with application of an integrative ethical decision model to cases from various business subdisciplines.

#### **B A 400. Business Honors Seminar (1) Cr/NC**

Prerequisite: Admission to the College of Business Honors Program.

Current issues affecting local, national, and global business environments. Maximum credit five units.

#### **B A 401. Business Internship (1) Cr/NC**

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Internships with business firms, non-profit organizations, or government agencies. Work done under joint supervision of intern organization and academic supervisor. Not applicable for credit in the major. Maximum credit four units with new content.

#### **B A 402. Exploration of Business Career Development (1) Cr/NC**

Prerequisite: Upper division standing in the College of Business Administration.

Prepare students for careers after college and transition from college to career. Personal preparation and analysis of identification of best career options for each student.

#### **B A 404. Small Business Consulting (3)**

Prerequisites: Approved upper division business major; Business Administration 300; Finance 323; Information and Decision Systems 301 or 302; Management 350; Marketing 370; and consent of instructor.

Counseling of existing small businesses. Application of principles from all fields of business administration. Maximum credit six units.

#### **B A 496. Selected Topics in Business Administration (1-4)**

Prerequisite: Consent of department chair.

Selected areas of concern in business administration. May be repeated with new content with consent of department chair. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

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### **GRADUATE COURSES** **Refer to the Graduate Bulletin.**

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# Chemistry

In the College of Sciences

**OFFICE:** Geology/Mathematics/Computer Science 209

**TELEPHONE:** 619-594-5595 / **FAX:** 619-594-4634

**E-MAIL:** [cheminfo@sciences.sdsu.edu](mailto:cheminfo@sciences.sdsu.edu)

**<http://www.sci.sdsu.edu/chemistry>**

Accredited by the American Chemical Society.

## Faculty

**Emeritus:** Abbott, Bennett, Cobble, Dahms, Grubbs, Hellberg, Isensee, Jensen, Jones, Joseph, Landis, Lebherz, Malik, Mathewson, Metzger, O'Neal, Richardson, Ring, Roeder, Stewart, Walba, Woodson

**Chair:** Carrano

**Professors:** Carrano, Grotjahn, Stumph, Tong

**Associate Professors:** Bergdahl, Chatfield, Cole, Cooksy, Love, McAlpine, Pullman, Smith, van der Geer

**Assistant Professors:** Beauvais, Bennett, Harrison, Huxford, Kalyuzhny

## Offered by the Department of Chemistry and Biochemistry

Doctor of Philosophy degree in chemistry.

Master of Arts degree in chemistry.

Master of Science degree in chemistry.

Major in chemical physics with the B.S. degree in applied arts and sciences.

Major in chemistry with the B.S. degree in applied arts and sciences with the Certificate of the American Chemical Society. Emphasis in biochemistry.

Major in chemistry with the B.A. degree in liberal arts and sciences, with or without the Certificate of the American Chemical Society.

Teaching major in chemistry for the single subject teaching credential in science.

Minor in chemistry.

## The Major

Through the study of chemistry students can better understand their environment and develop new materials that provide for a higher quality of life. Chemists are involved in a wide range of careers in research, development and the production of new goods. Basic chemical research provides society with discoveries of new substances and the means to predict their chemical and physical properties. In developmental chemistry, professionals find ways to put them to use. There are careers in methods of production to provide these materials to society in a cost-effective way. In each of these areas, there are subspecialties in analytical, biochemical, inorganic, organic, and physical chemistry.

The Department of Chemistry and Biochemistry offers five degree programs leading to the Bachelor of Arts degree, the Bachelor of Science degree, the Master of Arts degree, the Master of Science degree, and the Doctor of Philosophy degree (with the University of California, San Diego).

There are several options available in the undergraduate program for those wishing either a major or a minor in chemistry. A chemistry major with the Bachelor of Science degree and certificate of the American Chemical Society is designed to qualify students for many types of positions as chemists and for admission to graduate study.

The chemistry major with the Bachelor of Arts degree and certificate of the American Chemical Society is specifically designed to prepare students for careers and graduate work requiring a strong chemistry background. With an appropriate choice of electives, graduates can meet the requirements for admission to medical, dental and pharmaceutical schools. A minor in biology is recommended.

The use of chemistry electives allows a student to focus on a particular area in chemistry such as analytical chemistry, biochemistry, chemical physics, inorganic chemistry, organic chemistry, or physical chemistry.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Chemistry Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 19051) (SIMS Code: 772601)**

**and Certificate of the American Chemical Society**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Chemistry 200, 201, 232, 232L, 251; Mathematics 150, 151, 252; and Physics 195, 195L, 196, 196L. (39 units) Recommended: Physics 197 and 197L.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Chemistry 410A, 410B, 417, 427, 432, 432L, 457, 520A-520B, 550, 560, one unit of 498, and eight units of upper division electives in chemistry. Six of the eight units may be in related subjects with the approval of the department.

### Emphasis in Biochemistry

**(SIMS Code: 772609)**

**Preparation for the Major.** Chemistry 200, 201, 232, 232L, 251; Biology 204, 204L; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L. (43 units) Recommended: Physics 197 and 197L.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Chemistry 410A, 410B, 432, 432L, 457, 550, 560, 567; four units selected from Chemistry 562, 563, 564; one unit of Chemistry 498; and the remaining units selected from Chemistry 496, 497, 498, and any 500-level chemistry course; Biology 350, 352, 485, 549, 551, 570, 590. The addition of Chemistry 417, 427, and 520A qualifies this program for ACS certification.

## Chemistry Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 19051) (SIMS Code: 772612)**

**and Certificate of the American Chemical Society**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 49 units in chemistry courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Chemistry 200, 201, 232, 232L, 251; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L. (39 units) Recommended: Physics 197 and 197L.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of this catalog on "Graduation Requirements."

CHEM

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in chemistry to include Chemistry 410A, 410B, 417, 427, 432, 432L, 457, 520A, 550, 560; one unit of Chemistry 498, and five units of electives selected from Chemistry 496, 498, or any 500-level course in chemistry.

## Chemistry Major

**With the B.A. Degree in Liberal Arts and Sciences**  
(Major Code: 19051) (SIMS Code: 772602)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in chemistry courses can apply to the degree.

**Preparation for the Major.** Chemistry 200, 201, 232, 232L, 251; Biology 203, 203L, 204, 204L; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L. (47 units) Recommended: Physics 197 and 197L.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units in chemistry to include Chemistry 410A, 410B, 417, 432, 432L, 457, 550, and seven units of electives in chemistry. Chemistry 560 is recommended for all premedical students.

**Minor.** A minor in biology is expected for preprofessional students.

## Chemistry Major (Teaching Credential Only)

**In preparation for the Single Subject Teaching Credential in Science/Chemistry**

**With the B.A. Degree in Applied Arts and Sciences**  
(Major Code: 19051) (SIMS Code: 772607)

One of the requirements for acceptance into the College of Education's post-baccalaureate credential program is to either pass the appropriate CSET examinations or complete an approved academic program. The single subject teaching credential in science preparation program described below satisfies the academic requirements for a student planning to teach integrated science and chemistry at the secondary level. Entrance into the post-baccalaureate credentialing program in part requires certification of subject matter competency by this department. This certification requires completion of the academic program with the required grades, submission of a satisfactory portfolio, and the recommendation of the department. Contact the subject matter preparation program adviser. In addition, all candidates for a Single Subject Teaching credential at San Diego State University must complete the requirements outlined in the catalog under Teacher Education or Policy Studies. Contact the School of Teacher Education or the Policy Studies in Language and Cross-Cultural Education Department for up-to-date information on prerequisites.

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Candidates who wish to graduate with 122 units must complete one of two American Institutions courses at the upper division level or satisfy the California state and local government portion of American Institutions by passing the California Government examination available through the Student Testing, Assessment and Research Office.

A minor is not required for this major.

**Preparation for the Major.** Astronomy 109, 201; Biology 203, 203L, 204, 204L; Chemistry 200, 201, 232, 232L, 251; Communication 103; Mathematics 150, 151; Physics 180A, 180B, 182A, 182B; Mathematics 252 *OR* Physics 195, 195L, 196, 196L, 197, 197L; Teacher Education 211. (55 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 31 upper division units to include Chemistry 410A, 410B, 417, 432, 432L, 457, 497 (1 unit), 520A, 550, 560; Geological Sciences 412; Natural Science 315.

**Additional Requirements for Subject Matter Preparation Certification**

**Satisfactory Grades.** At most one course with a C- or lower among the courses listed under Preparation for the Major, and at most one course with a C- or lower among the courses listed under the Major. If a course is repeated, the highest grade will count.

**Formative Assessment.** Completion of a satisfactory, preliminary portfolio two semesters prior to graduation. Contact the subject matter preparation adviser for information.

**Summative Assessment.** Completion of a satisfactory, final portfolio and a positive recommendation from the senior project supervisor.

## Chemical Physics Major

**With the B.S. Degree in Applied Arts and Sciences**  
(Major Code: 19081) (SIMS Code: 772801)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans for each student are filed with the chemistry and physics undergraduate advisers and the Office of Advising and Evaluations.

A minor is not required with this major.

**Preparation for the Major.** Chemistry 200, 201, 232, 232L, 251; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L. (43 units)

Recommended: A course in computer programming.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Chemistry 410A, 410B, 417, 550; Mathematics 342A, 342B; Physics 311, 350, 400A, 410; three units selected from Chemistry 432, 432L, 457, 510, Physics 357, 360, 400B, Chemistry 538 or Physics 538; and Research Project: Chemistry 497 (3 units) or Chemistry 498 (3 units) or Physics 498A and 498B (3 units).

## Chemistry Minor

(Minor Code: 19051) (SIMS Code: 772601)

The following courses are prerequisite to the chemistry minor and do not count toward the 15 units required for the minor: Chemistry 200, 201. (10 units.)

The minor in chemistry consists of 15 units in chemistry to include Chemistry 232, 232L, 251; and six units of upper division electives. Strongly recommended: Chemistry 410A, 410B\*.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\* Additional prerequisites in mathematics and physics required for these courses.

## Courses (CHEM)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### **CHEM 100. Introduction to General Chemistry with Laboratory (4) [GE]**

Three lectures and three hours of laboratory.  
Elementary principles of chemistry used to illustrate nature and development of modern scientific thought. Not open to students with credit in Chemistry 105 or 200.

#### **CHEM 102. Introduction to General, Organic, and Biological Chemistry (5) [GE]**

Four lectures and three hours of laboratory.  
Prerequisite: High school chemistry or Chemistry 100.  
Concepts of general, organic, and biological chemistry necessary to understanding human biochemistry and pharmacology, including chemical bonding, stereochemistry, acidity, thermodynamics, carbohydrates, lipids, enzymes, proteins, and nucleic acids. Open only to students applying for entrance to the nursing major.

#### **CHEM 130. Elementary Organic Chemistry (3)**

Prerequisite: Chemistry 100 or 200.  
Introduction to compounds of carbon including both aliphatic and aromatic substances. Not open to students with credit in Chemistry 231 or 232.

#### **CHEM 160. Introductory Biochemistry (3)**

Prerequisite: Chemistry 130.  
Fundamental principles of the chemistry of life. This course is intended primarily for majors in nutrition and related fields. Not applicable for admission to the School of Nursing.

#### **CHEM 200. General Chemistry (5)**

Three lectures and six hours of laboratory.  
Prerequisites: Knowledge of introductory chemistry as demonstrated by completion of Chemistry 100 with a grade of C or better; or satisfaction of the Entry-Level Mathematics requirement and qualification on the Chemistry Department Placement Examination.  
General principles of chemistry with emphasis on inorganic materials.

#### **CHEM 201. General Chemistry (5)**

Three lectures and six hours of laboratory.  
Prerequisite: Chemistry 200 with a grade of C or better.  
Continuation of Chemistry 200. General principles of chemistry with emphasis on fundamentals of chemical reactions.

#### **CHEM 202. General Chemistry for Engineers (4)**

Three lectures and three hours of laboratory.  
Prerequisite: Knowledge of introductory chemistry as demonstrated by completion of Chemistry 100 with a grade of C or better; or satisfaction of the Entry-Level Mathematics requirement and qualification on the Chemistry Department Placement Examination.  
General principles of chemistry with emphasis on inorganic and physical chemistry and chemistry basics for engineers. Not open to students with credit in Chemistry 200. Restricted to engineering majors.

#### **CHEM 232. Organic Chemistry (3)**

Prerequisites: Chemistry 201 with a grade of C or better and credit or concurrent registration in Chemistry 232L.  
Properties and synthesis of organic compounds including reaction mechanisms. Same course as lecture portion of Chemistry 231. Not open to students with credit in Chemistry 231.

#### **CHEM 232L. Organic Chemistry Laboratory (1)**

Three hours of laboratory.  
Prerequisites: Chemistry 201 with a grade of C or better and credit or concurrent registration in Chemistry 232.  
Properties and synthesis of organic compounds including methods of separation and purification techniques. Same course as laboratory portion of Chemistry 231. Not open to students with credit in Chemistry 231.

#### **CHEM 251. Analytical Chemistry (5)**

Three lectures and six hours of laboratory.  
Prerequisites: Chemistry 201 and credit or concurrent registration in Mathematics 122 or 150.  
Introduction to the theory and practice of analytical chemistry including gravimetric, volumetric, and instrumental methods.

#### **CHEM 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **CHEM 299. Special Study (1-4)**

Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### **CHEM 300. Forensic Science (3) [GE]**

Prerequisite: Chemistry 100 or completion of General Education requirement in Foundations of Learning II.A. Natural Sciences and Quantitative Reasoning.  
Techniques and case studies of mysteries solved by molecular analysis: chemical and DNA analysis of crime scenes, biochemical explanations of mysterious deaths and accidents, molecular hallmarks of forgery, chemical methods in crime deterrence, chemical causes of fires and structure failure. Not applicable to chemistry majors.

#### **CHEM 308. Chemistry as a Unifying Science (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.  
Atomic-molecular theory of matter; use of concepts of chemistry to explain observable phenomena in everyday life, including physical properties and chemical changes; connections between chemistry and biology, earth science, and physical science. Open only to liberal studies majors. Not applicable to chemistry majors.

#### **CHEM 361. Fundamentals of Biochemistry (3)**

Prerequisite: Chemistry 365.  
The chemistry of intermediary metabolism and its regulation. Not open to students with credit in Chemistry 562 or 563.

#### **CHEM 365. Biochemistry, Cell and Molecular Biology I (3)**

Prerequisites: Biology 203, 203L and Chemistry 232, 232L.  
Basic concepts of modern integrated biochemistry, cell and molecular biology. Not open to students with credit in Chemistry 560. Applicable to chemistry major or minor only with approval from department.

#### **CHEM 410A. Physical Chemistry (4)**

Three lectures and three hours of laboratory.  
Prerequisites: Chemistry 232, 232L, 251; Mathematics 252 (Mathematics 150, 151; 252 or Physics 195, 195L, 196, 196L for chemistry teaching major); Physics 195, 195L and 196, 196L. Recommended: Physics 197 and 197L.  
Theoretical principles of chemistry with emphasis on mathematical relations. Theory and practice in acquisition and statistical analysis of physical measurements on chemical systems.

#### **CHEM 410B. Physical Chemistry (3)**

Three lectures.  
Prerequisites: Chemistry 232, 232L, 251, 410A.  
Theoretical principles of chemistry with emphasis on mathematical relations. Theory and practice in acquisition and statistical analysis of physical measurements on chemical systems.

#### **CHEM 417. Advanced Physical Chemistry Laboratory (2)**

Six hours of laboratory.  
Prerequisites: Chemistry 251, 410A, and credit or concurrent registration in Chemistry 410B.  
Experimental physical chemistry. Emphasis on interpretation and statistical evaluation of instrument-derived results, record keeping, report writing, and individual initiative in observing results.

**CHEM 427. Inorganic Chemistry Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Chemistry 520A.

Laboratory course designed to introduce students to techniques used in synthesis, characterization, and manipulation of inorganic compounds and materials.

**CHEM 432. Organic Chemistry (3)**

Prerequisites: Chemistry 232 with a grade of C or better and credit or concurrent registration in Chemistry 432L.

Continuation of Chemistry 232. Same course as lecture portion of Chemistry 431. Not open to students with credit in Chemistry 431.

**CHEM 432L. Organic Chemistry Laboratory (1)**

Three hours of laboratory.

Prerequisites: Chemistry 232L with a grade of C or better and credit or concurrent registration in Chemistry 432.

Continuation of Chemistry 232L. Same course as laboratory portion of Chemistry 431. Not open to students with credit in Chemistry 431.

**CHEM 457. Instrumental Methods of Chemical Analysis Laboratory (2)**

Six hours of laboratory.

Prerequisites: Chemistry 251, 432, 432L, and credit or concurrent registration in Chemistry 410B; concurrent registration in Chemistry 550.

Application of instrumental methods of chemical separations and analysis frequently used in all subdisciplines of chemistry.

**CHEM 496. Selected Topics in Chemistry (1-4)**

Prerequisite: Consent of instructor.

Selected topics in modern chemistry. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**CHEM 497. Undergraduate Research (1-3) Cr/NC**

Prerequisites: Chemistry 232, 232L, 251.

Individual laboratory investigation. Maximum credit six units.

**CHEM 498. Senior Project (1-3)**

Prerequisite: Three one-year courses in chemistry.

Individual literature and/or laboratory investigation and report on a problem. Maximum credit three units.

**CHEM 499. Special Study (1-4)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**CHEM 510. Advanced Physical Chemistry (3)**

Prerequisite: Chemistry 410B.

Problems in chemical thermodynamics, statistical mechanics, chemical kinetics, quantum chemistry and molecular structure and spectroscopy, with applications.

**CHEM 520A-520B. Inorganic Chemistry (3-3)**

Prerequisite: Chemistry 410A. Chemistry 520A is prerequisite to 520B.

Nature of chemical bond and an advanced systematic study of representative and transition elements and their compounds.

**CHEM 531. Synthetic Organic Chemistry (3)**

Prerequisites: Chemistry 432, 432L.

Modern methods, strategies, and mechanisms in advanced organic synthesis. Retrosynthetic analysis of and synthetic routes towards biologically important compounds.

**CHEM 537. Organic Qualitative Analysis (4)**

Two lectures and six hours of laboratory.

Prerequisites: Chemistry 432, 432L, and credit or concurrent registration in Chemistry 410A. Recommended: Chemistry 417 and 457.

Chemical, physical, and spectral methods discussed and employed to determine structure of organic compounds. Purification and separation techniques stressed.

**CHEM 538. Polymer Science (3)**

(Same course as Physics 538)

Prerequisites: Chemistry 200 or 202; and Chemistry 410B or Physics 360 or Mechanical Engineering 350 or 352.

Structure, synthesis, physical properties, and utilities of polymers.

**CHEM 550. Instrumental Methods of Chemical Analysis (2)**

Prerequisites: Chemistry 232, 232L, and credit or concurrent registration in Chemistry 410A; concurrent registration in Chemistry 457 for undergraduate students only. Chemical Physics majors can replace the Chemistry 457 corequisite with credit or concurrent registration in Physics 311.

Theory and application of those instrumental methods of chemical separation and analysis most frequently used in all subdisciplines of chemistry.

**CHEM 551. Advanced Analytical Chemistry (3)**

Prerequisite: Chemistry 550.

Expanded treatment of instrumental methods for separation and quantification not covered in Chemistry 550. Non-instrumental separations, quantitative organic microanalysis, sampling theory and techniques, reaction rate applications and interpretation of experimental data.

**CHEM 560. General Biochemistry (3)**

Prerequisites: Chemistry 232, 232L, and credit or concurrent registration in Chemistry 410A, 432, 432L.

The structure, function, metabolism, and thermodynamic relationships of chemical entities in living systems. Not open to students with credit in Chemistry 365. (Formerly numbered Chemistry 560A.)

**CHEM 562. Intermediary Metabolism (2)**

Prerequisite: Chemistry 365 or 560.

Catabolic and biosynthetic pathways of carbohydrate, lipid, amino acid, and nucleotide metabolism; TCA cycle, mitochondrial and chloroplast electron transport chains, ATP generation and their interactions and control. Not open to students with credit in Chemistry 361.

**CHEM 563. Nucleic Acid Function and Protein Synthesis (2)**

Prerequisite: Chemistry 365 or 560.

DNA replication, RNA transcription, RNA processing, and protein translation, including chemical mechanisms of synthesis and cellular mechanisms of regulating gene expression; genomics, recombinant DNA, and DNA topology. Not open to students with credit in Chemistry 361.

**CHEM 564. Receptor Biochemistry and Protein Modification (2)**

Prerequisite: Chemistry 365 or 560.

Biochemical study of receptors, second messengers, and cellular proteins that participate in extracellular and intracellular communication, with focus on protein structures, post-translational modifications, and biochemical mechanisms that regulate receptors and effector enzymes.

**CHEM 567. Biochemistry Laboratory (3)**

One lecture and six hours of laboratory.

Prerequisite: Chemistry 560.

Theory and practice of procedures used in study of life at molecular level. Includes purification and characterization of enzymes, isolation of cell components, and use of radioactive tracer techniques.

**CHEM 571. Environmental Chemistry (3)**

Prerequisites: Chemistry 232, 232L, 251; consent of instructor for all other majors.

Fundamentals of chemistry applied to environmental problems. Chemistry of ecosystems; analysis of natural constituents and pollutants; sampling methods; transport of contaminants; regulations and public policy.

**CHEM 596. Advanced Special Topics in Chemistry (1-3)**

Prerequisite: Consent of instructor.

Advanced selected topics in modern chemistry. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

# Chicana and Chicano Studies

In the College of Arts and Letters

**OFFICE: Arts and Letters 348**

**TELEPHONE: 619-594-6452**

## Faculty

Emeritus: Griswold del Castillo, Rodriguez, Villarino

Chair: Del Castillo

Professors: Hicks, Ortiz

Associate Professors: de la Luz Ibarra, Del Castillo, Iglesias Prieto

Assistant Professor: González-Rivera

## Offered by the Department

Master of Arts degree in Chicana and Chicano studies.

Major in Chicana and Chicano studies with the B.A. degree in liberal arts and sciences.

Minor in Chicana and Chicano studies.

Minor in United States-Mexican border studies.

Certificate in United States-Mexico border studies.

## The Major

Recognized for its commitment to excellence in teaching, research and service, Chicana and Chicano studies provides timely, interdisciplinary education regarding the nation's fast-growing ethnic group, the Chicano/Latino, and the interplay of culture, politics, economics and society in the dynamic U.S.-Mexican border region. The Department of Chicana and Chicano Studies also endeavors to contribute to the development of knowledge about the Chicano/Latino populations and the border region through original scholarship on the part of its faculty and students. The department recognizes women and gender based issues as integral to a Chicano studies program. In 1993, the department inaugurated the Magdalena Mora Award to be awarded to the winner of the outstanding history essay in Mexicana/Chicana women at the undergraduate level.

Chicana and Chicano studies majors may choose courses designed to increase the student's awareness of the regional diversity of Chicana and Chicano communities, as well as intellectual, aesthetic, literary, historical, ethical, and human values. They may also select courses which analyze social institutions and how they affect the individual and emphasize contemporary Chicana and Chicano issues as they relate to the larger society. Students may also take courses focusing on the social, economic, and human dimensions of the U.S. Mexican border as it affects Mexican origin populations in the United States. Areas of study include political science, anthropology, economics, sociology, and history.

Bilingual/bicultural graduates are sought after more than ever before. A student with a major or minor in Chicana and Chicano studies has a good possibility of securing a position and advancing. Although employment opportunities in regular classroom teaching and other careers have remained fairly constant, the number of positions for bilingual/bicultural graduates has continued to increase.

Chicana and Chicano studies is also an excellent major as preparation for postgraduate study in the department's master's program and in various professional schools. For example, students can continue their studies for advanced degrees in law, with positions specializing in minority or barrio problems; social work, as a medical or psychiatric social worker in a minority community; public administration; librarianship; and business administration, with careers in accounting, marketing, bank management, and insurance.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Chicana and Chicano Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 22131) (SIMS Code: 114905)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in Chicana and Chicano studies courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Chicana and Chicano Studies 110 and 150. (6 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Students are encouraged to satisfy this language requirement in Spanish. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Chicana and Chicano Studies 301, 340A, 355, 376, 396W, 410; Chicana and Chicano Studies 375 or 498; three units from each of the following four areas; and an additional three units from one of the four areas or from Chicana and Chicano Studies 496, 497, 499, 596.

**Expressive Arts, Culture, Representation:** Chicana and Chicano Studies 310, 335, 400, 450.

**Gender and Sexuality:** Chicana and Chicano Studies 340B; Women's Studies 512.

**Global and Border Studies:** Chicana and Chicano Studies 306, 375 (when not taught as Study Abroad), 380, 554, 595; History 551.

**Power, History, and Community:** Chicana and Chicano Studies 303, 320, 350A, 350B, 480.

## Chicana and Chicano Studies Minor

**(SIMS Code: 114905)**

The minor in Chicana and Chicano studies consists of a minimum of 18 units in Chicana and Chicano studies to include Chicana and Chicano Studies 110 and 150; and 12 units of upper division courses selected from one area of specialization (social sciences) Chicana and Chicano Studies 301, 303, 306, 320, 340A, 340B, 350A-350B, 355, 480, 497, 498; or (humanities) Chicana and Chicano Studies 310, 335, 375, 376, 380, 396W, 400, 497, 498; or (border studies) Chicana and Chicano Studies 306, 355, 375, 380, 497, 498, Economics 565, History 551, Political Science 568. Up to six units, with appropriate content, can be applied to each area of specialization from Chicana and Chicano Studies 496, 499, and 596.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

CCS

## United States-Mexican Border Studies Minor

(SIMS Code: 114902)

The minor in United States-Mexican Border Studies consists of a minimum of 22 units: Spanish 201 and 12 units in upper division courses to include Chicana and Chicano Studies 355, and six units selected from Chicana and Chicano Studies 306, 310, 375, 376, 380.

The following additional nine units must be taken to complete the minor:

**International Economic/Business:** Three units selected from Economics 360, 365, 458, 565; Finance 329; Marketing 376.

**Regional Geography/History and Politics/Society:** Six units selected from Geography 323; History 550, 551; Journalism and Media Studies 591; Political Science 555, 568; Social Work 350; Sociology 335, 350, 355.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## United States-Mexico Border Studies Certificate

(Certificate Code: 90018) (SIMS Code: 118701)

The United States-Mexico Border Studies Certificate program is an interdisciplinary program integrating border studies courses from academic units throughout the campus. The objective of the program is to train students from diverse academic backgrounds within a multi-disciplinary border studies curriculum that provides direct experience in border institutions and policy issues in both the public and private sectors. The program requires 21 units and a level of Spanish proficiency, 3 on a scale of 5, as indicated on the Foreign Service Language Examination. Students must apply for admission to the program before the completion of nine certificate units and are required to plan their program with an adviser. Contact the Department of Chicana and Chicano Studies.

Required courses: Chicana and Chicano Studies 355 and three units of an internship, either Chicana and Chicano Studies 498 or an internship from the student's major if it is carried out as a border-oriented internship.

Fifteen units selected from the following areas, at least three units from each area. In addition to the courses listed and with the approval of the adviser, students may take border-related courses from other areas, but no more than six units can be from a single department. Courses in the certificate may not be counted toward the minor.

**Evolution of Social and Environmental Regions:** Chicana and Chicano Studies 375; Geography 496; History 551.

**Political and Economic Systems:** Chicana and Chicano Studies 306; Economics 458, 496, 565; Political Science 568.

**Cultural and Social Institutions:** Chicana and Chicano Studies 376; Education 451.

**Special Problems/Human Services:** Chicana and Chicano Studies 496, Border Research Topics.

## Courses (ccs)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### CCS 100. Chicana and Chicano Heritage (3) [GE]

Cultural achievements and thought of Spanish speaking peoples of North America; development of aesthetic and ethical values. North American intellectual history and influence of philosophical orientations of native and Mestizo peoples. Implications for social change.

#### CCS 110. Introduction to Chicana and Chicano Studies (3)

Origins, evolution, and current status of Chicana and Chicano studies. Research, theories, methods, and debates in and impact of the field. Current intellectual trends, scholar activism, and societal developments with implications for field. Career pathway possibilities.

#### CCS 111A. Oral Communication (3) [GE]

Training in the process of oral (speech) expression: addressing the barrio: formal delivery. Chicana and Chicano Studies 111A is equivalent to Communication 103. Not open to students with credit in Africana Studies 140 or Communication 103 or 204.

#### CCS 111B. Written Communication (3) [GE]

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements. (See Graduation Requirements section of catalog.) **Proof of completion of prerequisites required:** Copy of EPT or competency scores or verification of exemption; or proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

Training for students in written expression. English grammar and composition; the essay, the term paper. Chicana and Chicano Studies 111B is equivalent to Rhetoric and Writing Studies 100. Not open to students with credit in a higher-numbered composition course or Africana Studies 120 or American Indian Studies 120 or English 100 or Linguistics 100 or General Studies 260A or Rhetoric and Writing Studies 100 or 101.

#### CCS 120A-120B. Chicana and Chicano Role in the American Political System (3-3) [AI]

Semester I: Relationship between Chicana and Chicano community and American political system. Semester II: The Chicana and Chicano in relation to city, county, and state institutions in California. This year-long course satisfies the graduation requirement in American Institutions.

#### CCS 141A-141B. History of the United States (3-3) [AI]

Spanish, Mexican, and Chicano influences on US history. Semester I: Comparative development of US and Mexico to 1865. Semester II: Mexican Americans in US history; US and Mexican national histories compared from 1865 to the present. This year-long course satisfies the graduation requirement in American Institutions.

#### CCS 150. Critical Issues in Chicana Studies (3)

Critical themes in Chicana feminist scholarship: power and resistance; work, family, and culture; cultural representations and presentations; social and biological reproduction.

#### CCS 200. Intermediate Expository Research and Writing (3) [GE]

Especially designed for bilingual/bicultural students.

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements and Chicana and Chicano Studies 111B or Africana Studies 120 or American Indian Studies 120 or English 100 or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Intermediate composition. Practice in reading, writing, and critical thinking using interdisciplinary sources. Research skills using primary and secondary sources. Argumentative writing skills. Not open to students with credit in Africana Studies 200, English 200, General Studies 260D, Linguistics 200, or Rhetoric and Writing Studies 200.

#### CCS 255. Introduction to Nahuatl (3)

Language of the Aztecs, Nahuatl vocabulary and grammar. Colonial and modern texts and translations. Cultural context of language. Relation of Nahuatl to Chicana and Chicano identity.

#### CCS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**CCS 301. Political Economy of the Chicano People (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Chicana and Chicano Studies 110.

Political and economic roots of the oppression and exploitation of the Chicano from historical, institutional and theoretical points of view. Parallels between the experience of the Chicano and other Hispanic groups.

**CCS 303. Chicana and Chicano Community Studies (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Chicana and Chicano Studies 110.

Chicana and Chicano communities from a comparative perspective. Systematic inquiry into methods and issues in community studies. Contemporary social, institutional, and political affairs.

**CCS 306. Mexican Immigration (3)**

Immigration from Mexico in the context of US immigration history and policies. Comparative study of political, economic, and cultural factors. Undocumented immigration and current US law.

**CCS 310. Mexican and Chicano Music (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Music of Mexico and the Southwest including folk dances appropriate for children and adults. Emphasis on the corrido, its history and development in Mexico and the US. Course will be taught bilingually.

**CCS 320. Chicana and Chicano Life Styles (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Social relations and cultural evolution in Chicana and Chicano community, female-male relationships, and family. Influence of Spanish-Mexican cultural heritage and US industrial-capitalist society. Comparative cross-cultural social science methodology.

**CCS 335. Chicana and Chicano Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Ideas, forms, history of significant Chicana and Chicano prose, poetry and other literary genres.

**CCS 340A. Mexican Women in Historical Perspective:  
PreColumbian to 1848 (3)**

Prerequisites recommended: Chicana and Chicano Studies 111B and upper division standing.

History of Mexican women before, during, and after Spanish conquest; women's lives after Mexican independence up until war with US. Covers race, class, religion, sexuality, and important female historical figures. (Formerly numbered Chicana and Chicano Studies 340.)

**CCS 340B. Chicana Women's History: 1848-Present (3)**

Prerequisites recommended: Chicana and Chicano Studies 111B and upper division standing.

History of Chicanas in US from 1848 to present focusing on impact of Mexican American War, important female historical figures, and issues related to race, class, religion, and sexuality.

**CCS 350A-350B. Chicana and Chicano History (3-3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Semester I: Review of indigenous origins; Hispanic institutions and northward expansion; the Mexican Republic; attention to women's socio-economic status and significance. Semester II: US encroachment and the US/Mexican War; Chicana and Chicano contributions; the multilingual and multicultural Southwest.

**CCS 355. The United States-Mexico International  
Border (3) [GE]**

Prerequisites: Upper division standing; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

History, culture, economics, and politics of US/Mexico border region. Theories and policy issues surrounding development of region; local regional problems and major agencies, institutions, organizations addressing these problems.

**CCS 375. US/Mexico Border History (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Chicana and Chicano Studies 110.

Historical problems and movements in the US/Mexico border region, in particular those impacting Spanish-speaking populations on both sides of the border. Contemporary border issues from a historical perspective.

**CCS 376. Chicana and Chicano Culture and Thought (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Intellectual history of the Chicana and Chicano as a synthesis of different cultural traditions and perspectives. Philosophical concepts from pre-Cortesian times to the present.

**CCS 380. US/Mexico Borderlands Folklore (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Chicana and Chicano Studies 110.

Border folklore, its complexities and dynamics via myths, rituals, legends, sayings, corridos (ballads), and literature of Chicanos and Mexicanos in the US/Mexico border region.

**CCS 396W. Chicana and Chicano Prose (3)**

Prerequisite: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units, completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281; and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisite required:** Test scores or verification of exemption; copy of transcript.

A writing workshop. Mutual criticism. Exploration of new form and content in Mexican American prose. Maximum credit six units.

**CCS 400. Mexican Images in Film (3) [GE]**

Prerequisite: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Comparative study of images presented by Hollywood, Mexican, and Chicano cinemas. Critical analysis and discussion of projected values. Comparison of themes in film and text.

**CCS 410. Capstone: Critical Discourse in Chicana and Chicano  
Studies (3)**

Prerequisites: Senior standing. Open only to Chicana and Chicano Studies majors.

Ethical and substantive issues and themes pertinent to borderland communities in US/Mexico region.

**CCS 450. Contemporary Chicana and Chicano Theatre (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Contemporary Chicano theatre including works by people of Puerto Rican, Cuban American, and other Latin American origins in the United States.

**CCS 480. Chicanas and Chicanos and the Schools (3)**

Prerequisite recommended: Chicana and Chicano Studies 110.

The Chicana and Chicano child's experience in the school system from preschool through high school with emphasis on social, intellectual and emotional growth and development.

CCS



**CCS 496. Selected Topics in Chicana and Chicano Studies (1-3)**

Selected topics in Chicana and Chicano studies. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**CCS 497. Senior Thesis (3)**

Prerequisites: Senior standing. Open only to Chicana and Chicano Studies majors and consent of department.

Faculty supervised independent study culminating in a research paper or project on history, ethos, and social perspectives of Chicana and Chicano studies and indicative of scholarly interest in continued learning.

**CCS 498. Internship in US-Mexico Border (3)**

Nine to twelve hours per week plus four class meetings.

Prerequisites: Upper division standing, Chicana and Chicano Studies 355, and consent of instructor.

Internship in public or private sector institution, agency, or organization engaged in US-Mexico binational relations or border-related issues. Meets requirements for United States-Mexico Border Studies certificate program.

**CCS 499. Special Study (1-3)**

Prerequisites: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

**CCS 525. Race in Mexico: From Conquest to the Revolution (3)  
(Same course as Latin American Studies 525)**

Prerequisite: Upper division or graduate standing.

Ways race and racial identities have been constructed in Mexico from early 1500s through 1940. Caste system, ideologies of mestizaje and indigenismo and their impact on revolutionary nationalism.

**CCS 554. United States-Mexico Transborder Populations and Globalization (3)  
(Same course as Sociology 554)**

Prerequisite: Sociology 101. Recommended: Chicana and Chicano Studies 355 and/or Sociology 350.

Sociology of the population at the US-Mexico border region. Demographic dynamics and social change in border communities. International migration and transmigration. Transborder families and transnational families. Gender systems and women's reproductive health in border communities.

**CCS 595. US/Mexico Border Field Experience (3)**

Prerequisites: Six upper division units in Chicana and Chicano studies or graduate standing. Working knowledge of Spanish and consent of instructor.

Field work in US-Mexico border area. Visits to border institutions in Tijuana and San Diego. Dynamics of postmodernity and globalization. Multidisciplinary and critical study of US-Mexico border through research and experience. Classes meet in US and Mexico.

**CCS 596. Topics in Chicana and Chicano Studies (1-3)**

Prerequisite: Consent of instructor.

Advanced topics in Chicana and Chicano studies. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Child and Family Development

In the College of Education

**OFFICE:** Education and Business Administration 403  
**TELEPHONE:** 619-594-5380 / **FAX:** 619-594-5921  
**E-MAIL:** [cfdev@mail.sdsu.edu](mailto:cfdev@mail.sdsu.edu)

## Faculty

Emeritus: Balkwell, Cannon, Dorris, Deutsch, Hewes, Ross  
Chair: Ritblatt  
Professor: Roberts  
Associate Professors: Hokoda, Ritblatt  
Assistant Professor: Kay  
Lecturers: Booth, Gardner

## Offered by the Department

Master of Science degree in child development.  
Major in child development with the B.S. degree in applied arts and sciences.  
Minor in child development.  
Certificate in early childhood-socio-emotional and behavior regulation intervention (refer to the *Graduate Bulletin*).  
Certificate in family life education.

## The Major

The interdisciplinary major in child development draws from many fields of study, including biology, psychology, and sociology, and prepares students for a variety of professional specialties. Graduates with competencies in this major find positions in preschools, child care centers, schools, hospitals, clinics, residential institutions, counseling centers, mental health centers, social services and public welfare agencies, family service agencies, family planning clinics, community programs, business and industry, and government agencies.

Field experience programs offer students supervised work in community agencies, children's programs, the SDSU Children's Center, and San Diego City Schools. All children's programs are mainstreamed and a wide range of special needs and at-risk populations are served.

The child development degree also provides a flexible curriculum base for continuation into graduate programs in child development or family relations. Majors may also continue graduate work in related fields such as marriage and family therapy; speech, occupational and physical therapy; social work; psychology; law; or sociology. Also available are programs leading to the multiple subject and single subject teaching credentials, the community college teaching credential, and a specialist credential in either special education or early childhood education.

The child development minor is an important adjunct for students in areas such as anthropology, education, nursing, psychology, recreation, social work, and sociology.

## Impacted Program

The child development major is an impacted program. To be admitted to the child development major, students must meet the following criteria:

- Complete with a grade of C or higher: Child and Family Development 135, 270, 270L (1 unit), 272, 275; Biology 100; Psychology 101; Sociology 101; and Psychology 280, or Sociology 201, or a three unit elementary statistics course. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 45 baccalaureate level semester units (a minimum of 60 units are required for all transfer applicants);
- Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

CFD

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Child Development Major

**With the B.S. Degree in Applied Arts and Sciences**  
**(Major Code: 08231) (SIMS Code: 330909)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Child and Family Development 135, 270, 270L (1 unit), 272, 275; Biology 100; Psychology 101; Sociology 101; Psychology 280, or Sociology 201, or a three unit elementary statistics course. (25-26 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 49 upper division units to include Child and Family Development 335, 353A, 353B, 353C, 370, 375A, 375B, 375C, 475, 537, 560, 575, 578, 590, and one of the two specializations listed below.

**Child Development Specialist:** Child and Family Development 377, 378A (1 unit), and 378B (1 unit) or 378D (1 unit), 380, 477, and 577.

**Family Development Specialist:** Child and Family Development 378C (1 unit), 378D (1 unit), 536, and nine units selected with the approval of the program adviser.

## Child Development Minor

**(SIMS Code: 330909)**

The minor in child development consists of a minimum of 19 units to include Child and Family Development 270, 270L (1 unit), Psychology 101, and 12 upper division units selected from Child and Family Development courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Family Life Education Certificate

**(Certificate Code: 90004) (SIMS Code: 662925)**

The purpose of this certificate program is to prepare students for careers in Family Life Education (FLE). FLE is an educational program designed to strengthen relationships in the home and foster positive individual, couple, and family development. The program is designed for individuals working on degrees in child development, health science, psychology, and social work. It also provides a self-improvement opportunity for people seeking employment, promotion, or upward mobility on the job who are not enrolled in degree programs. The certificate corresponds to the 10 content areas of FLE established by the National Council on Family Relations (NCFR): 1) Families and

Individuals in Societal Contexts; 2) Internal Dynamics of Families; 3) Human Growth and Development Across the Life Span; 4) Human Sexuality; 5) Interpersonal Relationships; 6) Family Resource Management; 7) Parent Education and Guidance; 8) Family Law and Public Policy; 9) Professional Ethics and Practice; 10) Family Life Education Methodology.

Awarding of the certificate requires completion of an approved pattern of five to six courses (15-18 units) with a grade of "C" or better in each of the courses in one of the 10 areas of FLE. Each area requires the student to take a core of nine units to include Child and Family Development 270+ or Psychology 230+; Child and Family Development 335; Child and Family Development 375B or 375C; Child and Family Development 378B, or 378C or 378D, and two or three additional courses specific to the selected area. The course offerings in each area prepare students for advanced knowledge in that area. For example, courses for the Human Sexuality area meet the criteria for training and standards of the American Association of Sex Educators and Counselors. Contact the department for a full list of required courses for all 10 areas of FLE. A 45 hour internship specific to the chosen content area is required. Courses in the certificate may not be counted toward the minor.

+Indicates course with prerequisites not included in requirements listed above.

## Courses (CFD)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### CFD 135. Principles of Family Development (3) [GE]

Intimacy, compatibility, conflict, and communication in relationship formation and adjustment.

#### CFD 170. Child and Adolescent Development from a Cultural Perspective (3) [GE] (Same course as Teacher Education 170)

Theories of human development using a cultural/ecological framework applied to case studies and direct observations. Open only to liberal studies majors. Not open to students with credit in Child and Family Development 270, Psychology 230, or Teacher Education 170.

#### CFD 270. Human Development Across the Lifespan (3)

Prerequisites: Psychology 101; concurrent registration in Child and Family Development 270L for one unit. **Proof of completion of prerequisite required:** Copy of transcript.

Development from conception to old age; emphasis on biological, cognitive, and socio-emotional development. Not open to students with credit in Child and Family Development 170, Psychology 230, or Teacher Education 170.

#### CFD 270L. Principles of Child Development Laboratory (1-3)

Three hours of laboratory for each unit.

Prerequisites: Psychology 101; credit or concurrent registration in Child and Family Development 270. **Proof of completion of prerequisite required:** Copy of transcript.

Multiple methods of observing and recording individual and group behavior of children. Observations required. May be repeated with consent of instructor. Maximum credit three units.

#### CFD 272. Child, Family, Community (3)

Prerequisites: Child and Family Development 135, 270, 270L (one unit); Sociology 101. **Proof of completion of prerequisites required:** Copy of transcript.

Individual and family needs and the social institutions and agencies attempting to meet these needs. Social issues, service programs, program analyses, and program effectiveness emphasized.

#### CFD 275. Developmentally Appropriate Practices (3)

Two lectures and two hours of activity.

Prerequisites: Child and Family Development 270, 270L (one unit).

#### **Proof of completion of prerequisites required:** Copy of transcript

Design, implementation, and evaluation of developmentally appropriate practices for children and families.

#### CFD 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### CFD 335. Interaction in Families (3)

Prerequisite: Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Family interaction patterns throughout the life cycle in a multicultural society. Emphasis on theories, research findings, and family practices.

#### CFD 353A. Parenting the Young Child (1)

Prerequisites: Child and Family Development 135, 270, 270L (one unit).

Parenting from conception to age five. Attachment, temperament, behavior regulation in cultural context. Effects of parenting styles and interactions on child's developmental outcomes.

#### CFD 353B. Parenting the School-Age Child (1)

Prerequisites: Child and Family Development 135, 270, 270L (one unit).

Parenting the school-age child (ages 5-12). Developmental tasks, parent-child relationship, parenting styles, parents' role as managers, parent involvement in education. Boundaries and behavioral guidelines to raise an emotionally competent child.

#### CFD 353C. Parenting the Teen and Young Adult (1)

Prerequisites: Child and Family Development 135, 270, 270L (one unit).

Theories and research on parenting teens and young adults within cultural contexts. Effects of parent-child relationship, parenting styles and discipline on identity formation, separation individuation, and intimacy.

#### CFD 370. Research, Assessment, and Evaluation of Children and Families (3)

Prerequisite: Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Methods for measuring child, caregiver, and family behavior. Evaluation of reliability and validity. Includes research design, sampling techniques, data collection strategies, and values/ethics.

#### CFD 375A. Human Development: Infant/Toddler (2)

Prerequisites: Credit or concurrent registration in one of two required Child and Family Development 378 laboratory courses in area of specialization, selected with consent of adviser. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Physiological, psychological, cognitive, and socio-emotional development of the human organism in cultural contexts from conception to three years of age.

#### CFD 375B. Human Development: Early/Middle Childhood (2)

Prerequisites: Credit or concurrent registration in one of two required Child and Family Development 378 laboratory courses in area of specialization, selected with consent of adviser. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Physiological, psychological, cognitive, and socio-emotional development of the human organism in cultural contexts from age 3 to age 12. Not open to students with credit in Child and Family Development 371 and 375.

**CFD 375C. Human Development: Adolescence/Adulthood (2)**

Prerequisites: Credit or concurrent registration in one of two required Child and Family Development 378 laboratory courses in area of specialization, selected with consent of adviser. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Physiological, psychological, cognitive, and socio-emotional development of the human organism in cultural contexts from age 12 to old age. Not open to students with credit in Child and Family Development 371 and 375.

**CFD 377. Adult Supervision in Child and Family Development Programs (3)**

Prerequisites: Child and Family Development 375A, 375B; and two units selected from Child and Family Development 378A, 378B, or 378D. **Proof of completion of prerequisites required:** Copy of transcript.

Development of leadership, communication, conflict resolution, and supervision of professionals in child and family development programs.

**CFD 378A. Laboratory Experiences: Infants/Toddlers (1-3) Cr/NC**

Three hours of laboratory for each unit of credit.

Prerequisites: Concurrent registration in Child and Family Development 375A. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Directed experiences in mainstream settings for infants and toddlers. Designing and implementing developmentally appropriate activities. Maximum credit three units with consent of instructor.

**CFD 378B. Laboratory Experiences: Preschool/Kindergarten (1-3) Cr/NC**

Three hours of laboratory for each unit of credit.

Prerequisites: Credit or concurrent registration in Child and Family Development 375B. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Directed experiences in mainstream settings for children ages 3 to 6, preschool, and kindergarten children. Designing and implementing developmentally appropriate activities. Maximum credit three units with consent of instructor. Not to exceed three units of credit in any combination with Child and Family Development 376A completed prior to fall 2006.

**CFD 378C. Laboratory Experiences: Age 6 Through Adolescence (1-3) Cr/NC**

Three hours of laboratory for each unit of credit.

Prerequisites: Credit or concurrent registration in Child and Family Development 375B or 375C. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Directed experiences in mainstream settings for children age six through adolescence. Designing and implementing developmentally appropriate activities. Maximum credit three units with consent of instructor.

**CFD 378D. Laboratory Experiences with Children and Families (1-3) Cr/NC**

Three hours of laboratory for each unit of credit.

Prerequisites: Credit or concurrent registration in Child and Family Development 375A, 375B, or 375C. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Directed experiences in intergenerational programs. Designing and implementing developmentally appropriate interactions for children and their families/caregivers. Maximum credit three units with consent of instructor.

**CFD 380. Early Literacy Development and School Readiness (3)**

Prerequisites: Child and Family Development 375A and 375B; and Child and Family Development 378A or 378B or 378D. Completion of all lower division preparation for the major courses with a grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Early development of language, baby signs, literacy, and school readiness. Focus on brain, cognition, and socio-emotional development. Applications of developmentally appropriate practice to enhance literacy and school readiness.

**CFD 437. Violence in Relationships (3) [GE]**

Prerequisites: Psychology 101, Sociology 101, and completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.

Impact of relationship violence on individual development and ecological relationships. Historical and cultural contexts, child abuse and neglect, courtship violence, elder abuse, and violence in communities.

**CFD 475. Promoting Behavior Support and Classroom Organization in Early Childhood Settings (3)**

Prerequisites: Child and Family Development 353A, 353B, 353C, 375A, 375B, 375C, and two units selected from Child and Family Development 378A, 378B, 378C, or 378D.

Individual and systems-level approach to supporting young child behavior. Strategies for self-regulation, and three-tiers intervention, in early education settings and at home, to support all children, a targeted group of children who require additional support, and individual children who require intensive support.

**CFD 477. Administration of Child Development Programs (3)**

Prerequisites: Child and Family Development 375A, 375B, 380; and two units selected from Child and Family Development 378A, 378B, or 378D. **Proof of completion of prerequisite required:** Copy of transcript.

Programs for young children: design, implementation, and evaluation. Research applications and legal requirements for public and private sectors.

**CFD 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**CFD 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**CFD 536. Divorce and Remarriage (3)**

Prerequisites: Child and Family Development 335 and Sociology 101. **Proof of completion of prerequisites required:** Copy of transcript.

Integration of family theories and research findings. Emphasis on adjustment to divorce and remarriage throughout life cycles, across cultures, social classes, and ethnicities.

**CFD 537. Child Abuse and Family Violence (3)**

Prerequisites: Child and Family Development 375A, 375B, 375C, and two units from Child and Family Development 378A, 378B, 378C, 378D. **Proof of completion of prerequisites required:** Copy of transcript.

Multidisciplinary approach to child abuse and family violence including maltreatment, mistreatment, neglect, sexual abuse.

### **CFD 560. Theories in Socio-Emotional Development (3)**

Prerequisites: Child and Family Development 375A, 375B, 375C, 475, and two units from Child and Family Development 378A, 378B, 378C, 378D. **Proof of completion of prerequisites required:** Copy of transcript.

Socio-emotional development from infancy to adulthood. Theory of mind, emotional intelligence, and relationship-based development.

### **CFD 575. Public Policy and Professional Ethics in Child and Family Development (3)**

Prerequisites: Child and Family Development 375A, 375B, 375C, two units from Child and Family Development 378A, 378B, 378C, 378D, and Child and Family Development 536 or 537 or 590. **Proof of completion of prerequisites required:** Copy of transcript.

Public policy and professional ethics as applied to child and family development, programs, and research.

### **CFD 577. Advanced Administration of Child Development Programs (3)**

Prerequisite: Child and Family Development 477. **Proof of completion of prerequisite required:** Copy of transcript.

Problem analysis and development of successful organizational strategies for child development program delivery. Leadership, effective communication, social and ethical issues from a multicultural perspective.

### **CFD 578. Conflict Resolution Across the Life Span (4)**

Three lectures and three hours of laboratory.

Prerequisites: Child and Family Development 335, 370, 375A, 375B, 375C, 475, two units from Child and Family Development 378A, 378B, 378C, 378D, and Child and Family Development 537 and 560 with an overall grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Theories of conflict development and resolution across lifespan. Parenting styles, discipline, behavior and class management, and conflict resolution techniques used in relationships. Directed experiences using conflict resolution techniques in various settings.

### **CFD 590. Children with Special Needs (4)**

Three lectures and three hours of laboratory.

Prerequisites: Child and Family Development 270 or Psychology 230, Child and Family Development 353A, 353B, 353C, and completion of 12 upper division units in child and family development with a grade of C (2.0) or better for majors; consent of instructor for graduate students. **Proof of completion of prerequisites required:** Copy of transcript.

Adaptive and maladaptive processes throughout life span with emphasis on emotional, psychological, and physical disorders. Etiology, development, and adjustment. Directed experience with special needs individuals and their families.

### **CFD 596. Advanced Studies in Child and Family Development (1-6)**

Prerequisite: Nine upper division units in child and family development.

Advanced study of selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596. No more than six units of 596 may be applied to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

## **GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Chinese

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

CHIN

**OFFICE: Education and Business Administration 334**  
**TELEPHONE: 619-594-5268 / FAX: 619-594-4877**  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**  
**<http://www-rohan.sdsu.edu/dept/chinese>**

## Faculty

Emerita: Woo  
Chair: Osman  
Associate Professors: Wu, Zhang

**Offered by the Department of  
Linguistics and Asian/Middle Eastern Languages**  
Minor in Chinese.

## Offered by International Business

Major in international business, with emphasis in Chinese.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Chinese to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Chinese 201 or the equivalent level of achievement. The usual sequence of coursework is Chinese 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Chinese Minor

**(Minor Code: 11099) (SIMS Code: 111201)**

The minor in Chinese consists of a minimum of 19 units in Chinese; at least 16 units must be taught in Chinese, of which six units must be in upper division courses. The remaining three units may be selected from additional Chinese language courses or selected from Art 263, Asian Studies 451, 458, 459, Comparative Literature 451, 455, History 566, 567, either Linguistics 420 or 520, Philosophy 351, Religious Studies 345.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and General Education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (CHIN)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Mandarin Chinese will not receive credit for taking lower division courses except with advance approval from the department.**

**All lower division courses in Chinese are taught in Chinese.**

**No credit will be given for lower division courses taken after successfully completing any upper division Chinese course taken in Chinese.**

**No credit will be given for Chinese 101, 102, 201, 202 taken out of sequence or concurrently.**

#### CHIN 101. Elementary Chinese I (5) [GE]

Five lectures and one hour of laboratory.

Rudiments of Mandarin pronunciation; listening, speaking, reading, and writing with emphasis on communicative ability; acquisition of the most useful phrases and vocabulary items, and over 300 characters; familiarity with basic sentence structures of Mandarin; information on Chinese culture. Not open to students who have completed three years of high school Chinese unless the third course was completed five or more years ago. See *Class Schedule* for appropriate section based on your background in Chinese.

#### CHIN 102. Elementary Chinese II (5) [GE]

Five lectures and one hour of laboratory.

Prerequisite: Chinese 101.

Continuation of Chinese 101, including acquisition of an additional 300 characters. Further development of language competence. Not open to students who have completed four years of high school Chinese unless the fourth course was completed five or more years ago. See *Class Schedule* for appropriate section based on your background in Chinese.

#### CHIN 201. Intermediate Chinese I (5) [GE]

Five lectures and one hour of laboratory.

Prerequisite: Chinese 102.

Development of facility to comprehend and produce spoken Chinese. Acquisition of advanced language structures and an additional 400 characters. Emphasis on connected discourse. See *Class Schedule* for appropriate section based on your background in Chinese.

#### CHIN 202. Intermediate Chinese II (5) [GE]

Five lectures and one hour of laboratory.

Prerequisite: Chinese 201.

Continuation of Chinese 201. Reading of contemporary work and writing of short passages in Chinese. Acquisition of an additional 400 characters. See *Class Schedule* for appropriate section based on your background in Chinese.

#### CHIN 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**All upper division courses in Chinese are taught in Chinese unless otherwise stated.**

**No credit will be given for Chinese 301 and 302 taken out of sequence.**

**CHIN 301. Advanced Chinese I (3) [GE]**

Prerequisites: Chinese 202 and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Greater facility in oral expression and writing for practical purposes; exposure to various styles of language; newspaper and media Chinese; elements of literary and classical language.

**CHIN 302. Advanced Chinese II (3) [GE]**

Prerequisites: Chinese 301 and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Continuation of Chinese 301. Writing paragraphs and longer expository texts. Reading modern and classical literature.

**CHIN 352. Aspects of Chinese Language (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities. Strongly recommended: A course in foreign language or linguistics.

Relationship with other languages; dialects, their development and relationship to Mandarin; writing system and its evolution; Romanization schemes; structural and socio-cultural aspects, especially as they differ from English; unique problems of learning the language. Taught in English.

**CHIN 353. Language, Discourse, and Social Relations in China (3)**

Prerequisite: A course in a foreign language (preferably Chinese) or linguistics.

Stereotypes and empirical findings of interface between language use and social behavior in China. Confucianism and Cultural Revolution; personal relationships and hierarchical structure; characteristics of Chinese language and interaction; politeness in everyday social encounters in China; cultural miscommunication. Taught in English.

**CHIN 431. Advanced Conversational Chinese (3)**

Prerequisite: Credit or concurrent registration in Chinese 302.

Conversation practice on practical, social, and cultural topics, with aid of spoken language materials such as plays and videotapes; learning conversational strategies and stylistic features.

**CHIN 433. News Media Chinese (3)**

Prerequisite: Credit or concurrent registration in Chinese 302.

Understanding Chinese newspapers and other non-print media materials; special structural characteristics; differences between media types and between speech and writing; reading strategies using schemas and contextual inferences; importance of world knowledge and background information.

**CHIN 434. Business Chinese (3)**

Prerequisite: Credit or concurrent registration in Chinese 302.

Developing ability to function in Chinese business environment; familiarity with business correspondence, telecommunication, advertising, business terminology and stylistic features, information on intercultural communication, social and cultural background.

**CHIN 451. Readings in Modern Chinese Literature (3)**

Prerequisite: Chinese 302.

Fiction, prose, poems, and plays written after May Fourth Movement in 1911, which marked beginning of vernacular literature.

**CHIN 496. Topics in Chinese Studies (1-4)**

Topics in Chinese language, literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units.

**CHIN 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

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# Civil Engineering

In the College of Engineering

**OFFICE:** Engineering 424

**TELEPHONE:** 619-594-6071

**E-MAIL:** [ce@engineering.sdsu.edu](mailto:ce@engineering.sdsu.edu)

The undergraduate degree in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410- 347-7700.

## Faculty

Emeritus: Banks, Chang, Chou, Johnson, Krishnamoorthy, McGhie, Noorany, Sharabi

Chair: Supernak

The AGC Paul S. Roel Chair in Construction Engineering and Management: Walsh

The William E. Leonhard, Jr. Chair in Civil, Construction, and Environmental Engineering:

Professors: Bayasi, Hayhurst, Ponce, Supernak, Walsh, Westermo

Associate Professors: Beighley, Valdes

Assistant Professors: Dowell, Kostic, Milberg

Adjunct: Eggert, Penchina, Won

## Offered by the Department of Civil, Construction, and Environmental Engineering

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in civil engineering.

Concentration in environmental engineering.

Major in civil engineering with the B.S. degree.

Major in construction engineering with the B.S. degree.

Major in environmental engineering with the B.S. degree.

## The Associated General Contractors (AGC) Paul S. Roel Chair in Construction Engineering and Management

The AGC Paul S. Roel Chair in Construction Engineering and Management is funded with an endowment established by generous gifts from members of the Associated General Contractors in San Diego Chapter. Recognizing the need for expert construction professionals, the local construction community has invested considerable resources in this new degree program. In particular, the endowment is funded by a significant gift from Roel Construction, in honor of Paul S. Roel, the son of the company's founder and the man responsible for moving the family business to San Diego in 1959. The first appointee to the Chair, Dr. Kenneth D. Walsh, is an accomplished teacher-scholar, with a research background in improvement of production systems in construction in residential, commercial, and heavy civil settings.

## The William E. Leonhard, Jr. Chair in Civil, Construction, and Environmental Engineering

The William E. Leonhard, Jr. Chair in Civil, Construction, and Environmental Engineering is funded with an endowment created by generous gifts from William G. Leonhard, Jr. and his parents, William E. and Wyllis M. Leonhard. After Bill Leonhard graduated from San Diego State in 1964, he entered a career in the Air Force, rising to the rank of colonel. In January 1990, he retired from the Air Force, spent the next several years in private industry, and retired again in 1998.

The Leonhard Chair is intended to promote excellence in undergraduate education in civil, construction, and environmental engineering.

## Mission of the Department

The mission of the Department of Civil, Construction, and Environmental Engineering is to provide a high quality undergraduate and graduate education in the civil, construction, and environmental engineering areas as well as the advising and other support needed to ensure the students' academic success and preparation for a productive engineering career. In addition, through research and continuing professional development, the faculty produce, enhance and promote new developments within their areas of expertise for the benefit of society and the furtherance of their profession.

The objective of the program is to give the student a basic knowledge of civil, construction, and environmental engineering, as well as the interdisciplinary background and skills to meaningfully participate in and contribute technical advances toward this profession. The program integrates technical aspects with studies in the social sciences and humanities to ensure appropriate sensitivity to socially related problems.

Instruction is given both at the undergraduate level, leading to the bachelor's degree, and at the graduate level, leading to the master's or doctoral degrees. The undergraduate program builds upon concepts of mathematics, physics, chemistry and basic engineering with specialized study in civil, construction, and environmental engineering. Engineering design is emphasized, particularly in conjunction with computer utilization and practical engineering problems. Aspects of safety and engineering ethics are woven throughout the program. Breadth and depth of social science and humanities studies is assured by department approved courses. Completion of the undergraduate degree prepares the student for an entry-level professional position in addition to informal or formal graduate studies.

Many students who complete the undergraduate programs of the department choose to continue their formal studies on a full- or part-time basis at San Diego State University or at another institution. (See the *Graduate Bulletin* for additional information.)

The civil, construction, and environmental engineering programs are enhanced through cooperation with the American Society of Civil Engineers, the American Public Works Association, the Associated General Contractors, the Chi Epsilon Civil Engineering Honor Society, and other national organizations who sponsor student chapters to further aid the student's professional development. The chapters at San Diego State University have won many awards in regional and national competition with other schools throughout the country.

## Educational Objectives

The objectives of the civil engineering program are: 1) to provide graduates with the technical knowledge and skills required to practice civil engineering; 2) to provide graduates with an understanding of the ethical, social, legal, and professional issues faced in civil engineering practice; and 3) to provide graduates with a solid foundation for graduate studies, continuing education, and life-long professional development.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, unaccredited work will be evaluated for full or partial credit.

CIV E



### General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

**I. Communication and Critical Thinking: 9 units**

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

**II. Foundations of Learning: 29 units**

**A. Natural Sciences and Quantitative Reasoning (17 units):**

1. Physical Sciences (11 units)  
Engineering students will take Chemistry 200 which includes a laboratory (5 units).  
Physics 195 (3 units)  
Physics 196 (3 units)
2. Life Sciences (3 units)  
Engineering students will take Biology 100 or 101.
3. Laboratory (satisfied under A.1. above)
4. Mathematics/Quantitative Reasoning  
Engineering students will take Mathematics 150, 3 units applicable to General Education. You may **not** use Credit/No Credit grades.

**B. Social and Behavioral Sciences (3 units)**

**C. Humanities (9 units)**

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department. Civil engineering students will take Construction Engineering 101.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Total: 9 units; must include one course of cultural diversity.

**A. Upper division Humanities (3 units)**

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

**B. Upper division Humanities (3 units from a department not selected in A above.)**

**C. Upper division Social and Behavioral Sciences (3 units)**

### The Major

Civil engineering is the application of engineering principles to the improvement of the human environment. The civil engineering major prepares students to design and supervise the construction of buildings, dams, roads, harbors, airports, tunnels, and bridges. It also provides training in the planning and construction of the complex systems that supply clean water to cities, remove sewage, control floods, and perform other functions which ensure continued health and safety.

Civil engineers are needed in both the private and public sectors. They are employed in the aerospace industry, usually as structural engineers; design and construction of roads, buildings, bridges, airports, dams and other structures; research and teaching at colleges

and universities (with an advanced degree); public utilities and transportation; manufacturing; and offshore drilling, environmental pollution, and energy self-sufficiency. New job opportunities in civil engineering will result from growing demands in housing, industrial buildings, power generating plants, and transportation systems.

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Civil Engineering Major

#### With the B.S. Degree

**(Major Code: 09081) (SIMS Code: 442001)**

The program below describes 136 units required for the degree. Each course specifically listed in the program is required. In addition, the total number of units specified in each elective category represents the minimum requirement.

**Preparation for the Major.** Civil Engineering 100, 120, 121, 160, 218, 220; Biology 100 or 101; Chemistry 200; Construction Engineering 101; Engineering 280; Engineering Mechanics 200, 220; Mathematics 150, 151, 252; Physics 195, 196. (54 units)

**Engineering Science Elective.** At least one of the following courses: Electrical Engineering 204; Mechanical Engineering 240, 352.

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 46 upper division units to include the following required and elective courses. Required upper division courses in the major: Civil Engineering 301 (or Mechanical Engineering 304), 302, 321, 401, 444, 462, 463, 481, 495; Construction Engineering 430; Engineering Mechanics 340, 341; Environmental Engineering 355.

**Professional Electives.** Course choices must consist of either (1) at least one course from at least four of the first five areas (Water through Geotechnical) and at least three units selected from any 400- or 500-level Civil or Environmental Engineering courses not used to satisfy other requirements, or (2) at least two courses from the last area (Construction) and at least one course each from three of the first five areas (Water through Geotechnical).

**Water** – Civil Engineering 445, 530.

**Transportation** – Civil Engineering 482, 580.

**Environmental** – Environmental Engineering 363, 441, 442, 554, 556, 558.

**Structural** – Civil Engineering 421, 521, 523, 525, 528.

**Geotechnical** – Civil Engineering 465.

**Construction** – Construction Engineering 401, 420, 479, 480.

**Master Plan.** A master plan of elective courses must be approved by the undergraduate adviser and filed with the Office of Advising and Evaluations as soon as the civil engineering major is declared. Students are required to see their undergraduate adviser prior to registration each semester.

## Courses (CIV E)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**NOTE: Proof of completion of prerequisites (copy of transcript) is required for all courses which list prerequisites.**

#### CIV E 100. Introduction to Civil Engineering (1)

Introduction to diverse field of civil and environmental engineering to include structural, geotechnical, water resources, transportation, construction engineering and management, and environmental engineering. Legal, ethical, and international dimensions of the profession.

#### CIV E 120. Computer Applications in Civil/Environmental Engineering and Construction (3)

Prerequisite: Credit or concurrent registration in Mathematics 150. Computing tools for civil engineering. Use of spreadsheets, programming, mathematical analysis programs, presentation, and graphics programs.

#### CIV E 121. Computer Graphics for the Built Environment (3)

Two lectures and two hours of activity.  
Prerequisite: Civil Engineering 120.  
Computer aided design for civil engineering applications (AutoCAD).

#### CIV E 160. Statistical Methods for the Built Environment (3)

Prerequisite: Mathematics 141.  
Application of statistical methods to civil and environmental engineering problems in construction, hydrology, water quality, air pollution, and other related areas. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Civil Engineering 160; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Economics 201; Political Science 201; Psychology 280; Sociology 201; Statistics 119, 250.

#### CIV E 218. Surveying for Civil Engineering and Construction (3)

Two lectures and three hours of laboratory.  
Prerequisites: Civil Engineering 160 and Mathematics 151.  
Principles of plane surveying. Measurement of horizontal distance, difference in elevation, and angles. Traverse surveys and computations. Horizontal and vertical curves. Principles of stadia. Topographic surveys. Earthwork.

#### CIV E 220. Civil and Environmental Engineering Computer Applications III (3)

Prerequisite: Civil Engineering 121.  
Graphical information systems (GIS), specialized civil engineering software, advanced problem solving.

#### CIV E 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES

(Intended for Undergraduates)

#### CIV E 301. Introduction to Solid Mechanics (3)

Prerequisite: Engineering Mechanics 200.  
Mechanics of solid deformable bodies involving analytical methods for determining strength, stiffness, and stability of load-carrying members. Not open to students with credit in Mechanical Engineering 304.

#### CIV E 302. Solid Mechanics Laboratory (1)

Three hours of laboratory.  
Prerequisite: Credit or concurrent registration in Civil Engineering 301 (or Mechanical Engineering 304).  
Laboratory studies in solid mechanics. Experimental stress analysis. Experimental confirmation of theory.

#### CIV E 321. Structural Analysis I (3)

Prerequisites: Civil Engineering 301 (or Mechanical Engineering 304) and 302.

Analysis of beams, frames, trusses, and three-dimensional frameworks. Influence lines; deflections; introduction to statically indeterminate structures and moment distribution.

#### CIV E 401. Civil Engineering and Society (1)

Prerequisite: Senior standing in civil engineering.  
Role of civil engineers in society. Historical, political, esthetic, and philosophical perspectives on civil engineering. Contemporary issues involving civil engineering.

#### CIV E 421. Reinforced Concrete Design (3)

Prerequisite: Civil Engineering 321.  
Properties and characteristics of reinforced concrete; design of structural components. Introduction to plastic theory and limit design.

#### CIV E 444. Applied Hydraulics (3)

Prerequisite: Engineering Mechanics 340.  
Open channel and pressure conduit flow, pumps and turbines, hydroelectric power, flood control, and water law.

#### CIV E 445. Applied Hydrology (3)

Prerequisite: Civil Engineering 444.  
Basic hydrologic principles, hydrologic measurements, small and midsize catchment hydrology, frequency analysis, regional analysis, reservoir, stream channel and catchment routing, hydrologic design.

#### CIV E 462. Geotechnical Engineering (3)

Prerequisite: Civil Engineering 301 (or Mechanical Engineering 304) or Engineering Mechanics 340.  
Mechanics of soils as they apply to engineering problems, soil classification, compaction, swelling, consolidation, strength and permeability. Applications to geotechnical and environmental engineering problems.

#### CIV E 463. Geotechnical Engineering Laboratory (1)

Three hours of laboratory.  
Prerequisite: Concurrent registration in Civil Engineering 462.  
Laboratory procedures of soil testing for geotechnical and environmental engineering problems.

#### CIV E 465. Foundation Engineering and Earth Retaining Structures (3)

Prerequisites: Civil Engineering 462 and 463.  
Soil mechanics theories applied to design of shallow and deep foundations; lateral pressure of soils, design of retaining walls.

#### CIV E 481. Transportation Engineering (3)

Prerequisite: Civil Engineering 218.  
Physical design of transportation facilities, traffic analysis and control for different modes, planning and demand analysis, introduction to environmental impacts of transportation systems and intelligent transportation systems.

#### CIV E 482. Highway Engineering (3)

Two lectures and three hours of laboratory.  
Prerequisite: Civil Engineering 481.  
Highway design, facility sizing, geometric design, drainage, earthwork, pavement design, traffic control devices, safety and environmental considerations.

#### CIV E 495. Capstone Design Project (3)

One lecture and six hours of laboratory.  
Prerequisites: For civil engineering majors: Credit or concurrent registration in Civil Engineering 321, 444, 462, 481, and Environmental Engineering 355. At least three of these courses must be completed prior to enrolling in this course. For environmental engineering majors: Construction Engineering 430 and credit or concurrent registration in Environmental Engineering 441, 442, 554, 556, 558. At least three of these courses must be completed prior to enrolling in this course. For construction engineering majors, credit or concurrent registration in Construction Engineering 480 and 490.  
Application of engineering principles and design techniques to the design of civil engineering projects.

**CIV E 496. Advanced Civil Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in civil engineering. See *Class Schedule* for specific content. Maximum credit six units for any combination of Civil Engineering 496, 499 and 596.

**CIV E 499. Special Study (1-3) Cr/NC**

Prerequisite: Consent of instructor.

Individual study in the area of civil engineering. Maximum credit six units for any combination of Civil Engineering 496, 499 and 596.

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**CIV E 521. Structural Analysis II (3)**

Prerequisite: Civil Engineering 321.

Analysis of statically indeterminate structures by virtual work. Advanced treatment of slope deflection, moment distribution. Arch analysis, secondary stresses in trusses. Advanced treatment of influence lines. Introduction to matrix analysis of structures.

**CIV E 523. Design of Light Framed Structures (3)**

Prerequisite: Civil Engineering 321.

Material properties for wood and metal studs. Loads and structural forces for buildings. Design of beams, columns, bearing stud walls. Seismic forces and lateral force resisting systems. Roof, floor, and shear wall design. Composite beams. (Formerly numbered Civil Engineering 423.)

**CIV E 525. Design of Steel Structures (3)**

Prerequisite: Civil Engineering 321.

Mechanical behavior of structural steel. Design of steel beams, girders, columns and members subjected to combined stresses. Design of various types of connections of steel structures; plate girders, continuous beams and rigid frames.

**CIV E 528. Masonry Structures Design (3)**

Prerequisite: Civil Engineering 321.

Analysis and design of masonry beams, retaining walls, shear walls, bearing walls, and columns. Use of allowable stress and strength design methods. Design project, including structural system analysis and lateral design of masonry buildings.

**CIV E 530. Open Channel Hydraulics (3)**

Prerequisite: Civil Engineering 444.

Principles of open channel flow; analysis and problems of critical, uniform, gradually-varied, and rapidly-varied flows, design and environmental problems; computer simulations and applications; and culvert hydraulics.

**CIV E 580. Traffic Engineering Design (3)**

Prerequisite: Civil Engineering 481.

Sizing and configuration of highway facilities based on capacity analysis. Traffic signal design, impact and mitigation studies, parking, safety design.

**CIV E 596. Advanced Civil Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in civil engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of six units for any combination of Civil Engineering 496, 499 and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**For additional courses which are electives  
in the civil engineering program, refer  
to "Construction Engineering" and  
"Environmental Engineering" in this  
section of the catalog.**

**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Classics

In the College of Arts and Letters

**OFFICE: Arts and Letters 662**

**TELEPHONE: 619-594-5186 / FAX: 619-594-1004**

**<http://classicsandhumanities.sdsu.edu>**

## Faculty

Emeritus: Eisner, Genovese, Hamilton, Warren

Chair: Smith

Associate Professor: Smith

Assistant Professor: Cook

Lecturer: Hame

## Offered by the Department of Classics and Humanities

Major in classics with the B.A. degree in liberal arts and sciences.

Emphasis in classical humanities.

Emphasis in classical language.

Minor in classics.

## The Major

Classics is the study of the languages, literatures, and civilizations of ancient Greece and Rome. These are the oldest European and American traditions of the humanities and the liberal arts. Classics literally means works of the first class or rank, and their profound truths and disciplined forms have ensured their lasting relevance.

All Classics majors take two or more years of Greek or Latin. They may choose the language emphasis that allows them to study one or both languages, or they may choose the broader emphasis in classical humanities. Classics majors have at their disposal the Burnett Classics Seminar Room with its library and media resources. In addition to small language classes, close academic advising, and the fellowship of a small department with diverse interests, Classics majors culminate their studies with a senior seminar.

Although the prime purpose of the Classics major is to satisfy a quest for the original intellectual and artistic values of Western civilization, graduates enjoy a range of professional choices in addition to academic careers in Classics and various humanities disciplines. Classics majors are well prepared for law school, and with supplementary coursework in business, economics, or information systems, a Classics graduate can be very competitive in the business world. Classics graduates also have an advantage as editors, librarians, journalists, and technical writers. Opportunities are available in public relations, government, and other fields where general knowledge, perspective, and a facility with language serve not only the public good but one's own success.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

CLASS

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Classics Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 15041)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in classics courses can apply to the degree.

**During their last semester all seniors majoring in classics shall submit to the department a portfolio of their scholarly work.**

A minor is not required with this major.

**Emphasis in Classical Humanities  
(SIMS Code: 111525)**

**Preparation for the Major.** Classics 101G-202G; or Classics 101L-202L or 250L; and six units from Classics 120, 140, Comparative Literature 270A, History 105, Humanities 140. (14-16 units)

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major plus one language course in the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or English 508W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** The department encourages international experience for its majors. A student who has completed the Preparation for the Major may apply to the Intercollegiate Center for Classical Studies in Rome (ICCS) or an equivalent, approved program in Italy or Greece for a semester abroad. Units taken during this semester abroad may apply toward the major if approved in advance by a department adviser.

**Major.** A minimum of 30 upper division units to include Classics 320, 330, History 502, 503, Humanities 490; nine units selected from Art 568, History 501, Humanities 402, Philosophy 411 (additional prerequisite required), upper division courses in Classics; six units of Greek or Latin.

**Emphasis in Classical Language  
(SIMS Code: 111526)**

**Preparation for the Major.** Classics 101G-202G; or Classics 101L-202L or 250L; and six units from Classics 120, 140, Comparative Literature 270A, History 105, Humanities 140. (14-16 units)

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major plus one language course in the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or English 508W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** The department encourages international experience for its majors. A student who has completed the Preparation for the Major may apply to the Intercollegiate Center for Classical Studies in Rome (ICCS) or an equivalent, approved program in Italy or Greece for a semester abroad. Units taken during this semester abroad may apply toward the major if approved in advance by a department adviser.

**Major.** A minimum of 30 upper division units to include Classics 320 and Humanities 490; History 502 or 503; three to nine units from upper division courses in Classics, Art 568, History 502, 503, Philosophy 411 (additional prerequisite required); 12-18 units of Greek or Latin.

## Classics Minor

The classics minor consists of a minimum of 18-20 units selected from one of the following:

**Language (SIMS Code 111550)** – 19-20 units, of which nine units must be upper division. At least 16-17 units must be taught in Greek or in Latin and three units selected from Classics 310, 320, 330, 340.

**Nonlanguage (SIMS Code 111560)** – 18 units, of which 12 units must be upper division. A minimum of six upper division units must be selected from classics courses, and up to six units may be selected from Art 568, History 502, 503, or Philosophy 411 (additional prerequisite required).

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Greek or Latin to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Classics 303G or 303L or the equivalent level of achievement. The usual sequence of course work is either Classics 101G, 202G, and 303G, OR Classics 101L, 202L, and 303L. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## Courses (CLASS)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Classics includes courses in Greek and Latin as well as non-language courses. Greek course numbers have a G suffix; Latin courses have an L suffix.**

**No credit will be given for Classics 101G, 202G, 303G, 304G taken out of sequence.**

**No credit will be given for Classics 101L, 202L, 303L, 304L taken out of sequence.**

### CLASS 101G. Ancient Greek I (5) [GE]

Beginning classical Greek. Basic grammar, vocabulary. Not open to students who have completed three years of high school ancient Greek unless the third course was completed five or more years ago.

### CLASS 101L. Latin I (5) [GE]

Beginning classical Latin. Basic grammar, vocabulary. Not open to students who have completed three years of high school Latin unless the third course was completed five or more years ago. Not open to students with credit in Classics 250L.

### CLASS 120. English Words from Latin and Greek (3) [GE]

Latin and Greek words and bases and their English derivatives. Etymology, word analysis and construction, language history, and structure.

### CLASS 140. Heritage of Greece and Rome (3) [GE]

Greek and Roman art, literature, arts, and institutions in the Western tradition.

### CLASS 202G. Ancient Greek II (5) [GE]

Prerequisite: Classics 101G.

Continuing classical Greek. Grammar, vocabulary, syntax. Preparation for Classics 303G. Not open to students who have completed four years of high school ancient Greek unless the fourth course was completed five or more years ago.

### CLASS 202L. Latin II (5) [GE]

Prerequisite: Classics 101L.

Continuing classical Latin. Grammar, vocabulary, syntax. Preparation for Classics 303L. Not open to students who have completed four years of high school Latin unless the fourth course was completed five or more years ago. Not open to students with credit in Classics 250L.

### CLASS 250L. Accelerated Latin (8)

(Offered only in Extension)

Intensive beginning classical Latin. Basic grammar, vocabulary, syntax. Preparation for Classics 303L. Not open to students who have completed four years of high school Latin unless the fourth course was completed five or more years ago. Not open to students with credit in Classics 101L and 202L.

### CLASS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

- C. Experimental Topics in Classics.
- G. Experimental Topics in Greek.
- L. Experimental Topics in Latin.

### UPPER DIVISION COURSES (Intended for Undergraduates)

### CLASS 303G. Reading Greek Prose (3) [GE]

Prerequisites: Classics 202G; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading classical prose authors such as Xenophon or Plato in original Greek. Attention to vocabulary, syntax, style, and historical-cultural context.

### CLASS 303L. Reading Latin Prose (3) [GE]

Prerequisites: Classics 202L or 250L; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading classical prose authors such as Caesar or Cicero in original Latin. Attention to vocabulary, syntax, style, and historical-cultural context.

### CLASS 304G. Reading Greek Poetry (3) [GE]

Prerequisites: Classics 303G; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading classical poets such as Homer or Euripides in original Greek. Attention to vocabulary, syntax, style, and historical-cultural context.

**CLASS 304L. Reading Latin Poetry (3) [GE]**

Prerequisites: Classics 303L; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading classical poets such as Catullus or Ovid in original Latin. Attention to vocabulary, syntax, style, and historical-cultural context.

**CLASS 310. Greek and Roman Myth and Legend (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Rhetoric and Writing Studies 200.

Myths and legends of Greece and Rome in literature, arts, and religion.

**CLASS 320. Epic and the Novel (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Rhetoric and Writing Studies 200.

Four classic works in English translation: Homer's Iliad and Odyssey, Vergil's Aeneid, and Apuleius' Golden Ass. Literary criticism in historical-cultural contexts.

**CLASS 330. Tragedy and Comedy (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Rhetoric and Writing Studies 200.

Classical dramas in English translation. Playwrights such as Aeschylus, Sophocles, Euripides, Aristophanes, Plautus. Ancient theater, literary criticism.

**CLASS 340. Ancient Greece and Rome (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. Recommended: Rhetoric and Writing Studies 200.

Literary, artistic, and intellectual achievements of the classic world. Great cultural traditions and influences.

**CLASS 350. Classics and Cinema (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Ancient Greece and Rome as represented in major cinematic productions. Screenplays compared with Greek and Latin sources in English translation.

**CLASS 496. Topics in Classical Studies (1-4)**

Topics in classical languages, literatures, cultures, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit nine units. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**C.** Topics in Classics.

**G.** Topics in Greek.

**L.** Topics in Latin.

**UPPER DIVISION COURSE**

**(Also Acceptable for Advanced Degrees)**

**CLASS 599. Special Study (1-3)**

Prerequisites: Consent of major or graduate adviser; to be arranged by department chair and instructor. For 599C: Classics 304L or 304G. For 599G: Classics 304G. For 599L: Classics 304L.

Directed individual study. Maximum credit nine units in any combination of 599C, 599G, 599L.

**C.** Special Study in Classics.

**G.** Special Study in Greek.

**L.** Special Study in Latin.

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# Communication

In the College of Professional Studies and Fine Arts

**OFFICE: Communication 237**

**TELEPHONE: 619-594-0716 / FAX: 619-594-0704**

**E-MAIL: [socdesk@mail.sdsu.edu](mailto:socdesk@mail.sdsu.edu)**

**<http://communication.sdsu.edu>**

## Faculty

Emeritus: Andersen, J., Hellweg, Lustig, Samovar, Sanders

Director: Snavelly

Professors: Andersen, P., Beach, Dionisopoulos,

Geist-Martin, Snavelly, Spitzberg

Associate Professor: Renegar

Assistant Professors: Lee, Lindemann

Lecturers: Fallon, Goehring, Jarboe, Rapp, Robertson, Taylor

## Offered by the School

Master of Arts degree in communication with a specialization in:  
communication studies.

Major in communication with the B.A. degree in liberal arts and  
sciences **OR** applied arts and sciences.

Minor in communication.

## General Information

The School of Communication, an academic unit within the College of Professional Studies and Fine Arts, emphasizes scholarly, creative, and professional aspects of communication studies. The school engages in teaching, research, and development of integrated, interactive, international, and intercultural communication for the twenty-first century. The School of Communication is committed to quality undergraduate and graduate education in the field of communication. We prepare students for civic life, professional careers, and further graduate study. We are committed to cutting edge research and instructional innovation which advances understandings of culture, health, institutions, interaction, politics, relationships, and rhetoric in everyday life. We are dedicated to serving San Diego State University, the College of Professional Studies and Fine Arts, and the diverse communities in the urban region in which we live and work.

Students majoring in communication learn different ways in which communication has been conceptualized and investigated, as well as ways in which members of the communication discipline have used their knowledge and scholarship to engage a variety of social problems. Students will be given opportunities to study how effective communication enhances well-being, and relationships; promotes civic engagement; and allows for effective participation in a global community. Courses focus on organizing principles and patterns of social life through observation, analysis, and criticism of human interactions, communication behavior, mediated systems, and technological innovations. This major is firmly grounded in the liberal arts and sciences and is intended to prepare students to be effective members of society, as well as valued employees in whatever careers that they may choose to pursue. Graduates have often found positions in occupations such as sales, human resources, training, education, and consulting, or have pursued advanced academic or professional degrees in fields such as law, management, and marketing.

## Impacted Program

The communication major is an impacted program. To be admitted to the communication major, students must meet the following criteria:

- Complete with a minimum grade point average of 2.75 and a grade of C or higher: six units selected from Communication 160, 201, 204. These courses cannot be taken for credit/no credit (Cr/NC);

- Complete the general education oral communication requirement with a grade of C or higher. This course cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 45 baccalaureate level semester units and a maximum of 90 semester units. (A minimum of 60 units are required for all transfer applicants.);
- Have a cumulative grade point average of 2.75 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Communication Major

### B.A. Degree in Liberal Arts and Sciences OR

### Applied Arts and Sciences

**(Major Code: 15061) (SIMS Code: Liberal 668132; Applied 668131)**

All candidates for a degree in liberal arts and sciences or a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in communication courses can apply to the B.A. degree in Liberal Arts and Sciences.

Selecting the B.A. degree in liberal arts and sciences requires meeting the language requirement. Selecting the B.A. degree in applied arts and sciences requires the mathematics competency requirement.

Lower division preparation for the major courses may be satisfied by comparable courses in community colleges or other institutions with which the university has articulation agreements.

A minor is required with this major.

**Preparation for the Major.** General Education oral communication requirement and six units selected from Communication 160, 201, 204. These prerequisite courses may not be taken Cr/NC and must be completed with a minimum grade point average of 2.75 and a grade of C or higher in each course. The General Education oral communication course will not be included in the computation of the required grade point average of 2.75.

**Language Requirement (Liberal Arts and Sciences).** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Mathematics Competency Requirement (Applied Arts and Sciences).** Competency in mathematics must be satisfied by three semesters of college mathematics or a statistical sequence such as Statistics 250, 350A, 350B (highly recommended); or Political Science 201\*, 515, 516; or Sociology 201\*, 406\*, 407\*.

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\*Additional prerequisites required.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Communication 300 and 350; six units selected from Communication 371, 406, 415, 450, 470, 491, 492; three units selected from Communication 420, 441, 462, 465; 18 units selected from Communication 301, 307, 309, 407, 423, 445, 446, 452, 471, 482, 485, 490, 496, 499, 508, 555, or any three upper division units in communication; and Communication 495 in the last semester.

## Communication Minor

(Minor Code: 06011) (SIMS Code: 661119)

The minor in communication consists of a minimum of 21 units to include six units selected from Communication 160, 201, 204; Communication 300; six upper division units selected from Communication 371, 406, 415, 450, 470, 491, 492; and six additional upper division units in communication. Admission to the communication minor requires completion of at least 45 units with a minimum grade point average of 2.75 overall; completion of the General Education Oral Communication requirement with a grade of C (2.0) or higher; and six units selected from Communication 160, 201, 204 with grades of C (2.0) or better. The General Education oral communication course will not be included in the computation of the required grade point average of 2.75.

Courses in the minor may not be counted toward the major but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

## Courses (COMM)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### COMM 90. Improving Speaking Confidence (1) Cr/NC

Two hours of activity.

Prerequisite: Credit or concurrent registration in Communication 103.

Anxiety reduction and skill enhancement for students experiencing anxiety in oral communication situations. Not applicable to a bachelor's degree or general education.

#### COMM 103. Oral Communication (3) [GE]

One lecture and two hours of recitation.

Training in fundamental processes of oral expression; method of obtaining and organizing material; outlining; principles of attention and delivery; practice in construction and delivery of various forms of speeches. Not open to students with credit in Africana Studies 140 or Chicana and Chicano Studies 111A.

#### COMM 160. Argumentation (3)

Argument as a form of discourse; organizing, supporting, presenting and refuting arguments in a variety of formats; evaluating argument, including common fallacies in reasoning.

#### COMM 201. Communication and Community (3)

Prerequisite: Communication 103.

Communication as an academic and professional discipline, its associations and journals, history and traditions, relationships to other disciplines, research methodologies, and careers for graduates. (Formerly numbered Communication 305.)

#### COMM 204. Advanced Public Speaking (3)

Prerequisite: Communication 103.

Practice in extemporaneous speaking on subjects of current interest, both national and local, with stress on organization and delivery.

#### COMM 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### COMM 300. Conceptualizing Communication (3)

Prerequisite: Admission to a major or minor in the School of Communication.

Communication theory, concepts, principles, and practices. Communication as art and process on micro and macro levels, integrates understanding of sources, messages, transmission, and feedback in creating meaning and culture.

#### COMM 301. Intercollegiate Speech and Debate Competition (3) Cr/NC

Six hours of activity.

Prerequisite: Communication 103.

Competitive intercollegiate debate and/or individual speaking events. Use of specific argumentation models to comprehensively analyze relevant political and social issues. Group and oral performance stressed. Two weekends of travel to competitive tournaments required. Maximum credit six units.

#### COMM 307. Communication in Professional Settings (3)

Prerequisites: Eighteen units of upper division coursework in the School of Communication. Admission to a major or minor in the School of Communication.

Communication principles in professional contexts including interviewing and technical and nontechnical oral presentations. Skill in meeting management.

#### COMM 309. Oral Communication Tutoring Laboratory (1-3) Cr/NC

Prerequisites: Communication 103 with a grade of B or higher and overall grade point average of 2.75 or higher. Admission to a major or minor in the School of Communication.

Supervised tutoring assistance for oral communication students in speech outline preparation and speech delivery for Communication 103. Maximum credit three units.

#### COMM 350. Investigating Communication (3)

Prerequisite: Admission to a major or minor in the School of Communication.

Study of human communication, from methodological and epistemological perspectives.

#### COMM 371. Intercultural Communication (3) [GE]

Prerequisites: Communication 103; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Open to majors and nonmajors.

Study of communication with emphasis on influence of cultural background, perception, social organization, language and nonverbal messages in the intercultural communication experience.

#### COMM 406. Organizational Communication (3)

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

The organization as a communication system; role of the organization in persuasive campaigns; communication strategies and problems within the organizational structure.

#### COMM 407. Communicative Perspectives on Interviewing (3)

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Application of communicative theory to interviewing situations. Emphasis on perception, source, message, and receiver variables, defensive communication, feedback. Phrasing of questions, ways to enhance respondent participation, and formulation of behavioral objectives. Classroom simulation, supplemented by out-of-class interviews.

#### COMM 415. Nonverbal Communication (3)

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Theory and research on nonverbal aspects of communication, with emphasis on codes and functions.

COMM



## **COMM 420. Quantitative Methods in Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Quantitative research in communication. Construction and analysis of surveys and experiments.

## **COMM 421. Health Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Analysis of how people understand, share ideas about, and adjust to health and illness. Personal, interactional, cultural, and political complexities of health beliefs, practices, policies.

## **COMM 423. Patient-Provider Communication (3)**

Prerequisites: Communication 421. Admission to a major or minor in the School of Communication.

Primary communication activities organizing medical interviews in clinical settings to include techniques for raising and responding to concerns about life, illness, and disease; implications for quality of care, healing outcomes, and medical education. (Formerly numbered Communication 583.)

## **COMM 424. Health Communication and Relationships (3)**

Prerequisite: Communication 421.

Influences of institutional, social, and personal relationships on health. Influences of health on development of human relationships, interaction between relationships, health practices, and outcomes.

## **COMM 425. Theory and Research in Health Communication Campaigns (3)**

Prerequisite: Communication 421.

Theory and research on effective health communication campaigns in various settings to promote healthy lifestyles, nutrition, exercise, health screening, disease and injury prevention behavior.

## **COMM 428. Communicating Health and Well-Being at Work (3)**

Prerequisite: Communication 421.

Research and theory regarding communication topics that restrict well-being at work to include stress, bullying, sexual harassment, and injustice. Concepts and trends that alleviate or eliminate stress to include social support, spirituality, and wellness programs at work.

## **COMM 441. Foundations of Critical and Cultural Study (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Central concepts, examples, theories, and experiences of critical studies of communication in culture through cultural, rhetorical, and media literature and cases. (Formerly numbered Communication 355.)

## **COMM 445. Relational Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Theory and application of effective relational communication principles in both intimate and nonintimate contexts. Theoretical and empirical evidence on communication strategies and behaviors in relationship initiation, development, and termination. Relationship of communication behaviors to relational goals.

## **COMM 446. Communication and Rhetorical Movements (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Historical perspectives of role of communication in social change in rhetorical movements and social change. (Formerly numbered Communication 545.)

## **COMM 450. Rhetorical Theory (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Development of rhetorical theory as a mechanism for generating and understanding public discourse. Theories from ancient Greece to the present.

## **COMM 452. Interaction and Gender (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Contemporary research and theory on communication and gender. Examination of gender as ongoing interactional achievement. Gender displays and myths across diverse relationships, institutions, media, and society.

## **COMM 462. Ethnography and Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Naturally occurring interactions drawn from a variety of communication settings. Primary methods of gathering data include: participant observation, interviewing, document and artifact analysis, and other forms of communication. (Formerly numbered Communication 493.)

## **COMM 465. Conversational Interaction (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Sequential organization of naturally occurring conversational practices. Reliance on recordings and transcriptions for detailed examinations of interactants' methods for achieving social actions and organizing interactional occasions. (Formerly numbered Communication 530.)

## **COMM 470. Argumentation Theory (3)**

Prerequisites: Communication 160, 300, 350. Admission to a major or minor in the School of Communication.

Approaches to argument and the patterns and problems in argument. Consideration of implications for society. Written and oral reports. (Formerly numbered Communication 360.)

## **COMM 471. Communication Among U.S. Cultures (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Effects of code systems, sociocultural forces, geographic influences, cultural patterns, ethnolinguistic identities, and acculturation experiences on interethnic and interracial relationships in the United States.

## **COMM 482. Communication and Politics (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Contemporary political communication events and processes, with a focus on speeches, debates, and campaigns. (Formerly numbered Communication 580.)

## **COMM 485. Communicating Leadership (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Current theory and research in leadership and communication. Understanding yourself, role of leadership, and selection of appropriate communication strategies for leadership.

## **COMM 490. Internship (1-3)**

Prerequisites: Communication 201, 300, 350; senior standing and 18 units in the major. Admission to a major or minor in the School of Communication.

Students work at approved agencies off-campus under the combined supervision of agency personnel and instructors. Maximum credit three units. (Formerly numbered Communication 490A.)

## **COMM 491. Group Interaction (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Research, theory, observation of group emergence, development, relationships, interaction, and decision making across diverse settings.

## **COMM 492. Persuasion (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Key variables and theories in the persuasion process; persuasive sources, messages, receiver variables, propaganda, brainwashing, cognitive, behavioral, and social theories of persuasion. (Formerly numbered Communication 592.)

**COMM 495. Communication Capstone: Conceptualizing and Investigating Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Capstone survey, analysis, and comparison of theories, methods, and discipline of communication. (Formerly numbered Communication 410.)

**COMM 496. Experimental Topics (1-4)**

Experimental topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**COMM 499. Special Study (1-3)**

Prerequisite: Approved special study contract required prior to enrollment.

Approved individual study, project or research under supervision of faculty member. Maximum credit three units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**COMM 508. Media Literacy (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Role played by video texts in shaping culture including information distribution, entertainment, and socio-cultural influence exercised by television. Emphasis on audience/medium relationship and to developing critical skills.

**COMM 555. Conflict Management Communication (3)**

Prerequisites: Communication 300 and 350. Admission to a major or minor in the School of Communication.

Approaches to conflict communication in international, societal, group, institutional, and interpersonal contexts.

**COMM 596. Selected Topics (1-4)**

Prerequisite: Senior standing or above.

Specialized study in selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

COMM

**Communicative Disorders** – Refer to “Speech, Language, and Hearing Sciences” in this section of the catalog.

**Community Health Education** – Refer to “Public Health” in this section of the catalog.

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# Comparative Literature

In the College of Arts and Letters

**OFFICE:** Arts and Letters 226

**TELEPHONE:** 619-594-5443 / **FAX:** 619-594-4998

**E-MAIL:** [EandCL@mail.sdsu.edu](mailto:EandCL@mail.sdsu.edu)

**<http://literature.sdsu.edu>**

## Faculty

Faculty assigned to teach courses in comparative literature are drawn from departments in the College of Arts and Letters.

## Offered by the Department of English and Comparative Literature

Major in comparative literature with the B.A. degree in liberal arts and sciences.

Teaching major in comparative literature for single subject teaching credential in English language arts.

Minor in comparative literature.

## The Major

Comparative literature is the study of literature from around the world, transcending the restrictions of national and linguistic boundaries. Traditionally, comparative study has been based on literary movements, periods and lines of influence, as well as on genres, themes, myths, and legends. In recent years comparative literature has come to include the comparison of literature with other areas of human experience.

Comparative literature offers students the opportunity to study a broad range of literary subjects from various cultures throughout the world. Courses are offered in European literature from ancient to contemporary times; in the literature of Asia, Africa, and Latin America; in folk literature, legend, fantasy, and science fiction; in literary theory; and in special topics such as travel literature, literature and existentialism, and Japanese literature and film. All reading is done in English translation (majors choosing Plan II, however, are also required to take courses in foreign language literature).

Because the field covers so wide a range, the comparative literature student does not acquire a comprehensive knowledge of any basic list of "great works." Such a list, for all of world literature, would be far too long. Instead, students learn various approaches to literature, along with specialized knowledge of areas which particularly interest them.

Comparative literature is an excellent major for anyone desiring a broadening and enriching liberal arts education. Its application to foreign cultures is particularly useful for careers in foreign service and international trade. Translating, editing and publishing, journalism, broadcasting, and film are other possibilities, as well as advertising and public relations, politics, writing, library work, and criticism. Comparative literature is also, like English, an excellent foundation for careers in the professions, especially law.

The comparative literature major may also be used as preparation for the single subject (high school) teaching credential in English language arts. Graduate study in comparative literature may lead to teaching at more advanced levels. The Plan II major has been specifically designed for students who plan to do graduate work in this area.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Comparative Literature Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 15031)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in comparative literature and English courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Comparative Literature 210 or English 220; Comparative Literature 270A, 270B. (9 units)

**Language Requirement. Plan I:** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Plan II:** See below.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 8 or above before taking English 308W with a grade of C (2.0) or better, which is required. See "Graduation Requirements" section for a complete listing of requirements.

**Major. Plan I (SIMS Code: 111704):** General literature. For students who do not intend to enter a graduate program in comparative literature.

**Required:** A minimum of 33 upper division units to include 18 units in one of the three areas (A, B, and C) below; six units in American literature, British literature, creative writing; English 308W; and an additional six units in comparative literature.

**Plan II (SIMS Code: 111705):** For students who intend to enter a graduate program in comparative literature.

**Required:** A minimum of 33 upper division units to include 18 units in one of the three areas (A, B, and C) below; six units in a foreign language literature (read in the original language); six units in another literature (which may be British or American) read in the original language; and English 308W. It is strongly recommended that even those students choosing English or American as their second literature attain competency in a second foreign language.

**A. European Literature.** Eighteen units selected from the following:

1. Comparative Literature 512, 513, 514.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.
3. Up to six units from Art 371, 557, 558, 559, 573A, 573B, 575; Classics 310, 320, 330; History 407, 408, 440, 504, 505, 506, 507, 512A, 512B, 528; Humanities 401, 402, 403, 404; Philosophy 412, 413, 414, 506, 508; Political Science 301A, 301B, 302.

**B. Asian, African, and Latin American Literature.** Eighteen units selected from the following:

1. Comparative Literature 440, 445, 451, 530.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.

3. Up to six units from Anthropology 442; Asian Studies 458, 459, 596 (with appropriate content approved by the departmental adviser); History 415, 416, 420, 421, 473, 474, 558; Humanities 460; and Religious Studies 328, 338, 339, 340, 345.

**C. Comparative Literary Theory (Theory of literature, genre study, literature in relation to other arts and disciplines).**

Eighteen units selected from the following:

1. Comparative Literature 561, 562, 563, 580, 594, 595.
2. Up to six units in other, variable-content comparative literature courses with appropriate content approved by the departmental adviser.
3. Up to six units from English 493, 570, 571, 573; Philosophy 334, 541, 542; Theatre 460A, 460B; and Women's Studies 352, 553.

## Comparative Literature Major

**In preparation for the Single Subject Teaching Credential in English Language Arts  
With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 15031) (SIMS Code: 111703)**

Requirements listed here are for the fulfillment of the comparative literature major in preparation for the single subject teaching credential in English language arts. All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. Completion of this major also fulfills 21 units of the General Education program. A minor is not required with this major.

**Preparation for the Major.** (30-33 units) 18 units fulfills General Education.

1. Rhetoric and Writing Studies 100 and 200 (General Education I. 2 and 3)
2. Communication 103 (General Education I. 1)
3. Comparative Literature 270A and 270B (6 units—3 units General Education II. C.1)
4. Journalism and Media Studies 200
5. Humanities 140 or Theatre 120 (General Education II.C.2)
6. Linguistics 101 (3 units General Education II.B)
7. English 250A and 250B or 260A and 260B (6 units)
8. English 280 or 281

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking English 308W with a grade of C (2.0) or better (see #9 in major). See "Graduation Requirements" section for a complete listing of requirements.

**Major.** (46 units) Fulfills three units General Education. Courses within major cannot be double-counted.

9. English 308W.
10. English 502.
11. English 533.
12. For those who took English 250A-250B (American literature survey) select three units from English 530, 534, 536, 537, 540A, 541A, 541B, 542; and three units from English 540B, 543, 544. (6 units)  
For those who took English 260A-260B (British literature survey) select six units from English 521, 522, 523, 524, 525. (6 units)
13. Theatre 310.
14. Comparative Literature 561, 562, or 563.
15. Four courses selected from Comparative Literature major, Plan II, Options A, B, or C — same limitations apply (12 units).

16. Linguistics 430 or 530.
17. Linguistics 452 or 550 (Prerequisite is Linguistics 420).
18. Rhetoric and Writing Studies 509 and Teacher Education 362 must be taken concurrently.
19. Diversity literature course: Three units selected from Africana Studies 365A, 365B, 463, 464, American Indian Studies 430, Chicana and Chicano Studies 335, Theatre 465, Women's Studies 352 (General Education IV.C) (also acceptable but non-General Education: Comparative Literature 440, 445, 451 [or Asian Studies 451], 470).

**Consult with the English and Comparative Literature honors program adviser for honors program variation.**

## Comparative Literature Minor

The minor in comparative literature consists of a minimum of 15 units in comparative literature, 12 units of which must be in upper division courses. The 12 units of upper division work must be selected, with adviser's approval, from within one of the following interest areas:  
**European Literature (SIMS Code: 111715):** Comparative Literature 512, 513, 514.

**Asian, African, and Latin American Literature (SIMS Code: 111708):** Comparative Literature 440, 445, 451, 530.

**Comparative Literary Theory (Theory of literature, genre study, literature in relation to other arts and disciplines) (SIMS Code: 111710):** Comparative Literature 561, 562, 563, 580, 594, 595.

In addition the following variable content courses may be used in any of the above categories when they are appropriate: Comparative Literature 490, 571, 577, 596.

The comparative literature minor is not available to students majoring in English.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (C LT)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### C LT 210. Introduction to Comparative Literature (3)

Introductory study of comparative literature, its current status, its historical development, range of comparative approaches. Generally includes guest presentations by various members of the comparative literature faculty.

#### C LT 270A-270B. World Literature (3-3) [GE]

Comparative study of selected major works from various continents and cultures, with emphasis on way literature deals with enduring human problems and values. Semester I: prior to 1500; Semester II: since 1500. Comparative Literature 270A is not a prerequisite to 270B, and either may be taken separately.

#### C LT 296. Topics in Comparative Literature (3)

Introduction to subject matter of comparative studies in literature. Focus on a specific movement, theme, figure, genre, etc. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### C LT 405. The Bible as Literature (3) [GE] (Same course as English 405)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.  
Prose and poetry of the King James version.

### **C LT 440. African Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Comparative study of African literature as well as Black literature of North and South America and the Caribbean; intercontinental influences and the theme of Black identity.

### **C LT 445. Modern Latin American Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading selections from major Latin American authors.

### **C LT 451. Modern Asian Literature (3) [GE]**

(Same course as Asian Studies 451)

Prerequisites: Comparative Literature 270A or 270B or English 220 or Asian Studies 100 or 101; and completion of the General Education requirement in Foundations of Learning II.C. Humanities required for nonmajors.

Asian literatures from modern period of China, Japan, India, Korea, Philippines, Vietnam, and others. (Formerly numbered Comparative Literature 460)

### **C LT 455. Classical Asian Literature (3) [GE]**

Prerequisites: Comparative Literature 270A or 270B or English 220; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Survey of one or more Asian literatures from the classical period of China, Japan, India, Korea, and others.

### **C LT 470. Folk Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for non-majors.

Studies in the ballad, bardic poetry, oral and popular literature and folklore.

### **C LT 490. Literary Movements (3)**

A movement or theme in world literature - such as symbolism, existentialism, revolution, or romantic love. See *Class Schedule* for specific content.

### **C LT 499. Special Study (1-3) Cr/NC**

Prerequisites: Consent of instructor and approval of department chair.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

**NOTE: Prerequisite for all 500-level courses: Six units in literature or three units in literature and three units in a related area appropriate to the course in question.**

### **C LT 512. European Literature Before 1800 (3)**

Study of a literary period such as the Middle Ages, Renaissance, or Enlightenment. May be repeated with new content. Maximum credit six units.

### **C LT 513. Nineteenth Century European Literature (3)**

European literature of the nineteenth century or of a more limited period within that century. May be repeated with new content. Maximum credit six units.

### **C LT 514. European Literature Since 1900 (3)**

Study of a literary period such as the Age of Modernism. May be repeated with new content. Maximum credit six units.

### **C LT 530. Topics in Asian Literature (3)**

Specialized study of a selected topic in Asian literature. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 561. Fiction (3)**

A comparative approach to themes and forms in fiction (novel and short story). Focus of course to be set by instructor. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 562. Drama (3)**

Forms and themes in drama. Focus of course to be set by instructor. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 563. Poetry (3)**

A comparative approach to themes and forms in poetry. Focus of course to be set by instructor. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 571. Literary Use of Legend (3)**

Literary treatment of such legendary figures as Don Juan, Faust, and Ulysses, in a wide range of literature and genres. See *Class Schedule* for specific content.

### **C LT 577. Major Individual Authors (3)**

In-depth study of the works of a major author, such as Dante, García Márquez, Murasaki, or Dostoyevsky. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 580. Concepts in Comparative Studies (3)**

Basic concepts in comparative studies in literature (e.g., influence, movement, figure, genre, etc.); their validity, usefulness, and limitations. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 594. Topics in Literature and the Arts (3)**

Prerequisite: Six upper division units in literature or any of the other arts.

Comparative study of literature and other arts such as painting, sculpture, architecture, music, dance, and film. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units applicable to a bachelor's degree. Maximum credit six units applicable to the M.F.A. degree in creative writing.

### **C LT 595. Literature and Aesthetics (3)**

Prerequisite: Six upper division units in literature or any of the other arts.

Theoretical and experiential investigation of relationships between literature and the other arts; literary works in context of an inquiry into aesthetics. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **C LT 596. Topics in Comparative Literature (3)**

An intensive study of a topic to be selected by the instructor. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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# Computational Science

In the College of Sciences

**OFFICE: Geology/Mathematics/Computer Science 206H**  
**TELEPHONE: 619-594-3430 / FAX: 619-594-2459**  
**<http://www.csrc.sdsu.edu>**

COMP

## Faculty

**Program Director:** José E. Castillo (Mathematics and Statistics)

**Associated Faculty:** Bailey (Mathematics and Statistics), Baljon (Physics), Bhattacharjee (Mechanical Engineering), Blomgren (Mathematics and Statistics), Bromley (Physics), Carretero (Mathematics and Statistics), Cooksy (Chemistry and Biochemistry), Day (Geological Sciences), Duncan (Mathematics and Statistics), Edwards (Computer Science), Fan (Mathematics and Statistics), Frey (Biology), Johnson (Physics), Kumar (Electrical and Computer Engineering), Levine (Mathematics and Statistics), Love (Chemistry and Biochemistry), Mahaffy (Mathematics and Statistics), Mellors (Geological Sciences), Olevsky (Mechanical Engineering), Olsen (Geological Sciences), O'Sullivan (Mathematics and Statistics), Palacios (Mathematics and Statistics), Paolini (Biology, Emeritus), Papin (Physics and Associate Dean, College of Sciences), Pullman (Chemistry and Biochemistry), Roch (Computer Science), Rohwer (Biology), Salamon (Mathematics and Statistics), Sandquist (Astronomy), Segall (Biology), Shen (Mathematics and Statistics), Venkataraman (Aerospace Engineering and Engineering Mechanics), Weber (Physics), Zeller (Biology).

## Offered by Computational Science

Doctor of Philosophy degree in computational science.

Master of Science degree in computational science.

Concentration in professional applications.

Certificate in professional computational science, advanced (refer to the *Graduate Bulletin*).

## Courses (COMP)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### UPPER DIVISION COURSES

(Also Acceptable for Advanced Degrees)

#### COMP 521. Introduction to Computational Science (3)

Prerequisite: Mathematics 151.

Matrices and linear equations, solving ordinary differential equations (ODEs), vector spaces, closed form solutions, qualitative theory, Eigenvalues, linear maps, linear differential equations, other techniques, nonlinear systems, higher dimensional systems.

#### COMP 526. Computational Methods for Scientists (3)

Prerequisites: Mathematics 252 and 254.

Translating mathematical problem descriptions to computer programs. Introduction to Unix system.

#### COMP 536. Computational Modeling for Scientists (3)

Prerequisite: Mathematics 151.

Models, computational tools, errors, system dynamics, growth, stability, multicompartment models, Euler's, Runge-Kutta methods, system dynamics, infectious disease, enzyme kinetics, environmental cycles, cardiovascular system, metabolism, global warming, empirical models, HIV, population distributions, diffusion, HPC.

#### COMP 589. Computational Imaging (3)

Prerequisites: Mathematics 150 and 254.

Mathematical techniques used for image processing and analysis. Emphasis on variational techniques which lead to PDE based image processing algorithms, most are known as diffusion filters, and interface propagation techniques for which emphasis will be implicit representation (level-set methods). Representation and properties of curves and surfaces, statistical (PCA/ICA), and multi-resolution image analysis techniques.

#### COMP 596. Advanced Topics in Computational Science (1-4)

Prerequisite: Consent of instructor.

Selected topics in computational science. may be repeated with the approval of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES

*Refer to the Graduate Bulletin.*

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# Computer Engineering

In the College of Engineering

**OFFICE: Engineering 426**  
**TELEPHONE: 619-594-5718**  
**<http://electrical.sdsu.edu>**

The undergraduate degree in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

## Faculty

Emeritus: Iosupovici, Harris, J., Panos  
Chair: Tummala  
Coordinator for Computer Engineering: Marino  
The Radio Frequency Communications Systems Industry Chair: Gupta  
Professors: Gupta, Harris, f., Lee, G., Marino, Tummala  
Associate Professors: Kumar, Ozturk  
Assistant Professor: Sarkar

## Offered by the Department of Electrical and Computer Engineering

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in electrical engineering.

Major in computer engineering with the B.S. degree.

Major in electrical engineering with the B.S. degree.

Certificate in rehabilitation technology (refer to the *Graduate Bulletin*).

## The Radio Frequency Communications Systems Industry Chair

The Radio Frequency (RF) Communications Systems Industry Chair was established in recognition of the pervasiveness and vital role of radio frequency and wireless communications in modern society, and the emergence of San Diego as the world's leading center of research and development in the field of telecommunications and wireless engineering. The chair is sustained through generous contributions of Cubic Corporation and other corporations engaged in wireless communication technology, in appreciation of contributions of students trained in the field at SDSU. The RF Communications Systems Industry Chair is intended to promote excellence in education of RF and microwave engineers, and encourage significant professional activities in the field. Dr. Madhu S. Gupta, the first occupant of the chair, maintains a major involvement in professional work in the discipline and has received international recognition from his professional peers as a distinguished educator and scholar in the field of RF and microwave engineering.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of

Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

### I. Communication and Critical Thinking: 9 units

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 29 units

#### A. Natural Sciences and Quantitative Reasoning (17 units):

1. Physical Sciences (7 units)  
Physics 195 (3 units)  
Physics 196 and 196L (4 units)
2. Life Sciences (3 units)  
Engineering students will take Biology 100 or 101.
3. Laboratory (satisfied under A.1. above)
4. Mathematics/Quantitative Reasoning  
You may **not** use Credit/No Credit grades.  
Mathematics 150 (3 units applicable to General Education)  
Mathematics 151 (4 units)

#### B. Social and Behavioral Sciences (3 units)

#### C. Humanities (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

### III. American Institutions: Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

### IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education. Total 9 units; must include one course of cultural diversity.

#### A. Upper division Humanities (3 units)

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

#### B. Upper division Humanities (3 units from a department not selected in A above.)

#### C. Upper division Social and Behavioral Sciences (3 units)

## The Major

Computers are machines that store and process information. Desktop computers, portables, workstations, and mainframe computers are the most readily recognized examples of such devices. Equally important, however, are the millions of tiny computers (microprocessors) that are embedded in machines, instruments, and products of all sorts. For example, there are embedded computers in VCRs, cameras, telephones, CD/DVD players, televisions, washing machines, ovens, robots, automobiles, airplanes, medical instruments, toys, and many other devices, both familiar and exotic.

Computer Engineers are involved in the design, development, manufacture, installation, and operation of general purpose and embedded computers of all sorts. They are both concerned with hardware (i.e., the electronic circuits and devices that actually store and process information) and software (i.e., the programs that control the operation of the hardware). The B.S. degree program in Computer Engineering provides a solid foundation in the fundamentals of mathematics, science, computer hardware, computer software, and engineering design that are needed to practice the profession or to pursue a graduate degree in the field.

In addition to fundamentals, the curriculum also includes training in the areas of rapid growth that are important to modern practice of computer engineering. These include: Very Large Scale Integrated Circuits design (i.e., the design of electronic circuits implemented on silicon chips); Multimedia Systems (i.e., systems that process audio and visual information as well as text and numbers); Embedded Systems; Digital Signal Processing (DSP), which plays a vital role both in processing the continuous signals that are common in embedded system applications and in compressing and processing the large volumes of information that are common in multimedia systems; Computer Networks, which have become vital for connecting multiple computers in distributed control applications, and connecting users of general purpose computers who wish to share information and computing resources (e.g., Local Area Networks, the Internet); Graphical User Interfaces (GUIs), which are rapidly replacing text-based interfaces in nearly all applications; and Object Oriented Programming (OOP), a technique for designing more reliable and maintainable software.

The computer engineering curriculum provides a balance between theory and practice that prepares the graduate both for immediate employment and for continued study. The process of engineering design is emphasized throughout the curriculum by including open-ended problems with realistic design constraints. The design experience culminates in a capstone design course required of all students. Creativity, consideration of economic and social factors, and the application of systematic design procedures are required in major design projects during the senior year.

## Educational Objectives

The overall objective of the undergraduate program in computer engineering is to produce the best skilled, hands on practicing computer engineer. More specifically the objectives are:

- To provide students with the technical knowledge and skills that will enable them to have a successful career in the computer engineering profession;
- To provide students with a general education that will enable them to appreciate the social, ethical, economic, and environmental dimensions of problems they may face;
- To develop in students the communication skills and social skills that are necessary to work effectively with others;
- To develop the ability of students to solve problems by learning what is already known, and then applying logic and creativity to find a solution;
- To provide students with the intellectual skills necessary to continue learning and to stay current with the profession as it changes.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Computer Engineering Major

With the B.S. Degree

(Major Code: 09094) (SIMS Code: 445001)

The program below describes the 129 units required for the degree.

**Preparation for the Major.** Computer Engineering 160, 260, 270, 271; Biology 100 or 101; Electrical Engineering 210; Engineering 280; Mathematics 150, 151, 245, 254; Physics 195, 196, 196L. (42 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as

listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree. (Fifty units, including 17 units from preparation for the major which count toward General Education credit, and three units of American institutions which count toward General Education credit.)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 51 upper division units to include Computer Engineering 361, 375, 470, 470L, 475, 490, 560; Electrical Engineering 300, 310, 330, 330L, 410; one approved elective course in mathematics (3 units); three approved elective courses selected from computer engineering, electrical engineering, or other approved elective (9 units); two approved technical elective courses in computer engineering, computer science, or electrical engineering (6 units). After enrollment in Computer Engineering at SDSU, the Computer Engineering major must take all upper division computer science and engineering courses at SDSU unless prior approval is obtained from the department.

**Master Plan.** A master plan of elective courses must be approved by the faculty adviser and department chair and filed with the Office of Advising and Evaluations during the first semester of the junior year. Changes to the master plan are permitted at any time, with approval of the department chair.

## Courses (COMPE)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

**NOTE: Prerequisites will be enforced in all undergraduate computer engineering and electrical engineering courses numbered 100 through 599. A copy of an official transcript will be accepted as proof. For corequisites, an enrollment confirmation form will be accepted.**

**Any course at the 300 level or below must be passed with a grade of C- or better in order to be used as a prerequisite for any subsequent course.**

### LOWER DIVISION COURSES

#### COMPE 160. Introduction to Computer Programming (3)

Two lectures and three hours of laboratory.

Prerequisite: Mathematics 150.

Computer organization and operation. Binary representation of information. Fundamentals of computer programming using a C family language: data types, selection and iteration structures, functions, arrays, pointers, scope and duration of variables. Systematic design and development of computer programs.

#### COMPE 260. Data Structures and Object-Oriented Programming (3)

Prerequisites: Computer Engineering 160 and Mathematics 245.

Data structures using object-oriented programming. Disciplined approach to design, coding, and testing using OOP, teach use and implementation of data abstractions using data structures. Arrays, linked lists, stacks, queues, trees. Sorting, searching, recursive algorithms.

#### COMPE 270. Digital Systems (3)

Prerequisite: Mathematics 151.

Modelling, analysis and design of digital systems, primarily at the Logic Design level. Combinational and sequential networks. Not open to students with credit in Electrical Engineering 370.

#### COMPE 271. Computer Organization (3)

Prerequisites: Computer Engineering 160 and 270.

Organization and operation of computer hardware and software. Operating system shell and services. Program design and development. Input-output programming. Multi-module and mixed-language programming. Assembler and C language.

COMPE



### UPPER DIVISION COURSES (Intended for Undergraduates)

#### COMPE 361. Windows Programming (3)

Prerequisites: Computer Engineering 260 and 271.

Object Oriented Programming (OOP) using C# and .NET Framework. Graphical User Interface (GUI) and event-driven programming. Visual Studio Integrated Development Environment (IDE). Graphics programming.

#### COMPE 375. Embedded Systems Programming (3)

Two lectures and three hours of laboratory.

Prerequisite: Computer Engineering 271.

Embedded system architecture; IO programming using parallel ports, serial ports, timers, and D/A and A/D converters; interrupts and real-time programming; program development and debugging tools; C language and assembler.

#### COMPE 460. Software Design and Engineering (3)

Prerequisite: Computer Engineering 361.

Software design and engineering using object-oriented concepts. Object-oriented software development, classes, inheritance, design by abstraction, design patterns, object-oriented application framework, and introduction to concurrent and distributed computing. Application through design case study.

#### COMPE 470. Digital Circuits (3)

Prerequisite: Computer Engineering 270.

Design of digital electronic systems using commercially available high-speed digital devices and circuits.

#### COMPE 470L. Digital Logic Laboratory (1)

Three hours of laboratory.

Prerequisites: Computer Engineering 470 and Electrical Engineering 330L.

Hands-on experience in characterization and application of standard digital integrated circuit devices.

#### COMPE 475. Microprocessors (3)

Prerequisites: Computer Engineering 375 and 470.

Bus design, memory design, interrupt structure, and input/output for microprocessor-based systems.

#### COMPE 490. Senior Design Project (4)

Two lectures and six hours of laboratory.

Prerequisites: Computer Engineering 375, Electrical Engineering 330L, and credit or concurrent registration in Computer Engineering 470L.

Supervised capstone design projects to provide an integrative design experience for seniors to include ethics, professionalism, cost-effectiveness, and project management.

#### COMPE 496. Advanced Computer Engineering Topics (1-3)

Prerequisite: Consent of instructor.

Modern developments in computer engineering. See *Class Schedule* for specific content. Maximum credit nine units for any combination of Computer Engineering 496 and 596 applicable to a bachelor's degree.

#### COMPE 499. Special Study (1-3)

Prerequisites: Approval of project adviser and department chair. Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### COMPE 560. Computer and Data Networks (3)

Prerequisites: Computer Engineering 271 and Electrical Engineering 410.

Wide area and local area networks, multi-layered protocols, telephone systems, modems, and network applications.

#### COMPE 561. Windows Database and Web Programming (3)

Prerequisite: Computer Engineering 361.

Programming applications involving file systems, relational databases, Structured Query Language (SQL), ADO.NET, client-server architecture, multithreading sockets, web servers, web browsers, web services, ASP.NET, Hypertext Markup Language (HTML), and Extensible Markup Language (XML).

#### COMPE 565. Multimedia Communication Systems (3)

Prerequisite: Credit or concurrent registration in Computer Engineering 560.

Design and implementation of multimedia communication systems. Image compression, JPEG, VQ, cell-B standards. Video and audio compression standards, MPEG, MPEG-2, H.26X, G.72X. Data storage systems and multimedia requirements. Networking requirements and networks as multimedia carriers. Transport and network protocols for carrying multimedia over data networks. Multimedia system design, scheduling, congestion control, traffic shaping, buffer management.

#### COMPE 571. Real-Time Operating Systems (3)

Prerequisites: Computer Engineering 260 and 475.

Real-time kernel, basic kernel services, threading and synchronization, preemptive multithreading, mutexes, spin locks, critical sections, priority scheduling, interrupts, RTOS implementation, memory management, task management, intertask communications.

#### COMPE 572. VLSI Circuit Design (3)

Prerequisites: Computer Engineering 271 and Electrical Engineering 330.

Design of digital integrated circuits based on CMOS technology; characterization of field effect transistors, transistor level design and simulation of logic gates and subsystems; chip layout, design rules, introduction to processing; ALU architecture.

#### COMPE 596. Advanced Computer Engineering Topics (1-3)

Prerequisite: Consent of instructor.

Modern developments in computer engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of nine units for any combination of Computer Engineering 496 and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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# Computer Science

In the College of Sciences

**OFFICE:** Geology/Mathematics/Computer Science 413

**TELEPHONE:** 619-594-6191

**<http://www.cs.sdsu.edu>**

The B.S. degree in Computer Science is accredited by the Computing Accreditation Commission of ABET, Inc.

## Faculty

Emeritus: Anantha, Baase-Mayers, Donald, Marovac, Vinge  
Chair: Beck  
Professors: Beck, Carroll, Stewart, Swinarski, Tarokh, Vuskovic  
Associate Professors: Eckberg, Roch, Valafar, Whitney  
Assistant Professors: Edwards, Xie  
Lecturers: Bajic, Lewis, Riggins  
Adjunct: Root, Thomas

## Offered by the Department

Master of Science degree in computer science.

Major in computer science with the B.S. degree in applied arts and sciences.

Major in computer science with the B.A. degree in liberal arts and sciences.

Minor in computer science.

Certificate in geographic information science.

## The Major

Computer Science is the study of computers and their applications. It is concerned with methods for storing and retrieving information, with the design and use of languages for writing computer programs, with the hardware systems that interpret such languages, and with the theoretical principles that form the foundations of computing. Computer Science includes a wide variety of specialties and application areas such as artificial intelligence, robotics, graphics, systems programming, simulation, and computer networks.

The Bachelor of Science in Computer Science is designed to provide students with a fundamental understanding of modern computing methodology and programming practices along with a complementary knowledge of hardware. The first two years provide the basic preparation in programming, data structures and architecture. The final two years are devoted to more advanced fundamentals and specialized electives.

Computers are used to store and manage information, to analyze scientific data, and in a wide variety of other applications. Computing technology is found in an almost limitless number of settings, ranging from automobiles to household appliances to toys. Because of this, a wide range of jobs are open to people trained in Computer Science. Employment opportunities are expected to remain very strong.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Computer Science Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 07011) (SIMS Code: 773801)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required for this major.

**Preparation for the Major.** Computer Science 107, 108, 237; Mathematics 150, 151, 245, 254; Statistics 250; and 12 units of science courses selected with approval of computer science adviser. The science courses must include one of the following two-semester sequences with laboratory: Physics 195, 195L, 196, 196L; or Chemistry 200, 201; or Biology 203, 203L, 204, 204L. The remainder of the 12 units must be science courses or courses that enhance the student's ability to apply the scientific method. (38 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 37 upper division units to include Computer Science 310, 320, 370, 440, 490, 530, 560, 570; at least one course selected from Mathematics 541, 579, Statistics 350A, 550, or 551A; and 12 units of computer science electives selected with the approval of a computer science major adviser. At least nine units of electives must be in computer science.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by a major adviser and filed with the Office of Advising and Evaluations.

## Computer Science Minor

**(SIMS Code: 773801)**

The minor in computer science consists of a minimum of 18-24 units in computer science and mathematics to include Computer Science 107, 108; and at least 12 upper division units, or at least nine upper division units if the student completes a full calculus sequence, i.e., Mathematics 121 and 122, or 150 and 151. The courses selected are subject to the approval of the minor adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Geographic Information Science Certificate\*

**(Certificate Code: 90032) (SIMS Code: 112949)**

The purpose of the program is to prepare students to acquire, manage, and visualize geospatial data in public and private organizations. Students must apply for admission to the program before the completion of 12 certificate units and must complete the required units with a 2.5 grade point average.

The certificate requires 27 units distributed between the departments of Computer Science and Geography as follows: 12-15 units selected from Computer Science 105, 107, 108, 220, 310, 320, 503, 514, 520, 535, 551, 575, and 12-15 units selected from Geography 104, 381, 484, 581-589. Courses with relevant content (e.g. Computer Science 596 or Geography 596) may be substituted for the computer science and geography courses with the approval of the certificate adviser. Courses in the certificate may be counted toward the major in computer science if applicable.

\* Additional prerequisites required for this certificate.

CS

## Courses (cs)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### CS 100. Fundamental Ideas in Computer Science (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Capabilities and applications of computers. Algorithmic problem-solving methods and computer programming. Using computers to examine questions from other fields of study. Practical and theoretical limits to computation. Machine intelligence and heuristic problem solving. Social and legal impact of computers.

#### CS 105. Visual Basic Programming (3)

Programming and problem solving using Visual Basic programming language on the PC. Applications to GIS, computer games.

#### CS 106. Introduction to Computer Programming with FORTRAN (3)

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Introduction to problem solving on a computer, design of algorithms, and use of FORTRAN language. Extensive programming.

#### CS 107. Introduction to Computer Programming (3)

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Programming methodology and problem solving. Basic concepts of computer systems, algorithm design and development, data types, program structures. Extensive programming in Java.

#### CS 108. Intermediate Computer Programming (3)

Prerequisites: Qualification on the Mathematics Departmental Placement Examination, Part IA; and Computer Science 107.

Further training in program design and development. Introduction to data structures: stacks, queues, linear lists, trees, sets, and recursion. Extensive programming in Java.

#### CS 205. Introduction to Computational Programming and Visualization (3)

Prerequisite: First semester calculus (either Mathematics 120 or 121 or 150).

Problem solving skills for needs of science. Use of computing and software tools of computational science introduced to gain competence in computer communications, programming and visualization. Supervised computer laboratory.

#### CS 220. UNIX and the C Programming Language (3)

Prerequisite: Computer Science 108.

Introduction to the UNIX operating system: shell programming, major system services and utilities. The C language: its features and their significance in the UNIX programming environment.

#### CS 237. Machine Organization and Assembly Language (3)

Prerequisite: Computer Science 108.

General concepts of machine and assembly language, data representation, looping and addressing techniques, arrays, subroutines, macros. Extensive assembly language programming.

#### CS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### CS 299. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### CS 301. Computers and Society (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Impact of computers and computing technology on society: applications, benefits, and risks. Topics include privacy, copyright, computer crime, constitutional issues, risks of computer failures, evaluating reliability of computer models, computers in the workplace, trade and communications in the global village. Not open to computer science majors or to students with credit in Computer Science 440.

#### CS 310. Data Structures (3)

Prerequisites: Computer Science 108 and Mathematics 245.

Representations and operations on basic data structures. Arrays, linked lists, stacks, queues, and recursion; binary search trees and balanced trees; hash tables, dynamic storage management; introduction to graphs. An object oriented programming language will be used.

#### CS 320. Programming Languages (3)

Prerequisite: Computer Science 108.

Principles of high-level programming languages, including formal techniques for syntax specification and implementation issues. Languages studied should include at least C++, FORTRAN, and LISP.

#### CS 370. Computer Architecture (3)

Prerequisite: Computer Science 237.

Logic gates, combinational circuits, sequential circuits, memory and bus system, control unit, CPU, exception processing, traps and interrupts, input-output and communication, reduced instruction set computers, use of simulators for analysis and design of computer circuits, and traps/interrupts.

#### CS 425. Tcl and Tk Interface Programming (3)

Prerequisite: Computer Science 220.

Presentation of Toolkit Command Language (Tcl) and Toolkit (Tk) languages, a portable programming environment for creating graphical user interfaces under X Windows, Microsoft Windows, and Macintosh. Writing scripts for Tcl, Tk, and extensions such as Expect.

#### CS 435. Advanced Java Programming (3)

Prerequisite: Computer Science 310.

Object oriented modeling techniques and tools; use cases; UML models and diagrams. Exception handling, I/O with objects, random access I/O, subclasses and inheritance, overloading versus overriding, interfaces and abstract classes, threads, cloning, packages, documentation aids, archiving and compression, iterators and comparators.

#### CS 440. Social, Legal, and Ethical Issues in Computing (3)

Prerequisite: Computer Science 108.

Impact of computers, applications, and benefits, copyright, privacy, computer crime, constitutional issues, risks of computer failures, evaluating reliability of computer models, trade and communications in the global village, computers in the workplace, responsibilities of the computer professional. Not open to students with credit in Computer Science 301.

#### CS 470. UNIX System Administration (3)

Prerequisite: Computer Science 220.

Installing the UNIX operating system on a UNIX workstation, adding user accounts, backing up and restoring user files, installing windows, adding network capabilities, adding printers and other peripherals.

**CS 490. Senior Seminar (1)**

Prerequisite: Fifteen units of upper division computer science courses.

Preparation and delivery of oral presentations on advanced topics in computer science. General principles of organization and style appropriate for presenting such material.

**CS 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**CS 497. Undergraduate Research Seminar (3)**

Six hours of laboratory and one hour with adviser.

Prerequisites: Computer Science 560 or 570, minimum grade point average of 3.3, and consent of instructor.

Designing and carrying out independent research in one of the areas of computer science. Literature search, technical report writing, and oral presentation of results.

**CS 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**CS 501. Computational Software (3)**

Prerequisites: Computer Science 106 and 310.

Design and implementation of software for computational science. Makefiles in UNIX environment, efficient Fortran and 00 programming, use of common application libraries, file and source code management, software documentation, construction of libraries and applications. Designed for computational science students. Computer science majors must obtain adviser approval.

**CS 503. Scientific Database Techniques (3)**

Prerequisites: Computer Science 205, 310, and Mathematics 245.

Fundamental data models for handling scientific data, including flat file, indexed compressed files, relational databases, and object oriented databases, and their associated query technologies; e.g. file formats, input/output libraries, string searching, structured query language, object-oriented structured query language, hypertext markup language/common gateway interface, and other specialized interfaces. Designed for computational science students. Computer science majors must obtain adviser approval. See Computer Science 514.

**CS 514. Database Theory and Implementation (3)**

Prerequisites: Computer Science 310 and Mathematics 245.

Database systems architecture. Storage structures and access techniques. Relational model, relational algebra and calculus, normalization of relations, hierarchical and network models. Current database systems.

**CS 520. Advanced Programming Languages (3)**

Prerequisites: Computer Science 237, 310, and 320.

Object oriented programming, concurrent programming, logic programming. Implementation issues.

**CS 524. Compiler Construction (3)**

Prerequisites: Computer Science 237, 310, and 320.

Syntactical specification of languages. Scanners and parsers. Precedence grammars. Run-time storage organization. Code generation and optimization.

**CS 530. Systems Programming (3)**

Prerequisites: Computer Science 237 and 310.

Design and implementation of system software. Relationship between software design and machine architecture. Topics from assemblers, loaders and linkers, macro processors, compilers, debuggers, editors. Introduction to software engineering and review of programming fundamentals and object oriented concepts. Large project in object oriented programming is required. Not acceptable for the M.S. degree in computer science.

**CS 532. Software Engineering (3)**

Prerequisites: Computer Science 320 and 530.

Theory and methodology of programming complex computer software. Analysis, design, and implementation of programs. Team projects required.

**CS 533. Component Based Software Engineering (3)**

Prerequisites: Computer Science 310 and 320.

Component based (CB) software development using UML and other design methods. Development of components for use in CB systems; CB software architectures; development of CB systems; comparison of traditional and CB system development methods.

**CS 534. Software Measurement (3)**

Prerequisite: Computer Science 532.

Basics of software measurement and use of measurement information to ensure quality software and determine software process effectiveness. Software estimation, cost estimation models, definition of various measures, tools to support measurement collection and analysis, analysis techniques, and case studies.

**CS 535. Object-Oriented Programming and Design (3)**

Prerequisites: Computer Science 310 and 320.

Basic concepts of object-oriented programming; classes, objects, messages, data abstraction, inheritance, encapsulation. Object-oriented design methodology.

**CS 537. Component GIS Architectures (3)**

Prerequisite: Computer Science 310 or Geography 484.

Customization of Geographic Information Science application development platforms with emphasis on object oriented programming and component architecture. Prominent examples are Map Objects with Visual Basic, Map Objects with Java. Considerable programming effort required, especially in Graphical User Interface development.

**CS 540. Software Internationalization (3)**

Prerequisite: Computer Science 310.

Principles, techniques, and resources for design and implementation of software localizable to multiple languages and/or cultures, including detailed examination of internationalization features provided by one or more widely used modern programming languages.

**CS 541. Online Documentation and Help Systems (3)**

Prerequisite: Computer Science 310.

Design, implementation, and maintenance of online documentation and help systems, including authoring principles and standards; theory and practice of single-source content management; survey of available development tools and resources; internationalization; and project management.

**CS 542. XML for Multilingual and Multicultural Applications (3)**

Prerequisite: Computer Science 310.

Principles, techniques, and resources for designing and utilizing globalized XML documents in multilingual and multicultural information systems.

**CS 550. Artificial Intelligence (3)**

Prerequisites: Computer Science 108 and either Mathematics 245 or 523.

Heuristic approaches to problem solving. Systematic methods of search of the problem state space. Theorem proving by machine. Resolution principle and its applications.

**CS 551. User Interface Environments (3)**

Prerequisites: Computer Science 310 and 320.

Design of user-machine interfaces in interactive systems. Problems faced by user of an interactive system; basic issues and principles involved in design and implementation of good and friendly user-machine graphical interfaces.

**CS 552. Artificial Intelligence II (3)**

Prerequisite: Computer Science 550.

Limitations of symbol-based approach to artificial intelligence from Computer Science 550. Presented alternatives are genetic and probabilistic approaches, connectionist and emergent representation and learning, natural language processing, intelligence measures and cognitive models. Seminal publications shaping these techniques.

## CS 553. Neural Networks (3)

Prerequisites: Computer Science 320 and Mathematics 254.  
Principles of neural networks, their theory and applications.

## CS 556. Robotics: Mathematics, Programming, and Control (3)

Prerequisites: Computer Science 320, Mathematics 254, knowledge of the C programming language.

Robotic systems including manipulators, actuators, sensors, and controllers. Kinematics of planar robots. Design and implementation of robot joint controllers. Robot programming languages and environments, and robot command interfaces.

## CS 558. Computer Simulation (3)

Prerequisites: Computer Science 310 and Statistics 550.

Methodology of simulation for discrete and continuous dynamic systems. State-of-the-art programming techniques and languages. Statistical aspects of simulation. Students will design, program, execute, and document a simulation of their choice.

## CS 559. Computer Vision (3)

Prerequisites: Computer Science 310 and Mathematics 254.

Algorithms and computer methods for processing of images. Visual perception as a computational problem, image formation, characterization of images, feature extraction, regional and edge detection, computer architectures for machine vision.

## CS 560. Algorithms and Their Analysis (3)

Prerequisite: Computer Science 310.

Algorithms for solving frequently occurring problems. Analysis techniques and solutions to recurrence relations. Searching and sorting algorithms. Graph problems (shortest paths, minimal spanning trees, graph search, etc.). NP complete problems. Not acceptable for the M.S. degree in Computer Science.

## CS 561. Web Application Development (3)

Prerequisite: Computer Science 310.

Architectural elements for programming web pages and dynamic Web sites. Development of web applications using xhtml, CSS, client-side browser languages, and dynamic web applications using backend server languages with database systems.

## CS 562. Automata Theory (3)

Prerequisite: Mathematics 245 or 521A.

Definition of finite automata. Classification of finite automaton definable languages. Minimization of finite automata. Nondeterministic finite automata. Sequential machines with output. Regular sets and expressions. Introduction to grammars.

## CS 566. Queueing Theory (3)

Prerequisites: Computer Science 108 and Statistics 119 or 250.

Performance prediction of computer networks and other systems (e.g., inventory control, customer service lines) via queueing theory techniques. Operational analysis.

## CS 570. Operating Systems (3)

Prerequisites: Computer Science 310, 370, and knowledge of the C programming language.

File systems, processes, CPU scheduling, concurrent programming, memory management, protection. Relationship between the operating system and underlying architecture. Not acceptable for the M.S. degree in Computer Science.

## CS 572. Microprocessor Architecture (3)

Prerequisites: Computer Science 370 and knowledge of the C programming language.

Architecture of state-of-the-art microprocessor. Internal pipeline, internal cache, external cache, and memory management. Programming a uniprocessor. Communication among computers in a distributed environment. Architecture and programming of a multiprocessor system.

## CS 574. Computer Security (3)

Prerequisites: Computer Science 310; Mathematics 245; Statistics 550; and credit or concurrent registration in Computer Science 570.

Principles of computer security and application of principles to operating systems, database systems, and computer networks. Topics include encryption techniques, access controls, and information flow controls.

## CS 576. Computer Networks and Distributed Systems (3)

Prerequisite: Credit or concurrent registration in Computer Science 570.

Basic networking concepts such as seven-layer reference model, transmission media, addressing, subnetting and supernetting, networking devices, LANs and WANs, internetworking, distributed processing, and client-server model. Basic concepts and protocols of TCP/IP protocol suite and basic Internet services.

## CS 580. Client-Server Programming (3)

Prerequisites: Computer Science 570 and knowledge of an object-oriented programming language. Recommended: Computer Science 576.

Client-server model, networking protocols for client-server programs, algorithmic issues in client-server programs, client-server protocols, implementing client-server applications.

## CS 581. Computational Linguistics (3)

(Same course as Linguistics 581)

Prerequisites: Computer Science 320 or Linguistics 571; Linguistics 570 or Mathematics 245.

Basic concepts in computational linguistics including regular expressions, finite-state automata, finite-state transducers, weighted finite-state automata, and n-gram language models. Applications to phonology, orthography, morphology, syntax. Probabilistic models. Statistical techniques for speech recognition.

## CS 582. Introduction to Speech Processing (3)

Prerequisite: Computer Science 310.

Fundamentals of speech processing and speech recognition. Physical aspects of speech production and perception. Mathematical models for speech recognition. Corpus development: data collection, processing, and evaluation. Applications of speech processing and associated research topics.

## CS 583. 3D Game Programming (3)

Prerequisite: Computer Science 310 or equivalent programming background.

Development of programming skills using software environment of a game engine and its scripting language. 3D concepts for game play, modeling, and programming. Roles needed in software development team. Contrast creation of original 3D object models for game world with incorporation of pre-created generic models.

## CS 596. Advanced Topics in Computer Science (1-4)

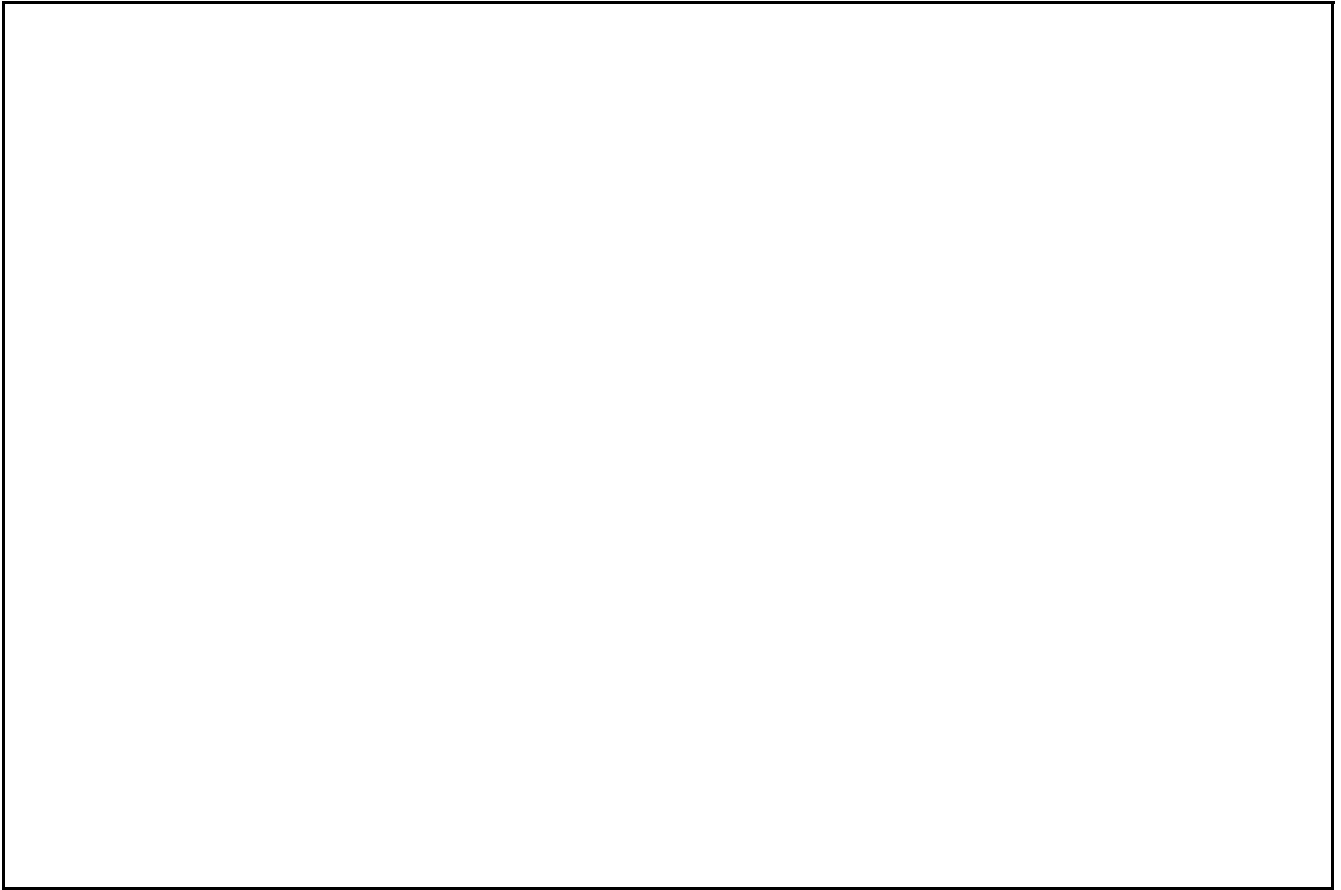
Prerequisite: Consent of instructor.

Selected topics in computer science. May be repeated with the approval of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### For additional courses useful to computer scientists, see:

Mathematics 541.	Introduction to Numerical Analysis and Computing
Mathematics 542.	Introduction to Numerical Solutions of Differential Equations
Mathematics 561.	Applied Graph Theory
Mathematics 579.	Combinatorics

### GRADUATE COURSES Refer to the *Graduate Bulletin*.



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# Construction Engineering

In the College of Engineering

**OFFICE: Engineering 424**

**TELEPHONE: 619-594-6071**

**E-MAIL: [construction@engineering.sdsu.edu](mailto:construction@engineering.sdsu.edu)**

## Faculty

Chair: Supernak

The AGC Paul S. Roel Chair in Construction Engineering and Management: Walsh

Professors: Bayasi, Supernak, Walsh

Assistant Professors: Alves, Milberg

## Offered by the Department of Civil, Construction, and Environmental Engineering

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in civil engineering.

Concentration in environmental engineering.

Major in civil engineering with the B.S. Degree

Major in construction engineering with the B.S. degree.

Major in environmental engineering with the B.S. degree.

## The J.R. Filanc Construction Engineering and Management Program

The J.R. Filanc Construction Engineering and Management Program is supported by an endowment established by a generous gift from Jane E. and Jack R. Filanc in memory of their daughter, Julia L. Filanc, a graduate of San Diego State University. Jack Filanc founded what would become J.R. Filanc Construction Company in 1952. The endowment supports faculty and students in the program, as well as the biannual J.R. Filanc Lecture in Construction Ethics.

J.R. Filanc Construction Company specializes in the construction of water treatment and wastewater treatment plants, pump stations, and other water-related facilities for cities and municipal agencies throughout the Southwest. Functioning as a pure general contractor, the company self-performs 70% of the work on its construction projects.

## The Associated General Contractors (AGC) Paul S. Roel Chair in Construction Engineering and Management

The AGC Paul S. Roel Chair in Construction Engineering and Management is funded with an endowment established by generous gifts from members of the Associated General Contractors in San Diego Chapter. Recognizing the need for expert construction professionals, the local construction community has invested considerable resources in this new degree program. In particular, the endowment is funded by a significant gift from Roel Construction, in honor of Paul S. Roel, the son of the company's founder and the man responsible for moving the family business to San Diego in 1959. The first appointee to the Chair, Dr. Kenneth D. Walsh, is an accomplished teacher-scholar, with a research background in improvement of production systems in construction.

## Mission of the Department

The mission of the Department of Civil, Construction, and Environmental Engineering is to provide a high quality undergraduate and graduate education in the civil, construction, and environmental engineering areas as well as the advising and other support needed to ensure the students' academic success and preparation for a

productive engineering career. In addition, through research and continuing professional development, the faculty produce, enhance and promote new developments within their areas of expertise for the benefit of society and the furtherance of their profession.

The objective of the program is to give the student a basic knowledge of civil, construction, and environmental engineering, as well as the interdisciplinary background and skills to meaningfully participate in and contribute technical advances toward this profession. The program integrates technical aspects with studies in the social sciences and humanities to ensure appropriate sensitivity to socially related problems.

Instruction is given both at the undergraduate level, leading to the bachelor's degree, and at the graduate level, leading to the master's or doctoral degrees. The undergraduate program builds upon concepts of mathematics, physics, chemistry and basic engineering with specialized study in civil, construction, and environmental engineering. Engineering design is emphasized, particularly in conjunction with computer utilization and practical engineering problems. Aspects of safety and engineering ethics are woven throughout the program. Breadth and depth of social science and humanities studies is assured by department approved courses. Completion of the undergraduate degree prepares the student for an entry-level professional position in addition to informal or formal graduate studies.

Many students who complete the undergraduate programs of the department choose to continue their formal studies on a full- or part-time basis at San Diego State University or at another institution. (See the *Graduate Bulletin* for additional information.)

The civil, construction, and environmental engineering programs are enhanced through cooperation with the American Society of Civil Engineers, the American Public Works Association, the Associated General Contractors, the Chi Epsilon Civil Engineering Honor Society, and other national organizations who sponsor student chapters to further aid the student's professional development. The chapters at San Diego State University have won many awards in regional and national competition with other schools throughout the country.

## Educational Objectives

The construction engineering program is to reflect a collaborative effort between the construction industry and the university to provide an effective and vigorous workforce development for the continued growth of the San Diego region. The objectives of the construction engineering program are: 1) to provide graduates with the technical knowledge and skills required to practice construction engineering and manage construction projects; 2) to provide graduates with an understanding of the ethical, social, legal, and professional issues faced by the construction industry; and 3) to provide graduates with a solid foundation for graduate studies, continuing education, and lifelong professional development.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, unaccredited work will be evaluated for full or partial credit.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II

and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

**I. Communication and Critical Thinking:** 9 units

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

**II. Foundations of Learning:** 29 units

**A. Natural Sciences and Quantitative Reasoning** (17 units):

1. Physical Sciences (11 units)  
Engineering students will take Chemistry 200 which includes a laboratory (5 units).  
Physics 195 (3 units)  
Physics 196 (3 units)
2. Life Sciences (3 units)  
Engineering students will take Biology 100 or 101.
3. Laboratory (satisfied under A.1. above)
4. Mathematics/Quantitative Reasoning  
Engineering students will take Mathematics 150, 3 units applicable to General Education. You may **not** use Credit/No Credit grades in this section.

**B. Social and Behavioral Sciences**

Construction engineering students will take Economics 102 (3 units)

**C. Humanities** (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

Construction engineering students will take Philosophy 101 (3 units), Construction Engineering 101 (3 units), and are strongly encouraged to take Spanish 101, 102, 201, 202, 211, 212, 281, or 282.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.**

Total: 9 units; must include one course of cultural diversity.

- A. Upper division Humanities  
Construction engineering students will take Philosophy 332 (3 units).
- B. Upper division Humanities (3 units from a department not selected in A above.)
- C. Upper division Social and Behavioral Sciences

## The Major

Construction engineering is the application of engineering principles to the human endeavor of construction. The construction engineering major prepares students to undertake careers in the leadership of construction enterprises for all types of construction, including public and private sectors. It also provides an understanding of the interaction between society and the built environment and the ethical issues involved in that interaction.

Construction engineers are needed in both the private and public sectors. They are employed in a range of capacities across the industry, from construction managers, owner's representatives, project engineers, among others. The dynamic and rapid expansion of the regional, national, and global economies and the continued need for housing and other facilities will drive demand for the degree in the foreseeable future.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Construction Engineering Major

**With the B.S. Degree**

**(Major Code: 09254) (SIMS Code: 442010)**

The program below describes 130 units required for the degree. Each course specifically listed in the program is required. In addition, the number of units specified in each elective category represents a minimum requirement.

**Preparation for the Major.** Construction Engineering 101, 201, 280; Accountancy 201; Biology 100 or 101; Chemistry 200; Civil Engineering 120, 121, 160, 218; Economics 102; Engineering Mechanics 200; Geological Sciences 100, 101; Mathematics 150, 151; Philosophy 101; Physics 195, 196. (59 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 44 upper division units to include Construction Engineering 301, 310, 312, 320, 401, 430, 479, 480, 490; Civil Engineering 301, 302, 321, 462, 463, 495; and three units selected from the following:

**Technical Electives.** Construction Engineering 402, 420; Civil Engineering 421, 465, 525, 528.

**Master Plan.** A master plan of elective courses must be approved by the undergraduate adviser and filed with the Office of Advising and Evaluations as soon as the construction engineering major is declared. Students are required to see their undergraduate adviser prior to registration each semester.



### Courses (CON E)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**NOTE: Proof of completion of prerequisites (copy of transcript) is required for all courses which list prerequisites.**

#### LOWER DIVISION COURSES

##### CON E 101. Construction and Culture (3) [GE]

Cultural context of construction, emphasizing its centrality in evolution and expansion of built environments as expressions of ethical and historical value systems. Relationship between culture, geography, construction materials, and built expressions of cultural legacy. Interdependence of built environment and society.

##### CON E 201. Construction Concepts and Building Codes (3)

Concepts of control and information exchange in construction. Purpose and function of fundamental information flows, function, and development of construction-related codes and standards to protect public health and safety, compliance with requirements, and design using codes.

##### CON E 280. Construction Methods (3)

One lecture and six hours of laboratory.

Components and methods of construction including earthwork; foundations; wood, steel, and concrete construction; roofing and cladding; interior construction. Field experience in conducting and/or observing construction operations. Concepts of production in a construction setting.

#### UPPER DIVISION COURSES (Intended for Undergraduates)

##### CON E 301. Construction Ethics, Law, and Contracts (3)

Prerequisites: Construction Engineering 101, 201, Philosophy 101.

Legal and ethical environment of construction. Study of documents and common procedures in construction administration and their legal and ethical contexts for general contractors and subcontractors. Contract documentation, claim in various construction delivery methods.

##### CON E 310. Analysis and Design of Construction Operations (3)

Prerequisite: Construction Engineering 280.

Properties and methods for use of construction equipment and integration of construction equipment into production system. Assessment of equipment needs and selection. Site utilization and layout planning, incorporating efficiency and safety of operations.

##### CON E 312. Mechanical and Electrical Principles for Construction (3)

Two lectures and three hours of laboratory.

Prerequisites: Mathematics 151 and Physics 196.

Engineering principles for mechanical, electrical, plumbing systems. Thermodynamics, energy principles, psychometrics. Electrical theory, circuits, motors. Static and dynamic principles for fluids, pipe flow. Mechanical and plumbing equipment.

##### CON E 320. Construction Estimating (3)

Two lectures and three hours of laboratory.

Prerequisite: Credit or concurrent registration in Construction Engineering 310.

Identifying and estimating time and cost requirements for construction operations based on drawings and specifications. Use computer applications for estimating.

##### CON E 401. Construction Planning and Scheduling (3)

Two lectures and three hours of laboratory.

Prerequisites: Construction Engineering 320 and Civil Engineering 160 for construction engineering majors; Civil Engineering 160 and 321 for civil engineering majors.

Fundamentals of scheduling logic including critical path method, deterministic and probabilistic scheduling, and impact of constraints. Development of construction plan and representation in schedule format using common computer applications used in industry.

##### CON E 402. Mechanical and Electrical Systems (3)

Two lectures and three hours of laboratory.

Prerequisites: Construction Engineering 280, 301, Physics 196.

Fundamentals of heating, ventilation, electrical circuits, and distribution systems. Simple sizing and balancing operations. Construction principles and practices for mechanical and electrical work. Specialty cost estimation, material handling, and labor analysis. Subcontracts and agreements for specialty construction.

##### CON E 420. Environmentally Conscious Construction (3)

Two lectures and three hours of laboratory.

Prerequisite: Construction Engineering 312 for construction engineering majors; Civil Engineering 444 for civil engineering majors; concurrent registration in Civil Engineering 495 for environmental engineering majors.

Design and design processes to target a sustainable structure. Construction practices associated with protection of environment. Application of industry standards for environmental and energy performance of buildings. Impacts on selection of methods, materials, and equipment for construction. Design of procurement and management systems to support environmentally conscious building. Commissioning and startup.

##### CON E 430. Principles of Engineering Economy (3)

Prerequisite: Mathematics 151.

Mathematics of finance applied to engineering and managerial decision making. Framework for cost management in engineering and construction. (Formerly numbered Engineering 430.)

##### CON E 479. Construction Materials (3)

Two lectures and three hours of laboratory.

Prerequisite: Credit or concurrent registration in Civil Engineering 462.

Selection, design and control of mixes of portland cement and asphalt concrete. Properties of these and other materials used in construction. (Formerly numbered Civil Engineering 479.)

##### CON E 480. Design of Temporary Structures (3)

Prerequisites: Civil Engineering 321 and 462.

Design of structures for temporary support of constructed work, including scaffolding and formwork, bracing, and excavations. Influence of codes and standards on the design process, selection of degrees of safety, and concepts of liability.

##### CON E 490. Construction Project Management and Safety (3)

Prerequisites: Construction Engineering 401 and 430.

Management and control functions for construction projects. Execution of projects based on plan, estimate and bid documentation. Fundamentals of construction safety planning, design, and requirements.

**For additional courses in the construction engineering program, refer to "Civil Engineering" in this section of the catalog.**

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#### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Counseling and School Psychology

In the College of Education

**OFFICE: North Education 179**

**TELEPHONE: 619-594-6109 / FAX: 619-594-7025**

Accredited by the California Commission on Teacher Credentialing and the National Association of School Psychologists.

## Faculty

Emeritus: Cummins, Feinberg, Hawley, Howard, Miller,  
O'Shaughnessy, Ramage, Senour, Terry-Guyer, Thompson  
Chair: Robinson-Zañartu  
Professors: Cook-Morales, Ingraham, Monk, Robinson-Zañartu  
Associate Professors: Green, Hatch, Lim, Taylor  
Assistant Professors: Booker, Butler-Byrd, Lambros Ortega

## Offered by the Department

Educational Specialist degree in school psychology.

Master of Arts degree in education.

Concentration in counseling.

Master of Science degree in counseling.

Concentration in marriage and family therapy.

Concentration in school counseling.

Pupil personnel:

School counseling credential.

School psychology credential.

Minor in counseling and social change.

## Counseling and Social Change Minor

(Minor Code: 08261) (SIMS Code: 331007)

The minor in counseling and social change consists of a minimum of 18 units, at least 12 units of which must be upper division selected from Counseling and School Psychology 320, 400, 401, 460, and three units selected from counseling and school psychology, child and family development, general studies, psychology, social work, sociology, or women's studies. Elective units must address central themes of the minor and be selected with consent of counseling and school psychology undergraduate adviser.

A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (CSP)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### CSP 300. Stress Management and Life Planning (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II. B., Social and Behavioral Sciences.

Effects of stress on physical and psychological states and life choices. Stress management practices that contribute to optimal health and productive life planning.

#### CSP 310. Group Leadership in Educational Settings (3)

Two lectures and two hours of activity.

Prerequisites: Anthropology 102 or Psychology 101 or Sociology 101; and completion of 60 units.

Identifying, classifying, and analyzing the components essential to development of leadership in educational settings. Simulation activities assist students in acquisition of group leadership skills.

#### CSP 320. Counseling Skills and Practice (3)

Basic counseling skills with focus on how they affect and may be applied within cultural interactions and for social change.

#### CSP 400. Counseling and the Helping Professions (3)

Serves as an introduction to the field of counseling and introduces the student to those professions considered to be helping professions.

#### CSP 401. Quest for Identity (3)

Impact of interpersonal, social, and cultural variables on understandings of self, relationships, and the world. Social construction of multiple identities. Meaning and salience of fluid identity development.

#### CSP 420. Popular Culture and Counseling (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Impact of popular culture on personal functioning and well-being. Meaning and salience of popular culture, social construction of popular culture in society, and convergence of popular culture and counseling.

#### CSP 450. Marriage and Family Therapy (3)

Prerequisite: Minimum of 15 units of coursework from Child and Family Development, Psychology, or Social Work.

Profession of family therapy. Problem formation and resolution processes that take place in families and other close relationships. Application of concepts within diverse contexts to one's own family experience.

#### CSP 460. Counseling and Social Change (3)

Role counselors and helping professionals play in addressing social justice issues pertaining to race and ethnicity, disability, gender and sexual orientation, socioeconomic disadvantage and research.

#### CSP 496. Experimental Topics (1-3)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degrees.

#### CSP 499. Special Study (1-3) Cr/NC

Prerequisites: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently. Individual study. Maximum credit six units.

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### CSP 596. Selected Studies (1-3)

Prerequisite: Consent of instructor.

A series of lecture and discussion sessions centering on current problems in counseling and guidance. Designed to serve the needs of any person desiring to keep informed of developments in this area. May be repeated with new content. See *Class Schedule* for specific content. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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CSP

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# Criminal Justice

In the College of Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 100**

**TELEPHONE: 619-594-6224 / FAX: 619-594-1165**

## Faculty

Emeritus: Boostrom, Gitchoff, Henderson

Director: Henry

Professors: Henry, Sutton

Associate Professors: McIlwain, Nurge, Sabbath

Assistant Professors: Kaplan, Mobley

## Offered by the School of Public Affairs

Major in criminal justice with the B.S. degree in applied arts and sciences.

## The Major

The purpose of the criminal justice program is to provide current and future decision-makers in criminal justice with the foundation for critical and balanced as well as responsible and effective administrative responses to crime. As the systems designed to deliver justice services are continually asked to accomplish more with fewer resources, the need for able and professional administrators becomes more pressing. The mission of the department is to provide graduates with the background knowledge and skills to meet this challenge.

Criminal justice majors with the B.S. degree have typically found employment at entry-level positions in local, state, and federal criminal justice agencies or in private business or security positions (e.g., loss prevention). At the local level, graduates can begin service in various capacities with police, sheriff's and marshal's offices, probation, county supervisors, city administration, and criminal justice planning agencies. At the state level, graduates may enter the Highway Patrol, Alcohol Beverage Control, Attorney General's Office, Department of Corrections, California Youth Authority, or related agencies. At the federal level, graduates are employed in agencies such as the FBI, Customs Service, Border Patrol, Secret Service, Drug Enforcement Agency, Naval Intelligence Service, Defense Investigative Services, Homeland Security, and Alcohol, Tobacco and Firearms (ATF).

A significant number of graduates of this degree program also enter law school after graduation or go on to graduate programs.

## Impacted Program

The criminal justice major is an impacted program. To be admitted to the criminal justice major, students must meet the following criteria:

- Complete with a grade of C or higher: Political Science 102; Sociology 101 and 102; and a 3-unit course in elementary statistics. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.60 or higher.

To complete the major, students must fulfill the degree requirements described in the catalog in effect at the time they are accepted into the premajor or major at SDSU and must be continuously enrolled.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education courses will also fulfill a major preparation course requirements.

## Criminal Justice Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 21051) (SIMS Code: 666925)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements in the section of this catalog on "Graduation Requirements."

A minor is not required with this major, but is allowed.

**Preparation for the Major.** Political Science 102, Sociology 101 and 102, and a three-unit course in elementary statistics (e.g., Sociology 201, Statistics 119, 250). (12 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Criminal Justice 300, 301, 302, 303, 540, and one criminal justice practicum course selected from Criminal Justice 430 (Offered only in Extension), 497, 498, 543, 550; International Security and Conflict Resolution 450. Additionally, students must complete Public Administration 301 and one upper division three-unit elective course in public administration. Students must complete 12 additional upper division units in accordance with the major academic plan, to include a minimum of six units of criminal justice electives.

**Master Plan.** Students should follow the Master Plan Advising Guide to ensure completion of major requirements. Contact the School for a copy of the guide or download it at <http://www.sdsu.edu/mymap>.

## Courses (CJ)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### CJ 300. Crime, Law, and Justice (3)

Prerequisite: Admission to the major or consent of instructor (nonmajors only).

Criminal justice-role of law in society, definition and explanations of criminal behavior, criminal justice system, methods of research, and policy.

#### CJ 301. Law in Society (3)

Prerequisite: Criminal Justice 300.

Theoretical study of law in society from classical social theorists. Major movements in legal studies during the last century. Comparative systems of law.

#### CJ 302. Crime and Behavior (3)

Prerequisite: Criminal Justice 300.

Major disciplinary paradigms used both to explain criminal behavior and to inform official criminal justice policy.

#### CJ 303. Criminal Justice and Social Control (3)

Prerequisite: Credit or concurrent registration in Criminal Justice 300.

Interrelationship of social control, social policy and administration of criminal justice in contemporary American society. (Formerly numbered Criminal Justice Administration 301.)

**CJ 305. Professions and Ethics (3)**

Prerequisite: Criminal Justice 300.

Professional roles and responsibilities of practitioners and administrators in criminal justice agencies, including consideration of the ethical responsibilities of criminal justice practitioners. (Formerly numbered Criminal Justice Administration 305.)

**CJ 310. Law Enforcement (3)**

Prerequisite: Criminal Justice 300.

Administrative relationships within the criminal justice process with special reference to problems of courts and police and probation agencies. (Formerly numbered Criminal Justice Administration 310.)

**CJ 320. Criminal Law (3)**

Prerequisite: Criminal Justice 300.

Constitutional law principles as implemented in criminal courts with emphasis on critical analysis of factual situations and the argument of legal issues in criminal cases from both defense and prosecution perspectives. (Formerly numbered Criminal Justice Administration 320.)

**CJ 321. Juvenile Justice (3)**

Prerequisite: Criminal Justice 300.

Assessment of the structure and functions of agencies and institutions which comprise the juvenile justice system in America; evolution of policies and programs for prevention of delinquency and treatment of the juvenile offender. (Formerly numbered Criminal Justice Administration 321.)

**CJ 330. Corrections (3)**

Prerequisite: Criminal Justice 300.

Contemporary policies and practices of local, state, and federal correctional agencies, influence of reform movements, and the interrelationship of corrections with other criminal justice system components. (Formerly numbered Criminal Justice Administration 330.)

**CJ 333. The Judiciary (3)**

Prerequisites: Criminal Justice 300 and Public Administration 301.

Significant developments at state and federal levels, including court unification and financing, leadership, congestion, training, selection, tenure, discipline, removal and retirement of court-related personnel; and technological applications. (Formerly numbered Criminal Justice Administration 333.)

**CJ 420. Constitutional Issues in Criminal Justice (3)**

Prerequisite: Criminal Justice 300.

Constitutional legal theories and principles, especially the Fourth, Fifth, Sixth, and Eighth Amendments to the Constitution, as they affect criminal justice procedures and practices. (Formerly numbered Criminal Justice Administration 420.)

**CJ 430. Prisons in Theory and Practice (3) Cr/NC  
(Offered only in Extension)**

Two lectures and 40 hours of supervised activity.

Prerequisites: Criminal Justice 300 and consent of instructor.

Design and operation of state and federal prisons in California from the perspective of staff and inmates. Onsite study and critique of facilities. (Formerly numbered Criminal Justice Administration 430.)

**CJ 431. Field Study in Local Corrections (3) Cr/NC**

One lecture and four hours of activity.

Prerequisites: Criminal Justice 330; 18 years of age; no convictions or pending charges.

Structure, function, and mission of local prisons and jails. Legal authority under which accused and convicted offenders are detained. Prison life, prison culture, gangs, and survival behind bars. Lives and careers of correctional staff. On-site visits.

**CJ 496. Selected Topics in Criminal Justice (1-3)**

Selected current topics in criminal justice. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**CJ 497. Investigation and Report (3)**

Prerequisites: Consent of instructor and senior standing.

Using library, Internet, and empirical research. Analysis of current criminal justice policy issues. (Formerly numbered Criminal Justice Administration 497.)

**CJ 498. Internship in Criminal Justice (2-6) Cr/NC**

Prerequisites: Consent of instructor and senior standing.

Students are assigned to various government agencies and work under joint supervision of agency heads and the course instructor. Participation in staff and internship conferences. Maximum credit six units. (Formerly numbered Criminal Justice Administration 498.)

**CJ 499. Special Study (1-3) Cr/NC**

Prerequisites: Twelve units of upper division criminal justice and consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**CJ 510. Contemporary Issues in Law Enforcement (3)**

Prerequisite: Criminal Justice 310.

Assessment of problems confronting administrators of law enforcement agencies and of recent efforts to enhance the capability of agencies to control criminal activity while guarding individual liberties. (Formerly numbered Criminal Justice Administration 510.)

**CJ 520. Prosecutorial Function (3)**

Prerequisite: Criminal Justice 300.

Prosecutor's function at local, state, and federal levels and in selected foreign nations, including appraisal of proposed national standards and goals for prosecutors. (Formerly numbered Criminal Justice Administration 520.)

**CJ 531. Probation and Parole (3)**

Prerequisite: Criminal Justice 300.

Basic concepts, history, legislation, and practices used in work with juveniles and adults who have been placed on probation or parole; criteria of selection, methods of supervision, and elements of case reporting. (Formerly numbered Criminal Justice Administration 531.)

**CJ 540. Applied Planning, Research, and Program Evaluation in Criminal Justice (3)**

Prerequisite: Criminal Justice 300.

Application of planning, research, program development, and evaluation principles to field of criminal justice. (Formerly numbered Criminal Justice Administration 540.)

**CJ 543. Community Resources in Criminal Justice (3)**

Prerequisite: Criminal Justice 300.

Present and probable roles of public and private agencies and volunteers in criminal justice. (Formerly numbered Criminal Justice Administration 543.)

**CJ 550. Study Abroad: Criminal Justice (3)**

Prerequisites: Criminal Justice 301 and upper division standing.

Selected topics in comparative criminal justice. Course taught abroad. May be repeated once with new content. See *Class Schedule* for specific content. Maximum credit six units.

**CJ 570. Organized Crime: Domestic and International Perspectives (3)**

Prerequisite: Criminal Justice 300.

Interdisciplinary analysis of organized crime's impact on criminal justice and public policy on both domestic and international levels. (Formerly numbered Criminal Justice Administration 570.)

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

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# Dance

In the College of Professional Studies and Fine Arts

**OFFICE: Music 112**

**TELEPHONE: 619-594-6031 / FAX: 619-594-1692**

**E-MAIL: [music.dance@sdsu.edu](mailto:music.dance@sdsu.edu)**

## Faculty

Director: Conaty

Professors: Nunn, Sandback

Associate Professors: Alter, Hempel

Assistant Professor: Seifers

## Offered by the School of Music and Dance

Major in dance with the B.F.A. degree in applied arts and sciences.

Major in dance with the B.A. degree in liberal arts and sciences.

Minor in dance.

## The Major

Dance serves to enhance the lives of all peoples and provides a challenging avenue of creative expression for those who wish to pursue its serious study. This program promotes dance as a communicative and expressive medium uniquely effective in the conveyance of meaning, emotion, and cultural values. Dance is a rigorous and specialized area of the performing arts, demanding a high level of physical preparation as well as a thorough understanding of aesthetics.

The Bachelor of Fine Arts in Dance provides professional preparation for dance majors in choreography, performance, scholarship, and teaching; more specifically, as choreographers and dancers with professional companies, teachers in community and recreation programs, schools and colleges, movement educators, and candidates for graduate work in dance scholarship.

The Bachelor of Arts in Dance is a liberal arts degree for those students who seek an understanding of and an intimate orientation to the discipline of dance without professional goals. This degree enables students to obtain this broad understanding.

A dance minor is available for those students whose primary interest is in another department.

As members of the University Dance Company, students perform in faculty choreography and repertory works set by distinguished guest artists in periodic workshops and residencies. Each B.F.A. student also stages original work in a senior concert. Dance activity courses provided in the school offer experiences for the general student population in modern, jazz, ballet, folk, and social forms.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Dance Major

**With the B.F.A. Degree in Applied Arts and Sciences**

**(Major Code: 10082) (SIMS Code: 666571)**

All candidates for a bachelor of fine arts degree must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." The maximum number of upper division units in dance courses acceptable toward the bachelor of fine arts degree is 70. Entrance and placement auditions are required.

A minor is not required with this major.

All dance majors are required to crew seven hours for performances each semester.

For information regarding this program contact the dance coordinator or the School of Music and Dance.

**Preparation for the Major.** Dance 171, 181, 183, 221 (4 units), 231, 241 (12 units), 253, 255, 256, 285, 290; Biology 100, 212; Theatre 240; one unit of lower division dance electives. (46 units)

To qualify for upper division study, students must pass a Junior Level Review.

**Language Requirement.** Competency (equivalent to that which is normally attained in two semesters of college study) in a foreign language.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 38 upper division units to include Dance 353, 354, 365 (2 units), 371, 380, 421 (4 units), 441 (12 units), 453, 481; two additional units of Dance 365 or 471; five units of upper division dance electives.

## Entrance and Progression Requirements

In addition to CSU and SDSU requirements, incoming students requesting the B.F.A. program in Dance will be required to perform an audition before the faculty in order to be admitted to the program. The audition will consist of:

- A warm-up demonstrating basic technical skills, a center adagio combination, a brief creative study involving improvisational choices and concluding with traveling phrases demonstrating jumping and turning locomotion.
- Students will also have the opportunity to perform a two-minute (minimum, five minute maximum) dance prepared by the student in modern dance, ballet or jazz.
- Students will be asked to bring a curriculum vitae of previous experience in dance or related fields (theatre, music, visual arts, film, gymnastics, dance team, etc.).

The following qualities will be assessed:

- Basic technical skills in dance, and the aptitude for mastering physicality, musicality, phrasing and dynamics.
- Attentiveness and the comprehension of instructions.
- Creativity, enthusiasm, and spirit.
- Basic performance skills utilizing focus and presence.
- A commitment and respect for the disciplined study of dance.

In order to continue in the B.F.A. program in dance, students must demonstrate a continuing progress in all areas of skill development, choreography, musical assessment, etc., in the following ways:

- Successful completion of all coursework as assessed through written examination and through continuous performance evaluation each semester.
- Junior Level Review: Students must successfully pass this review to continue into the junior year. Faculty will formally review coursework and assess videotape samples of choreography and technique from the freshman and sophomore years.

## Dance Major

**With the B.A. Degree in Liberal Arts and Sciences**  
(Major Code: 10081) (SIMS Code: 666517)

All candidates for a degree in liberal arts and sciences must complete the requirements listed in the section of this catalog on "Graduation Requirements." No more than 49 units in dance courses can apply to the degree.

Entrance and placement auditions are required.

A minor is not required with this major.

All dance majors are required to crew seven hours for performances each semester.

For information regarding this program contact the dance coordinator or the School of Music and Dance.

**Preparation for the Major.** Dance 171, 181, 183, 221 (4 units), 231, 241 (6 units), 253, 255, 290; Biology 100, 212. (32 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units to include Dance 353, 354, 371, 380, 481; and 13 units of upper division dance electives.

## Dance Minor

(Minor Code: 10081) (SIMS Code: 666516)

Entrance and placement auditions are required.

For information regarding this program contact the dance coordinator or the School of Music and Dance.

The minor in dance consists of a minimum of 23 units in dance, of which nine units must be upper division, to include Dance 181, 183, 221, 241, 253, 255, 353, 380; and four units selected from Dance 371\*, 471 or 481. All minors are required to usher two performances per semester.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*Additional prerequisite required.

## Courses (DANCE)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### DANCE 100. Dance Activity (1)

Two hours of activity.

Open to all students. Provides physically skilled instruction and knowledge of ballroom, yoga, ethnic, ballet, jazz, and modern dance forms.

- A. Beginning Ballroom Dance
- C. Ethnic Dance
- D. Yoga for Dancers
- E. Beginning Ballet
- G. Beginning Jazz Dance
- H. Intermediate Jazz Dance
- I. Beginning Modern Dance
- J. Intermediate Modern Dance

#### DANCE 102. Elements of Dance for Non-Dance Majors (3)

Two lectures and two hours of activity.

Developing an understanding of elements of dance: time, space, dynamics, and intention. Relationship to national and state educational standards. Designed for future teachers. Not open to dance majors.

#### DANCE 165. University Dance Company (1-2) Cr/NC

More than three hours of activity per week.

Prerequisites: Audition and approval by dance faculty.

Performing experience in University Dance Company including concert performances of dance repertory, production of choreographic works, presentation of master classes and workshops, and participation in major production. Maximum credit four units.

#### DANCE 171. Dance Production I (2)

One lecture and two hours of activity.

Technical applications as applied to dance production.

#### DANCE 181. Introduction to Dance (3) [GE]

Foundations of dance in Western civilization. Dance as art, therapy, fitness, ritual, and social discourse. Analysis of dance in film, video, and live performance with an appreciation for artistic intent, technique, and style.

#### DANCE 183. Rhythmic Analysis (2)

One lecture and two hours of activity.

Music as related to movement; notation and simple music forms applied to all movement activities; percussion accompaniment; writing of percussion scores, music repertoire for dance.

#### DANCE 210. Performance Forum (1)

Two hours of activity.

Prerequisite: Consent of instructor.

Dance master classes, workshops, as related to dance performance, style, and repertoire. Maximum credit four units.

#### DANCE 221. Ballet I (2)

Four hours of activity.

Ballet skills for dance majors and minors emphasizing placement, coordination, ballet terminology, and technical principles. Maximum credit four units.

#### DANCE 231. Jazz Dance I (2)

Four hours of activity.

Prerequisites: Consent of instructor. Dance majors and minors only.

Jazz dance technique and fundamentals in various jazz dance forms and styles. See *Class Schedule* for specific content. Maximum credit four units.

#### DANCE 241. Modern Dance I (3)

Six hours of activity.

Development of modern dance skill with emphasis on function of alignment and articulation of extremities in motion. Maximum credit 12 units.

#### DANCE 253. Choreography I (2)

Four hours of activity.

Prerequisites: Dance 241 (3 units) and 255.

Using concepts of space, time, and energy to investigate and explore basic elements of choreography. Studies and compositions emphasizing solo and small group works.

#### DANCE 255. Dance Improvisation I (2)

Four hours of activity.

Exploring improvisation through specific stimulus leading to the acquisition of basic improvisational skills.

#### DANCE 256. Dance Improvisation II (2)

Four hours of activity.

Prerequisite: Dance 255.

Practice in more complex arrangements of improvisation.

#### DANCE 285. Dance Pedagogy (2)

Four hours of activity.

Teaching theory as applied to ballet, modern, jazz, and social dance for adult populations.

#### DANCE 290. Body Modalities (2)

One lecture and two hours of activity.

Alternative movement theory systems for dancers and non-dancers including an introduction to body modalities of yoga, Pilates, ideokinesis, Alexander and Feldenkrais techniques, Laban movement analysis and authentic movement. Maximum credit four units.

## Dance

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### **DANCE 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **DANCE 302. Dance for Children (3)**

Prerequisite: Upper division standing.

Development of choreographic knowledge and leadership. Production of a collection of dance teaching resources; inclusion of the arts in learning environments. Designed for future classroom teachers and elementary dance specialists.

#### **DANCE 353. Choreography II (2)**

Four hours of activity.

Prerequisite: Dance 253.

Introducing large group works, solo and small group work in organizing more complex arrangements of the basic elements of dance composition. Utilizing music and sound as aural contributions to choreography.

#### **DANCE 354. Choreography III (2)**

Four hours of activity.

Prerequisite: Upper division standing in dance.

Approaching dance as a fundamental means of communication. Recognizing the relationship between form and content.

#### **DANCE 365. University Dance Company: Major Performance (1-2) Cr/NC**

More than three hours of activity per week.

Prerequisites: Open only to dance majors. Audition and approval by dance faculty.

Practical experience in University Dance Company including concert performances of dance repertory, production of choreographic works, presentation of master classes and workshops, and participation in major production. Students must enroll in a minimum of two semesters. Maximum credit six units.

#### **DANCE 371. Dance Production II (2)**

One lecture and two hours of activity.

Prerequisite: Dance 171.

Technical applications as applied to dance production. Continuation of Dance 171.

#### **DANCE 380. Dance History: Contemporary Global Contexts (3)**

Prerequisite: Dance 181.

History of dance from early twentieth century to present in a global context. Political, economic, and cultural forces that have shaped the development of contemporary dance as an art form. (Formerly numbered Dance 380B.)

#### **DANCE 382. Dance in World Cultures (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Dance in selected cultures; geographic, historical, social, and aesthetic factors which have shaped development and function.

#### **DANCE 398. Dance Internship (1-3)**

Prerequisites: Upper division standing and consent of dance director. Open only to dance majors and minors.

Supervised practical experience in dance studio management and instruction. Maximum credit three units.

#### **DANCE 410. Performance Forum (1)**

Two hours of activity.

Prerequisite: Consent of instructor.

Dance master classes, workshops, as related to dance performance, style, repertoire. Maximum credit four units.

#### **DANCE 421. Ballet II (2)**

Four hours of activity.

Prerequisite: Dance 221.

Ballet skills for dance majors emphasizing turns, jumps, batterie, extended sequences, and movement quality. Maximum credit four units.

#### **DANCE 441. Modern Dance II (3)**

Six hours of activity.

Prerequisite: Dance 241.

Advanced modern dance techniques based on skills developed in Dance 241 with emphasis on performance qualities in projection, vitality, and executing. Maximum credit 12 units.

#### **DANCE 453. Senior Project (2)**

Prerequisite: Dance 354.

Choreography of solo and group works utilizing symbiotic relationship of movement, sound, lighting, costuming, and other interdisciplinary media. Presentation of a concert.

#### **DANCE 471. Production Design for Dance (2)**

One lecture and two hours of activity.

Prerequisite: Dance 371.

Lighting, set, multi-media, costume and make-up design for dance. Study of concert promotion and production for dance.

#### **DANCE 481. Dance Aesthetics and Criticism (2)**

Prerequisite: Dance 380.

Philosophy and aesthetics of dance. Historical foundations of dance criticism. Major contemporary schools of thought. Professional preparation and function of the dance critic.

#### **DANCE 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **DANCE 499. Special Study (1-3)**

Prerequisite: Consent of the dance director.

Individual study. Maximum credit six units.

### **GRADUATE COURSES Refer to the *Graduate Bulletin*.**

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# Economics

In the College of Arts and Letters

**OFFICE: Nasatir Hall 305**

**TELEPHONE: 619-594-1675 / FAX: 619-594-5062**

## Faculty

Emeritus: Adler, Anderson, Babilot, Barckley, Boddy, Clement, Gifford, Green, Hambleton, Kartman, Leasure, Madhavan, Nam, Popp, Poroy, Sebold, Steinberg, Stewart, Turner, Venieris

Interim Chair: Thayer

Professors: Amuedo-Dorantes, Frantz, Gerber, Grossbard, Lee, Thayer

Associate Professors: Balsdon, Hilmer, C., Hilmer, M., Imazeki, Puttitanun

Assistant Professors: Foad, Nuntramas, Shahriar

## Offered by the Department

Master of arts degree in economics.

Major in economics with the B.A. degree in liberal arts and sciences.

Emphasis in international economics.

Emphasis in preprofessional studies.

Minor in economics.

## The Major

Economics is the science which studies the production, distribution, and consumption of goods and services. Economics majors explore how producers, distributors, and consumers make their decisions. Majors also analyze the events that shape and result from these decisions. Inflation, unemployment, taxation, money and banking, efficiency, international exchange, and growth are some of the many parts of this complex system studied through the economics major at SDSU.

The Department of Economics offers two emphases which students may select to satisfy a wide range of career goals: (1) International Economics, where students can focus on worldwide economic policy and global business; and (2) Preprofessional Studies, in which students prepare for graduate study in law school, health administration, and business administration. A specialization in Quantitative Analysis is also offered which focuses on developing analytical and mathematical skills for conducting economic research. A fourth option is the comprehensive program offered in the general economics major, which provides breadth by covering areas from the emphases and specialization.

Economics majors may find employment in government, financial institutions, business, and international agencies. The combination of an economics major with a business minor provides a foundation for a variety of careers. And, students interested in studying the developing nations, the environment, government policies, or population will find that economics is a useful approach.

Many entry-level positions in business and government are available to students with a bachelor's degree in economics. A graduate may find employment as a research, statistical, data, or pricing analyst. There are management trainee positions with banks, savings and loan associations, or other lending institutions. Economics majors may also be employed as sales representatives for firms which produce both "high tech" and consumer-related goods. A student contemplating graduate study in the field of economics should consider a career as an economics consultant, or as an economist for banks, investment companies or industry.

## Impacted Program

The economics major is an impacted program. To be admitted to the economics major, students must meet the following criteria:

- Complete with a grade of C or higher: Economics 101, 102; Accountancy 201; Economics 201 or Statistics 119 or 250; one course selected from Mathematics 120, 121, or 150; Information and Decision Systems 180. These courses cannot be taken for credit/no credit (Cr/NC); except for courses taught as Cr/NC only;
- Have a cumulative GPA of 2.40 or higher;
- To be admitted to the emphasis in international economics (major code 22042), students must, in addition to satisfying the criteria above, also satisfy the language requirement for the Bachelor of Arts degree in Liberal Arts and Sciences.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Economics Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 22041) (SIMS Code: 111901)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in economics courses can apply to the degree.

A minor is not required with this major.

**Senior Survey.** All majors will complete an online survey assessing their experiences in the department and educational outcomes in the major. Students answer the survey online at the Department of Economics Web page. **The survey, which is a department requirement, must be completed during the student's final semester.**

**Preparation for the Major.** Economics 101, 102; Accountancy 201; Economics 201 or Statistics 119 or 250; one course selected from Mathematics 120, 121, or 150; Information and Decision Systems 180. (18 units)

These prerequisite courses may not be taken Cr/NC; except for courses taught as Cr/NC only. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

ECON



**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units to include Economics 301, 320, 321, and 18 units of electives. At least six units of electives selected from the international group: Economics 330, 360, 365, 463, 464, 489, 561, 565, 592. Maximum nine units of Economics 496 or 596; maximum three units of 499; and maximum three units of 495 may be applied to the major. Units of 495, 496, 499, 596 may be counted towards the international group requirement as approved by adviser.

### Emphasis in International Economics (Major Code: 22042) (SIMS Code: 111920)

**Senior Survey.** All majors will complete an online survey assessing their experiences in the department and educational outcomes in the major. Students answer the survey online at the Department of Economics Web page. **The survey, which is a department requirement, must be completed during the student's final semester.**

**Preparation for the Major.** Economics 101, 102; Accountancy 201; Economics 201 or Statistics 119 or 250; one course selected from Mathematics 120, 121, or 150; Information and Decision Systems 180. (18 units)

These prerequisite courses may not be taken Cr/NC; except for courses taught as Cr/NC only. The minimum grade in each class is C or higher.

**Language Requirement.** Successful completion of a course in a foreign language at the fourth semester or higher level, that is, one course beyond the B.A. language requirement. Students who have graduated from high school in another country where the language of instruction is not English have met the language requirement for this major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Study/Internship Abroad Requirement.** Completion of a study abroad or internship abroad of at least 12 units of coursework or six units of the internship course in another nation. Students may also choose to complete a combination of nine units of study and three units of the internship abroad. Students who have graduated from high school outside the U.S. meet this requirement by studying at SDSU.

**Major.** A minimum of 33 upper division units (27 units in economics and six to seven units from the College of Business Administration) to include Economics 301, 320, 321.

- A. At least 12 units of electives must be selected from the international group: Economics 330, 360, 365, 463, 464, 489, 561, 565, 592.
- B. Up to six units of electives may be selected from Economics 311, 338, 349, 380, 382, 401, 406, 422, 441, 449W, 452, 453, 454, 458, 489, 490.

Six to seven units selected from Finance 323 and 329, or Management 350 and 357, or Marketing 370 and 376.

Maximum nine units of Economics 496 or 596 and maximum three units of 499 may be substituted into A or B as appropriate with approval of adviser except for Economics 360, 561, or 592. Maximum three units of 495 may be substituted into A with appropriate international content as approved by adviser.

### Emphasis in Preprofessional Studies (Major Code: 22041) (SIMS Code: 111960)

**Senior Survey.** All majors will complete an online survey assessing their experiences in the department and educational outcomes in the major. Students answer the survey online at the Department of Economics Web page. **The survey, which is a department requirement, must be completed during the student's final semester.**

**Preparation for the Major.** Economics 101, 102; Accountancy 201; Economics 201 or Statistics 119 or 250; one course selected from Mathematics 120, 121, or 150; Communication 160; Information and Decision Systems 180. (21 units)

These prerequisite courses may not be taken Cr/NC; except for courses taught as Cr/NC only. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Economics 449W, or English 508W or 584W, or Linguistics 305W, or Rhetoric and Writing Studies 305W or 500W or 508W, or Chicana and Chicano Studies 396W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in economics to include Economics 301, 320, 321, Finance 323, and 18 units of electives in economics.

- A. At least 12 units selected from the preprofessional group: Economics 311, 338, 349, 380, 382, 401, 406, 422, 441, 449W, 452, 453, 454, 458, 490.

- B. At least three units of electives selected from the international group: Economics 330, 360, 365, 463, 464, 489, 561, 565, 592.

Maximum nine units of Economics 496 or 596 may be substituted as upper division elective with approval of adviser. Maximum three units of 495 and maximum three units of 499 may be substituted into A with appropriate preprofessional content as approved by adviser.

### Specialization in Quantitative Analysis (SIMS Code: 111970)

**Senior Survey.** All majors will complete an online survey assessing their experiences in the department and educational outcomes in the major. Students answer the survey online at the Department of Economics Web page. **The survey, which is a department requirement, must be completed during the student's final semester.**

**Preparation for the Major.** Economics 101, 102; Economics 201 or Statistics 119 or 250; Accountancy 201; Mathematics 150; Information and Decision Systems 180. (19 units)

These prerequisite courses may not be taken Cr/NC; except for courses taught as Cr/NC only. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units in economics to include Economics 301, 320, 321, 441, 507, and 12 units of upper division economics electives, with at least six units at the 400 or 500 level. Maximum nine units of Economics 496 or 596 may be substituted as upper division elective with approval of adviser. Maximum three units of 495 and maximum three units of 499 may be substituted as upper division elective with appropriate quantitative content as approved by adviser.

## Economics Minor

(Minor Code: 22041) (SIMS Code: 111901)

The minor in economics consists of a minimum of 18 units in economics to include Economics 101 and 102, and 320 or 321, and at least nine units of electives selected from one of the following tracks:

**International Economics:** Economics 330, 360, 365, 463, 464, 489, 561, 565, 592. A maximum of three units of Economics 495, 496, and 499 may be used to satisfy the nine unit elective requirement with prior permission from the department.

**Preprofessional Studies:** Economics 311, 338, 349, 380, 382, 401, 406, 422, 449W, 452, 453, 454, 458, 490. A maximum of three units of Economics 495, 496, and 499 may be used to satisfy the nine unit elective requirement with prior permission from the department.

**Quantitative Analysis:** Economics 301, 441, 507. A maximum of three units of Economics 495, 496, and 499 may be used to satisfy the nine unit elective requirement with prior permission from the department.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ECON)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ECON 101. Principles of Economics (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Principles of economic analysis, economic institutions, and issues of public policy. Emphasis on macroanalysis including national income analysis, money and banking, business cycles, and economic stabilization.

#### ECON 102. Principles of Economics (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Principles of economic analysis, economic institutions, and issues of public policy. Emphasis on direction of production, allocation of resources, and distribution of income, through the price system (microanalysis); and international economics.

#### ECON 201. Statistical Methods (3) [GE]

Prerequisites: Course in intermediate algebra, satisfaction of the Entry-Level Mathematics requirement, and qualification on the Mathematics Departmental Placement Exam, Part 1A.

Introduction to descriptive statistics, statistical inference, regression and correlation. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Economics 201; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Political Science 201; Psychology 280; Sociology 201; Statistics 119 or 250.

#### ECON 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES

(Intended for Undergraduates)

#### ECON 301. Collection and Use of Data in Economics (3)

Prerequisites: Economics 101 and 102; Economics 201 or Statistics 119; and Information and Decision Systems 180.

Economic data gathering via Internet and other sources, data entry into spreadsheets and graphing techniques, statistics using spreadsheets, and introduction to basic regression.

#### ECON 311. History of Economic Thought (3)

Prerequisites: Economics 101 and 102.

The development of economics. Contributions of schools of thought and individual writers are examined with regard to their influence on economic theory and policy.

#### ECON 320. Intermediate Macroeconomic Theory (3)

Prerequisites: Economics 101 with approval of department. Recommended: Mathematics 120 or 121 or 150.

Determination of output, income, unemployment, and inflation. Policies for economic stabilization and growth in an open economy.

#### ECON 321. Intermediate Microeconomic Theory (3)

Prerequisite: Economics 102 with approval of department. Recommended: Mathematics 120 or 121 or 150.

Behavior of consumers, firms and industries with respect to product and input markets. Price system and other models of economic decision making. Economic efficiency and welfare; property rights and externalities.

#### ECON 330. Comparative Economic Systems (3) [GE]

Prerequisites: Six units of economics to include Economics 102; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.

Current economic systems from primarily laissez-faire to state-controlled market economies with a focus on nations of Asia, Europe and Latin America; Soviet-style economic planning and transition to a market economy.

#### ECON 338. Economic History of the United States (3)

Prerequisite: Six units of economics to include Economics 101.

American economic development and national legislation. Studies of agriculture, industry, the labor force, and national output.

#### ECON 349. Economics for Teachers (3)

Prerequisites: Economics 101 and 102.

Micro and macroeconomics with emphasis on developing economic literacy and economic way of thinking.

#### ECON 360. International Economic Problems (3)

Prerequisites: Economics 101 and 102.

International problems, economic communities, organizations, and other selected topics.

#### ECON 365. Economics of Underdeveloped Areas (3)

Prerequisite: Six units of economics to include Economics 101.

The nature and causes of economic underdevelopment. Problems of and policies for the economic development of underdeveloped areas of the world.

#### ECON 380. Labor Economics (3)

Prerequisite: Six units of economics to include Economics 102.

Labor force and mobility, human capital, labor demand, discrimination, determination of compensation and employment, productivity, impact of labor organizations, labor disputes, and social legislation.

#### ECON 382. Economics of Work, Marriage, and Family (3)

Prerequisite: Economics 102.

Economic analysis of marriage and labor supply; family-related changes in work behavior; gender differences in occupations and earnings; welfare, work and family policies in the U.S. and internationally; macroeconomic analysis of household structure and economy.

#### ECON 401. Public Finance (3)

Prerequisites: Economics 101 and 102.

Principles and practices of taxation and public expenditures. Economic effects of public spending, debts and taxation. Financing social security and other services. Fiscal policy and prosperity. Relation to inflation and deflation. Special emphasis on social problems involved.

#### ECON 406. Economics of Sports (3)

Prerequisite: Economics 102.

Economic issues in professional and college team sports. Emphasis on monopoly and monopsony behavior by sports leagues and teams, public subsidies for sports facilities, ticket pricing, and NCAA rules and regulations.

#### ECON 422. Business Cycles (3)

Prerequisites: Economics 101 and 102.

Fundamental factors in economic fluctuations. Examination of business cycle theories, and various policy proposals for economic stabilization. A consideration of current economic conditions and an examination of methods employed in preparing national economic forecasts.

#### ECON 441. Introduction to Econometrics (3)

Prerequisites: Economics 301; Mathematics 120 or 121 or 150; Recommended: Economics 320 or 321.

Econometric techniques with emphasis on single-equation models. Applied skills learned through computer assignments.

ECON

### **ECON 449W. Economic Literacy (3)**

Prerequisites: Twelve units in economics to include Economics 101 and 102. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking.

**Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Economic way of thinking through writing. Effective communication of economic concepts and analysis to different audiences.

### **ECON 452. Economics of Energy Resources (3)**

Prerequisite: Six units of economics.

Economic structure of energy supply in the United States: electric power, fossil fuels, nuclear energy. Economic potential of alternative energy sources. Public policy issues: oil imports and self-sufficiency; energy costs, conservation, and curtailment; energy growth and its environmental impact.

### **ECON 453. Environmental and Natural Resource Economics (3)**

Prerequisites: Economics 101 and 102.

Relation of ecological problems to basic economic institutions. Examination of the apparent conflict between economic needs and ecological requirements. Economics of air, fresh water, ocean and land pollution, overpopulation and natural resource utilization. Investigation of possible solutions.

### **ECON 454. Economics of the Ocean (3)**

Prerequisites: Economics 101 and 102.

Economic analysis of fisheries, seabed resources, shipping lanes, allocation of the coastal zone, and ocean pollution. Economic implications of alternative legal arrangements concerning the ocean.

### **ECON 458. Urban Economics (3)**

Prerequisites: Economics 101 and 102.

Major influences on economic conditions of urban areas; specific urban issues including growth and housing. Discussion of San Diego issues.

### **ECON 463. Economic Development Before 1900 (3)**

Prerequisites: Economics 101 and 102.

Emergence of market institutions in medieval Europe; comparisons with China, India, and Islamic world. Origin and evolution of market institutions, using concepts from new institutional economics, game theory, and behavioral economics.

### **ECON 464. Economic Problems of Latin America (3) [GE]**

Prerequisites: Six units of economics to include Economics 101; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.

Economic development, institutions, and problems of Latin America in the context of a global economy.

### **ECON 489. Economics and Population (3) [GE]**

Prerequisites: Six units of economics to include Economics 102; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences. General Education prerequisite not required for Economics majors.

Relation of fertility, marriage, migration, and other dimensions of population to various economic factors affecting household behavior. Demographic measures and projections, application to product markets and to policies of developed and less developed countries.

### **ECON 490. Money and Banking (3)**

Prerequisites: Economics 101, 102, and Accountancy 201.

Money's measurement and use; monetary theory and policy; returns on financial instruments; international payments and foreign exchange; evolution of banking institutions, and global competition.

### **ECON 495. Economics Internship (3) Cr/NC/RP**

Prerequisite: Consent of instructor.

Internship with business firms, nonprofit organizations and government agencies. Work done under joint direction of activity supervisor and instructor. Project report and internship conferences required. Maximum credit six units.

### **ECON 496. Experimental Topics (1-3)**

Prerequisite: Consent of instructor.

Selected topics in economics. May be repeated with approval of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit nine units.

### **ECON 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. May be repeated for a maximum of six units. Maximum credit six units.

## **UPPER DIVISION COURSES**

**(Also Acceptable for Advanced Degrees)**

### **ECON 507. Mathematical Economics (3)**

Prerequisite: Mathematics 121 or 150. Recommended: Economics 320 or 321.

Mathematical concepts as tools in understanding, developing, and illustrating economic theories. Applications of calculus and linear equations to constrained optimization, macro models, elasticity, general equilibrium, and input-output analysis.

### **ECON 561. International Trade (3)**

Prerequisites: Economics 320 and 321.

Theory and policy of international trade with examples drawn from current issues. Models of determinants of trade. Free trade and protectionism. Trade and economic development. Trading blocs, the European community, GATT and U.S. trade policy.

### **ECON 565. North American Economic Relations (3)**

Prerequisites: Economics 101 and 102. Recommended: Economics 360.

Socioeconomic development of U.S., Mexico, and Canada since World War II. Issues affecting the three countries' relations, including trade investment, technology, and international organizations and agreements.

### **ECON 592. International Monetary Theory and Policy (3)**

Prerequisite: Economics 320 or 490.

International monetary spillovers from domestic macroeconomic policies. Foreign exchange markets and balance of payments. Fixed, flexible and managed exchange rates. Bretton Woods, international monetary fund, and world debt crisis.

### **ECON 596. Experimental Topics (3)**

Prerequisite: Consent of instructor.

Intensive study in specific areas of economics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

## **GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Education

In the College of Education

**OFFICE: Education and Business Administration 346**  
**TELEPHONE: 619-594-6091 / FAX: 619-594-7082**

Accredited by the California Commission on Teacher Credentialing and the National Council for Accreditation of Teacher Education.

## Faculty

Faculty assigned to teach in education are drawn from departments in the College of Education.

## Courses (ED)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### ED 200. Teaching as a Profession (3)

Current issues, challenges in education; explores strategies that promote professional development. Critically assesses issues related to teaching in culturally and linguistically diverse school settings. Includes guided classroom observations.

#### ED 201. Introduction to Literacy (3)

Two lectures and four hours of laboratory.

Intended for students in the liberal studies blended program for K-3 literacy tutors. Basic processes of literacy and instructional strategies in culturally relevant reading instruction for emergent readers. Requires four hours weekly tutoring in a designated K-3 setting.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ED 350. Education in American Society (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Philosophical, historical and psychological roots of education in America; current models, instructional designs and strategies of education. Contemporary concerns in education.

#### ED 451. Introduction to Multicultural Education (3)

Overview of cultural pluralism in education, industry, business, other institutions, and society at large.

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### ED 516. Foundations of Bilingual Education (1) (Offered only at IVC)

Prerequisite: Credit or concurrent registration in Education 451.

Overview of models of bilingual education programs for language minority students.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Educational Leadership

In the College of Education

**OFFICE:** North Education 166  
**TELEPHONE:** 619-594-4063  
**E-MAIL:** [ccurphy@mail.sdsu.edu](mailto:ccurphy@mail.sdsu.edu)  
**http://edweb.sdsu.edu/edleader/**

Accredited by the California Commission on Teacher Credentialing and the National Council for Accreditation of Teacher Education.

## Faculty

Emeritus: Basom, Cohn, Downey, Latta, Lienert, Meno, Merino, Streshly, Warburton, Wetherill, Yerkes  
Chair: Chance  
Professors: Brown, Chance, Johnson, Pumpian, Uline  
Assistant Professors: James-Ward, Singh  
Lecturer: Cameron

## Offered by the Department

Doctor of Education degree in educational leadership.  
Concentration in PreK-12 educational leadership.  
Master of Arts degree in education.  
Concentration in educational leadership:  
Specialization in PreK-12.  
Administrative services credentials.  
Minor in leadership development.  
Certificate in educational facility planning  
(refer to the *Graduate Bulletin*).

## Minor in Leadership Development

(Minor Code: 08271) (SIMS Code: 331907)

The minor in leadership development consists of a minimum of 20 units to include Administration, Rehabilitation and Postsecondary Education 205, 380, 403; Educational Leadership 206, 404, 405; and six units of electives selected from Communication 371, Counseling and School Psychology 310, Political Science 375, Public Administration 330, 340, 480, Philosophy 329, 330, 332, 340.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (EDL)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSE

#### EDL 206. Emerging Leaders (3)

Attributes of successful leaders. Enables students opportunities to self assess, develop, and apply leadership attributes for leadership development.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### EDL 404. Field Laboratory in Leadership: Public Agencies and Businesses (1)

Prerequisite: Educational Leadership 206.

Laboratory in public agencies and business settings to integrate academic work with experiences in the community.

#### EDL 405. Enacting Leadership (3)

Prerequisite: Completion of all courses in the leadership development minor with a 3.0 GPA.

Capstone course. Synthesis and integration of learning to demonstrate self-efficacy. Apply analytical reasoning in leadership scenarios. Articulate individual leadership abilities and apply leadership principles to major field and career.

#### EDL 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### EDL 499. Special Study (1-3)

Prerequisites: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### EDL 596. Topics in Educational Leadership (1-3)

Selected problems in educational leadership. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Educational Technology

In the College of Education

**OFFICE: North Education 280**

**TELEPHONE: 619-594-6718 / FAX: 619-594-6376**

**<http://edtec.sdsu.edu>**

Accredited by the California Commission on Teacher Credentialing.

## Faculty

Emeritus: Allen, Anthony, Harrison, McAllister, Ritchie, Rossett, Saba  
Chair: Bober-Michel  
Professors: Bober-Michel, Dodge  
Associate Professors: Hoffman, Wang

## Offered by the Department

Master of Arts degree in education.  
Concentration in educational technology.  
Specialization in educational computing.  
Specialization in workforce education and lifelong learning.  
Minor in educational technology.  
Certificate in distance education  
(refer to the *Graduate Bulletin*).  
Certificate in instructional design  
(refer to the *Graduate Bulletin*).  
Certificate in instructional technology.

## Educational Technology Minor

**(Minor Code: 08999) (SIMS Code: 331940)**

The minor in educational technology consists of a minimum of 15 units in educational technology to include Educational Technology 540, 541, 544, and six units selected from Educational Technology 532, 561, 570, 572, 590, or 596 (when applicable).

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable or as prerequisites for the master's degree in educational technology. A minimum of six upper division units must be completed in residence at San Diego State University.

## Instructional Technology Certificate

**(Certificate Code: 90010) (SIMS Code: 334601)**

To receive a certificate in instructional technology, candidates must meet departmental admission requirements (which include relevant work experience or academic preparation), complete 15 units of coursework to include Educational Technology 540, 541, 544, and six units selected from Educational Technology 561, 570, 572, 590, or 596 (when applicable).

With the approval of the department, a student may apply no more than three units of coursework from the certificate program toward a minor.

## Courses (EDTEC)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

EDTEC

### LOWER DIVISION COURSES

#### EDTEC 220. Learning, Technology, and Society (3)

Problem-solving at the intersection of three fundamentally human enterprises: learning, technology, and social institutions. Identifying needs, generating possible solutions in the following domains: elearning, edutainment, formal and informal learning. Projections and visions of future developments to enhance learning.

#### EDTEC 296. Experimental Topics (1-3)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES

**(Intended for Undergraduates)**

#### EDTEC 350. Going Global: Designing Your International Learning Experience (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations II.B., Social and Behavioral Sciences.

Transforming study abroad into personal odyssey. Using telecommunications tools and educational technology to assess personal, academic, career opportunities, arrange meaningful learning experiences, develop global awareness and cross-cultural communication skills, manage logistics of living abroad, record, and communicate growth.

#### EDTEC 470. Technologies for Teaching (1-3)

One unit: One-half hour of lecture and one hour of activity. Two units: One hour of lecture and two hours of activity. Three units: One and one-half hours of lecture and three hours of activity.

Application of computer and video technologies to practice of teaching. Meets computer literacy requirement for Level I teaching credential.

#### EDTEC 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### EDTEC 499. Special Study (1-3)

Prerequisites: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### **EDTEC 532. Producing Digital Learning Media (1-3)**

Two hours of activity per unit.

Digital learning media production for professionals in health, law, science, business, publishing, and other settings. Use of web- and video-based technologies, presentation, and data analysis tools for training and education. Not open to students in educational technology master's degree or certificate programs.

#### **EDTEC 540. Educational Technology (3)**

Six hours of activity.

Rationale, foundations, theories, careers, trends, and issues in educational technology. Implications of educational technology for instruction and information in schools, government, and corporations.

#### **EDTEC 541. Educational Web Development (3)**

One lecture and six hours of laboratory.

Prerequisite: Basic computer literacy.

Systems, graphic design, and usability principles applied to design and development of web-based educational multimedia. Planning and prototyping digital media. Not open to students with credit in Educational Technology 532.

#### **EDTEC 544. Instructional Design (3)**

One lecture and six hours of laboratory.

Prerequisites: Educational Technology 540 and 541. Meet department Writing Skills Requirement.

Systematic design of products for education and training. Use of analyses and content mapping to set instructional goals. Instructional methods derived from learning theories for use in schools, universities, corporations, and other settings. Rapid prototyping of instructional products.

#### **EDTEC 561. Advanced Web-Based Multimedia Development (3)**

Six hours of activity.

Prerequisites: Educational Technology 540 and 541.

Educational visualization with digital video, animation, sound, 2D and 3D graphics for mobile and web-based learning.

#### **EDTEC 570. Advanced Teaching with Technologies (3)**

Prerequisite: Educational Technology 470 or equivalent work experience.

Design of project-based and problem-based learning using Internet resources. Constructivist learning with online databases. Collaboration with distant classrooms and experts.

#### **EDTEC 572. Technology for Course Delivery (3)**

One lecture and six hours of laboratory.

Prerequisites: Educational Technology 540 and 541.

Use of technology to support planning, presenting, and managing instructor-led courses. Strategies for integrating audience response systems, collaborative tools, and social software into courses.

#### **EDTEC 590. Evaluation Techniques for Performance Technologist (3)**

Two lectures and three hours of activity.

Prerequisites: Educational Technology 540 and 541. Recommended: Education 690.

Design and use of tools to collect, analyze, and communicate data about learning and performance.

#### **EDTEC 596. Topics in Educational Technology (1-3)**

Selected problems in educational technology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES

Refer to the *Graduate Bulletin*.

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# Electrical Engineering

In the College of Engineering

**OFFICE: Engineering 426**  
**TELEPHONE: 619-594-5718**  
**<http://electrical.sdsu.edu>**

The undergraduate degree in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

## Faculty

Emeritus: Abut, Bailey, Brown, Chan, Chang, Iosupovici, Harris, J., Lin, Lodge, Mann, Marino, Massey, Panos, Skaar, Stuart, Thyagarajan, Wilson

Chair: Tummala

The Radio Frequency Communications Systems Industry Chair: Gupta  
Professors: Gupta, harris, f., Kolen, Lee, G., Lee, L., Szeto, Tummala  
Associate Professors: Betancourt, Kumar, Nagaraj, Ozturk, Seshagiri  
Assistant Professors: Ashrafi, Engin, Sarkar, Sharma  
Adjunct: Subramnya, Waheed

## Offered by the Department of Electrical and Computer Engineering

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in electrical engineering.

Major in computer engineering with the B.S. degree.

Major in electrical engineering with the B.S. degree.

Certificate in rehabilitation technology (refer to the *Graduate Bulletin*).

## The Radio Frequency Communications Systems Industry Chair

The Radio Frequency (RF) Communications Systems Industry Chair was established in recognition of the pervasiveness and vital role of radio frequency and wireless communications in modern society, and the emergence of San Diego as the world's leading center of research and development in the field of telecommunications and wireless engineering. The chair is sustained through generous contributions of Cubic Corporation and other corporations engaged in wireless communication technology, in appreciation of contributions of students trained in the field at SDSU. The RF Communications Systems Industry Chair is intended to promote excellence in education of RF and microwave engineers, and encourage significant professional activities in the field. Dr. Madhu S. Gupta, the first occupant of the chair, maintains a major involvement in professional work in the discipline and has received international recognition from his professional peers as a distinguished educator and scholar in the field of RF and microwave engineering.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more

than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

### I. Communication and Critical Thinking: 9 units

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 29 units

#### A. Natural Sciences and Quantitative Reasoning (17 units):

1. Physical Sciences (7 units)
  - Physics 195 (3 units)
  - Physics 196 and 196L (4 units)
2. Life Sciences (3 units)
  - Engineering students will take Biology 100 or 101.
3. Laboratory (satisfied under A.1. above)
4. Mathematics/Quantitative Reasoning
  - You may **not** use Credit/No Credit grades.
  - Mathematics 150 (3 units applicable to General Education)
  - Mathematics 151 (4 units)

#### B. Social and Behavioral Sciences (3 units)

#### C. Humanities (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Total: 9 units; must include one course of cultural diversity.

#### A. Upper division Humanities (3 units)

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

#### B. Upper division Humanities (3 units from a department not selected in A above.)

#### C. Upper division Social and Behavioral Sciences (3 units)

After enrollment in electrical engineering at SDSU, an Electrical Engineering major must take all upper division electrical engineering courses at SDSU unless prior approval is obtained from the department.

## The Major

The field of Electrical Engineering involves three major activities: the generation and distribution of electric power; the collection, processing and communication of information; and the study and application of electromagnetic phenomena and materials.

The electric power industry is the oldest area of Electrical Engineering, but it remains an active area of innovation and development, as well as a major employer. Activities in the power area include the design of machines for energy conversion (motors and generators); the design of DC power supplies and other electronic circuits for the efficient delivery of electric power from various sources (e.g., solar cells, batteries, AC generators); and the design and operation of systems for the distribution of electric power, including the power grid that cover the United States with links to grids of other countries.

E E



The most dynamic area of Electrical Engineering today is the processing and communication of information. Activities in this area include the design of machines that store, process and display information; and the design of systems for communicating information (e.g., radios, telephones, fax machines, cellular phones, computer networks, the world wide web, satellite communication systems, cable television systems, etc.). Also included in this area are consumer electronics and instrumentation for applications of all sorts (e.g., medical equipment, industrial process control, machine control, bio-engineering, traffic control, radar, sonar, speech analysis and synthesis, music, etc.).

The study of electromagnetic phenomena and materials provides the foundation for all of Electrical Engineering. Research and development at this level typically leads to new developments and improvements in other areas. Major activities today include the study of energy conversion processes, fabrication processes, imaging techniques, information storage mechanisms, environmental processes, and optoelectronics (e.g., lasers, optical fibers, optical computing).

The Bachelor of Science degree program includes a core of courses that provides an introduction to each of the major areas described above. In addition, nearly a full year of professional electives provides the opportunity for students to specialize in areas of particular interest. The process of engineering design is emphasized throughout the curriculum by including open-ended problems with realistic design constraints. The design experience culminates in a capstone design course required of all students. Creativity, consideration of economic and social factors, and the application of systematic design procedures are used to solve problems that confront engineers. The curriculum attempts to achieve a balance between theory and practice that will prepare graduates both for immediate employment and for continued study. The Master of Science program offers graduates in electrical engineering and related fields the opportunity for continued study and further specialization.

Employment opportunities within the electrical engineering profession are challenging and usually plentiful. Electrical engineering graduates are sought by a wide range of employers in government and industry for many different types of work including design, testing, production, maintenance, system operation, programming, customer support engineering, and technical marketing and sales. Graduates have the opportunity to contribute to society by helping to design and supply the high-quality products and services that are necessary for a robust economy.

### Educational Objectives

The overall objective of the undergraduate program in electrical engineering is to produce the best skilled, hands on practicing electrical engineer. More specifically the objectives are:

- To provide students with the technical knowledge and skills that will enable them to have a successful career in the electrical engineering profession;
- To provide students with a general education that will enable them to appreciate the social, ethical, economic, and environmental dimensions of problems they may face;
- To develop in students the communication skills and social skills that are necessary to work effectively with others;
- To develop the ability of students to solve problems by learning what is already known, and then applying logic and creativity to find a solution;
- To provide students with the intellectual skills necessary to continue learning and to stay current with the profession as it changes.

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Electrical Engineering Major

With the B.S. Degree

(Major Code: 09091) (SIMS Code: 443001)

The program below describes the 130 units required for the degree. Each course specifically listed in the program is required. In addition, the total number of units specified in each elective category represents a minimum requirement. These are General Education, American Institutions, Upper Division Engineering Elective, Professional Electives, and Electrical Engineering Laboratory Electives.

**Preparation for the Major.** Electrical Engineering 210; Biology 100 or 101; Computer Engineering 160, 270, 271; Engineering 280; Mathematics 150, 151, 252, 254; Physics 195, 195L, 196, 196L. (41 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree. (Fifty units, including 17 units from preparation for the major which count toward General Education credit, and 3 units of American institutions which count toward General Education credit.)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 53 upper division units to include the following required and professional elective courses. Required upper division courses in the major: Electrical Engineering 300, 310, 330, 330L, 340, 380, 410, 420, 430, 434, 440, 490; Computer Engineering 375. Professional electives: Twelve units selected from upper division electrical engineering courses and no more than three units from approved upper division courses from other departments. Electrical Engineering laboratory electives: Three units selected from any non-required upper division electrical engineering laboratory courses.

**Master Plan.** A master plan of elective courses must be approved by the faculty adviser and department chair and filed with the Office of Advising and Evaluations during the first semester of the junior year. Changes to the master plan are permitted at any time, with approval of the department chair. After enrollment in electrical engineering at SDSU, an electrical engineering major must take upper division electrical engineering courses at SDSU unless prior approval is obtained from the department.

## Courses (E E)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**NOTE:** Prerequisites will be enforced in all undergraduate electrical engineering courses numbered 100 through 596. A copy of an official transcript will be accepted as proof. For corequisites, an enrollment confirmation form will be accepted.

**Any course at the 300 level or below must be passed with a grade of C- or better in order to be used as a prerequisite for any subsequent course.**

### LOWER DIVISION COURSES

#### E E 204. Principles of Electrical Engineering (3)

Prerequisites: Mathematics 151 and Physics 196.

Circuit analysis, phasor diagrams, single-phase and three-phase power, semiconductor devices and applications, and energy conversion devices. Not acceptable for electrical or computer engineering majors.

#### E E 210. Circuit Analysis I (3)

Prerequisites: Mathematics 151 and Physics 196.

Circuit analysis by reduction methods, Thevenin and Norton's equivalence, mesh current and nodal voltage analysis. Transient analysis of first-order circuits and use of phasors for steady-state sinusoidal analysis. Operational amplifier models, impedance, power. Computer software tools for circuit analysis.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**E E 300. Computational and Statistical Methods for Electrical Engineers (3)**

Prerequisites: Computer Engineering 160 and Mathematics 151.

Probabilistic and statistical concepts and models in electrical engineering including counting techniques, random variables, probability distributions and simple regression analysis. Graphical representation of data and statistical inference using computer-aided engineering tools.

**E E 303. Electronics, Instrumentation, and Electrical Energy Conversion (3)**

Prerequisite: Electrical Engineering 204.

Theory and application of diodes and transistors in typical electronic circuits. Instrumentation and electronic measuring devices. Fundamentals of electro-mechanical energy conversion including motors and transformers. Not open to electrical engineering majors.

**E E 310. Circuit Analysis II (3)**

Prerequisites: Electrical Engineering 210 and either Mathematics 252 or both Engineering 280 and Mathematics 254.

Transient and frequency response of RLC circuits. Mutual inductance, network analysis using Laplace transformations, network functions, stability, convolution integrals, Bode diagrams, two-port networks, computer analysis of circuits.

**E E 330. Fundamentals of Engineering Electronics (3)**

Prerequisite: Electrical Engineering 210.

Application of diodes JFETs, MOSFETs, and BJTs in typical electronic circuits. Analysis and design of rectifiers, filters, and simple amplifiers using transistors and operational amplifiers.

**E E 330L. Engineering Electronics Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Electrical Engineering 330.

Experimental study of laboratory instruments, diodes, rectifier circuits, filters, transistors, and operational amplifiers.

**E E 340. Electric and Magnetic Fields (3)**

Prerequisites: Electrical Engineering 210 and Engineering 280.

Electrostatic and magnetostatic field theory using vector notation; Coulomb's Law, Gauss' Law and potential theory. Solutions to Poisson's and Laplace's equations; capacitance and inductance. Time-varying fields; Maxwell's equations.

**E E 380. Electrical Energy Conversion (3)**

Prerequisite: Electrical Engineering 210.

Magnetic circuits, transformers and polyphase AC networks. Fundamentals of electro-mechanical energy conversion; induction motors, synchronous machines and DC machines.

**E E 380L. Electrical Energy Conversion Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Electrical Engineering 380.

Experimental study of DC, single and polyphase AC circuits, transformers, and machines.

**E E 397. Discussion: Electrical Engineering (1) Cr/NC**

Prerequisite: Concurrent registration in associated course.

Discussion and examples of problem-solving techniques in subject area. Weekly writing assignments summarizing material covered in lecture and identifying troublesome topics. Not applicable to a bachelor's degree.

**E E 410. Signals and Systems (3)**

Prerequisites: Electrical Engineering 300 and 310. File an approved master plan with the Department of Electrical and Computer Engineering.

Linear time-invariant systems, Fourier analysis, continuous and discrete signals and systems, sampling and Laplace transform techniques.

**E E 420. Feedback Control Systems (3)**

Prerequisite: Electrical Engineering 410.

Control systems including servomechanisms by Laplace transform method. System performance and stability; Nyquist, Bode, and root-locus diagrams; elementary synthesis techniques. Practical components and examples of typical designs.

**E E 430. Analysis and Design of Electronic Circuits (3)**

Prerequisites: Electrical Engineering 310, 330, and Engineering 280.

Single and multiple transistor amplifiers, power stages. Frequency response, feedback, stability, and operational amplifier circuits.

**E E 430L. Electronic Circuits Laboratory (1)**

Three hours of laboratory.

Prerequisites: Electrical Engineering 330L and 430.

Transistor dynamic characteristics; single stage and multistage amplifier circuits including feedback, tuned amplifiers, voltage regulators, active filters, and A/D-D/A converters.

**E E 434. Electronic Materials and Devices (3)**

Prerequisites: Electrical Engineering 330 and 340.

Crystal properties and growth of semiconductors, quantum mechanics of solids, shot noise and thermal noise, energy band and charge carriers, excess carrier in semiconductors, p-n junctions, solar cells, tunnel diodes, photodetectors.

**E E 439. Instrumentation Circuits (3)**

Prerequisite: Electrical Engineering 430.

Design and analysis of mixed signal, analog/digital, electronic systems. Emphasis on operational amplifier based circuit design with design procedures needed to accommodate amplifier limitations in real world applications. Introduction to digitally controlled, analog signal processing. (Formerly numbered Electrical Engineering 539.)

**E E 440. Electromagnetic Waves (3)**

Prerequisites: Electrical Engineering 310 and 340.

Time-domain form of Maxwell equations, electromagnetic wave propagation in unbound media, Poynting vector, reflection of plane waves, transmission line theory, Smith chart, different microwave transmission lines, wave propagation in bounded media, waveguides, and introduction to antennas. (Formerly numbered Electrical Engineering 450.)

**E E 458. Analog and Pulse Communication Systems (3)**

Prerequisite: Electrical Engineering 410.

Analog and digital communication systems. Amplitude and frequency modulation, pulse modulation, and PCM. Introduction to information theory.

**E E 480. Power System Analysis (3)**

Prerequisites: Engineering 280, Electrical Engineering 310 and 380.

Modern power system elements; calculation of load flow, fault currents, and system stability. (Formerly numbered Electrical Engineering 580.)

**E E 483. Power Distribution Systems (3)**

Prerequisite: Electrical Engineering 380.

Design and operation of electric power distribution systems. Design of primary and secondary systems, application of one phase and three phase transformer banks, and metering principles and practices.

**E E 484. Power Electronics (3)**

Prerequisites: Electrical Engineering 380 and credit or concurrent registration in Electrical Engineering 430.

Design and analysis of power electronic devices. Power semiconductor switches, switch-mode power supplies, dc-to-ac inverters, PM and PWM ac-to-ac converters. Power electronics applications. (Formerly numbered Electrical Engineering 583.)

**E E 490. Senior Design Project (4)**

Two lectures and six hours of laboratory.

Prerequisites: Computer Engineering 375, Electrical Engineering 330L, 410, and 430.

Supervised capstone design projects to provide integrative design experience for seniors to include ethics, professionalism, cost-effectiveness, and project management.

E E

### **E E 496. Advanced Electrical Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in electrical engineering. See *Class Schedule* for specific content. Maximum credit nine units for any combination of Electrical Engineering 496 and 596 applicable to a bachelor's degree.

### **E E 499. Special Study (1-3)**

Prerequisites: Approval of project adviser and department chair. Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

### **E E 502. Electronic Devices for Rehabilitation (3)**

Two lectures and three hours of laboratory.

Prerequisite: Electrical Engineering 303 or 330.

Recent developments in electronic assistive devices and microcomputers for persons with various disabilities; assessment of disabled persons for suitable technological assistive devices.

### **E E 503. Biomedical Instrumentation (3)**

Prerequisites: Engineering 280; Electrical Engineering 410 and 430 (or for Mechanical Engineering majors, Electrical Engineering 204 and Mechanical Engineering 330).

Instrumentation systems to monitor, image, control, and record physiological functions.

### **E E 522. Digital Control Systems (3)**

Prerequisite: Electrical Engineering 420.

Digital controls systems; design algorithms including analog-invariance methods, direct digital techniques, and non-parametric approaches such as fuzzy control, neural networks, and evolutionary systems; implementation considerations. (Formerly numbered Electrical Engineering 622.)

### **E E 530. Analog Integrated Circuit Design (3)**

Prerequisite: Electrical Engineering 430 with minimum grade of C-.

Advanced treatment of transistor pairs, device mismatches, differential amplifiers, current mirrors, active loads, level shifting, and output stages. Parasitic and distributed device parameters. Economics of IC fabrication and impact on design.

### **E E 534. Solid-State Devices (3)**

Prerequisite: Electrical Engineering 434.

Conduction theory of solids. Characteristics of tunnel, backward, breakdown, multilayer and varactor diodes; silicon controlled rectifiers and switches, unijunction transistors, hot electron devices. Lasers and laser applications.

### **E E 540. Microwave Devices and Systems (3)**

Prerequisite: Electrical Engineering 440. Recommended: Engineering 510.

Applications of Maxwell's equations to wave propagation. Microwave network parameters; guided wave transmission and reflection. Design of filters, couplers, power dividers and amplifiers. Applications in radar and telecommunications systems.

### **E E 540L. Microwave Design and Measurements Laboratory (1)**

Three hours of laboratory.

Prerequisites: Credit or concurrent registration in Electrical Engineering 430L and 540.

Designs, computer simulations, fabrications, and testings of microwave matching networks, couplers, filters, and amplifiers.

### **E E 541. Electro-Optics (3)**

Prerequisite: Electrical Engineering 434.

Optical/electronic devices and systems; wave beams; light-matter quantum interactions; incoherent and laser light sources; modulators and detectors. Applications in data transmission, measurement, and materials processing.

### **E E 546. Optical Fiber Communications Systems (3)**

Prerequisite: Electrical Engineering 434.

Optical fiber attenuation and dispersion, light-emitting diodes and laser diodes, PIN diodes and avalanche photodiodes, receiver designs, optical power budgets and rise time budgets, applications in digital and analog communication systems.

### **E E 556. Digital Signal Processing (3)**

Prerequisite: Electrical Engineering 410 or Physics 516.

Discrete-time signals and systems, Sampling, Z-transform, Discrete-time Fourier transform and frequency responses, DFT, FFT, and introduction to IIR and FIR digital filter design.

### **E E 558. Digital Communications (3)**

Prerequisite: Electrical Engineering 458.

Design of baseband digital communication systems; noise characterization, sampling, quantization, matched filter receivers, bit-error performance, inter-symbol interference, link budget analysis.

### **E E 558L. Communications and Digital Signal Processing Laboratory (1)**

Prerequisite: Credit or concurrent registration in Electrical Engineering 556 or 558.

Experiments in modulation techniques, effects of noise on system performance, digital filters, and signal processing.

### **E E 581. Power System Dynamics (3)**

Prerequisite: Electrical Engineering 480.

Three-phase faults, symmetrical components, unsymmetrical faults, protective relay operating principles, economic dispatch of thermal power generation units, power system controls, voltage and power stability.

### **E E 596. Advanced Electrical Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in electrical engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of nine units for any combination of Electrical Engineering 496 and 596 applicable to a bachelor's degree. Maximum combined credit of six units of Electrical Engineering 596 and 696 applicable to a 30-unit master's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### **GRADUATE COURSES Refer to the *Graduate Bulletin*.**

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# Engineering

In the College of Engineering

**OFFICE:** Engineering 203

**TELEPHONE:** 619-594-6061

**E-MAIL:** [info@engineering.sdsu.edu](mailto:info@engineering.sdsu.edu)

The College of Engineering undergraduate programs in aerospace, civil, computer, electrical, environmental, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

Accreditation is being sought for construction engineering.

## Faculty

Faculty assigned to teach courses in engineering are drawn from departments in the College of Engineering.

## Minor in Engineering

**(Minor Code: 09011) (SIMS Code: 444001)**

The minor in engineering, intended for students in other academic areas of the university, consists of 15 units in engineering, 12 units of which must be in upper division courses. The courses must be approved by the dean of the College of Engineering.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ENGR)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

ENGR

### LOWER DIVISION COURSES

#### ENGR 280. Methods of Analysis (3)

Prerequisite: Mathematics 151 with minimum grade of C. Recommended: Mathematics 252.

Selected topics from ordinary differential equations, the Laplace transform, Fourier series, and linear algebra, with engineering applications.

#### ENGR 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSE

**(Intended for Undergraduates)**

#### ENGR 496. Advanced Engineering Topics (1-3)

Prerequisite: Minimum grade point average of 2.0 in engineering.

Modern developments in engineering. See *Class Schedule* for specific content. Maximum credit six units for any combination of 496, 499, and 596 applicable to a bachelor's degree.

### UPPER DIVISION COURSE

**(Also Acceptable for Advanced Degrees)**

#### ENGR 510. Methods of Analysis (3)

Prerequisite: Engineering 280 with minimum grade of C.

Selected topics from vector calculus, partial differential equations, and complex analysis, with engineering applications.

### GRADUATE COURSES

**Refer to the *Graduate Bulletin*.**

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# English

In the College of Arts and Letters

**OFFICE: Arts and Letters 226**

**TELEPHONE: 619-594-5443 / FAX: 619-594-4998**

**E-MAIL: [EandCL@mail.sdsu.edu](mailto:EandCL@mail.sdsu.edu)**

**<http://literature.sdsu.edu>**

## Faculty

Emeritus: Adams, Baker, Benson, Boe, Brashear, Brown, Bumpus, Butler, Chater, Davis, Farber, Gervais, Gregory, Griswold, Ingham, Kehler, Kuznets, Little, McCaffery, McLeod, Monteverde, Moramarco, Nelson, Neumeyer, Redding, M., Redding, R., Rogers, Rother, Sanderlin, Savvas, Scott, Sheres, Shojai, Stiehl, Tozer, Vanderbilt, Wall, Wheeler, Widmer

Interim Chair: Brooks

Professors: Alcosser, Allison, Amtower, Champion (IVC), Chin, Edson, Herman, Hicks, Jaffe, Koolish, Matlin, Nericcio, Polkinhorn, Shumaker (IVC)

Associate Professors: Brooks, Colquitt, Cummins-Lewis, Kaminsky, Martin, Stampfl (IVC)

Assistant Professors: Bailey, Borgstrom, Serrato, Thomas

## Offered by the Department of English and Comparative Literature

Master of Arts degree in English.

Master of Fine Arts degree in creative writing.

Major in English with the B.A. degree in liberal arts and sciences.

Major in English in preparation for the single subject teaching credential in English language arts.

English honors.

Minor in English.

Certificate in children's/adolescent literature, advanced (refer to the *Graduate Bulletin*).

## The Major

The study of English today encompasses a wide range of materials and approaches to ways in which both students and established writers – past and present – may use language to express feelings, convey ideas, and give aesthetic pleasure. As one of the largest English departments in California, SDSU's can offer not only historical, analytical, sociopolitical and other approaches to literature and literary theory, but a variety of creative and expository writing classes as well.

English majors take 15 units of lower division preparatory work designed to develop writing potential and analytical reading skills. More specialized upper division study focuses on particular areas: British literature before 1800; British literature after 1800; American literature; modern literature; literary types, theory, and criticism; creative writing; or expository writing. Six units in upper division comparative literature are required.

Students preparing to obtain the single subject credential in English take a "language arts" program in which courses in communication, journalism, linguistics, and theatre supplement major concentration in English.

The English minor requires twelve units of upper division study that can be tailored to individual requirements.

Teaching is one of the many career opportunities available to English graduates; English studies are also good preparation for radio and television broadcasting, editing, writing, politics, film and library work, journalism, criticism, advertising, public information, public relations, and technical writing.

A study by the Modern Language Association, "English: The Pre-Professional Major," shows that training in English and literature is valuable preparation for futures in law, medicine, business, and federal service.

SDSU Career Services has found that liberal arts graduates in general have profited both in terms of job availability and compensation in the shift from manufacturing to service in the United States economy.

## English Major Honors

### (Standard Major)

The English honors program offers excellent students a variation of the major designed to engage them in work commensurate with their abilities. Honors students in the standard English major will take two additional upper division courses appropriate for their field of interest, in which they must maintain an A- grade point average, and successfully complete an Honors Thesis (English 499 or Comparative Literature 499). Generally, students will apply to this program in their junior year after they have completed at least nine units of lower division preparation for the major and nine units of upper division major requirements with an A- (3.7 GPA) and overall 3.5 GPA. Applicants must also submit an appropriate sample of their critical or creative work. Successful completion of the English honors program will be recognized at graduation.

## English Major Honors

### In preparation for the Single Subject Teaching Credential in English Language Arts

#### With the B.A. Degree in Liberal Arts and Sciences

The English honors program offers excellent students a variation of the major designed to engage them in work commensurate with their abilities. Honors students in the English major in preparation for the Single Subject Teaching Credential in English Language Arts will convert nine of the twelve units of electives into two honors courses, in which they must maintain an A- grade point average, and successfully complete an Honors Thesis (English 499 or Comparative Literature 499). Generally, students will apply to this program in their junior year after they have completed at least nine units of lower division preparation for the major and nine units of upper division major requirements with an A- (3.7 GPA) and overall 3.5 GPA. Applicants must also submit an appropriate sample of their critical or creative work. Successful completion of the English honors program will be recognized at graduation.

## Impacted Programs

The majors in English and English in Preparation for the Single Subject Teaching Credential in English Language Arts are impacted programs. To be admitted to the major in English or English in Preparation for the Single Subject Teaching Credential in English Language Arts, refer to the program description for specific impacted criteria.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## English Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 15011) (SIMS Code: 112101)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 54 units in English, comparative literature, and rhetoric and writing studies courses can apply to the degree.

A minor is not required with this major.

**Impacted Program.** The major in English is designated as an impacted program and specific criteria are used to admit students. To be admitted to the major in English, students must meet the following criteria:

- Complete with a minimum GPA of 2.50 and a grade of C or higher: English 250A or 250B; English 260A-260B; Rhetoric and Writing Studies 200; three units selected from English 220, 280, 281, Comparative Literature 270A or 270B. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** English 250A or 250B; English 260A-260B; Rhetoric and Writing Studies 200; three units selected from English 220, 280, 281, Comparative Literature 270A or 270B. (15 units)

Any grade requirements and GPA requirements listed above for admission to the major in English will also be enforced in Preparation for the Major requirements.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking English 308W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units in English and comparative literature with approval of the adviser to include English 308W, 533, three units in British literature before 1800 (English 530, 534, 536, 537, 540A, 541A, 541B, 542), three units in British literature after 1800 (English 540B, 543, 544), six units in American literature (English 519, 520-526) including at least one period course (English 521, 522, 523, 524, 525), six units in comparative literature or English 527, 528, or 563; and nine units of electives in any combination of courses in American, British, comparative literature, and creative writing.

**English Honors Variation.** Six rather than nine units of electives; six additional units of upper division coursework in English, comparative literature, or other departments, with consent of honors adviser; and Honors Thesis (English 499 or Comparative Literature 499). (39 units)

**NOTE:** In addition to the courses listed above, appropriate sections of English 496, 499, 549 and selected comparative literature courses may be used to satisfy the requirements for the major if approved by the departmental adviser.

### Selection of Courses

Prospective majors of sophomore standing may, with the consent of the course instructor and subject to general university regulations (see "Credit for Upper Division Courses" in the section of this catalog on General Regulations), substitute six units of upper division electives for six units of lower division work. These courses must be in the same field as those which they replace, and must be approved by the departmental adviser.

Students of junior or senior standing may substitute for any deficiencies in lower division requirements in English (except Rhetoric and Writing Studies 100 and 200) an equivalent number of units of upper division courses selected with the approval of the departmental adviser.

## English Major

**In preparation for the Single Subject Teaching Credential in English Language Arts**

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 15011) (SIMS Code: 112102)**

ENGL

Requirements listed here are for the fulfillment of the English major in preparation for the single subject teaching credential in English language arts. All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. Completion of this major also fulfills 21 units of the General Education program.

A minor is not required with this major.

**Impacted Program.** The major in English in Preparation for the Single Subject Teaching Credential in English Language Arts is designated as an impacted program and specific criteria are used to admit students. To be admitted to the major in English in Preparation for the Single Subject Teaching Credential in English Language Arts, students must meet the following criteria:

- Complete with a minimum GPA of 2.50 and a grade of C or higher: Rhetoric and Writing Studies 100; English 220 or Comparative Literature 270A or 270B; six units from English 250A and 250B or English 260A and 260B; English 280. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** (30 units) 21 units fulfills General Education.

- Rhetoric and Writing Studies 100 and 200 (General Education I. 2 and 3).
- Communication 103 (General Education I. 1).
- English 220 or Comparative Literature 270A or 270B (3 units General Education II. C.1).
- Journalism and Media Studies 200 (General Education II. B).
- Humanities 140 (General Education II.C.2).
- Linguistics 101 (3 units General Education II.B)
- English 250A and 250B or 260A and 260B (6 units).
- English 280.

Any grade requirements and GPA requirements listed above for admission to the major in English in Preparation for the Single Subject Teaching Credential in English Language Arts will also be enforced in Preparation for the Major requirements.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking English 308W and earn a grade of C (2.0) or better (see #9 below). See "Graduation Requirements" section for a complete listing of requirements.

**Major.** (46 upper division units) Fulfills three units of General Education. Courses within major cannot be double-counted.

- English 308W.
- English 502.
- English 533.
- For those who took English 250A-250B (American literature survey) select three units from English 530, 534, 536, 537, 540A, 541A, 541B, 542; and three units from English 540B, 543, 544 (no duplication with #18 or 19). (6 units)

For those who took English 260A-260B (British literature survey) select six units from English 521, 522, 523, 524, 525 (no duplication with #18 or 19). (6 units)

13. Theatre 310.
14. Linguistics 430 or 530.
15. Linguistics 452 or 550 (Prerequisite is Linguistics 420).
16. Rhetoric and Writing Studies 509 AND Teacher Education 362 must be taken concurrently.
17. Diversity literature course: Three units selected from Africana Studies 365A, 365B, 463, 464, American Indian Studies 430, Chicana and Chicano Studies 335, Theatre 465, Women's Studies 352 (General Education IV.C.) (also acceptable but non-General Education: English 519, 520, Comparative Literature 440, 445, 451 [or Asian Studies 451]).
18. Pre-Nineteenth Century: Three units selected from Comparative Literature 512, English 521, 530, 534, 536, 537, 540A, 541A, 541B, 542.
19. Nineteenth Century to Present: Three units selected from Comparative Literature 440, 445, 451, 513, 514, English 522, 523, 524, 525, 540B, 543, 544.
20. Required Specialization: (9-12 units) Select one:
  - A. English: Nine additional units in any 500-level course in English or Comparative Literature.
  - B. Written Expression: Nine units selected from English 570-587, 508W, 584W.
  - C. Linguistics: (9 units) Three units selected from Linguistics 524, 551, 553; three units selected from Linguistics 410, 453, 555, 571; three units selected from Linguistics 452\*, 550\*, 552\*, 554\* (no duplication with #15).
  - D. Theatre: Theatre 325, 359, and three units selected from Theatre 300-599 (with consent of instructor and/or required prerequisites).
  - E. Journalism: Journalism and Media Studies 310W, 315, 460. (Journalism and Media Studies 220 required as prerequisite for this specialization.)

**Consult with the English and Comparative Literature honors program adviser for honors program variation.**

### Course Sequences

All year courses in English may be taken in either semester, and either semester may be taken singly for credit.

### Student Initiated Courses

Students may petition for a course which falls within the competency of the English department but which is not among the regular course offerings for the present or following semester. Petition forms may be obtained from the department secretary.

### Undergraduate Seminars

Each semester, if adequate staffing permits, the department may offer several of its courses as special, limited-enrollment seminars. These seminars are designed to give English majors (or anyone who has the consent of the instructor) the opportunity as juniors and seniors to engage in advanced work in small discussion groups.

## English Minor

(SIMS Code: 112101)

The minor in English consists of a minimum of 15 units, 12 units of which must be in upper division courses. The department offers minors specifically tailored to complement students' majors. All minors will include English 220 (unless a substitution is approved by the departmental adviser) and 12 upper division units selected from one of the following areas, dependent upon the student's major:

**Social Science disciplines (SIMS Code: 112163)**, one course from each group:

1. A course in Shakespeare: English 302 or 533.

2. A course in expository writing: English 308W, Rhetoric and Writing Studies 500W or 503W.
3. A course in literature and psychology, the bible as literature, children's literature, adolescence in literature or folk literature: English 301, 405, 491, 501, 502, Comparative Literature 470, or approved sections of special topics courses.
4. A course in contemporary literature: English 525, 544, or approved sections of special topics courses.

**Fine Arts disciplines (SIMS Code: 112137)**, one course from each group:

1. A course in Shakespeare: English 302 or 533.
2. A course in genre study or criticism: English 405, 501, 502, 508W, 527, 570\*, 571\*, 573\*, 577\*, 579\*, Comparative Literature 561, 562, 563.
3. A course in literature and other arts: English 493, Comparative Literature 594, 595, or approved sections of special topics courses.
4. A course in creative writing: English 580\*, 581W\*, 583\*, 584W\*, 587\*, or approved sections of special topics courses.

**Business disciplines (SIMS Code: 112110)**, one course from each group:

1. A course in expository writing: English 308W, Rhetoric and Writing Studies 500W or 503W.
2. A course in Shakespeare, literature and psychology, literature and film, or modern American fiction: English 301, 302, 491, 493, 494, 533.
3. A course in American literature: English 519, 520, 521, 522, 523, 524, 525, or approved sections of 526.
4. A course in British literature: English 536, 540A, 540B, 541A, 541B, 542, 543, or approved sections of 549, and special topics courses.

**Humanities disciplines (SIMS Code: 112141)**, one course from each group:

1. A course in Shakespeare: English 302 or 533.
2. A course in genre study or criticism: English 405, 501, 508W, 527, 570\*, 571\*, 573\*, 577\*, 579\*, Comparative Literature 561, 562, 563.
3. A course in literary history: English 521-525, 536, 537, 542, 543, or 544, Comparative Literature 512, 513, 514.
4. A second course in literary history or a course in literature and other disciplines, English 493, Comparative Literature 594, 595, or approved sections of special topics courses.

**Science disciplines (SIMS Code: 112161)**, one course from each group:

1. A course in technical writing: Rhetoric and Writing Studies 503W\*.
2. A course in Shakespeare or Bible as Literature: English 302, 405, 533.
3. A course in literature and psychology, literature and film, modern American fiction, or children's literature: English 301, 491, 493, 494, 501, 502, or approved sections of other special topics courses.
4. A course in literary history: English 521-525, 536, 542, 543, or 544, Comparative Literature 512, 513, 514.

\*Additional prerequisites required.

**For students whose needs are not accommodated by any of the above patterns:**

Students whose majors are not represented by the patterns above, students who wish to design a minor more directly tailored to their specific major, or students who otherwise feel they have special needs are encouraged to consult with their advisers in both major and minor departments to design individualized minors in English. All such minors must have the written approval of both departmental advisers.

The English minor is not available to students majoring in comparative literature. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (ENGL)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### **ENGL 100. Rhetoric of Written Argument (3) [GE]** (Same course as Rhetoric and Writing Studies 100)

*International students are advised to take Linguistics 100.*

Prerequisite: Satisfaction of the SDSU writing competency requirement. (See Graduation Requirements section of catalog.) **Proof of completion of prerequisites required:** Copy of EPT or competency scores or verification of exemption; proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

Writing and reading as critical inquiry, designed to help students undertake university-level writing projects. Focus on rhetoric of written arguments. Students learn to use sources in their writing and make appropriate decisions about structure, cohesion, and rhetorical conventions. Not open to students with credit in a higher-numbered composition course or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

#### **ENGL 102. Critical Reading (1)** (Same course as Rhetoric and Writing Studies 102)

Two hours of activity.

Prerequisite: Passage of EPT. For first-semester freshmen in Yocoy Learning Communities through Thomas B. Day Student Success Program.

Cognitive and critical reading skills essential to general education courses across the curriculum.

#### **ENGL 200. Rhetoric of Written Arguments in Context (3) [GE]** (Same course as Rhetoric and Writing Studies 200)

*International students are advised to take Linguistics 200.*

Prerequisites: Satisfaction of the SDSU writing competency requirement and Rhetoric and Writing Studies 100 or 101 or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Further practice in writing, reading, and critical thinking. Emphasis on rhetoric of written arguments in context and using multiple sources in writing. Continued attention to structure, cohesion, and rhetorical conventions. Not open to students with credit in Africana Studies 200, Chicana and Chicano Studies 200, General Studies 260D, or Linguistics 200 or Rhetoric and Writing Studies 200. Completion of Rhetoric and Writing Studies 200 may require completion of the library workbook assignment.

#### **ENGL 220. Introduction to Literature (3) [GE]**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or Linguistics 100 or General Studies 260A or Rhetoric and Writing Studies 100 or 101. **Proof of completion of prerequisite required:** Copy of transcript.

Inquiry into basic nature of literature. What prompts humankind to creation of imaginative literature? What purposes does literature serve in cultural life of humanity? What are its social, philosophical, spiritual, and esthetic values? Some consideration may be given to techniques and major critical theories, but focus will be on practical criticism for nonspecialists. Specific works studied will be representative of several genres, cultures, and periods of literature.

#### **ENGL 250A-250B. Literature of the United States (3-3)**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

United States literature from colonial period to present. Semester I: from beginning to Civil War. Semester II: Civil War to present. Recommended for English majors.

#### **ENGL 260A-260B. English Literature (3-3)**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

English literature from Anglo-Saxon period to present, with emphasis on major works in literary tradition. Semester I: Ends with neoclassical period. Semester II: Begins with Romantic writers.

#### **ENGL 280. Introduction to Creative Writing (3)**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

Theory and practice of poetry and fiction, with emphasis on basic concepts and techniques. A research paper on a writer, a technique, a period, or a genre required.

#### **ENGL 281. Creative Writing: Selected Genres (3)**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

Guidance and extensive practice in writing in one or more of the major genres: poetry, drama, fiction, or the essay. See *Class Schedule* for specific content.

#### **ENGL 296. Experimental Topics (1-4)**

Prerequisites: A grade of C (2.0) or better in English 100, Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### **ENGL 301. The Psychological Novel (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Psychological novel from its inception to present, including major works from a variety of cultures. Readings designed to aid students in discovering insights which great novelists have unearthed in their explorations of the human psyche.

#### **ENGL 302. Introducing Shakespeare (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Representative tragedies, comedies, and histories. Primarily for the general student not specializing in English or comparative literature. This course does not count toward the English or comparative literature majors. Majors are required to take English 533.

#### **ENGL 303. Contemporary World Novel (3)**

Selected novels of critical acclaim, first published or first translated within the past 20 years from literatures around the world to include problems of social class and gender roles as well as views of global economic development and aesthetic considerations.

ENGL



**ENGL 306A-306W. Children's Literature and Advanced Composition (3-3)**

Prerequisites: English 200 or Rhetoric and Writing Studies 200. English 306A and 306W must be taken concurrently. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

**A.** Reading, analysis, and discussion of classic works of children's literature.

**W.** Advanced composition; improvement of student skills through writing assignments based upon reading and work in the lecture part. Primarily designed to meet Graduation Writing Assessment and Literature requirements for Liberal Studies-Emphasis in Education.

**ENGL 308W. Literary Study: Analysis, Research, and Writing (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Methods of literary analysis; concepts and terminology of literary study; research methods. Modes of writing about literature, with emphasis on the research paper.

**ENGL 401. Childhood's Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Influential contemporary and classic literature for children and young adults, such as Charlotte's Web and the Harry Potter series. Sample topics include construction of childhood, cultural values and ethics, role models, subversion of adult power. Not applicable to English or comparative literature majors. Majors are to take English 501.

**ENGL 405. The Bible as Literature (3) [GE]**  
(Same course as Comparative Literature 405)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Prose and poetry of the King James version.

**ENGL 409. Science Fiction (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

How authors have responded to growing impact of science and technology on people's lives and imaginations. Representative works by authors such as Kobo Abe, Bradbury, Butler, Delaney, DeLillo, Dick, Gibson, Heinlein, Hoban, Huxley, Kapek, LeGuin, Murakami, Orwell, Poe, Russ, Shelley, Verne, Wells, Zamyatin, and others.

**ENGL 410. Literature and the Passions (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Studies literature and the passions (grief and melancholy, anger and rage, and love) with emphasis on language and rhetorical techniques writers employ to construct emotion. Writers may include Emily Bronte, Raymond Carver, Chretien de Troyes, DuBois, Emerson, Homer, Melville, and Shakespeare.

**ENGL 491. Contemporary Topics in Literature (3)**

Exploration of writers, works and topics in fiction, poetry, drama, and film, emphasizing the relationship between literature and current concerns. Topics include the city in fiction and film, literature and identity, literature of death, literature of contemporary myth and folklore, women in literature. Primarily for the general student not specializing in English or comparative literature. May count only as an elective course toward the English major. May be repeated with new title and content. Maximum credit six units. See *Class Schedule* for specific content.

**ENGL 493. Literature and Film (3)**

Relationships between film and genres of literature, focusing on a critical comparison of the techniques of rhetoric, fiction, and drama and those of film. Topics include literature and film, novel into film, drama and film, reading film. Primarily for the general student not specializing in English or comparative literature. May count only as an elective course toward the English major. May be repeated with new title and content. Maximum credit six units.

**ENGL 494. Modern Fiction of the United States (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Representative works by twentieth-century American authors such as Cather, Hemingway, Steinbeck, Faulkner, Fitzgerald, Ellison, Welty, Bellow, Vonnegut, Heller, Walker, others. Primarily for the general student not specializing in English or comparative literature. May count toward the English major only as an elective.

**ENGL 496. Selected Topics in English (1-4)**

Specialized study of a selected topic in literature. May be repeated with new title and content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**ENGL 499. Special Study (1-3)**

Prerequisites: Consent of instructor and approval of department chair.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

Prerequisite for all 500-level courses: Six lower division units in courses in literature and/or creative writing.

**ENGL 501. Literature for Children (3)**

Critical analysis of literature intended for children. Study of texts and illustrations. This course cannot be used in place of English 401 to satisfy General Education requirements.

**ENGL 502. Adolescence in Literature (3)**

Works centrally concerned with an adolescent protagonist. Includes both traditional novels of development (Bildungsroman) and contemporary young adult novels.

**ENGL 503. Topics in Children's Literature (3)**

Topics in children's and adolescents' literatures such as regionalism, multiculturalism, fantasy, science fiction, non-fiction, illustrated books, nineteenth-century classics, major works by twentieth-century authors, British children's literature, the noir young adult novel, and the history of genre. Maximum credit six units.

**ENGL 508W. The Writing of Criticism (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Theory and practice of literary criticism. Emphasis on the work of important critics and on development of student's own critical writing.

**ENGL 519. Ethnic Literatures of the United States (3)**

Works from United States ethnic literatures, with emphasis on formerly excluded traditions as African-American, Hispanic and Chicano, Asian-American, and American Indian.

**ENGL 520. African-American Literary Tradition (3)**

African-American literature from its eighteenth-century beginnings to the present. Early political and social concerns and concomitant utilitarian forms; aesthetic concerns and forms in nineteenth and twentieth centuries.

**ENGL 521. Early American Literature (3)**

Representative works by American writers from the colonial period through the Revolution; to include works by Anne Bradstreet, Phillis Wheatley, Olaudah Equiano, Cotton Mather, Jonathan Edwards, Benjamin Franklin, Thomas Jefferson, various Native American speakers and writers, and others.

**ENGL 522. Literature of the United States, 1800-1860 (3)**

Representative works by United States writers from 1800 to 1860; likely to include works by Emerson, Hawthorne, Melville, Poe, Stowe, Thoreau, Whitman, and others.

**ENGL 523. Literature of the United States, 1860-1920 (3)**

Representative works by United States writers from 1860 to 1920; likely to include works by Charles Chesnutt, Kate Chopin, Stephen Crane, Emily Dickinson, Henry James, Mark Twain, Edith Wharton, and others.

**ENGL 524. Literature of the United States, 1920-1960 (3)**

Representative works by United States writers from 1920 to 1960; likely to include works by Willa Cather, T. S. Eliot, William Faulkner, F. Scott Fitzgerald, Ernest Hemingway, Zora Neale Hurston, Eugene O'Neill, Katherine Anne Porter, Ezra Pound, John Steinbeck, and others.

**ENGL 525. Literature of the United States, 1960 to Present (3)**

United States writers from 1960 to the present; likely to include works by Edward Albee, Saul Bellow, Allen Ginsberg, Joseph Heller, Maxine Hong Kingston, Norman Mailer, Toni Morrison, Sylvia Plath, Adrienne Rich, Kurt Vonnegut, Eudora Welty, and others.

**ENGL 526. Topics in Literature of the United States (3)**

Topics in United States literature to include the literature of the South, Black writers in the U.S., the frontier and U.S. literature, the outcast in U.S. literature, the immigrant experience in U.S. literature. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 527. Genre Studies (3)**

Study of a specific literary genre or genres, such as the novel, tragedy, epic, and lyric. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 528. Authors (3)**

Works of a major author or, if useful comparisons and juxtapositions warrant, works of two or three authors, such as Jane Austen, Melville, Emerson, and Thoreau. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 530. Chaucer (3)**

Chaucer's works, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*.

**ENGL 533. Shakespeare (3)**

An introduction to the writings of Shakespeare. This course cannot be used in place of English 302 to satisfy General Education requirements.

**ENGL 534. Study of Shakespeare (3)**

Prerequisite: English 533.

Advanced study of Shakespeare's achievement as poet and playwright. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 536. British Literary Periods, Beginnings to 1660 (3)**

Study of a literary period such as the Middle Ages or Renaissance. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 537. Milton (3)**

Milton's writings, with emphasis on *Paradise Lost*.

**ENGL 540A-540B. English Fiction (3-3)**

The development of English fiction from its beginnings to the end of the nineteenth century. Semester I: The eighteenth century. Semester II: The nineteenth century.

**ENGL 541A-541B. English Drama (3-3)**

English dramatic literature from its beginnings to the present. Semester I: From the beginning to 1642. Semester II: Period following reopening of the theatres in 1660.

**ENGL 542. British Literary Periods, 1660-1800 (3)**

Study of a literary period such as the Restoration or Enlightenment. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 543. British Literary Periods, 1800-1900 (3)**

Study of a literary period such as the Romantic or Victorian Age. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 544. British Literary Periods, 1900-Present (3)**

Study of a literary period such as the Postmodern Era. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 549. Topics in English Literature (3)**

The works of Spenser, the metaphysical school of poetry, the English satirists, major movements in contemporary English fiction, and the like. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 563. Literature and Culture (3)**

Study of literature in relation to a specific culture idea or phenomenon, such as literature and the law, literature and technology. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 570. Techniques of Poetry (3)**

Prerequisite: English 280.

Techniques of poetry from the writer's point of view. Introduction to critical and theoretical literature on poetry. Includes a creative writing workshop.

**ENGL 571. Techniques of the Short Story (3)**

Prerequisite: English 280.

Techniques of the short story from the writer's point of view. Introduction to critical and theoretical literature on the short story. Includes a creative writing workshop.

**ENGL 573. Techniques of the Novel (3)**

Prerequisite: English 280.

Techniques of the novel from the writer's point of view. Introduction to critical and theoretical literature on the novel. Includes a creative writing workshop.

**ENGL 576. Literary Editing and Publishing (3)**

Prerequisite: English 280.

Principles and practices of editing and literary publishing. Workshop on small press publishing. Includes editing and publishing workshop.

**ENGL 577. Techniques of Screenwriting (3)**

Prerequisite: English 280 or Television, Film, and New Media 110 or 510 for television, film, and new media majors.

Techniques of screenwriting. Introduction to critical and theoretical literature on screenwriting. Includes a creative writing workshop.

**ENGL 579. Topics in Creative Writing (3)**

Prerequisite: English 280.

Techniques of creative writing focusing on a specialized genre such as comedy, science fiction, and biography. Study of the critical and theoretical literature on the genre. Includes a creative writing workshop. See *Class Schedule* for specific content. Maximum credit six units.

**ENGL 580. Writing of Poetry (3)**

Prerequisite: English 570.

A creative writing workshop in poetry. Continuation of English 570. Maximum credit six units.

**ENGL 581W. Writing of Fiction (3)**

Prerequisites: English 280. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

A creative writing workshop in fiction. Continuation of English 571. Maximum credit six units.

**ENGL 583. Writing Long Narrative (3)**

Prerequisite: English 573.

A creative writing workshop in long narrative, especially the novella or novel. Continuation of English 573. Maximum credit six units.

**ENGL 584W. Writing Informal Essays (3)**

Prerequisites: English 280. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

A creative writing workshop in nonfiction, especially the essay as an art form. Maximum credit six units.

**ENGL 587. Writing the Screenplay (3)**

Prerequisite: English 577 or Television, Film, and New Media 110 or 510 for television, film, and new media majors.

A creative writing workshop in screenwriting with emphasis on the feature film. Continuation of English 577. Includes playwriting and revising a television script or short film. Maximum credit six units.

**ENGL 596. Selected Topics in English (1-3)**

Selected topics in English. May be repeated with new content and approval of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### Comparative Literature

(See this section of catalog under Comparative Literature.)

**GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Environmental Engineering

In the College of Engineering

**OFFICE: Engineering 424**

**TELEPHONE: 619-594-6071**

**E-MAIL: [environmental@engineering.sdsu.edu](mailto:environmental@engineering.sdsu.edu)**

The undergraduate degree in Environmental Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

## Faculty

Emeritus: Gurol, Stratton

Chair: Supernak

The Blasker Chair in Environmental Engineering: Buyuksonmez

The William E. Leonhard, Jr. Chair in Civil, Construction, and Environmental Engineering:

Associate Professor: Buyuksonmez

Assistant Professor: Garoma Ararssio

## Offered by the Department of Civil, Construction, and Environmental Engineering

Doctor of Philosophy degree in engineering sciences/applied mechanics.

Master of Engineering.

Master of Science degree in civil engineering.

Concentration in environmental engineering.

Major in civil engineering with the B.S. degree.

Major in construction engineering with the B.S. degree.

Major in environmental engineering with the B.S. degree.

## Mission of the Department

The mission of the Department of Civil, Construction, and Environmental Engineering is to provide a high quality undergraduate and graduate education in the civil, construction, and environmental engineering areas as well as the advising and other support needed to ensure the students' academic success and preparation for a productive engineering career. In addition, through research and continuing professional development, the faculty produce, enhance and promote new developments within their areas of expertise for the benefit of society and the furtherance of their profession.

The objective of the program is to give the student a basic knowledge of civil, construction, and environmental engineering, as well as the interdisciplinary background and skills to meaningfully participate in and contribute technical advances toward this profession. The program integrates technical aspects with studies in the social sciences and humanities to ensure appropriate sensitivity to socially related problems.

Instruction is given both at the undergraduate level, leading to the bachelor's degree, and at the graduate level, leading to the master's or doctoral degrees. The undergraduate program builds upon concepts of mathematics, physics, chemistry and basic engineering with specialized study in civil, construction, and environmental engineering. Engineering design is emphasized, particularly in conjunction with computer utilization and practical engineering problems. Aspects of safety and engineering ethics are woven throughout the program. Breadth and depth of social science and humanities studies is assured by department approved courses. Completion of the undergraduate degree prepares the student for an entry-level professional position in addition to informal or formal graduate studies.

Many students who complete the undergraduate programs of the department choose to continue their formal studies on a full- or part-time basis at San Diego State University or at another institution. (See the *Graduate Bulletin* for additional information.)

The civil, construction, and environmental engineering programs are enhanced through cooperation with the American Society of Civil Engineers, the American Public Works Association, the Associated General Contractors, the Chi Epsilon Civil Engineering Honor Society, and other national organizations who sponsor student chapters to further aid the student's professional development. The chapters at San Diego State University have won many awards in regional and national competition with other schools throughout the country.

ENV E

## Educational Objectives

The objectives of the environmental engineering program are: 1) to provide graduates with the technical knowledge and skills required to practice environmental engineering; 2) to provide graduates with an understanding of the ethical, social, legal, and professional issues faced in environmental engineering; and 3) to provide graduates with a solid foundation for graduate studies, continuing education, and life-long professional development.

## The Blasker Chair in Environmental Engineering

The Blasker Chair in Environmental Engineering was established by an endowment from the Blasker-Rose-Miah Endowment Fund of the San Diego Foundation. The fund was created in honor of Mr. Samuel Blasker who left \$8.0 million to the San Diego Foundation. Mr. Blasker was a successful aeronautical engineer and a business man with a vision to nurture and develop unique and innovative discoveries and experiences which may be of benefit to humanity.

The current appointee to the Chair, Dr. Fatih Buyuksonmez, is an accomplished scholar in the area of solid and hazardous waste management.

## The William E. Leonhard, Jr. Chair in Civil, Construction and Environmental Engineering

The William E. Leonhard, Jr. Chair in Civil, Construction, and Environmental Engineering is funded with an endowment created by generous gifts from William G. Leonhard, Jr. and his parents, William E. and Wyllis M. Leonhard. After Bill Leonhard graduated from San Diego State in 1964, he entered a career in the Air Force, rising to the rank of colonel. In January 1990, he retired from the Air Force, spent the next several years in private industry, and retired again in 1998.

The Leonhard Chair is intended to promote excellence in undergraduate education in civil, construction, and environmental engineering.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, unaccredited work will be evaluated for full or partial credit.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

### I. Communication and Critical Thinking: 9 units

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 29 units

#### A. Natural Sciences and Quantitative Reasoning (17 units):

1. Physical Sciences (11 units)  
Engineering students will take Chemistry 200 which includes a laboratory (5 units).  
Physics 195 (3 units)  
Physics 196 (3 units)
2. Life Sciences (3 units)  
Environmental engineering majors will take Biology 204.
3. Laboratory (satisfied under A.1. above)
4. Mathematics/Quantitative Reasoning  
Engineering students will take Mathematics 150, 3 units applicable to General Education. You may **not** use Credit/No Credit grades.

#### B. Social and Behavioral Sciences (3 units)

#### C. Humanities (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Total: 9 units; must include one course of cultural diversity.

#### A. Upper division Humanities (3 units)

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

#### B. Upper division Humanities (3 units from a department not selected in A above.)

#### C. Upper division Social and Behavioral Sciences (3 units)

## The Major

Environmental engineering involves the identification and design of solutions for environmental problems. Society's most crucial environmental problems, such as providing safe drinking water, treatment and proper disposal of wastes, water and air pollution control, remediation of sites contaminated with spills or improper disposal of hazardous substances, are handled by environmental engineers. Environmental engineers are technical professionals who possess the scientific knowledge to identify, design, build and operate systems that protect the environment from the impact of human activities, and as such make modern society possible.

The environmental engineering field and environmental engineering education are multidisciplinary. The B.S. degree provides a solid foundation in the fundamentals of mathematics, physics, chemistry, and engineering design that are needed to practice the profession or to pursue a graduate degree. Environmental engineering education also includes a range of other disciplines, such as biology, computer science, ecology, economics, geological sciences, and public health. To be able to address the spectrum of issues facing the environment, environmental engineers are broadly educated, as well as technically trained.

Environmental engineers are needed in both the private and public sectors. They are employed by engineering consulting firms that work in environmental pollution control, industries that need to comply with pollution emission and discharge regulations, private and municipal agencies that supply drinking water, treat and dispose wastes, government agencies that monitor and regulate waste discharges and air emissions, private and government laboratories, and universities that

conduct environmental research, international agencies that transfer knowledge to the developing world, and public-interest groups that advocate environmental protection.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Environmental Engineering Major

With the B.S. Degree

(Major Code: 09221) (SIMS Code: 442002)

All students in environmental engineering pursue a common program of study in basic sciences, engineering, and environmental engineering fundamentals and design. The program allows six units of "professional electives" which can be selected from available courses in environmental chemistry, environmental microbiology, water resources, and other areas.

**Preparation for the Major.** Environmental Engineering 101; Biology 204, 204L; Chemistry 130, 200; Civil Engineering 120, 121, 160, 220; Engineering 280; Engineering Mechanics 200, 220; Geological Sciences 100; Mathematics 150, 151, 252; Physics 195, 196, 197. (58 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 43 upper division units to include Environmental Engineering 355, 363, 441, 442, 554, 556, 558; Biology 315; Civil Engineering 444, 495; Construction Engineering 430; Engineering Mechanics 340, 341; Mechanical Engineering 352; and three units of professional electives.

**Master Plan.** A master plan of elective courses must be approved by the undergraduate adviser and filed with the Office of Advising and Evaluations as soon as the environmental engineering major is declared. Students are required to see their undergraduate adviser prior to registration each semester.

## Courses (ENV E)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**NOTE: Proof of completion of prerequisites (copy of transcript) is required for all courses which list prerequisites.**

### LOWER DIVISION COURSES

#### ENV E 101. Environmental Engineering Seminar (1)

Breadth and depth of environmental engineering field through presentations by invited faculty, graduate students, guests and seminar enrollees; including individual library research with written and oral presentations on selected environmental topics.

#### ENV E 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**ENV E 320. Designing Solutions for Environmental Problems (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning, II.A. Natural Sciences and Quantitative Reasoning.

Human interaction with the land, water and air environment; environmental pollution; role of engineering in solving environmental problems. Not open to civil or environmental engineering majors.

**ENV E 355. Environmental Engineering (3)**

Prerequisite: Chemistry 200.

Causes and effects of environmental problems and engineering methods to control them.

**ENV E 363. Environmental Engineering Laboratory (3)**

Two lectures and three hours of laboratory.

Prerequisites: Chemistry 200 and Environmental Engineering 355.

Analysis of natural waters and wastewaters. Sampling and analysis of hazardous environmental pollutants. Techniques to analyze solid waste. (Formerly numbered Environmental Engineering 553.)

**ENV E 441. Water Treatment Engineering (3)**

Prerequisites: Environmental Engineering 355, credit or concurrent registration in Civil Engineering 444, Engineering Mechanics 340.

Basic water chemistry; water quality criteria and standards; residential, industrial and commercial water usage; principles of physical and chemical processes employed in water treatment; design of selected water treatment units; new and emerging water treatment technologies; and water distribution systems. (Environmental Engineering 441 and 442 formerly numbered Environmental Engineering 455.)

**ENV E 442. Wastewater Treatment Engineering (3)**

Prerequisite: Environmental Engineering 441.

Wastewater collection, influent wastewater characteristics; effluent discharge requirements; principles of physical, biological, and chemical processes employed in wastewater treatment; design of selected wastewater treatment units; new and emerging wastewater treatment technologies; advanced treatment process; recycled water. (Environmental Engineering 441 and 442 formerly numbered Environmental Engineering 455.)

**ENV E 496. Advanced Environmental Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in environmental engineering. See *Class Schedule* for specific content. Maximum credit six units for any combination of Environmental Engineering 496, 499 and 596.

**ENV E 499. Special Study (1-3) Cr/NC**

Prerequisite: Consent of instructor.

Individual study in the area of environmental engineering. Maximum credit six units for any combination of Environmental Engineering 496, 499 and 596.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**ENV E 554. Process Fundamentals of Environmental Systems (3)**

Prerequisites: Minimum grade of C in Environmental Engineering 355, Civil Engineering 444, Engineering Mechanics 340, and Mechanical Engineering 352.

Equilibrium and kinetics of chemical and biological reactions of environmental systems. Considerations of mass-transfer and fluid dynamics in water quality management and air pollution control.

**ENV E 556. Air Pollution Engineering (3)**

Prerequisites: Senior standing and Environmental Engineering 355.

Sources of air pollutants. Transportation, dispersion, and transformation of pollutants in the atmosphere. Measurement and control of air pollution.

**ENV E 558. Solid and Hazardous Waste Engineering (3)**

Prerequisites: Senior standing and Environmental Engineering 355.

Municipal solid and hazardous solid wastes from an environmental engineering perspective, including waste minimization and recycling. Engineered volume reduction through composting, incineration, mechanical compaction, and other methods. Ultimate disposal, land-fill design and legislative regulations.

**ENV E 563. Process and Instrumentation Laboratory (3)**

One lecture and six hours of laboratory.

Prerequisites: Environmental Engineering 363 and credit or concurrent registration in Environmental Engineering 554.

Design of experiment; run selected unit operations and processes of environmental engineering on bench-scale; use of high-end analytical instruments; collection, analysis and interpretation of data.

**ENV E 596. Advanced Environmental Engineering Topics (1-3)**

Prerequisite: Consent of instructor.

Modern developments in environmental engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of six units for any combination of Environmental Engineering 496, 499 and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

ENV E

**For additional courses which are electives in the environmental engineering program, refer to "Civil Engineering" in this section of the catalog.**

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

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# Environmental Sciences

In the College of Sciences

**OFFICE:** Geology/Mathematics/Computer Science 617  
**TELEPHONE:** 619-594-5386  
**E-MAIL:** [envsci\\_info@sciences.sdsu.edu](mailto:envsci_info@sciences.sdsu.edu)

The environmental sciences major is overseen by the College of Sciences and administered by the Environmental Sciences Program Committee. The program offers jointly, with the Department of Geography, watershed science.

## Faculty

*Environmental Sciences Program Director:* Sweedler (Physics/International Programs)

*Undergraduate Advisers:* Hope (Emphasis), Rahn (Major)

*Environmental Sciences Program Committee:* Atkins (Psychology), Beighley (Civil, Construction, and Environmental Engineering), Deutschman (Biology), Ganster (Regional Studies of the Californias), Gersberg, (Public Health), Hope (Geography), Oechel (Biology), Papin (Field Stations), Rahn (Field Stations), Shackelford (Emeritus Physics) Sweedler (Physics/International Programs), Thorbjarnarson (Geological Sciences)

## Offered by the College of Sciences

Major in environmental sciences with the B.S. degree in applied arts and sciences.

Emphasis in watershed science.

## The Major

Environmental sciences is an interdisciplinary program leading to a Bachelor of Science degree in applied arts and sciences. The program will provide the student with a rigorous and broad foundation in those sciences most relevant to environmental issues. While the focus is on the physical environmental sciences, some coursework is required in biology, computer science, geography, and statistics. Those students wishing to concentrate more on the biological aspects of the environment, should consider the ecology emphasis offered by the Department of Biology.

Upon completion of the degree, students will be prepared to understand and contribute to a broad range of environmental problems confronting society. This major should be especially attractive to students who wish a broader background in the environmental sciences than is easily offered by individual departments. The major will prepare the student for employment in diverse situations in the dynamic and ever-changing environmental science job market. It will also be an excellent undergraduate major for students planning to go on to graduate school in any of the environmental sciences.

## Advising

Students are required to meet with the undergraduate adviser in order to declare the major. Students wishing to major in environmental sciences are urged to meet with the adviser during their first semester.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Environmental Sciences Major

**With the B.S. Degree in Applied Arts and Sciences**  
**(Major Code: 49011) (SIMS Code: 777001)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans are filed with both the environmental sciences adviser and the Office of Advising and Evaluations.

A minor is not required with this major.

**Preparation for the Major.** Environmental Science 100; Biology 203, 203L, 204, 204L; Biology 215 or Statistics 250; Chemistry 200; Geography 101; and Mathematics 150, 151, Physics 195, 195L, 196, 196L, or Mathematics 121, 122, Physics 180A, 180B, 182A, 182B. (36-38 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36-37 upper division units to include Environmental Science 498A-498B; Biology 354; Geography 511; Geography 484 or 587 or Geological Sciences 505; Geological Sciences 305 or Environmental Engineering 355; Geological Sciences 545; 15 units selected from Environmental Science 301, Biology 350, 517, 540, Chemistry 571, Computer Science 558, Economics 452 or 453, Geography 370, 409, 570, 572, 574, Geological Sciences 530 or 551, Mathematics 336.

### Emphasis in Watershed Science (SIMS Code: 777005)

Environmental sciences has a strong geographic component. Understanding how vegetation, soils, climate, water, and human activities interact within a spatial context is the basis for watershed analysis. Students in this emphasis will a) acquire a fundamental background in the scientific fields that contribute to watershed analysis (geology and geomorphology, hydrology, ecology, and climatology) and b) develop skills and techniques that are important in applying and integrating this knowledge within a spatial context to address watershed science and management challenges at local to regional scales.

**Preparation for the Major.** Environmental Science 100; Biology 203, 203L, 204, 204L; Biology 215 or Statistics 250; Chemistry 200; Geography 101; and Mathematics 121, 122, Physics 180A, 180B, 182A, 182B, or Mathematics 150, 151, Physics 195, 195L, 196, 196L. (36-38 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 40-41 upper division units to include Biology 354; Geography 380 or 381, 385, 401, 483, 484 or 587, 495, 511; Geological Sciences 305; 15 units selected from the following courses, at least 12 units must be from 500-level courses selected from Environmental Science 301; Biology 531, 535, 540, Geography 370, 409, 504, 505, 570, 584 or 588, Philosophy 332, Public Administration 320.

## Courses (ENV S)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### ENV S 100. Environmental Sciences (3) [GE]

The earth as an ecosystem composed of biological, chemical, and physical systems and how these systems interact with one another and the human population.

#### ENV S 299. Special Study (3)

Prerequisites: Consent of program director and instructor.  
Individual Study.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### ENV S 301. Energy and the Environment (3) [GE]

Prerequisite: Completion of the General Education requirements in Communication and Critical Thinking and Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Fundamental physical concepts underlying energy, its conversion, and impact on the environment. (Formerly numbered Physics 301.)

#### ENV S 498A-498B. Senior Seminar in Environmental Sciences (3-3) Cr/NC

Prerequisite: Senior standing in the environmental sciences major.  
Research projects related to an environmental issue in the San Diego and California region.

ENV S

**Environmental Studies** – For Major: Refer to “Social Science” in this section of the catalog.  
For Minor: Refer to “Environment and Society” in  
“Interdisciplinary Studies” in this section of the catalog.



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# European Studies

In the College of Arts and Letters

**OFFICE: Education and Business Administration 304**

**TELEPHONE: 619-594-5111 / FAX: 619-594-8006**

**E-MAIL: [euro.coord@sdsu.edu](mailto:euro.coord@sdsu.edu)**

**<http://www-rohan.sdsu.edu/~euro>**

## Faculty

Chair: Benkov

Professors: Benkov, Donadey, Lyman-Hager, Sacco, Schorr, Shapovalov

Associate Professors: Cornwell, Wauchope

Assistant Professors: Clò, Rebien

## Offered by the Department

Major in European studies with the B.A. degree in liberal arts and sciences.

Major in Russian and Central European studies with the B.A. degree in liberal arts and sciences.

Minor in European studies.

## The Majors

**European Studies.** The establishment of a unified European economic community, contested borders in central and eastern Europe, gender and immigration issues in the European Union, the reconciliation of national identity with European integration — for students with an interest in these or other topics of international importance, European Studies presents an opportunity to develop an individualized academic program. The European Studies major provides students with interdisciplinary study of the contemporary cultures of modern Europe and extensive preparation in a modern European language. The major requires a core of European Studies courses which address the themes and issues of modern Europe: the new political reality of a united Europe, the recent developments in Central and Eastern Europe, and the tasks of understanding how Europeans relate to themselves and to the rest of the world in today's global village. Because language proficiency plays a pivotal role in intercultural and social understanding, the study of languages is an integral part of the degree. Students will attain an advanced level of proficiency in a modern European language (to be selected from French, German, Italian, Portuguese, Russian, or Spanish) and select from courses offered in a variety of programs on campus and abroad which contribute to the interdisciplinary study of contemporary European culture. Reaching beyond traditional linguistic and historical approaches to the subject, this program challenges majors to develop critical, focused, interdisciplinary understandings of European themes and issues. The European Studies major prepares students for a variety of careers in diplomacy, with government agencies, or in European-centered commerce, communication, arts or the travel industry. Students also have the option of pursuing a double major in a second European language area study. Finally, with some carefully chosen additional coursework outside the major, graduate study in any of the major's disciplines is an option.

**Russian and Central European Studies.** The goals of the Russian and Central European studies major are to promote the study of Russia, New States of Eurasia, and Eastern Europe within an integrated framework, and to build better understanding of the societies and cultures of this part of the world through the exchange of students, faculty and publications.

Recent revolutionary advances in transportation and communications produced by science and technology are effectively "shrinking" the world. At the present time the United States, Russia, and the New States of Eurasia are in the process of expanding their commercial and cultural ties, opening unprecedented opportunities in government service, journalism, library work, and international business.

For those who continue graduate work after completing the bachelor's degree, Russian and Central European studies is a good preparatory curriculum for graduate professional programs in international trade, international law, librarianship, education, public administration, and journalism.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## European Studies Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 03101) (SIMS Code: 112501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

In order to satisfy degree requirements, students must complete at least one of the language emphases as described below.

**Preparation for the Major.** (Complete I and II: 19-32 units.)

**I. European Studies** (9 units). European Studies 101; and six units selected from History 105, 106, German 150, Russian 110.

**II. Foreign Language and Culture** (Select one: 10-23 units.)

French 100A, 100B, 201, 210, 220, 221. (22 units)

German 100A, 100B, 202, 205A, 205B. (21 units)

Italian 100A, 100B, 201, 211, 212. (21 units)

Portuguese 101, 201. (10 units)

Russian 100A, 100B, 110, 200A, 200B. (23 units)

Spanish 101, 102, 201, 202, 211, 212. (22 units)

**Language Requirement.** The language requirement is automatically fulfilled through coursework for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All European studies majors are required to complete a study abroad program in a European country, consisting of a minimum of six units (90 hours). However, European studies majors are strongly encouraged to complete a more extensive abroad experience by participating in a semester or an academic year program. To fulfill the study abroad requirement, European studies majors must enroll in an approved program. Unapproved study abroad programs will not meet the international experience requirement for the major.

**Major.** (Complete I, II, III, and IV below: 36 units.)

**I. European Studies** (12 units). European Studies 301, 501, and six units selected from any 400- or 500-level European studies courses.

**II. National Language and Culture Emphasis** (12 units).

Complete one language and culture emphasis:

French 301, 421, 422, and one additional three unit course.

German 301, 400, 430, and one additional three unit course.

Italian 301, 422, 424, and one additional three unit course.

Portuguese 301, 401, and two additional three unit courses.

Russian 301, 311, 430, and one additional three unit course.

Spanish 301, 340, 405B, and Spanish 302 or 381.

**III. European Studies Electives** (6 units). Select six units from the following: European Studies 501, 527; Art 558, 559; Comparative Literature 514; Geography 336; History 408, 440, 512A, 512B; Humanities 404; Music 408A; Philosophy 506, 508; Political Science 302, 356; Russian 310, 435; Women's Studies 340.

**IV. National Culture Electives** (6 units). Courses must be selected from an area other than courses selected for National Language and Culture Emphasis. Select six units from the following: English 544; French 424; German 320; History 418; Humanities 310, 320, 330; Italian 422; Political Science 357, 359; Russian 305A, 305B.

**Language Proficiency Exit Examination.** Students are required to satisfy the Language Proficiency Exit Examination before graduation. To clear the language proficiency exit requirement, students must achieve a passing score on a language examination approved by the European Studies program. For further information concerning test dates, contact the European Studies office.

## Russian and Central European Studies Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 03071) (SIMS Code: 116501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Russian 100A, 100B, 110, 200A, 200B. (23 units)

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All Russian and Central European Studies majors are required to complete a study abroad program in Russia or any other Slavic-language speaking country, consisting of a minimum of six units (90 hours). However, all majors are strongly encouraged to complete a more extensive abroad experience by participating in a semester or academic year program. To fulfill the study abroad requirement, Russian and Central European Studies majors must enroll in an approved program. Unapproved study abroad programs will not meet the international experience requirement for the major.

**Major.** A minimum of 27 upper division units to include Humanities 330 or Russian 430, Political Science 356, 359, Russian 301, 310, 311, 435, and six units of electives in 400- or 500-level courses in Russian.

## European Studies Minor

**(SIMS Code: 112501)**

The minor in European studies consists of a minimum of 15 units to include European Studies 101 and 301 and nine additional upper division units from European Studies courses or Humanities 404. Students must also establish proficiency level in a European language other than English by completing one of the courses which satisfies the language graduation requirement or demonstrates equivalent proficiency.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University, including units earned abroad.

## Courses (EUROP)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### EUROP 101. Introduction to European Studies (3) [GE]

Europe: The land, the people, their artistic, intellectual and cultural movements, including art, architecture, languages and literatures.

#### EUROP 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### EUROP 301. Contemporary Europe (3) [GE]

Prerequisite: European Studies 101 or completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Contemporary Europe, emphasizing artistic, intellectual, and cultural trends, as well as contemporary issues.

#### EUROP 424. European Cinema (3) [GE]

Two lectures and two hours of activity.

Prerequisite: European Studies 101 or completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Issues and themes in European culture as seen through its films. May be repeated with new title and content. Maximum credit six units.

#### EUROP 495. European Studies Internship (3) Cr/NC

Prerequisites: Upper division standing in the major and consent of instructor.

Practical work experience in a field related to European studies. Work done under joint direction of activity sponsor and instructor. Approved international internships may count towards international experience requirement for major.

#### EUROP 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### EUROP 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### EUROP 501. European Life and Culture (3)

Prerequisite: European Studies 301.

Specialized study of topics such as European union, European women, or European art. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

#### EUROP 527. The Holocaust in Feature Films (3) (Same course as History 527)

Two lectures and two hours of activity.

Prerequisite: Upper division or graduate standing.

Depiction of the Nazi policy of destroying European Jewry and its impact on the perpetrators, bystanders, victims, and the post-war world in feature films.

EUROP

## ***European Studies***

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### **EUROP 560. Technologies and Methodologies: Language Learning and Teaching (3)**

Two lectures and two hours of activity.

Prerequisite: Advanced level foreign language competency.

Understanding foreign language competencies; create and use technology-assisted learning and testing materials; review and evaluate foreign theories and methodologies.

### **EUROP 596. Topics in European Studies (3)**

Prerequisite: European Studies 301 for majors and minors; upper division standing for all others.

Specialized topics in contemporary European culture. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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# Exercise and Nutritional Sciences

In the College of Professional Studies and Fine Arts

**OFFICE: Exercise and Nutritional Sciences 351**

**TELEPHONE: 619-594-5541**

**<http://ens.sdsu.edu>**

Accredited by the Commission on Accreditation of Athletic Training Education for Athletic Training.

## Faculty

Emeritus: Barone, Benton, Carter, Fox, Francis, P., Franz, Friedman, King, Landis, McKenzie, T., Moore, Phillips, Quinn, Rushall, Selder, Sleet, Smith, Sucec, Tollefsen, Wells, Williamson

Director: Harris

Professors: Aufesser, Buono, Harris, Kahan, Kolkhorst, LaMaster, Mechikoff, Nichols-Bernhard, Patterson, Simmons, Verity

Associate Professors: Cipriani, Levy, Marshall, O'Rand

Assistant Professor: Smith

## Offered by the School

Master of Arts degree in kinesiology.

Master of Science degree in exercise physiology.

Master of Science degree in nutritional science and Master of Science degree in exercise physiology (concurrent program).

Major in kinesiology with the B.S. degree in applied arts and sciences.

Emphasis in athletic training.

Emphasis in fitness, nutrition, and health.

Emphasis in physical education.

Emphasis in prephysical therapy.

## The Major

Kinesiology is the study of the processes through which individuals obtain optimal health, physical skill, and fitness. The professional, whether in a laboratory, school, medical or business setting, is ultimately concerned with improving the health and well-being of people.

The uniqueness of the academic area known as kinesiology is the study of human movement. The academic foundation for the study of human movement is covered by courses that explore movement as it affects and is affected by physiological, psychological, developmental, sociocultural, and mechanical parameters. Application of movement concepts evolves from an academic foundation and is covered by courses that study how movement is quantified, how learning experiences are sequenced to modify movement behaviors, and how movement is modified for special needs.

The professional fields for which this major prepares students include the following:

**Athletic Training.** The athletic training emphasis is a CAATE accredited undergraduate athletic training program. The program leads students to a career in athletic training and eligibility to sit for the Board of Certification (BOC) athletic training examination. Certified athletic trainers are responsible for the prevention, management, and rehabilitation of athletic injuries. They work in such diverse areas as high schools, community colleges, universities, sports medicine clinics, corporate/industrial settings; and professional athletics. The athletic training program is comprised of two components of study, a preprofessional program and a professional program. The professional program requires application to the program and includes a clinical education component. The clinical education component is an intensive hands-on service learning program that provides students with the opportunity to apply psychomotor skills in a real athletic environment under the direct supervision of a certified athletic trainer. Students are given the opportunity to practice what they learn in a variety of clinical education settings including, but not limited to, the Department of Athletics at San Diego State University, University of California, San Diego, University of San Diego, Grossmont Community College, and San Diego Mesa Community College. Due to the required supervision of the clinical education component, there are a limited number of spaces for students in the professional program per year. Therefore, the application

process is competitive and based upon a variety of criteria as outlined below under "Standards for Admission." Students interested in the athletic training emphasis should meet with the program director as soon as possible in their academic career for the most current information.

## Standards for Admission

### Admission to the University

Applicants must be eligible for admission to the university. See "Regulations: Admission and Registration" section of this catalog. Once accepted to the university, students interested in the athletic training emphasis are subject to further screening by the School of Exercise and Nutritional Sciences and the athletic training professional program.

### Admission to the Kinesiology Major

Refer to "Impacted Programs" section of the Exercise and Nutritional Sciences section of this catalog. Please note, that as part of these criteria, students must be accepted into the athletic training professional program in order to be admitted to the kinesiology major with an emphasis in athletic training.

### Admission to the Athletic Training Professional Program

The application packet for the athletic training professional program can be obtained from the athletic training advising office or is available on the program Web site at:

<http://www-rohan.sdsu.edu/dept/athletic/athletictraining/>.

1. **Application Deadlines.** For fall admission, athletic training professional program applications are due the third Monday in March. Spring admission is allowed under special circumstances only. See program director for specified criteria for spring admission. Spring applications are due the third Monday in November.

2. **Prerequisite Courses.** The following courses, or their equivalents, are required for admission to the athletic training professional program:

BIOL 212	Human Anatomy .....	4
ENS 265	Techniques in Athletic Training.....	1
ENS 265L	Techniques of Athletic Training Laboratory .....	1
ENS 289	Preprofessional Practicum in Athletic Training ..	1

3. **Minimum Overall Grade Point Average.** Applicants must have a minimum overall grade point average of 2.8. Please note that having the minimum grade point average does not guarantee admittance.

4. **Prerequisite Grade Point Average.** Applicants must have a minimum prerequisite grade point average of 3.0. Prerequisite courses included BIOL 212, ENS 265, 265L, 289.

5. **CPR and First Aid Certification.** Students are required to have current CPR and first aid certification at the time of application, and are expected to maintain current certification throughout the time of enrollment in the program.

6. **Technical Standards for Admission.** All students upon admission to the athletic training professional program must have medical clearance by a physician, nurse practitioner, or physician assistant for the following abilities and expectations. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. The Student Disability Services office will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, the university will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review of whether

ENS

the accommodations requested are reasonable, taking into account whether accommodation should jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences, and internships deemed essential to graduation.

Candidates for selection must demonstrate:

- a. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
- b. Sufficient postural and neuromuscular control, sensory function, and coordination to perform CPR, primary and secondary surveys, emergency transport and transfers, appropriate physical examinations, and manual therapeutic exercise procedures; including the safe and efficient use of equipment and materials during the assessment and treatment of patients.
- c. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with the competent professional practice.
- d. The ability to write effectively as it relates to the discipline.

### Athletic Training Professional Program Expectations

If accepted to the athletic training professional program, the following expectations apply:

1. Become a student member of the National Athletic Trainers' Association within four months of program admittance. Student membership rate is \$125 per year.
2. Become a member of the Future Athletic Trainers Society within four months of program admittance. Membership rate is \$20 per year.
3. Obtain Student Professional Liability Insurance. Student rate is \$20 per year.
4. Provide own transportation to off-campus clinical education sites.
5. Be enrolled as a full-time student (at least 12 units), unless special circumstances are approved for part-time enrollment by the program director.
6. Maintain current CPR certification through the American Heart Association (AHA), health care provider course or American Red Cross (ARC) professional rescuer course.
7. Engage in a clinical education program that averages 20 hours per week at a designated clinical site for a minimum of four semesters. Clinical exposure may commence in early August and might extend into December or January.
8. Adhere to designated policies and procedures for program retention and progression. A copy of the policies and procedures manual is available on the program Web site or can be obtained from the advising office.

**Fitness, Nutrition, and Health.** Students in this emphasis often find employment in the private and public sectors concerned with the fitness and health of employees. This emphasis prepares students to meet the academic requirements necessary to (1) evaluate and develop exercise programming for apparently healthy persons in diverse fitness and health settings, and (2) attain certifications that reflect knowledge of the scientific principles that govern leadership in exercise and health enhancement programs. Graduates work as fitness professionals in corporate, community, clinical, and

commercial fitness programs. There are also career opportunities for employment in the business sector to include fitness clubs, cardiac rehabilitation, and human efficiency research.

**Physical Education.** Graduates in this emphasis may find employment in public and private schools, specializing at either the elementary or secondary level. Kinesiology majors teach activities and sports skills, health and fitness classes, and act as physical education resource specialists. Students may also prepare for careers in athletic coaching. Opportunities for both men and women exist at the interscholastic level as well as with community and commercial sports clubs.

**Prephysical Therapy.** This emphasis prepares students to meet the academic requirements necessary for entry to postgraduate education for rehabilitative professions such as physical therapy, chiropractic, occupational therapy, physician assistant, and podiatry. Students find employment in a broad range of medical environments. Students wishing to meet all requirements for postgraduate education for a professional degree should meet with the undergraduate adviser as well as contact potential postgraduate education sites to obtain specific entry requirements.

### Impacted Programs

The kinesiology major with emphases in athletic training; fitness, nutrition, and health; physical education; and prephysical therapy are impacted programs.

To be admitted to a kinesiology major emphasis, students must meet the following criteria:

- a. Complete with a grade of C or higher: Exercise and Nutritional Sciences 210 and Biology 212. These courses cannot be taken for credit/no credit (Cr/NC). Biology 212 must be completed with a grade of B or higher for students in the athletic training emphasis;
- b. Complete a minimum of 60 semester units applicable to the lower division General Education requirements to include all Preparation for the Major requirements for kinesiology major emphasis, and electives to reach 60 units. Exercise and Nutritional Sciences 210 and Biology 212 must be completed before taking upper division major courses. Preparation for the Major courses cannot be taken for credit/no credit (Cr/NC);
- c. Have a cumulative GPA of 2.80 or higher;
- d. For the athletic training emphasis, students must be accepted into the professional program.
- e. For the athletic training emphasis, complete with a minimum overall grade point average of 3.0: Biology 212, Exercise and Nutritional Sciences 265, 265L, 289. These courses cannot be taken for credit/no credit (Cr/NC).

To complete the major, students must fulfill the degree requirements for the major emphasis described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Kinesiology Major

**With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 08351)**

All candidates for a degree in applied arts and sciences must complete the requirements listed in the section of this catalog on "Graduation Requirements."

Preparation for the Major courses cannot be taken for Credit/No Credit (Cr/NC). Exercise and Nutritional Sciences 210 and Biology 212 must be completed with a grade of C or higher. For students in the athletic training emphasis: Exercise and Nutritional Sciences 265, 265L, 289, and Biology 212 must have a minimum overall grade point average of 3.0. Biology 212 must be completed with a grade of B or higher.

### Emphasis in Athletic Training (SIMS Code: 666513)

**Preparation for the Major.** Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L, 289; Biology 203, 203L, 212; Chemistry 200; Nutrition 201; Physics 180A; Psychology 101, 260; Sociology 101; and one of the following: Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. (37 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Acceptance into the athletic training professional program is required for major status in the athletic training emphasis. Application to the program is competitive and limited in number. Applications are due the third Monday in March each year. Those students interested in the athletic training program should contact the athletic training program director. A minimum of 52 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 304L, 305, 306, 307, 365, 367, 367L, 368, 368L, 389A, 389B, 389C, 389D, 461, 462, 463, 463L, 465, 466; Biology 336. Biology 336 will also satisfy three units of the General Education requirement in IV.A. Recommended: Students should take Sociology 355 to satisfy the General Education requirement in IV.B.

### Emphasis in Fitness, Nutrition, and Health (SIMS Code: 666524)

**Preparation for the Major.** Exercise and Nutritional Sciences activities (2 units), Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L; Biology 100, 100L, 212; Chemistry 100; Nutrition 201; Psychology 101; Sociology 101; and three units selected from Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. (31 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 48 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 304L, 305, 306, 307, 363, 388A (1 unit) or 388B (1 unit), 401A, 401B, 431, 432, 432L, 433, 434; three units selected from Exercise and Nutritional Sciences 388A (1-3 units), 440, 499 (1-3 units), Management 350, or Marketing 370; Biology 336; Nutrition 312. Biology 336 will also satisfy three units of the General Education requirement (IV.A). Recommended: Students should take Sociology 355 to satisfy the General Education requirement (IV.B).

### Emphasis in Physical Education (SIMS Code: 666565)

This program must be elected by students who wish to be a candidate for a single subject teaching credential at San Diego State University.

All requirements as outlined in this section and the sections titled Policy Studies in Language and Cross-Cultural Education or Teacher Education in this catalog must be completed.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.S. degree in applied arts and sciences.

**Preparation for the Major.** Exercise and Nutritional Sciences 210, 265, 265L; Biology 100, 212; Chemistry 100; Nutrition 201; Psychology 101; Sociology 101; and one of the following: Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. (27 units) Recommended: Students should take Physics 107 to satisfy the General Education requirement (II.A.).

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 49 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 304L, 305, 306, 307, 335, 337, 347A, 347B, 401A, 401B, 441A, 441B, 442A, 442B, 445, 446A, 446B, 461; Biology 336. Biology 336 will also satisfy three units of the General Education requirement (IV.A.). Recommended: Students should take Sociology 355 to satisfy the General Education requirement (IV.B.). Prior to graduation, students must show the physical education program coordinator documentation of mastery of competencies in swimming, self-defense, and outdoor experience. See School of Exercise and Nutritional Sciences Major Academic Plan (MAP) for the Emphasis in Physical Education.

### Emphasis in Prephysical Therapy (SIMS Code: 666511)

Students interested in applying to postgraduate allied health programs are advised to follow the prephysical therapy emphasis. It should be noted that required courses attempt to prepare individuals for graduate application, however specific course requirements and admission standards may vary for each graduate school.

**Preparation for the Major.** Exercise and Nutritional Sciences 104A or 104B, 210, 265, 265L; Biology 203, 203L, 211, 211L, 212; Chemistry 200, and either 130 or 232; Nutrition 201; Physics 180A and 180B, 182A and 182B; Psychology 101; Sociology 101; and one of the following: Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. (45 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units to include Exercise and Nutritional Sciences 301, 302, 303, 304, 304L, 305, 306, 307, 363, 388A (1 unit) or 388B (1 unit), 401A, 401B, 436; Biology 336, 436, Psychology 350. Biology 336 will also satisfy three units of the General Education requirement (IV.A.). Recommended: Students should take Sociology 355 to satisfy the General Education requirement (IV.B.).

### Rehabilitative Science

Students interested in rehabilitative science should follow the requirements for the emphasis in prephysical therapy.

## Types of Activity Courses

The department offers a wide variety of physical activity courses ranging from adapted physical education through intermediate level classes. The purpose of the physical activity program is to:

1. Provide quality physical activity skill instruction at the beginning and intermediate levels in a wide variety of sport and dance activities.
2. Provide a vehicle for vigorous physical activity in an instructional setting.
3. Provide knowledge about various sport and dance activities.
4. Provide knowledge about the value of physical activity as it relates to an improved quality of life.
5. Provide opportunity for physical activity instruction to all segments of the student population, including those with temporary or permanent disabilities.

ENS

## **Courses (ENS)**

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### **LOWER DIVISION COURSES**

**Courses offered for one unit credit meet two hours per week or equivalent.**

**"A" signifies a beginning class, "B" intermediate.**

Dance activity courses: Ballroom Dance, Ethnic Dance, Yoga for Dancers, Ballet, Jazz Dance, Modern Dance. Refer to "Dance" courses in this section of the catalog.

#### **ENS 102. Conditioning (1)**

#### **ENS 104A-104B. Weight Training (1-1)**

#### **ENS 108. Basketball (1)**

(Formerly numbered Exercise and Nutritional Sciences 108A.)

#### **ENS 109A-109B. Soccer (1-1)**

#### **ENS 110. Volleyball (1)**

(Formerly numbered Exercise and Nutritional Sciences 110A.)

#### **ENS 111A-111B. Softball (1-1)**

#### **ENS 116A-116B. Golf (1-1)**

#### **ENS 118A-118B. Tennis (1-1)**

#### **ENS 119A-119B. Bowling (1-1)**

#### **ENS 120. Badminton (1)**

(Formerly numbered Exercise and Nutritional Sciences 120A.)

#### **ENS 123. Racquetball (1)**

(Formerly numbered Exercise and Nutritional Sciences 123A.)

#### **ENS 124. Sailing (1)**

#### **ENS 130. Step Training (1)**

#### **ENS 137. Aerobic Dance (1)**

(Formerly numbered Exercise and Nutritional Sciences 137A.)

#### **ENS 138. Selected Activities (1)**

May be repeated with new activity for additional credit. See *Class Schedule* for specific content.

#### **ENS 139A. Beginning Rock Climbing (1)**

Two hours of activity.

Rock climbing concepts and theories. Active participation using beginning techniques and training concepts.

#### **ENS 139B. Intermediate Rock Climbing (1)**

Two hours of activity.

Prerequisite: Exercise and Nutritional Sciences 139A.

Rock climbing concepts and theories. Active participation using advanced techniques, training concepts, and lead climbing concepts expected.

#### **ENS 145. Wakeboarding and Waterskiing (1)**

#### **ENS 146. Surfing (1)**

#### **ENS 147. Windsurfing (1)**

Theory and mechanical skills of windsurfing. Proper rigging, body position, and sailing theory, right-of-way rules and boating safety for good fundamental base to confidently continue.

#### **ENS 210. Introduction to Kinesiology (2)**

Prerequisite: Premajor in kinesiology.

Overview of discipline of kinesiology. Development of a basic philosophy and background for entering profession.

#### **ENS 241A. Physical Education of Children-Theory (1)**

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 241B.

Physical education of elementary school-aged children: Theoretical and scientific bases. Not open to kinesiology majors.

#### **ENS 241B. Physical Education of Children-Activities (1)**

Two hours of activity.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 241A.

Physical education of elementary school-aged children: Activities and instruction. Not open to kinesiology majors.

#### **ENS 265. Techniques in Athletic Training (1)**

Prerequisites: Premajor in kinesiology. Credit or concurrent registration in Biology 212.

Athletic training techniques and emergency field care of athletic injuries. Theory and techniques of basic athletic first aid, emergency procedures including CPR, bandaging and taping.

#### **ENS 265L. Techniques in Athletic Training Laboratory (1)**

Three hours of laboratory.

Prerequisites: Premajor in kinesiology. Concurrent registration in Exercise and Nutritional Sciences 265.

#### **ENS 289. Preprofessional Practicum in Athletic Training (1)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 265 and 265L.

Basic athletic training principles and techniques; athletic training event coverage under direct supervision of a certified athletic trainer.

#### **ENS 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **ENS 301. Physical Growth and Development (3)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 210. Limited to kinesiology premajors, majors, and liberal studies majors. Major Codes: 08351, 49015, 49081.

Principles of human growth; performance as affected by developmental levels and individual differences in structure and function.

#### **ENS 302. History and Philosophy: Physical Activity and Sport (3)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 210. Limited to kinesiology premajors and majors. Major Code: 08351.

Integrated approach to understanding of historical, philosophical, and sociological forces shaping development of physical activity and sport.

#### **ENS 303. Applied Kinesiology (3)**

Prerequisites: Grade of C or better in Biology 212; credit or concurrent registration in Exercise and Nutritional Sciences 210 or Dance 181. Limited to kinesiology, exercise physiology, nutritional sciences, exercise physiology, foods and nutrition, dance majors; premajors in kinesiology, foods and nutrition. Major Codes: 08351, 08355, 08356, 10081, 13061.

Arthrology, syndesmology and myology, with emphasis on movement analysis. Muscle groups and their functional relationships. Application of simple mechanical principles to movement analysis.

#### **ENS 304. Physiology of Exercise (3)**

Prerequisites: Grade of C or better in Biology 336. Limited to undergraduate majors in kinesiology, foods and nutrition; graduate degrees in exercise physiology, nutritional sciences, and the dual degree in nutritional sciences and exercise physiology. Major Codes: 08351, 08355, 08356, 13061.

Effects of physical activities on physiological functions of the body.

**ENS 304L. Exercise Physiology Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 304.

Laboratory experiences in the application of exercises and the analysis of the results.

**ENS 305. Measurement and Evaluation in Kinesiology (3)**

Prerequisites: One of the following: Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. Limited to kinesiology majors. Major Code: 08351.

Testing and measurement for assessment and understanding of physical performance and for planning and evaluation of instruction in physical activity settings. Planning, implementation, and evaluation of tests.

**ENS 306. Biomechanics of Human Movement (3)**

Prerequisites: Exercise and Nutritional Sciences 303. Limited to kinesiology and biology (emphasis in bioengineering) majors. Major Codes: 08351, 04011.

Mechanical principles as applied to movement; analysis and application to selected motor skills.

**ENS 307. Motor Learning and Performance (3)**

Prerequisites: Psychology 101 and one of the following: Biology 215, Economics 201, Psychology 280, Sociology 201, Statistics 119. Limited to kinesiology majors. Major Code: 08351.

Psychological parameters related to physical performance and the acquisition of motor skills.

**ENS 320. Skin and Scuba Diving (2)**

Prerequisites: Medical examination, waiver for hazardous procedures, pass swimming competency test. Concurrent registration in Exercise and Nutritional Sciences 320L.

Function and knowledge of underwater diving to include diving physiology, hyperbaric conditions, medical hazards, safety procedures associated with scuba diving, proper care and operation of equipment. Not open to students with credit in Exercise and Nutritional Sciences 323, 324, Biology 305, 306, 461.

**ENS 320L. Skin and Scuba Diving Laboratory (1)**

Three hours of laboratory.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 320.

**ENS 323. Advanced Scuba Diving (2)**

Prerequisites: Exercise and Nutritional Sciences 320 or Openwater Scuba Certification, medical examination, and acceptable openwater diving equipment. Concurrent registration in Exercise and Nutritional Sciences 323L.

Theory, skills, and technique including underwater navigation, diving physics, diving physiology, diving medicine, diving safety. Qualifies for Advanced Diving Certificate from the National Association of Underwater Instructors. Not open to students with credit in Exercise and Nutritional Sciences 324, Biology 306, 461.

**ENS 323L. Advanced Scuba Diving Laboratory (1)**

Three hours of laboratory.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 323.

**ENS 324. Assistant Scuba Instructor (2)**

Prerequisites: Exercise and Nutritional Sciences 323 or Biology 306, Master Diver Certification, medical examination, and acceptable openwater diving equipment. Concurrent registration in Exercise and Nutritional Sciences 324L.

Qualifies for Assistant Scuba Instructor Certificate from the National Association of Underwater Instructors.

**ENS 324L. Assistant Scuba Instructor Laboratory (1)**

Three hours of laboratory.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 324.

**ENS 330. Exercise and Wellness Across the Lifespan (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Role of physical activity and exercise behavior in health and wellness. Personal applications plus gender and cultural implications of physical activity from childhood through adulthood.

**ENS 335. Basic Movement Skills (2)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 303. Limited to kinesiology and liberal studies majors. Major Codes: 08351 and 49015.

Terminology, performance, and analysis of elementary-level movement skill themes and concepts, educational gymnastics, rhythms, and dance.

**ENS 337. Basic Manipulative Skills (2)**

Four hours of activity.

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 303.

Cues, progressions, and activities for propulsive, retentive, striking, and receptive skills.

**ENS 347A. Leadership for Kinesiology (2)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 305. Limited to kinesiology and liberal studies majors. Major Codes: 08351 and 49015.

Theory and development of leadership behavior of physical educators, emphasizing leadership qualities unique to diverse physical activity settings.

**ENS 347B. Leadership for Kinesiology Activity (1)**

Two hours of activity.

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 347A.

**ENS 348. Special Physical Education (3)**

Prerequisite: Kinesiology or liberal studies upper division major status required.

Etiologies, characteristics, education programs, and activities for individuals with non-physical disabilities (e.g. mentally retarded, learning disabled, etc.).

**ENS 350. Sport in Antiquity (3)**

Prerequisite: Upper division standing.

Athletics in ancient Greece and Rome. Role and scope of sporting competitions in ancient Greek and Roman cultures, and their influence on modern athletics.

**ENS 363. Corrective Physical Education (3)**

Prerequisites: Exercise and Nutritional Sciences 303 and credit or concurrent registration in Exercise and Nutritional Sciences 304.

Etiology, characteristics, and programs for children with corrective and/or physically handicapping conditions. Includes evaluating and implementing prescribed activities for individuals with these types of conditions.

**ENS 365. Scientific Management of Sports Injuries (3)**

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 306.

Scientific basis of injury dysfunction and tissue healing. Application of these principles to the use of therapeutic modalities for injury management.

**ENS 367. Clinical Evaluation of Sports Injuries Part I (2)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 303 and 389A.

Theory of clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation of upper extremity, cervical spine.

**ENS 367L. Clinical Evaluation of Sports Injuries Part I (1)**

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 367.

Practical experience in clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation of upper extremity, cervical spine.



### **ENS 368. Clinical Evaluation of Sports Injury Part II (2)**

Prerequisites: Exercise and Nutritional Sciences 367 and 367L.

Theory of clinical evaluation of sports injury techniques and scientific basis of techniques. Systematic differential evaluation process applied to lower extremities, thoracic, and lumbar spine and chest and abdominal injuries.

### **ENS 368L. Clinical Evaluation of Sports Injury Part II (1)**

Prerequisites: Exercise and Nutritional Sciences 367 and 367L. Concurrent registration in Exercise and Nutritional Sciences 368.

Practical experience in clinical evaluation of sports injuries techniques and scientific basis of techniques. Principles of systematic differential evaluation process applied to lower extremities, thoracic and lumbar spine and chest and abdominal injuries.

### **ENS 388A. Rehabilitation Laboratory SDSU Fitness Clinic (1-4)**

Three hours of laboratory per unit.

Prerequisites: Exercise and Nutritional Sciences 363 and senior standing.

Hands-on experience working with individuals with a variety of severe physical and neurological disabilities at San Diego State University. Maximum credit four units. (Formerly numbered Exercise and Nutritional Sciences 388.)

### **ENS 388B. Community Rehabilitation Laboratory (1)**

Three hours of laboratory.

Prerequisites: Exercise and Nutritional Sciences 363 and consent of instructor.

Hands-on experience working with individuals with a variety of severe physical and neurological disabilities in the San Diego community.

### **ENS 389A-389B-389C-389D. Practicum in Athletic Training (1-1-1-1)**

389A, 389B, 389C, 389D: Two hours of activity.

Prerequisites: 389A: Grade of B or better in Biology 212, Exercise and Nutritional Sciences 265, 265L, 289, application, letters of recommendation, and interview.

389B: Grade of B or better in Exercise and Nutritional Sciences 389A.

389C: Grade of B or better in Exercise and Nutritional Sciences 389B.

389D: Grade of B or better in Exercise and Nutritional Sciences 389C.

Practical training and clinical applications of basic and advanced techniques of athletic training. Emergency, preventative procedures treatment, and rehabilitation techniques to be performed in actual athletic training settings. Practicum experience offered in conjunction with clinical internship.

### **ENS 397. Contemporary Topics in Kinesiology (Credit to be arranged) Cr/NC (Offered only in Extension)**

Prerequisites: Consent of instructor; bachelor's degree.

Study of specially selected problems in physical education and sport. Does not apply to undergraduate degrees or credentials.

### **ENS 398. Supervised Field Experience (1-3) Cr/NC**

Prerequisites: Consent of department chair. Limited to kinesiology and liberal studies majors. Major Codes: 08351 and 49015.

Supervised practical experience in the area of kinesiology. Maximum credit six units.

### **ENS 401A. Musculo-Skeletal Fitness (1)**

Prerequisites: Exercise and Nutritional Sciences 304, 304L, 306. Concurrent registration in Exercise and Nutritional Sciences 401B.

Training techniques in areas of strength and flexibility. Examination of facilities and equipment, mechanics of strength and flexibility techniques, development of training program, basic physiology and review of current research in areas of strength and flexibility.

### **ENS 401B. Musculo-Skeletal Fitness Activity (1)**

Two hours of activity.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 401A.

Circulorespiratory endurance, muscular strength and endurance, selection and care of equipment and facilities, and programs in the areas of flexibility, weight training and aerobics.

### **ENS 412. Leading Group Aerobic Exercise (1)**

Two hours of activity.

Prerequisites: Exercise and Nutritional Sciences 303, 304, 304L.

Teaching group aerobic exercise including aerobic dance, step training, circuit training, and interval training. Students design and lead aerobic, strength, and flexibility segments of a group aerobic exercise class.

### **ENS 431. Administration of Exercise and Fitness Program (2)**

Prerequisites: Exercise and Nutritional Sciences 303, 304, 304L.

Administration and management of corporate, private, university-based, and hospital-based exercise programs.

### **ENS 432. Exercise, Fitness, and Health (2)**

Prerequisites: Exercise and Nutritional Sciences 303, 304, 304L, 305. Concurrent registration in Exercise and Nutritional Sciences 432L.

Exercise testing, programming and leadership for healthy persons of different ages, capacities, and needs.

### **ENS 432L. Exercise, Fitness, and Health (1)**

Three hours of laboratory.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 432.

Practicum in exercise testing, programming and leadership for healthy persons of different capacities, and needs.

### **ENS 433. Exercise, Sport, and Aging (3)**

Prerequisites: Exercise and Nutritional Sciences 301 and 304.

Relationships between exercise, sport and human aging including physiological, psychological, sociological, health and program considerations. Aging is viewed developmentally with emphasis on the middle and later years.

### **ENS 434. Promoting Physical Activity and Health Behavior (3)**

Prerequisites: Credit or concurrent registration in Exercise and Nutritional Sciences 432 and 433.

Theoretical approaches and personal, client, and population strategies for developing and maintaining health-related physical activity and associated behaviors.

### **ENS 436. Functional Human Movement: Evidence-Based Applications to Rehabilitation (3)**

Prerequisites: Exercise and Nutritional Sciences 304, 304L, 305, 306, 307. Limited to students in prephysical therapy and athletic training emphases.

Biomechanics and pathomechanics of human movement with emphasis on scientific literature to support theories of movement dysfunction. Gait and functional human movement, from an evidence-based perspective, to support rehabilitation processes.

### **ENS 440. Fitness Practitioner Internship (3)**

Six hours of activity.

Prerequisites: Grade of B or better in Exercise and Nutritional Sciences 432, 432L, 433.

Supervised practical experience in developing and applying exercise programs and/or physical activity for apparently healthy persons and persons with clinical conditions in community, corporate, commercial, or medically supervised exercise settings.

### **ENS 441. Practicum: Physical Education Activities (2)**

Four hours of activity.

Prerequisites: Exercise and Nutritional Sciences 306, 347A, 347B.

Selection and care of equipment and facilities; analysis of skill; progression for skills, drills and the game; lead-up activities; safety; performance cues; terminologies; skill evaluations; tactics and strategies.

A. Sport Applications I

B. Sport Applications II

### **ENS 442A. Physical Education for Elementary Schools (2)**

Prerequisites: Exercise and Nutritional Sciences 305, 335, 337, 347A, 347B.

Objectives, curricula, activities, and application of basic scientific principles for the conduct of physical education in elementary schools.

**ENS 442B. Physical Education for Elementary Schools Activity (1)**

Two hours of activity.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 442A.

**ENS 445. Current Issues in Physical Education (2)**

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 441A.

Current issues relevant to physical education. Includes assessment, liability, curriculum standards, appropriate physical activity levels, and safety.

**ENS 446A. Physical Education with Adolescents (2)**

Prerequisites: Exercise and Nutritional Sciences 441B, 442A, 442B. Credit or concurrent registration in Exercise and Nutritional Sciences 441A.

Basic requirements, principles, and concepts for conducting physical education with adolescents.

**ENS 446B. Physical Education with Adolescents (1)**

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 446A.

Application of basic requirements, principles, and concepts for conducting physical education with adolescents.

**ENS 460. Professional Issues (1) Cr/NC**

Prerequisite: Senior standing in prephysical therapy specialization. Current issues relevant for one preparing to enter an allied health profession.

**ENS 461. Sport and Exercise Psychology (3)**

Prerequisite: Exercise and Nutritional Sciences 307.

Psychological factors underlying behavior in sport and physical activity. Emphasis on personality and motivational factors.

**ENS 462. Therapeutic Modalities for Sports Injuries (3)**

Theories and techniques for the design, implementation, evaluation, and application of rehabilitation modalities.

**ENS 463. Principles and Techniques in Therapeutic Exercise (2)**

Prerequisites: Exercise and Nutritional Sciences 365 and 389A.

Design and application of therapeutic exercise programs for athletic injuries.

**ENS 463L. Principles and Techniques in Therapeutic Exercise Laboratory (1)**

Three hours of laboratory.

Prerequisite: Concurrent registration in Exercise and Nutritional Sciences 463.

**ENS 465. Seminar in Organization and Administration in Athletic Training (2)**

Prerequisite: Exercise and Nutritional Sciences 389A.

Professional issues in athletic training discipline, including topics in organization and administration.

**ENS 466. Clinical Pathology for Athletic Trainers (3)**

Clinical pathology associated with body systems, clinical recognition, management, and referral of non-orthopedic pathologies associated with physically active persons.

**ENS 477. Therapeutic Practices of Kinesiotherapy (3)**

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 487A.

Foundations of physical disability and description of pathological processes often treated in kinesiotherapy.

**ENS 478. Organization and Administration of Kinesiotherapy (2)**

Prerequisite: Credit or concurrent registration in Exercise and Nutritional Sciences 487A.

Principles and practices of administration in kinesiotherapy.

**ENS 487A. Kinesiotherapy Internship — Neurological (1)**

Prerequisites: Acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in medically supervised exercise programs for individuals with neuromuscular disorders.

**ENS 487B. Kinesiotherapy Internship — Fitness Throughout the Lifespan (1)**

Prerequisites: Acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in medically supervised exercise programs designed for community dwellers of all ages and disabling conditions.

**ENS 487C. Kinesiotherapy Internship — Fitness and Wellness (1)**

Prerequisites: Acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in physical fitness facilities.

**ENS 487D. Kinesiotherapy Internship — Psychiatric (1)**

Prerequisites: Psychology 350; acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in psychiatric care facilities.

**ENS 487G. Kinesiotherapy Internship — Evaluation and Client Care (1)**

Prerequisites: Acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in medically supervised exercise programs with focus on general clinical practices and client care.

**ENS 487H. Kinesiotherapy Internship — Fitness for Individuals with Disabling Conditions (1)**

Prerequisites: Acceptance in the kinesiotherapy professional program and completion of competency checklist.

Clinical experience in medically supervised exercise programs designed for community dwellers with moderate to severe physical disabilities. Not open to students with credit in Exercise and Nutritional Sciences 487E and 487F.

**ENS 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**ENS 499. Special Study (1-3)**

Prerequisites: Consent of department chair. Limited to kinesiology majors. Major Code: 08351.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

**ENS 500. Seminar in Neurophysiological and Mechanical Bases of Therapeutic Exercise (3)**

Prerequisites: Exercise and Nutritional Sciences 462, 463, 463L.

Mechanical and neurophysiological framework for therapeutic exercise interventions. Applications to clinical practice.

**ENS 596. Selected Topics in Exercise and Nutritional Sciences (1-3)**

Selected topics in exercise and nutritional sciences. May be repeated with new content and approval of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

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# Filipino

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 334  
**TELEPHONE:** 619-594-5268 / **FAX:** 619-594-4877  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Courses in Filipino.

Major or minor work in Filipino is not offered.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Filipino to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Filipino 201 or the equivalent level of achievement. The usual sequence of coursework is Filipino 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters, thus fulfilling the language requirement.

## Courses (FILIP)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Filipino will not receive credit for taking lower division courses in Filipino except with advance approval from the department.**

**No credit will be given for Filipino 101, 102, 201 taken out of sequence.**

#### FILIP 101. Elementary Filipino I (4) [GE]

Introduction to Filipino (Tagalog), with emphasis on everyday conversation. Focus on essentials of grammar and sufficient vocabulary for speaking and reading Filipino. Not open to students who have completed three years of high school Filipino unless the third course was completed five or more years ago.

#### FILIP 102. Elementary Filipino II (4) [GE]

Prerequisite: Filipino 101.

Continuation of Filipino 101 with focus on grammar and oral proficiency. Emphasis on grammatical accuracy by responding orally to spoken and written inquiries. Not open to students who have completed four years of high school Filipino unless the fourth course was completed five or more years ago. Not open to students with credit in Filipino 201.

#### FILIP 201. Intermediate Filipino (4) [GE]

Prerequisite: Filipino 102.

Extensive review of all structures learned in Filipino 101 and 102. Integrated approach to learning Filipino by offering opportunities to acquire communicative skills while developing awareness and appreciation of the Filipino culture. Not open to students who have completed five years of high school Filipino unless the fifth course was completed five or more years ago.

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# Finance

In the College of Business Administration

**OFFICE: Student Services 3356**

**TELEPHONE: 619-594-5323 / FAX: 619-594-3272**

A member of AACSB International—The Association to Advance Collegiate Schools of Business.

The Personal Financial Planning Certificate is registered with the Certified Financial Planner Board of Standards, Inc.

## Faculty

Emeritus: Block, Bost, Cherin, Fisher, Gitman, Hippaka, Houston, Hungate, Nye, Omberg, Reints, Sachdeva, Schmier, Short, Vandenberg, Warschauer, Wilbur

Chair: Salehizadeh

Professors: Badrinath, Do, Ely, Haddad, Salehizadeh, Song, Sterk, Varaiya

Associate Professor: Pukthuanthong

Assistant Professors: An, Graf, Gubellini, Kim, Lachance

## Offered by the Department

Master of Science degree in business administration.

Master of Business Administration.

Major in finance with the B.S. degree in business administration.

Major in financial services with the B.S. degree in business administration.

Major in real estate with the B.S. degree in business administration.

Minor in finance.

Minor in real estate.

Certificate in personal financial planning.

## The Majors

The Department of Finance offers three majors: Finance, Financial Services, and Real Estate.

**Finance.** All forms of human endeavor involve finance to some degree. Within our economic system, finance is concerned with capital, which is money or property owned or used in business. Finance majors study both the sources and the uses of capital. The finance curriculum revolves around the valuation process in a free market system. Once an individual or company can value various alternatives, the allocation of resources and the decision process in business becomes much simpler.

Students who are interested in business should have a thorough understanding of the financial process. Upon graduation, students accept a wide variety of positions with business in general. The curriculum of the finance major is designed to give the student breadth in a variety of fields in addition to finance and business.

Employment prospects for graduates with finance majors are very good and forecasts remain encouraging. Graduates are typically found in six types of employment: large and small industrial firms (manufacturers of automobiles, steel, household appliances, and electronic equipment); service oriented firms (electric power, real estate and retail firms); financial institutions (banks, state and federally chartered savings and loan associations, and insurance companies); nonprofit enterprises (universities, labor unions, and foundations); and private businesses.

The diversity of entry level positions obtained by finance majors makes it difficult to describe a typical position. A major in finance does not limit career potential to banking or to any single area of business. A large number of individuals go to work for industrial companies in a variety of entry level positions that allow them to develop into top decision-making positions with those companies. A significant number of chief executive officers and other top officers of corporations have followed the "finance path" to the top.

**Financial Services.** Although the financial services major is based on many of the same analytical skills and theoretical foundations as the finance major, it is designed specifically to prepare students for careers in one of the segments of the financial services industry: securities, banking, insurance, real estate finance and personal financial planning. It is very common for single firms to own subsidiaries in each of these areas, so it is important for graduates entering these fields to be familiar with all aspects of these important financial sectors.

Graduates can look forward to analytical, managerial or sales careers in the financial services industry. Sales careers include insurance and securities sales. Analytical careers include loan and security analysis and personal financial planning. Managerial careers include management in each of the component industries.

**Real Estate.** The vision of the real estate program at SDSU is to create a ready-day-one educational program for students who aspire to become future leaders and professionals within the multifaceted real estate industry. This vision and the changing nature of today's real estate market require that graduates receive a complete education that provides both breadth and depth in this field. Majors in real estate receive a solid foundation in business and real estate through required courses and depth in a particular sub-profession through one of three specialty tracks: real estate development, mortgage banking, and real estate investment advising. Graduates will also be prepared to continue learning, develop leadership, and contribute to communities as a result of their total degree program experience.

SDSU's program in real estate provides students with analytical skills, technical competence to perform market analyses, and an understanding of the tools necessary to perform in today's complex real estate industry. This means each graduate from the real estate program should be able to join any real estate organization and make an impact/contribution from their first day of employment. Graduates should be capable of making a wide variety of management decisions concerning real estate including the ability to apply new economic concepts and up-to-date analytical tools to the process of real estate decision making. This is in addition to the conventional knowledge required for a license.

Real estate is one of the most dynamic business sectors and largest asset classes in the economy. It is in the midst of a transition from being primarily locally based to being integrated into the national and global economies. Important public and private decisions must be made every day about the use, management, and disposition of vast real estate resources. This, and the changing nature of the financial environment in which real estate markets operate, has created demand for new real estate experts, people not only with basic real estate training, but also with good general business and financial skills. This means that job opportunities for the real estate major are available in a wide variety of areas even in times of economic uncertainty. Jobs are found in areas such as development, financing, brokerage, property and asset management, valuation, market analysis, and corporate real estate. SDSU's real estate program recognizes this changing real estate environment and prepares majors for these diverse opportunities. It is the goal of the real estate program at SDSU to provide a high level of education, and thus prepare its graduates for job opportunities in a variety of organizations, large and small, public and private.

## Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

FIN

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

### Statement on Computers

Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the University.

### Retention Policy

The College of Business Administration expects that upper division students will make reasonable academic progress towards the degree. Students earning less than a 2.0 average in their major GPA for two consecutive semesters will be removed from business and placed in undeclared.

### Transfer Credit

**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept *upper division transfer credits* where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

### Impacted Program

The majors in the Department of Finance are impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.9.

Students who meet all requirements except the GPA may request to be placed on the waiting list. Students on the waiting list will be admitted on space-availability basis only. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Finance Major

**With the B.S. Degree in Business Administration**  
**(Major Code: 05041) (SIMS Code: 222115)**

A minor is not required with this major.

**Preparation for the Major.** Finance 240; Accountancy 201, 202; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 (or other approved calculus course); and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Forty-five upper division units consisting of Finance 321, 323, 325, 327, 329, 423; Accountancy 325, 326; Business Administration 300; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405 or 458 (3 units); Marketing 370; and six units of 300-500 level finance courses. A "C" (2.0) average is required in the courses stipulated here for the major.

A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

### Financial Services Major

**With the B.S. Degree in Business Administration**  
**(Major Code: 05043) (SIMS Code: 222122)**

A minor is not required with this major.

**Preparation for the Major.** Finance 240; Accountancy 201, 202; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 (or other approved calculus course); and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Forty to 41 upper division units consisting of Finance 323, 326, 327, 331, 522, 589; Accountancy 503; Business Administration 300; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405 or 458 (3 units); Marketing 370; six to seven units selected from Finance 421, 427, 431, 435\*, 445, 523; Accountancy 326; Economics 320 or 422, 490; and Marketing 377. A "C" (2.0) average is required in the courses stipulated here for the major.

\* Prerequisite waived for this course.

A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics. This means that at least two units of electives (upper or lower division) must be completed in areas other than business administration, economics, and statistics.

## Real Estate Major

**With the B.S. Degree in Business Administration**  
(Major Code: 05111) (SIMS Code: 222192)

A minor is not required with this major.

**Preparation for the Major.** Finance 240; Accountancy 201, 202; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 (or other approved calculus course); and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Forty upper division units consisting of Finance 323, 331, 333, 431, 435; Finance 437 or 438; Business Administration 300; Information and Decision Systems 302; Management 350; Business Administration 404 or Management 405 or 458 (3 units); Marketing 370; and nine additional units selected from Finance 437 or 438, Public Administration 320, Finance 326 or 421 and 433. A "C" (2.0) average is required in the courses stipulated here for the major.

A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

## Finance Minor

(Minor Code: 05041) (SIMS Code: 222116)

The minor in finance consists of a minimum of 21 units to include Accountancy 201; Finance 321, 323, 326, 327, and 329; Statistics 119.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the finance minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

## Real Estate Minor

(Minor Code: 05111) (SIMS Code: 222193)

The minor in real estate consists of a minimum of 18 units to include Finance 240, 323, 331, 431; and six units selected from Finance 333, 433, 435, 437, and 438.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the real estate minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics

119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

## Personal Financial Planning Certificate

(Certificate Code: 90020) (SIMS Code: 226601)

The purpose of this program is to provide a strong educational basis for persons desiring careers in the field of personal financial planning. Two categories of students are admitted: Matriculated students who have been admitted to an upper division College of Business Administration major and nonmatriculated students who work in the financial services industry, who may take the courses on a space-available basis.

This certificate is a program registered with the Certified Financial Planner Board of Standards, Inc.

Prerequisites to the program include Finance 240; Accountancy 201; Economics 101, 102; and Statistics 119. (15 units.)

The certificate requires 24 units to include Accountancy 503, Finance 323, 327, 421, 445, 522, 523, 589, and 590. In order to qualify for this certificate a "B-" (2.7) average in the upper division certificate courses is required.

The adviser for the certificate is Dr. Thomas M.D. Warschauer, Department of Finance. All course units may be used for business majors where applicable. Courses in the certificate may not be counted toward the minor.

## Courses (FIN)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSE

#### FIN 240. Legal Environment of Business (3)

Business legal system, sources of law, social and ethical influences, judicial and administrative systems, contracts, torts, bankruptcy, agency, business organizations, securities regulation, regulation of property, and protection of intellectual property interests.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### FIN 321. Managerial Economics (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Role of economic analysis in management decisions. Study of demand, cost, supply theories from a business viewpoint. Emphasis on managerial decision making.

#### FIN 323. Fundamentals of Finance (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisite required:** Change of major form or other evidence of acceptable major code.

Objectives of financial management. Financing the business enterprise. Internal financial management. Introduction to the cost of capital, valuation, dividend policy, leverage, international finance, and the techniques of present value and its applications. Sources of capital.

#### FIN 325. Intermediate Finance (4)

Prerequisite: Finance 323 with minimum grade of C.

Capital expenditure decision process. Measuring and evaluating benefits and costs. Cost of capital and the evaluation process. Capital rationing problems. Risk and uncertainty in decision process. Agency theory, option pricing, and arbitrage pricing in decision process.

## **FIN 326. Financial Institutions Management (3)**

Prerequisite: Finance 323 with minimum grade of C.

Management of financial institutions including savings and loan associations, mutual savings banks, credit unions, private pension plans, brokerage houses, investment companies, consumer credit institutions, federal credit agencies, and commercial banks. Emphasis on internal financial management of these institutions.

## **FIN 327. Investments (3)**

Prerequisite: Finance 323.

Measures of risk and return. Methods of security analysis, valuation, and capital asset pricing model. Portfolio theory and management; stocks, bonds, options, and futures; hedging; mutual funds and partnerships; and investment taxation.

## **FIN 328. Entrepreneurial Finance (3)**

Prerequisite: Finance 323.

Financial management tools and techniques over the stages of life cycle of a venture: development, start up, rapid growth and maturity. Linkages between market opportunity, competitive position, composition, and sources of financing of the ventures.

## **FIN 329. International Business Finance (3)**

Prerequisite: Finance 323.

Foreign exchange markets and instruments; international financial institutions; trade and balance of payments; exchange rate behavior and currency-risk hedging; cross-border investment; applications to management of international business.

## **FIN 331. Real Estate Essentials (3)**

Prerequisite: Completion of lower division course requirements in business major or minor.

Fundamental operations of the real estate market; principles of real property valuation, financing, law, investment, brokerage, management, and development.

## **FIN 333. Law of Real Property (3)**

Prerequisite: Finance 331.

Legal theory and practice of estates in land; landlord and tenant relationships; land transactions; mortgages and trust deeds; easements; land use; ownership rights in land; environmental law.

## **FIN 335. Land Markets and Real Estate Analysis (3)**

Prerequisite: Finance 331.

Theory and analysis of land utilization. Location analysis and determinants of land use patterns. Real estate market behavior and economic growth. Basic real estate investment analysis. Public controls and policies affecting land markets.

## **FIN 421. Portfolio Management and Security Analysis (3)**

Prerequisite: Finance 327.

Market efficiency. Risk and utility analysis. Portfolio theory. Security analysis under modern investment theory. Advanced debt management and options techniques. Financial options and futures. Asset allocation and performance evaluation. Limited partnership investment analysis.

## **FIN 423. Financial Analysis and Management (4)**

Prerequisites: Finance 321 and 325. Strongly recommended: Accountancy 326.

Integration of various aspects of finance, application of financial theory. Financial decision making in the firm. Case study.

## **FIN 427. Derivatives and Financial Risk Management (3)**

Prerequisite: Finance 323.

Introduce derivative instruments such as futures, options and swaps, nature of their markets and pricing methods. Applications of those instruments for hedging risks in equities, commodities, and exchange rates.

## **FIN 431. Real Estate Finance (3)**

Prerequisite: Finance 331.

Methods of financing real estate; sources of funds; governmental financial agencies; feasibility analysis for various types of properties.

## **FIN 433. Theory of Real Property Value (3)**

Prerequisite: Finance 331.

Introduction to theories of real property value. Techniques of value determination. Data analysis techniques.

## **FIN 435. Real Estate Investment Analysis (3)**

Prerequisite: Finance 431 or 433.

Theories and methods of investment analysis applied to real estate. Integration of various aspects of real estate from the investors perspective. Use of computer models for investment decision making.

## **FIN 437. Real Estate Development (3)**

Prerequisites: Finance 431; or Finance 325 and 327.

Real estate development process. Fundamental real estate market behavior. Project level proforma and master schedule development. Project financing. Shifting priorities and perspectives in due diligence, entitlement, construction, closeout, leasing and occupancy phases. Case studies for multiple property types.

## **FIN 438. Mortgage Banking (3)**

Prerequisites: Finance 431; or Finance 325 and 327.

Financing of commercial and residential real estate. Reviews operation and organization of primary and secondary markets for debt and equity financing instruments. Topics include loan origination, underwriting, servicing and default management, securitization and REITs.

## **FIN 445. Estate Planning (3)**

Prerequisite: Finance 323.

Fundamentals of estate planning, social and family implications of federal/state taxation of transfers of wealth by gift or at death. Study of trusts, conservatorships, guardianship and postmortem planning. How planning is affected by business assets, employee benefits, and insurance.

## **FIN 496. Selected Topics in Finance (1-4)**

Prerequisite: Consent of department chair.

Selected areas of concern in finance. May be repeated with new content with consent of department chair. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

## **FIN 498. Investigation and Report (1-3)**

Prerequisites: Consent of instructor and senior standing.

A comprehensive and original study of a problem connected with finance under the direction of one or more members of the finance staff. May be repeated with new content. Maximum credit six units.

## **FIN 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

## **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

## **FIN 522. Individual Insurance Management (3)**

Prerequisite: Undergraduate: Completion of lower division requirements for the major. Graduate: Completion of prerequisite core.

Economic, legal, social, and ethical considerations of individual, business and group insurance including life, health, property, and liability insurance. Risk exposure and policy analysis.

## **FIN 523. Employee Benefit Planning (2)**

Prerequisite: Undergraduate: Completion of lower division requirements for the major. Graduate: Completion of prerequisite core.

Employee benefit and pension planning, including regulation and taxation issues.

## **FIN 589. Personal Financial Planning (3)**

Prerequisite: Finance 323.

Financial planning process including data gathering, cash flow and debt considerations, goal programming (including retirement and education funding), integration, plan formulation, and implementation. Practice management considerations including establishment of ethical and legal, client and professional relationships.

**FIN 590. Personal Financial Planning Practicum (1)**

Prerequisite: Credit or concurrent registration in Finance 589 or 657.

Preparation of individual or family financial plans using comprehensive cases and/or real family financial data.

**FIN 596. Contemporary Topics in Finance (1-3)**

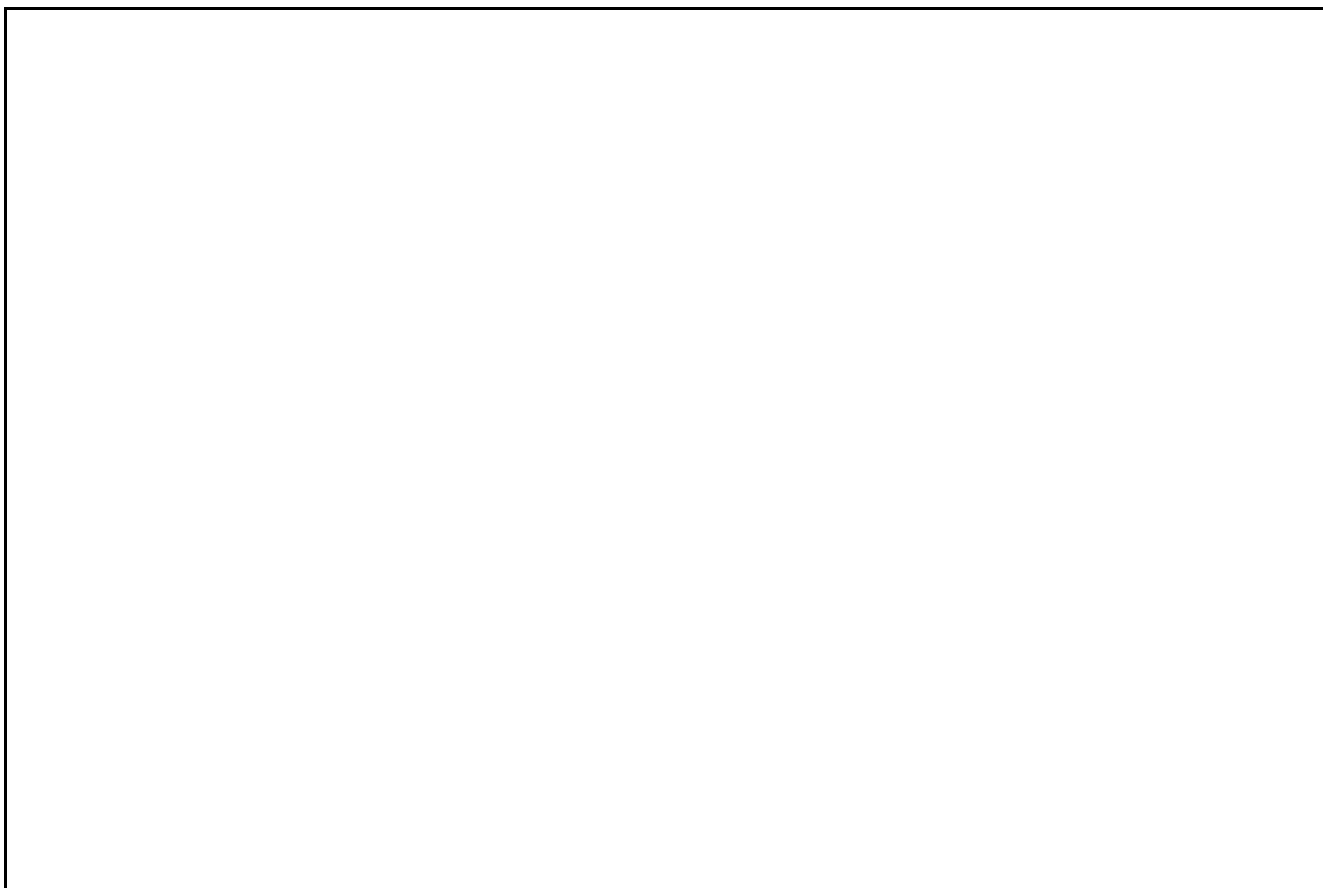
Prerequisites: Business major approved by the College of Business Administration and consent of instructor.

Contemporary topics in modern finance. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

FIN





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# French

In the Department of European Studies  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 304

**TELEPHONE:** 619-594-5111 / **FAX:** 619-594-8006

**E-MAIL:** [french.coord@sdsu.edu](mailto:french.coord@sdsu.edu)

**<http://www-rohan.sdsu.edu/~frenital/>**

## Faculty

Emeritus: Cox, Ghilbert, Jackson, Max, Nelson, Palmer

Chair: Benkov

Professors: Benkov, Donadey, Lyman-Hager, Sacco, Schorr

Associate Professor: Cornwell

Lecturers: Ransom, Wilson

## Offered by the Department of European Studies

Master of Arts degree in French.

Major in French with the B.A. degree in liberal arts and sciences.

Major in European studies, with emphasis in French.

**See** European Studies.

Major in international business, with emphasis in French.

**See** International Business.

Minor in French.

## The Major

A student who majors in French learns to speak the language, to read French literature in its original form, and to interact with members of an important cultural community. The French major can help prepare a student for a career in education, business, or the arts.

Students generally choose to major in French in order to enrich their lives rather than to train for a career, but many employers recognize the value of a well-rounded liberal arts education. The increasing involvement of the United States in international business has created new opportunities for people interested in international management. Employers look for knowledge of a foreign country's culture and language together with training in economics or business. A major in French combines effectively with a second major or minor in business, economics, political science, the humanities, or another language area study.

A significant number of French majors choose a career in teaching. Recent studies indicate that the demand for qualified teachers is rising. With a secondary teaching credential, one can teach at the high school level or pursue more advanced study in preparation for a university career, either in French or in related subjects such as linguistics or comparative literature.

Students majoring in French are strongly encouraged to participate in CSU-IP (California State University International Programs) and other approved study abroad programs in French-speaking countries, such as the SDSU semester in Paris.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## French Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 11021) (SIMS Code: 112701)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 49 units in French courses can apply to the degree.

Students majoring in French must complete a minor in another field to be approved by the departmental adviser in French.

**Preparation for the Major.** French 100A, 100B, 201, 210, 220, and 221. (22 units) Recommended: History 105, 106.

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All French majors are required to complete an approved study abroad program in a French-speaking country consisting of a minimum of six units (90 hours). However, French majors are strongly encouraged to complete a more extensive abroad experience by participating in a semester or an academic year program. To fulfill the International Experience Requirement, French majors must enroll in a study abroad program approved by the department. Unapproved study abroad programs will not meet the international experience requirement for the major.

**Major.** A minimum of 27 upper division units in French to include French 301, 302, 305A, 305B, and 15 upper division electives in French to include at least one 500-level course. No more than one 400-level French course taught in English or Humanities 310 may be applied to the major.

## French Minor

**(Minor Code: 11021) (SIMS Code: 112701)**

The minor in French consists of a minimum of 15 units taught in French, nine units of which must be in upper division French courses. One course taught in English may apply to the minor.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Interdisciplinary Studies in Three Departments

Students selecting French as one of their departments in this major must complete all lower division preparation for the major or equivalent competency, and choose from among French 301, 305A, 305B, 421 and 422.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of French to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete French 201 or 210 or the equivalent level of competency. The usual sequence of coursework is French 100A, 100B, 201, 210, 220, and 221. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (FRENC)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Native speakers of French will not receive credit for taking lower division courses except with advance approval from the department.**

**All lower division courses in French are taught in French.**

**No credit will be given for lower division courses taken after successfully completing any upper division French course taught in French.**

**French courses must be completed in the following sequence: French 100A, 100B, 210, 220 and/or 221. No credit will be awarded for any of these courses completed out of sequence. French 200 and 201 may only be taken after completing French 100B, but may be taken in any order with the other 200-level courses.**

#### FRENC 100A. Elementary French I (5) [GE]

Interactive introduction to speaking, reading, and writing French in a cultural context. Essential language structures for communication at the novice level. Not open to students who have completed three years of high school French unless the third course was completed five or more years ago.

#### FRENC 100B. Elementary French II (5) [GE]

Prerequisite: French 100A or two years of high school French.

Continuation of French 100A. Not open to students who have completed four years of high school French unless the fourth course was completed five or more years ago.

#### FRENC 200. Intermediate French in Paris (3)

Four hours per week in a 12 week period in the Paris Semester.

Prerequisite: French 100B or three years of high school French.

Development of intermediate level proficiency skills through lecture and work in small groups. Offered only through the Paris Semester study abroad program. This course satisfies the language graduation requirement.

#### FRENC 201. Readings in French (3) [GE]

Prerequisite: French 100B or three years of high school French.

Emphasis on reading. See *Class Schedule* for emphasis offered: Readings in French Culture, Readings in Francophone Culture, or Readings in Business French. Not open to students who have completed five years of high school French unless the fifth course was completed five or more years ago. Note: French majors, minors, and International Business majors are encouraged to enroll concurrently in French 210.

#### FRENC 210. French Grammar (3) [GE]

Prerequisite: French 100B with a grade of C or better or three years of high school French.

Comprehensive survey of French grammar at the intermediate level. Analysis and use of typical French structures. Not open to students who have completed five years of high school French unless the fifth course was completed five or more years ago. Note: French majors, minors, and International Business majors are encouraged to enroll concurrently in French 201.

#### FRENC 220. Grammar of Spoken French (3) [GE]

Prerequisite: French 210.

Analysis of grammar and use of modern French through study of cultural materials, for proficiency in oral communication. Note: French majors, minors, and International Business majors are encouraged to enroll concurrently in French 221.

#### FRENC 221. Writing French (3) [GE]

Prerequisite: French 210 with a grade of C or better.

Emphasis on written composition: study of a variety of prose models and practice in writing. Note: French majors, minors, and International Business majors are encouraged to enroll concurrently in French 220.

#### FRENC 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in French are taught in French unless otherwise stated.**

**French 301 is not open to students who hold a French *baccalauréat*. French 301 and 302 may not be taken concurrently or out of sequence.**

#### FRENC 301. Advanced Grammar and Composition (3) [GE]

Prerequisites: Minimum 12 units of 200-level French, to include French 221 with a grade of C or better, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Advanced grammar and stylistics, intensive writing practice focused on a theme in French culture.

#### FRENC 302. Advanced Grammar and Translation (3) [GE]

Prerequisites: French 301 with a grade of C or better, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Advanced grammar and comparative stylistics of French and English, taught through translation.

#### FRENC 304. Phonetics and Oral Proficiency (3)

Two lectures and two hours of activity.

Prerequisite: Upper division standing in French.

Phonetic theory, listening, intonation and transcription practice, corrective phonetic and intonation exercises. Study of varieties of Francophone oral expression.

#### FRENC 305A. Survey of French Literature (3) [GE]

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Important movements, authors, and works in French literature from the Middle Ages to the Revolution.

#### FRENC 305B. Survey of French Literature (3) [GE]

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Important movements, authors, and works in French literature from the Revolution to present.

FRENC

### **FRENC 400. Advanced French in Paris (3)**

Prerequisite: Twelve units of 200-level French.

Development of advanced level proficiency skills through writing and speaking. Offered only through the Paris Semester study abroad program.

### **FRENC 421. French Civilization (3) [GE]**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

French civilization from Middle Ages to the present. Artistic, intellectual achievements and cultural movements.

### **FRENC 422. Contemporary France (3) [GE]**

Prerequisites: Twelve units of 200-level French, and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Contemporary France, emphasizing political, economic and social structures as well as artistic, intellectual, and cultural trends.

### **FRENC 423. Commercial French (3)**

Prerequisite: French 301. **Proof of completion of prerequisite required:** Copy of transcript.

French commercial practices and language, the enterprise, correspondence, advertising, telecommunications, banking, transportation, import-export, insurance, accounting, stock market, preparation for the Certificat offered by the Paris Chamber of Commerce.

### **FRENC 424. French Cinema and Theory (3) [GE]**

Two lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

French cinema emphasizing social, political, and cultural changes in modern France. Topics include film theory, the new wave, history in cinema, influence of feminism, French colonialism, race, class, and gender in modern culture. Taught in English.

### **FRENC 465. Africa in Literature and Film (3) [GE]**

(Same course as Africana Studies 465)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

African cultural history through literature and film. Consistency/variety of African cultural expressions and conventions in literature and film. Taught in English.

### **FRENC 495. French Internship (3) Cr/NC**

Prerequisites: Upper division standing in major and consent of instructor.

Practical work experience in a field related to French and Francophone studies. Work done under joint direction of activity sponsor and instructor. Approved international internships may count towards international requirement for major.

### **FRENC 496. Topics in French Studies (1-4)**

Topics in French literature, culture and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit nine units. May be taught in English.

### **FRENC 499. Special Study (1-3)**

Prerequisites: French 302, 305A, 305B.

Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in French available in any given semester.

## **UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

### **FRENC 501. Translation (3)**

Prerequisite: French 302.

Stylistic comparison of French and English through translation of a variety of prose styles from English to French and from French to English.

### **FRENC 520. French and Francophone Literary Studies (3)**

Prerequisites: French 302 and 305A or 305B.

Specialized study of a century, genre, movement or theme in French and Francophone literature. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **FRENC 530. French and Francophone Cultural Studies (3)**

Prerequisites: French 302 and 421 or 422.

Specialized study of artistic and intellectual trends, customs, and politics in French and Francophone culture. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

### **FRENC 596. Topics in French Studies (1-4)**

Prerequisite: French 302.

Topics in French literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

## **GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

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# General Mathematics Studies

In the College of Arts and Letters

**OFFICE:** Adams Humanities 3138

**TELEPHONE:** 619-594-2225 / **FAX:** 619-594-6530

## Faculty

Chair: McClish

Lecturers: Morgan, Quan

Adjunct: Keesey

## Offered by the Department of Rhetoric and Writing Studies

Courses in general mathematics studies.

Major or minor work in general mathematics studies is not offered.

## General Information

The principal role of the General Mathematics Studies program is to prepare students to satisfy the CSU Entry Level Mathematics requirement and to prepare students to succeed in their GE entry level Mathematics course. Receiving a credit in General Mathematics Studies 91 satisfies the ELM requirement\*. For more information on these mathematics requirements, refer to the "Graduation Requirements" section of this catalog.

The General Mathematics Studies program offers one unit workshops in geometry and other selected topics in mathematics.

**The units awarded to a student who earns a grade of "Credit" in a General Mathematics Studies course are not applicable to the baccalaureate degree.**

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\* The ELM requirement is satisfied by this course **only if** the student has already attempted and failed the ELM.

## Courses (GMS)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES (Non-Baccalaureate Credit)

**General mathematics studies courses numbered below 100 may not be used to satisfy general education or graduation requirements.**

GMS

#### GMS 90. Fundamentals of Mathematics (3) Cr/NC/RP

Prerequisite: Appropriate score on the CSU Entry-Level Mathematics Examination (ELM), the General Mathematics Studies diagnostic test, or other standardized mathematics examination.

Review of pre-algebra and elementary algebra; topics from geometry covered in adjunct workshops (General Mathematics Studies 98A). Students earning "Cr" (credit) should enroll in General Mathematics Studies 91. Students earning "RP" (report in progress) or "NC" (no credit) should repeat General Mathematics Studies 90. May be repeated with consent of instructor. Maximum credit six units. (Formerly numbered General Studies 90A.)

#### \*GMS 91. Intermediate Algebra (3) Cr/NC

Prerequisite: Credit in General Mathematics Studies 90 or appropriate score on the ELM.

A review of intermediate algebra skills. Topics include polynomials, rational and radical expressions, complex numbers, linear and quadratic equations (and graphs), systems of equations, set and function notation, conic sections, exponential and logarithmic functions, and sequences and series. Credit in General Mathematics Studies 91 satisfies the Entry Level Mathematics Examination requirements.

#### GMS 98. Mini-Course: Selected Topics (1) Cr/NC

Assorted short courses which will cover a variety of general mathematics skills through intensive lectures and laboratory work. Suggested topics: Communication skills, research tools, and learning skills. See *Class Schedule* for specific content. Credit earned in courses from this series is not applicable to a bachelor's degree.

**A. Learning Skills**

**B. Communication Skills**

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\* The ELM requirement is satisfied by this course **only if** the student has already attempted and failed the ELM.

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# General Studies

## Courses (GEN S)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### GEN S 100. University Seminar (1) Cr/NC

Prerequisite: Open only to freshmen.

Provides opportunities to interact with faculty and staff in a small group setting. Students acquire study and interpersonal skills for academic and personal success. Special sessions are offered featuring campus resources including library, advising, career, health and wellness services.

- A. University Seminar
- B. Learning in Communities
- C. Living/Learning Community

#### GEN S 200. Professional Experience and Community Service (1-3) Cr/NC

Prerequisites: Twelve units of college credit, minimum grade point average of 2.0, concurrent participation in professional or community service activity, and approval of course contract.

Academic work designed with faculty approval to complement concurrent paid or unpaid professional or community service experience. Information and course contract forms available in Division of Undergraduate Studies, AD-101. Applications must be submitted to the division prior to the end of the first week of classes. May be used to satisfy major or minor requirements only upon written approval of department chair. No combination of General Studies 200 and 400 in excess of six units may be counted for credit toward a bachelor's degree.

#### GEN S 250. Interdisciplinary Topics (1-4)

Interdisciplinary selected topics course. To enroll contact the faculty adviser of the department offering the course. May be repeated with new content. Maximum credit four units.

#### GEN S 255. Bounce Back Retention Seminar (1) Cr/NC

Prerequisites: Academic probation students only. All participants sign Institutional Review Board (IRB) consent form.

In a highly interactive, small group setting, students learn a variety of skills, such as time management, test taking, class preparedness, and study skills, in order to strengthen performance. Students learn what personal attributes contribute to academic success and learn how to recognize and expand on these characteristics.

#### GEN S 260A-260B-260C. Composing Identities (3-3-3) [GE]

Prerequisite for 260A: Satisfaction of the SDSU writing competency requirement. (See Graduation Requirements section of catalog.)

**Proof of completion of prerequisites required:** Copy of EPT or competency scores or verification of exemption; proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

Interdisciplinary course that explores the rich complexity of human identity in diverse cultures. Nine-unit package taught by three faculty members, emphasizes discussion seminars and active learning, including a community-based service learning project. See *Class Schedule* for specific content. General Studies 260A not open to students with credit in a higher-numbered composition course or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

#### GEN S 260D-260E-260F. Imagining Communities (3-3-3) [GE]

Prerequisites: Satisfaction of the SDSU writing competency requirement and General Studies 260A or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or Linguistics 100 or Rhetoric and Writing Studies 100 or 101.

Interdisciplinary exploration of diverse human communities as they are imagined, expressed, and transformed. Nine-unit package taught by three faculty members, emphasizes discussion seminars and active learning, including a community-based service learning project. See *Class Schedule* for specific content. General Studies 260D not open to students with credit in Africana Studies 200, Chicana and Chicano Studies 200, English 200, Linguistics 200, or Rhetoric and Writing Studies 200.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### GEN S 321. Gay and Lesbian Identities in the Modern World (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Interdisciplinary field of lesbian and gay studies with attention to social and political institutions and development of personal identity. Topics include discrimination, internalized homophobia, political activism, and diversity within lesbian, gay, bi-sexual, and transgendered community.

#### GEN S 322. Gay and Lesbian History and Culture (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Interdisciplinary field of lesbian and gay studies with attention to history and artistic expression. Topics include varying attitudes toward homosexuality in history, as well as literary, artistic, theatrical, and musical contributions of the lesbian, gay, bi-sexual, and transgendered community.

#### GEN S 330. Plagues Through the Ages (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Political, economic, religious, and cultural effects of disease. Significant role epidemics and disease have played in development of civilizations from beginning of recorded history to present.

#### GEN S 340. Confronting AIDS (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A. Natural Sciences and Quantitative Reasoning.

Examines the AIDS epidemic from historical, epidemiological, biological, medical, psychological, political, legal, and ethical perspectives.

#### GEN S 350. Interdisciplinary Topics (1-4)

Interdisciplinary selected topics course. To enroll contact the faculty adviser of the department offering the course. May be repeated with new content. Maximum credit four units.

#### GEN S 400. Professional Experience and Community Service (1-3) Cr/NC

Prerequisites: Upper division standing, minimum grade point average of 2.0, concurrent participation in professional or community service activity and approval of course contract.

Academic work designed with faculty approval to complement concurrent paid or unpaid professional or community service experience. Information and course forms available in Division of Undergraduate Studies, AD-101. Applications must be submitted to the division prior to the end of the first week of classes. May be used to satisfy major or minor requirements only upon written approval of department chair. No combination of General Studies 200 and 400 in excess of six units may be counted for credit toward a bachelor's degree.

**GEN S 410. Civilization Through Travel-Study (2-3)**

Prerequisite: Upper division standing.

Civilization through faculty-supervised foreign travel-study. Requires lecture attendance, excursions and site visits, examinations and written reports.

**GEN S 420. Disability and Society (3) [GE]**

Prerequisites: Psychology 101, Sociology 101, or Anthropology 101, and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Range of human experience of individuals with disabilities: attitudes toward individuals and interrelationship between societal institutions and needs of people with disabilities; historical response to these needs and contemporary issues with particular emphasis on normalization, integration, and community living.

**GEN S 450. Life and Culture Semester Abroad (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Life and culture of a foreign country through an approved semester abroad program sponsored by an academic department or program at SDSU. Requires lecture attendance, excursions and site visits, examinations and written reports. See *Class Schedule* for geographic location

**GEN S 490. Undergraduate Research (1-3)**

Prerequisite: Upper division standing.

Research and creative activities to include preparation for qualitative and quantitative empirical research projects. Identify problem, formulate research question, design small-scale investigation, collect and analyze data, present findings, and may include creative and performing arts projects. May be repeated with new content. Maximum credit three units.

GEN S

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# Geography

In the College of Arts and Letters

**OFFICE: Storm Hall 323**

**TELEPHONE: 619-594-5437 / FAX: 619-594-4938**

## Faculty

Emeritus: Blick, Eidemiller, Fredrich, Getis, Greenwood, Griffin, Johnson, Keen, Kiewiet de Jonge, McArthur, Pryde, Quastler, Stutz, Taylor, Wright

Chair: Aitken

The Stephen and Mary Birch Foundation Chair in Geographical Studies: Christakos

Professors: Aguado, Aitken, Christakos, Hope, Jankowski, O'Leary, Stow, Weeks

Associate Professors: An, Bosco, Marcelli, Skupin, Tsou

Assistant Professors: Biggs, Farley, Swanson

Lecturers: Chagala, Osborn, Pohl-Costello, Richardson, Thorngren

## Offered by the Department

Doctor of Philosophy degree in geography.

Master of Arts degree in geography.

Master of Science degree in geography.

Concentration in geographic information science.

Concentration in watershed science.

Major in geography with the B.A. degree in liberal arts and sciences.

Emphasis in methods of geographical analysis.

Emphasis in natural resource and environmental geography.

Emphasis in physical geography.

Emphasis in urban and regional analysis.

Major in geography with the B.S. degree in applied arts and sciences

Emphasis in geographic information science.

Minor in geography.

Certificate in geographic information science.

## The Stephen and Mary Birch Foundation Chair in Geographical Studies

The Stephen and Mary Birch Foundation Chair in Geographical Studies was created through the Birch Foundation's grant to the Department of Geography to endow a chair and create a Center for Earth Systems Analysis Research. Dr. George Christakos, internationally recognized for his expertise in theory and methodology of spatial analysis and mathematical modeling applied to environmental, ecological, health, and geographical systems, is the third holder of the chair.

## The Major

Geography is the study of spatial aspects of the physical environment, human activities and landscapes, and the nature of their interactions. Geographers draw upon theories from both the physical and social sciences. As physical scientists, they study the processes and resulting features of the earth's surface, such as vegetation, climate, soils, landforms, and resources. As social scientists, geographers explore such topics as the arrangement of societies on the earth's surface, land use patterns, urbanization, resource and energy usage, and environmental conservation.

The Department of Geography offers a broad range of fields from which to select an emphasis. These include physical geography—focusing on scientific explanations of the earth's physical features and processes; natural resource and environmental geography—concerned with human impacts on the earth; urban and regional analysis—dealing with the form of cities and the dynamics of regional systems; methods of geographical analysis—providing a background in cartography, geographic information systems, remote sensing and spatial statistics. A comprehensive program is offered in general geography—encompassing topics from all of the emphases.

The department also offers a Certificate in Geographic Information Science. This program is for students interested in mapping, computer graphics, surveying, aerial photography, and the use of satellite technology to study earth resources. A variety of career opportunities exist for geography majors. In recent years many graduates with bachelor degrees have entered the fields of urban and environmental planning, both in the public and private sectors, with job titles such as environmental policy analyst, urban/regional planner, cartographer, LEED-certified construction/development, GIS analyst/specialist, energy planner, water resources planning/management, natural resource management/planner, park specialist/planner, National Park Service ranger/administrator, habitat restoration manager, non-profit organization planner/administrator.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Geography Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22061)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in geography courses can apply to the degree.

**Graduation with Distinction.** A student desiring to graduate with Distinction in Geography must meet the university requirements listed in the section of this catalog on "Graduation Requirements" and be recommended by the geography faculty.

### General Geography Program (SIMS Code: 112901)

A minor in another department approved by the undergraduate adviser in Geography is required for this degree.

**Preparation for the Major.** Geography 101, 101L, 102, 104. (10 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Major.** A minimum of 27 upper division units in geography to include three units selected from each of the following groups: (a) Geography 321-336; (b) 353-354, 554-559, 585-586; (c) 370, 378, 483, 570-575; (d) 303, 378, 401, 409, 504-511; (e) 380-381; (f) 385, 484, 581-589, and nine units from one of the following groups: (a) Physical: Geography 303, 378, 401, 409, 504-511; (b) Natural Resource and Environmental: 370, 378, 426, 483, 570-575; (c) Urban and Regional Analysis: 353-354, 385, 554-559, 585-586; (d) Methods

of Geographical Analysis: 380-385, 484, 581-589; (e) Cultural: 354, 554, but not more than six units from Geography 312, 321-336. No course may be used more than once to satisfy this requirement.

**Emphasis in Methods of Geographical Analysis**  
(SIMS Code: 112954)

Students selecting this emphasis are not required to complete a minor in another department.

**Preparation for the Major.** Geography 101, 101L, 102, 104; Computer Science 105 or 107; Statistics 250 or comparable statistics course. (16 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Major.** A minimum of 36 upper division units in geography to include Geography 385; 15 units selected from Geography 380-381, 484, 498, 581-589; three units selected from each of the following groups: (a) 321-336; (b) 370, 426, 483, 570-575, 595; (c) 353-354, 554-559; six units selected from Geography 303, 378, 401, 409, 504-511; and three units of upper division geography electives.

\* Geography 595 may be used to satisfy three units in this group where appropriate and approved by the department.

**Emphasis in Natural Resource and Environmental Geography**

Students selecting this emphasis are not required to complete a minor in another department.

Students may select either track (a) Environmental Analysis or track (b) Environmental Policy.

**Preparation for the Major.** Geography 101, 101L, 102, 104; Biology 100 and 100L; Political Science 102; Statistics 250 or comparable statistics course. (20 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Track (a): Environmental Analysis**  
(SIMS Code: 112967)

**Additional Preparation for the major.** Mathematics 121 or 150; Chemistry 100; and Physics 107. (11-12 units)

**Major.** A minimum of 36 upper division units in geography to include Geography 370 and 385; three units from 380-381; three units from 321-336; six units from 303, 378, 401, 409, 504-511, and three units from 353-354, 554-559.

An additional 15 units to be selected from 3 or 4 units from Geography 484 or 587, three units from 581-589, and nine units from 426, 483, 570-575, 595.

**Track (b): Environmental Policy**  
(SIMS Code: 112968)

**Additional Preparation for the major.** Economics 101 or 102. (3 units)

**Major.** A minimum of 36 upper division units in geography to include Geography 370 and 385; three units from 380-381; three units from 321-336; six units from 303, 378, 401, 409, 504-511, and three units from 353-354, 554-559.

An additional 15 units to be selected from 3 or 4 units from Geography 484, 581-589 and 12 units from 426, 483, 570-575, 595.

**Emphasis in Physical Geography**  
(SIMS Code: 112960)

Students selecting this emphasis are not required to complete a minor in another department.

**Preparation for the Major.** Geography 101, 101L, 102, 104; Mathematics 121 or 150; Chemistry 200; Physics 180A, 182A; Statistics 250 or comparable statistics course. (25-26 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Major.** A minimum of 36 upper division units in geography to include Geography 380 or 381; 385; 15 units selected from Geography 303, 378, 401, 409, 498, 504-511, 595; six units selected from Geography 484, 581-589; and three units selected from each of the following groups: (a) 321-336; (b) 353-370, 426, 554-575; and three units of upper division electives.

**Emphasis in Urban and Regional Analysis**  
(SIMS Code: 112980)

Students selecting this emphasis are not required to complete a minor in another department.

**Preparation for the Major.** Geography 101, 101L, 102, 104; Computer Science 105 or 107; Economics 102; Statistics 250 or comparable statistics course. (19 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Major.** A minimum of 36 upper division units in geography to include Geography 385; 15 units selected from Geography 353-354, 498, 554-559, 572, 585-586, 595; three units selected from each of the following groups: (a) 303, 378, 401, 409, 504-511; (b) 321-336; (c) 370, 426, 483, 570-575; (d) 380, 381; (e) 484, 587, 589; and three units of electives.

GEOG



## Geography Major

With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 22061) (SIMS Code: 112990)

### Emphasis in Geographic Information Science

Students selecting this emphasis are not required to complete a minor in another department.

**Preparation for the Major.** Geography 101, 101L, 102, 104; Biology 100, 100L; Chemistry 200; Computer Science 107, 108; Mathematics 121 and 122, or 150; Physics 180A, 182A; Statistics 250 or comparable statistics course. (36-38 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or English 508W, 581W, 584W, or Rhetoric and Writing Studies 305W, 500W, 503W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Student Assessment.** Passing Geography 495 with a grade of credit (Cr) to be taken during the fall or spring semester of the calendar year in which the student expects to graduate. Geography 495 is not included in the minimum units required for the major.

**Major.** A minimum of 37 upper division units to include Geography 381, 385, 484, 585, 587; and 21 units of upper division electives selected as follows: six units from Geography 483, 581-595; nine units from Geography 370, 378, 401, 409, 504-511, 570-575; three units from Geography 353-354, 554-559; three units from Computer Science 310, 320.

## Geography Minor

The minor in geography consists of a minimum of 18-19 units of geography to include Geography 101, 102 and one of the following areas:

**Cultural (SIMS Code: 112937):** Six units from Geography 312, 354, 554, and six units selected from regional courses Geography 321-336.

**Methods of Geographical Analysis (SIMS Code: 112954):** Nine units selected from Geography 380-385, 484, 581-589, and three units selected from any other upper division geography course.

**Natural Resource and Environment (SIMS Code: 112966):** Nine units selected from Geography 370, 378, 483, 570-575, and three or four units selected from methods courses Geography 380-385, 484, 581-589.

**Physical (SIMS Code: 112961):** Nine units selected from Geography 303, 378, 401, 409, 504-511, and three or four units selected from methods courses Geography 380-385, 484, 581-589.

**Urban and Regional Analysis (SIMS Code: 112981):** Nine units selected from Geography 353-354, 554-559, and three or four units from either methods or regional courses Geography 321-336, 380-385, 484, 581-589.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Geographic Information Science Certificate\*

(Certificate Code: 90032) (SIMS Code: 112949)

The purpose of the program is to prepare students to acquire, manage, and visualize geospatial data in public and private organizations. Students must apply for admission to the program before the completion of 12 certificate units and must complete the required units with a 2.5 grade point average.

The certificate requires 27 units distributed between the departments of Geography and Computer Science as follows: 12-15 units selected from Geography 104, 381, 484, 581-589, and 12-15 units selected from Computer Science 105, 107, 108, 220, 310, 320, 503, 514, 520, 535, 551, 575. Courses with relevant content (e.g. Geography 596 or Computer Science 596) may be substituted for the geography and computer science courses with the approval of the certificate adviser. Courses in the certificate may be counted toward the major in geography but may not be counted toward the minor.

\* Additional prerequisites required for this certificate.

## Courses (GEOG)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### GEOG 101. Principles of Physical Geography (3) [GE]

Principles underlying the fundamental nature and dynamics of the physical world: the atmosphere, hydrosphere, biosphere, lithosphere, and their systematic spatial relationships. Note: Cannot be used for General Education in combination with Anthropology 101.

#### GEOG 101L. Physical Geography Laboratory (1) [GE]

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Geography 101.

Practical exercise and observation in map analysis, weather elements, climatic regions, and the earth's landform features. Designed to supplement Geography 101.

#### GEOG 102. Principles of Cultural Geography (3) [GE]

Introduction to cultural geography, covering the elements of culture, such as technology, language, religion, political organization, methods of livelihood, settlement patterns and population, and the regional distribution of these elements over the earth. Field trips may be arranged.

#### GEOG 103. Weather and Climate (3) [GE]

The composition, structure, and circulation of the atmosphere, including elementary theory of storms and other weather disturbances. Note: Cannot be used for General Education in combination with Anthropology 101.

#### GEOG 104. Geographic Information Science and Spatial Reasoning (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Fundamental concepts in geographic information systems, cartography, remote sensing, spatial statistics, and global positioning systems. Use of critical technologies in addressing human and environmental problems.

#### GEOG 106. World Regional Geography (3) [GE]

Cultural and world geography, focusing on elements of culture as applied to regions of the world: ethnicity, language, religion, urbanization, economics, political organization. Alternative conceptions about geography held by children, adults, and individuals of different cultures.

#### GEOG 296. Experimental Topics (1-4)

Selected topics. May be repeated with new context. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### GEOG 303. Severe Weather (3)

Physical processes, human responses, and mitigation strategies related to atmospheric hazards, including blizzards, wind storms, severe thunderstorms, tornadoes, hurricanes, heat waves, floods, and drought.

#### GEOG 312. Culture Worlds (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for non-majors.

Geographical characteristics and development of major cultural realms of the world. Spatial components of contemporary conflict within and between these regions. Not open to students with credit in Geography 106.

#### GEOG 321. United States (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Geography 101 or 102.

Systematic and regional analysis of physical and cultural landscapes of the United States.

**GEOG 323. Middle America (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Geography 101 or 102.

The land and peoples of Mexico, Central America, and the islands of the Caribbean; a survey of the resources, economies, and trade of the region. Field trips may be arranged.

**GEOG 324. South America (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Geography 101 or 102.

The physical regions and human geography of South America, including the history of colonization and the exploitation of resources.

**GEOG 336. Europe (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Geography 101 or 102.

Systematic analysis of the geographic bases of modern European life. Regional investigation of countries of Europe except the Soviet Union.

**GEOG 353. Location of Economic Activity (3)**

Prerequisite recommended: Geography 101 or 102.

International arrangement and interrelationship of resources, production, exchange and consumption; principles and theory in industrial location; world trade and economic development selecting favorable locations for capital investments, determining growth potential of service and market areas, meeting environmental impact requirements.

**GEOG 354. Geography of Cities (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors. Recommended: Geography 101 or 102.

Survey of the location, function and spread of cities; the spatial and functional arrangement of activities in cities, leading to an analysis of current urban problems: sprawl, city decline, metropolitan transportation. Field trips may be arranged.

**GEOG 370. Environmental and Natural Resource Conservation (3) [GE]**

Prerequisites: Geography 101 or 102; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Quality of environmental and natural resources within changing human and natural systems: pollution problems; preservation of open space, habitats, and wilderness; and conservation of natural resources.

**GEOG 378. Environmental Geomorphology (3)**

Prerequisites: Geography 101 and Mathematics 121 or 150.

Introduction to environmental physiographic dynamics. Assessment of man's role in these dynamics and their effect on urban and rural land use, including such topics as induced erosion, landslides, and flooding.

**GEOG 380. Map Investigation (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geography 101 or 102 or 104.

Use of the map as an analytical tool in geography. History of developments in cartography.

**GEOG 381. Computerized Map Design (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geography 101 or 102 or 104.

Art and science of creating digital maps as media for describing and analyzing geographic phenomena. Computer laboratory instruction and practice in cartographic techniques with emphasis on thematic maps and geographic information systems.

**GEOG 385. Spatial Data Analysis (3)**

Prerequisites: Geography 101 or 102; Statistics 250 or comparable course in statistics.

Analysis of spatially distributed data including computer applications. Spatial sampling, descriptive statistics for areal data, inferential statistics, use of maps in data analysis.

**GEOG 401. Geomorphology (3)**

Prerequisite: Geography 101.

Morphology and genetic interpretation of the relief features of the earth's surface.

**GEOG 409. Global Climate Change (3)**

Prerequisite: Geography 101 or 103.

Global climate system and feedbacks with biosphere. Past climates and potential future changes, including changes in greenhouse gases, ozone depletion and acid rain. Predictions and uncertainty regarding changes including natural and anthropogenic causes.

**GEOG 426. Regional Field Studies (3)**

Prerequisites: Geography 101 or 102, Environmental Science 100.

Regional analysis to include physical, cultural, environmental, economic geography at the field level. Specific field techniques/topics taught in lecture and applied in the field. Required field trip of one week to 10 days.

**GEOG 483. Watershed Analysis (3)**

Prerequisite: Geography 101.

Watershed analysis is an organizing framework for collecting and analyzing scientific information to facilitate environmental management. Framework examined from both an ecological process and an environmental management perspective.

**GEOG 484. Geographic Information Systems (3)**

Two lectures and three hours of laboratory.

Prerequisite: Three units from Geography 380, 381, 587, or from computer programming.

Procedures for encoding, storage, management, and display of spatial data; theory of computer-assisted map analysis; examination of important geographic information systems.

**GEOG 495. Geography Capstone (1) Cr/NC**

Prerequisite: Senior standing in geography (or environmental sciences with an emphasis in watershed science) with the expectation of graduating during the academic year in which the course is taken.

Synthesis of knowledge gained by students in upper division geography courses at SDSU, based on in-class essays and creation of a portfolio outlining learning experiences in geography. Practical information to prepare for professional employment.

**GEOG 496. Selected Studies in Geography (3)**

Prerequisite: Six units in geography.

Critical analysis of problems within a specific field of the discipline. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units. Field trips may be arranged.

**GEOG 498. Senior Thesis (3)**

Prerequisites: An overall grade point average of 3.0 and consent of department.

A written thesis based on an individual research project.

**GEOG 499. Special Study (1-3)**

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**GEOG 504. Coastal and Submarine Geomorphology (3)**

Prerequisites: Geography 101 and Mathematics 121 or 150.

Analysis of marine waves, of their modification in shallow waters, of coastal currents and tides. Interpretation of coastal and submarine relief in relation to environmental processes and their modification by humans. Field trips may be arranged.

**GEOG 505. Fluvial Geomorphology (3)**

Prerequisite: Geography 401.

Physical foundation of river systems. Geographic variability in river channels and influence of human activities on fluvial forms and processes. Role of fluvial geomorphology in river and watershed management. Field trips may be arranged.

**GEOG 506. Landscape Ecology (3)**

Prerequisite: Geography 101. Recommended: Geography 370 or 385.

Links between landscape patterns and ecological processes at a variety of spatial scales to include causes and measures of landscape patterns, effects of landscape patterns on organisms, landscape models, landscape planning and management.

**GEOG 507. Geography of Natural Vegetation (3)**

Prerequisite: Geography 101.

The natural vegetation associations of the world, their distribution, classification and development, including relationship to human activities. Field trips may be arranged.

**GEOG 509. Regional Climatology (3)**

Prerequisite: Geography 101 or 103.

The causes of climatic types as they occur throughout the world. Principles of several climatic classifications.

**GEOG 511. Hydrology and Global Environmental Change (3)**

Prerequisite: Geography 101 or 103.

Hydrologic processes and regimes, how these are affected by environmental change and how hydrologic process and regimes affect patterns of environmental change. Processes operating at global, regional, and local scales are examined, including land-use/land-cover change and climate change.

**GEOG 554. World Cities: Comparative Approaches to Urbanization (3)**

Prerequisite: Geography 354.

Worldwide trends in urbanization. Case studies of selected cities from various culture areas with focus on international variations in city structure and urban problems.

**GEOG 556. Cultures of Cities (3)**

Prerequisite: Geography 354 or three units of upper division coursework in a related field.

Character and internal structure of North American cities with a focus on cultures (political, social ethnic, business, architectural) that shape them. Topics include immigrant neighborhoods, gentrification, gated communities, and processes of decline and revitalization. Field trips may be arranged.

**GEOG 559. Urban Transportation Geography (3)**

Prerequisite: Three units of upper division urban or transportation coursework in geography or related field.

Urban transportation networks and their effects, past, present and future, on the economy and physical structure of the urban region. Field trips may be arranged.

**GEOG 570. Environmental Resource Conservation (3)**

Prerequisite: Geography 370.

Management of environmental and natural resources. Effective programs and the institutional frameworks in which they occur.

**GEOG 572. Land Use Analysis (3)**

Prerequisite: Geography 370.

Problems of maintaining environmental quality in the process of land conversion from rural to urban uses with emphasis on land capability and suitability studies. Field trips may be arranged.

**GEOG 573. Population and the Environment (3)**

Prerequisite: Geography 102.

Population distribution, growth, and characteristics as they relate to environmental degradation, both as causes and consequences. Roles of women, sustainable development, carrying capacity, optimum population, and policy initiatives in relationships between population and environment.

**GEOG 574. Water Resources (3)**

Prerequisite: Geography 370.

Occurrence and utilization of water resources and the problems of water resource development. Field trips may be arranged.

**GEOG 575. Geography of Recreational Land Use (3)**

Prerequisite: Geography 101 or 102.

Importance of location and environment in the use, management, and quality of recreation areas. Field trips are required.

**GEOG 581. Cartographic Design (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geography 381.

Computer-assisted map production techniques with emphasis on map design and color use.

**GEOG 583. Internet Mapping and Distributed GIServices (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geography 381 or 484.

Current development of Internet mapping and cartographic skills for web-based maps (multimedia, animation, and interactive design). Fundamental theories of distributed GIS to support Internet mapping with focus on distributed component technologies, Internet map servers and web services. Not open to students with credit in Geography 582.

**GEOG 584. Geographic Information Systems Applications (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geography 484 or 587.

Conceptualization, completion, and implementation of geographic information systems (GIS) at local, regional, national, and global levels. Spatial analysis and modeling with GIS. GIS in planning, management, and research.

**GEOG 585. Quantitative Methods in Geographic Research (3)**

Prerequisite: Geography 385.

Application of statistical techniques to geographic research including simple regression and correlation, multiple regression, classification, factor analysis, and computer applications.

**GEOG 586. Qualitative Methods in Geographic Research (3)**

Prerequisite: Geography 102.

Application of qualitative techniques to geographic research including reflexive survey design and in-depth interviews, non-obtrusive methods, landscape interpretation, textual methods and discourse analysis, feminist criticism, and humanistic and historical materialist perspectives on measurement.

**GEOG 587. Remote Sensing of Environment (4)**

Three lectures and three hours of laboratory.

Prerequisite: Geography 101. Recommended: Physics 180A-180B.

Techniques for acquiring and interpreting remotely sensed data of environment. Electromagnetic radiation processes, aerial photographic systems, and human interpretation of aerial and satellite imagery. Geographic analysis of selected terrestrial, oceanographic, and atmospheric processes and resources.

**GEOG 588. Intermediate Remote Sensing of Environment (4)**

Three lectures and three hours of laboratory.

Prerequisites: Geography 385 and 587.

Multispectral remote sensor systems and interpretation of imagery from nonphotographic systems. Computer-assisted image processing. Geographic analysis of selected terrestrial, oceanographic, and atmospheric processes.

**GEOG 589. GIS-Based Decision Support Methods (3)**

Prerequisite: Geography 484.

Integration of Geographic Information Systems (GIS) with decision support techniques for problem-solving and decision-making. Public participation and collaborative use of GIS for location-based planning and resource management.

**GEOG 595. Geographic Internship (3)**

Prerequisites: Six upper division units in geography and consent of instructor.

Students will be assigned to various government agencies and industry and will work under the joint supervision of agency heads and the course instructor. Maximum credit three units.

**GEOG 596. Advanced Topics in Geography (1-3)**

Prerequisite: Six upper division units in geography.

Advanced special topics in geography. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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**GRADUATE COURSES**  
**Refer to the Graduate Bulletin**

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# Geological Sciences

In the College of Sciences

**OFFICE: Geology/Mathematics/Computer Science 237**

**TELEPHONE: 619-594-5586 / FAX: 619-594-4372**

**E-MAIL: [department.office@geology.sdsu.edu](mailto:department.office@geology.sdsu.edu)**

**<http://www.geology.sdsu.edu>**

## Faculty

Emeritus: Abbott, Berry, Bertine, Dorman, Gastil, Huntley, Jiracek, Kern, Krummenacher, Marshall, Miller, Peterson, Ptacek, Roberts, Threet, Walawender, Wallace

Chair: Girty

The Rollin and Caroline Eckis Chair in Seismology: Day

Professors: Day, Girty, Kimbrough, Olsen, Rockwell

Associate Professors: Frost, Pietruszka, Schellenberg, Thorbjarnarson

Assistant Professors: Ma, Morrow

Lecturers: Camp, Robinson, SacramentoGrilo

## Offered by the Department

Doctor of Philosophy degree in geophysics.

Master of Science degree in geological sciences.

Major in geological sciences with the B.S. degree in applied arts and sciences.

Emphasis in general geology.

Emphasis in engineering geology.

Emphasis in geochemistry.

Emphasis in geophysics.

Emphasis in hydrogeology.

Emphasis in marine geology.

Emphasis in paleontology.

Minor in geological sciences.

Minor in oceanography.

## The Rollin and Caroline Eckis Chair in Seismology

A gift from Rollin and Caroline Eckis, combined with matching funds from the Atlantic Richfield Company and contributions from SDSU faculty and staff, established The Rollin and Caroline Eckis Chair in Seismology at SDSU. The late Rollin Eckis was former president of Richfield Oil Company and vice chairman of the board of Atlantic Richfield Company.

The first appointee to the chair, Dr. Steven M. Day, conducts research on the mechanics of earthquakes and earthquake hazards.

## The Major

Geology is the study of the earth, its composition, its history, and its constantly changing character.

Geologists study the origin and evolution of our planet; the chemical and physical properties of minerals, rocks, and fuels; the structure of our mobile crust – its newly forming ocean floors and its ancient, drifting continents; the history of life; and human adaptation to earthquakes, volcanic eruptions, landslides, and floods. The subject matter of geology ranges from dinosaurs to the prediction of earthquakes.

Students who are curious about the planet on which we live, challenged by problems which involve the earth, and intrigued by the potential of a subject which combines both the arts and sciences, should consider geological sciences as a major.

The employment outlook is favorable, particularly with engineering, hydrogeology, toxic waste disposal firms, energy companies, and as school teachers.

A geology graduate may be employed as one of the following professionals: hydrologist, geophysicist, geochemist, environmental scientist, oceanographer, teacher, research technician, geological surveyor, paleontologist, energy and resource explorer, and resource planner.

Geologists are primarily employed by private corporations, including petroleum, mining, construction, quarry, hydrology, and engineering geology companies and by government agencies, such as the U.S. Geological Survey, the U.S. Bureau of Reclamation, the California Department of Conservation, and regional planning offices. Students with graduate degrees are sought for teaching positions in secondary schools, community colleges, and universities.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Geological Sciences Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 19141)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." All required upper division courses must be taken for letter grades only, not credit/no credit.

Courses to satisfy the requirement of 36 or more upper division units in the major may be selected from upper division geological sciences courses not explicitly excluded. Students may petition the department to include courses from other disciplines to complete the upper division major requirement.

A minor is not required with this major.

### Emphasis in General Geology

**(SIMS Code: 775324)**

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 205, 221; Biology 100, 100L; Chemistry 200, 201; Mathematics 150, 151; Physics 195, 195L, 196, 196L. (45 units)

**Recommended:** Physics 197, 197L; Mathematics 252.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 38-40 upper division units in approved courses to include Geological Sciences 300, 306, 307, 324, 336, 498A, 498B, 508, 530, 537; plus six additional upper division units from geological sciences (upper division courses from outside department by approval).

### Emphasis in Engineering Geology

**(SIMS Code: 775313)**

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 205, 221; Biology 100; Chemistry 200, 201; Engineering Mechanics 200; Mathematics 150, 151, 252; Physics 195, 196, 197; Statistics 250. (55 units)

**Recommended:** Civil Engineering 218; Physics 195L, 196L, 197L.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 38 upper division units in approved courses to include Geological Sciences 300, 306, 307, 324, 336, 498B, 508, 551; Civil Engineering 301, 462, 463; one of the following: Geological Sciences 505, 514, 530, 550, 560, or Civil Engineering 465.

GEOL

### Emphasis in Geochemistry

(SIMS Code: 775335)

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 221; Biology 100 or 101; Chemistry 200, 201, 232, 232L, 251; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L; Statistics 250. (60 units)

**Recommended:** Geological Sciences 205, 307; Chemistry 432, 432L.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units in approved courses to include Geological Sciences 300, 306, 324, 336, 498B, 530, 551; Chemistry 410A-410B, 571; plus three upper division units of departmentally approved courses.

### Emphasis in Geophysics

(SIMS Code: 775346)

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 221; Biology 100 or 101; Chemistry 200, 201; Mathematics 150, 151, and 252; Physics 195, 195L, 196, 196L, 197. Engineering 280 must be taken if students select Engineering 510 in the major. (47 units)

**Recommended:** Geological Sciences 205, Physics 197L, Statistics 250.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 40-43 upper division units in approved courses to include Geological Sciences 300, 306, 307, 324, 498B, 533, and 560; Mathematics 342A and 342B, or Engineering 510; Physics 311, 350; Physics 400A or Electrical Engineering 340; plus three upper division units of approved courses in geological sciences at the 500 level.

### Emphasis in Hydrogeology

(SIMS Code: 775357)

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 205, 221; Biology 100; Chemistry 200, 201; Mathematics 150, 151, 252; Physics 195, 196, 197; Statistics 250. (52 units)

**Recommended:** Physics 195L, 196L, 197L.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units in approved courses to include Geological Sciences 300, 306, 324, 336, 498B, 514, 530, 551; Mathematics 342A-342B, or Chemistry 571; plus four to seven upper division units of departmentally approved courses.

### Emphasis in Marine Geology

(SIMS Code: 775368)

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 205, 221; Biology 100 or 101; Chemistry 200, 201; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L. (52 units)

**Recommended:** Geological Sciences 537. A foreign language.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 40 upper division units in approved courses to include Geological Sciences 300, 306, 307, 324, 336, 498B, 530, 540, 545, and two of the following courses: Geological Sciences 508, 537, Biology 517; plus four upper division units of departmentally approved courses. Recommended: Chemistry 410A-410B for students anticipating postgraduate studies.

### Emphasis in Paleontology

(SIMS Code: 775390)

**Preparation for the Major.** Oceanography 100, or Geological Sciences 100 and 101, or Geological Sciences 104 and 101; Geological Sciences 200, 205, 221; Biology 203, 203L, 204, 204L, 215; Chemistry 200, 201; Mathematics 150 or 121 and 122 (alternative of 121 and 122 should not be selected by students planning academic work beyond the B.S. degree); Physics 180A-180B and 182A-182B. (48-50 units)

**Recommended:** Geological Sciences 307.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 38 upper division units in approved courses to include Geological Sciences 300, 306, 324, 336, 498A, 498B, 508, 537; Biology 352, 354; plus seven upper division units of departmentally approved courses.

## Geological Sciences Minor

(SIMS Code: 775301)

The minor in geological sciences consists of a minimum of 20 units in geological sciences, 12 of which must be in upper division courses. Courses include Oceanography 100 or Geological Sciences 100 and 101, 205; and 12 units selected from Geological Sciences 301, 302, 303, 304, 305, 306, 307, 324, 336, 502, 505, 514, 537; Oceanography 320. In addition, Geological Sciences 200 and 221 are appropriate for geology minors.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Oceanography Minor

For a listing of requirements refer to the section of this catalog on Oceanography.

## Courses (GEOL)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### GEOL 100. Planet Earth (3) [GE]

Earth's global systems. Plate tectonics, earthquakes, and volcanoes; evolution of our planet and life through geologic time; economic resources including fossil fuels and precious minerals; agents of erosion that shape the land.

#### GEOL 101. Dynamics of the Earth Laboratory (1) [GE]

Three hours of laboratory.

**Prerequisite:** Credit or concurrent registration in Geological Sciences 100.

Hands-on experience with land forms, rocks, minerals, topographic maps, and aerial photographs. Includes demonstrations and field trips. Designed to accompany and augment Geological Sciences 100.

#### GEOL 104. Earth Science (3) [GE]

Earth's four principal reservoirs and their interconnectedness: solid earth, ocean, atmosphere, and biosphere. How humanity affects and is affected by these reservoirs. Most appropriate for liberal studies majors.

**GEOL 200. Geologic Inquiry and Problem Solving (3)**

Two lectures and three hours of laboratory

Scientific thought process using real problems addressed by student research in field and laboratory. Includes written report and oral presentation.

**GEOL 205. Historical Geology (4)**

Three lectures and three hours of laboratory. Arrangement for field study during the semester.

Prerequisites: Oceanography 100 or Geological Sciences 100 and 101 or Geological Sciences 101 and 104.

Evolutionary history of earth as traced through rock and fossil records. Stratigraphic and depositional concepts.

**GEOL 221. Mineralogy (4)**

Two lectures and six hours of laboratory.

Prerequisites: Credit or concurrent registration in Geological Sciences 200; Oceanography 100 or Geological Sciences 100 and 101 or Geological Sciences 101 and 104; high school chemistry and trigonometry, or credit or concurrent registration in college chemistry and trigonometry.

Practice in determination of common minerals; their geologic environment, utilization, and economic significance. Introduction to optical techniques in mineral identification.

**GEOL 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**GEOL 300. Computer Applications in Geology (3)**

Two lectures and three hours of laboratory.

Theory and practice of computer-based quantitative analysis in geological sciences to include spreadsheets and statistics, simple programming, vector graphics, visualization and image-processing, and an introduction to Geographic Information Systems.

**GEOL 301. Geology of National Parks and Monuments (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100.

Geology of a group of national parks and monuments, selected for their geological significance, scenic beauty, and visitor popularity. Not acceptable for a major in geological sciences.

**GEOL 302. Fossils: Life Through Time (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100.

Traditional and recently discovered aspects of history of life on earth. Topics from the origin of life to extinctions. Not acceptable for a major in geological sciences.

**GEOL 303. Natural Disasters (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100.

Geologic processes that have dramatically affected the human race: earthquakes, volcanoes, landslides, and floods. Not acceptable for a major in geological sciences.

**GEOL 304. Planetary Geology (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100.

Structure, evolution, and surface features of planets from a geological point of view. Insights gained into origin and evolution of planetary bodies provide greater understanding of how planet earth operates and why it is unique. Not acceptable for a major in geological sciences.

**GEOL 305. Water and the Environment (3) [GE]**

Prerequisites: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning. Recommended: Geological Sciences 100 or Geography 101.

Movement of fresh water on earth. Hydrologic cycling of water from precipitation, runoff, infiltration, stream and groundwater flow to the ocean. Problems caused by over-use of water resources, urbanization, and water pollution examined with case studies. Not acceptable for a major in geological sciences, emphasis in hydrogeology.

**GEOL 306. Structural Geology and Field Methods (5)**

Two lectures and three hours of laboratory and six weekends in the field.

Prerequisites: Geological Sciences 300, 324; algebra, trigonometry and at least high school physics. Highly recommended: First semester college physics.

Integrates structural and introductory field geology. Principles, causes, and mechanisms of rock deformation combined with field study. Graphical, computer, and analytical techniques for working with folds and faults are applied in the field. Field observations are presented in geologic maps, cross sections, and reports.

**GEOL 307. Geophysics and Field Methods (4)**

Two lectures and three hours of laboratory and a minimum of three weekends in field during semester.

Prerequisites: Geological Sciences 306; Mathematics 150; Physics 180A or 195.

Principles and field studies of gravity, magnetic, and seismic techniques applied to structure, dynamics, and shallow environment of the earth. Computer-aided data reduction and interpretation.

**GEOL 324. Petrology (4)**

Two lectures and six hours of laboratory.

Prerequisite: Geological Sciences 221.

Composition, classification, occurrence, and origin of igneous, sedimentary, and metamorphic rocks. Identification of rocks in hand specimen; petrographic analysis of rocks in thin section; modeling and interpretation of petrologic data.

**GEOL 336. Sedimentology and Lithostratigraphy (3)**

Two lectures and three hours of laboratory.

Prerequisites: Geological Sciences 205 (not required but recommended for Emphases in Geochemistry and Geophysics) and 221.

Sedimentologic description and interpretation of the textures and structures of sediments and sedimentary rocks. Stratigraphic analysis of stratal succession, age relationships, and correlation on local and global scales. (Formerly numbered Geological Sciences 536.)

**GEOL 412. Processes and Inquiry in the Earth Sciences (4)**

Three lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Investigation of processes of inquiry and rational thinking skills characteristic of the earth sciences.

**GEOL 496. Selected Topics in Geology (1-4)**

Prerequisite: Consent of instructor.

Selected topics in geology and related earth sciences. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**GEOL 498A. Senior Seminar (1) Cr/NC**

Prerequisite: Senior standing in geological sciences.

Preparation of written and oral scientific reports and attendance at departmental seminars.

**GEOL 498B. Senior Thesis (2)**

Prerequisite: Consent of instructor.

Individual research project, written thesis, and oral presentation done under supervision of professor chosen by student.

**GEOL 499. Special Study (1-4)**

Prerequisites: Acceptable grade average in at least 12 upper division units within the major and consent of staff.

Individual study in field, library, laboratory, or museum work. Maximum credit four units.

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**GEOL 502. Geology of North America (3)**

Prerequisite: Geological Sciences 205.

A regional analysis of North American geology, its structural, stratigraphic, and tectonic patterns, and hypotheses concerning their origin and evolution.

**GEOL 505. Photogeology and Remote Sensing (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geological Sciences 200.

Geologic interpretation of aerial and satellite photographs, elementary stereoscopy and stereometry applied to structural and stratigraphic problems, and compilation of geologic maps from annotated aerial and satellite photographs.

**GEOL 508. Advanced Field Geology (4 or 6)**

One lecture and three hours of laboratory plus 28 days in the field. For the option with six units: two additional weeks of field or laboratory work.

Prerequisite: Geological Sciences 306.

Investigation of individually assigned areas, preparation of geologic maps, geologic sections, and gathering other types of data, e.g., petrologic, geophysical, or paleontologic, as appropriate. Students are responsible for cost of food and transportation. Students must demonstrate the physical ability to adequately and safely perform fieldwork under varying weather conditions; in steep, uneven or rocky terrain; for long periods of time.

**GEOL 514. Process Geomorphology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geological Sciences 306.

Processes shaping and affecting the earth's surface, and application of resultant land forms in interpretation of geologic structure, stratigraphy, and neotectonics.

**GEOL 520. Ore Deposits (3)**

Prerequisite: Geological Sciences 306.

Geologic relations, origin, distribution, and economics of metallic and nonmetallic mineral deposits.

**GEOL 521. Petroleum Geology (3)**

Prerequisite: Geological Sciences 306.

History of petroleum exploration; statistics of energy use; principles of well logging; theories of petroleum generation, migration, and accumulation; exploration and production techniques; case studies of important oil fields.

**GEOL 530. Geochemistry (3)**

Two lectures and three hours of laboratory.

Prerequisites: Geological Sciences 324; Chemistry 201; Mathematics 150.

Fundamental principles of low- and high-temperature geochemistry. Origin of the elements; formation of the solar system; differentiation of the earth; weathering at the earth's surface; chemistry of natural waters. Laboratory methods applied to geological problems.

**GEOL 533. Geophysical Analysis (3)**

Two lectures and three hours of laboratory.

Prerequisites: Geological Sciences 307, Mathematics 252, Physics 197. Recommended: Physics 195L, 196L, 197L.

Analog and digital data collection, processing, modeling and error estimation. Computer-aided examples and field tests from seismics, gravity, magnetics, and electromagnetics including magnetotellurics.

**GEOL 537. Geobiology (3)**

Two lectures and three hours of laboratory.

Prerequisites: Geological Sciences 205 and either Biology 100-100L, 101-101L or 203-203L, and Geological Sciences 336.

Principles of paleontology, including ecology and evolution. Tools of paleontology, including biomechanics, shape analysis, phylogeny, population analysis, study of biogeographic, temporal, and environmental distribution. Focus on using biology to solve geologic problems and vice versa.

**GEOL 540. Marine Geology (3)**

Prerequisites: Geological Sciences 205, and either Geological Sciences 324, 502, 514, or 537.

Plate tectonic origin and history of the ocean basins. Formation and distribution of sediments in response to biologic, chemical, and geologic processes.

**GEOL 545. Descriptive Physical Oceanography (3)**

Prerequisites: Mathematics 121 and 122, or 150; Physics 180A or 195.

Physical environment of oceans including heat, water, and salt budgets, physical properties of sea water, sea ice, air-sea relationships, effects of light and sound, distribution of temperature, salinity, density, surface current, deep circulation, water mass formation, instruments and methods of study.

**GEOL 550. Engineering Geology (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geological Sciences 306.

Relationships between geologic processes and works of humans. Topics include rock and soil mechanics, ground water flow, slope stability, seismicity, land subsidence, and evaluation of geologic materials with respect to dam sites, tunnel alignments, and building foundations.

**GEOL 551. Hydrogeology (3)**

Two lectures and three hours of laboratory.

Prerequisites: Geological Sciences 306 and Mathematics 150.

Theory of ground water flow. Exploration for and development of the ground water resource. Aquifer tests, water quality, and water resource management. Occurrence of water in alluvial, sedimentary, volcanic, plutonic, and metamorphic terrains.

**GEOL 560. Earthquake Seismology (3)**

Two lectures and three hours of laboratory.

Prerequisites: Mathematics 252, Physics 197. Recommended: Mathematics 342A.

Theory of seismic wave excitation, propagation, and recording. Methods of seismogram interpretation and analysis. Applications to tectonics and earthquake hazard analysis.

**GEOL 580. Seismic Interpretation and 3D Visualization (3)**

Two lectures and three hours of laboratory.

Prerequisite: Geological Sciences 306.

Computer-based seismic interpretation, mapping, and modeling in both 2D and 3D. Overview of basic seismic processing. Emphasis on industrial applications, both petroleum and shallow geotechnical.

**GEOL 596. Advanced Topics in Geology (1-4)**

Prerequisite: Consent of instructor.

Advanced special topics in the geological sciences. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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**GRADUATE COURSES**  
**Refer to the Graduate Bulletin.**

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# German

In the Department of European Studies  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 304  
**TELEPHONE:** 619-594-6313 / **FAX:** 619-594-8006  
**E-MAIL:** [german.coord@sdsu.edu](mailto:german.coord@sdsu.edu)  
**<http://www-rohan.sdsu.edu/~berlin>**

## Faculty

Emeritus: Boney, Lawson, Paulin, Wulbern  
Chair: Benkov  
Professor: Skwara  
Associate Professor: Wauchope  
Assistant Professor: Rebien  
Lecturer: Guzman

## Offered by the Department of European Studies

Major in German with the B.A. degree in liberal arts and sciences.  
Emphasis in German studies.

Major in European studies with emphasis in German.  
**See** European Studies.

Major in international business, with emphasis in German.  
**See** International Business.  
Minor in German.

## The Major

The German language is widely spoken in many countries today. It is also a primary language of scholarship in such diverse fields as chemistry, medicine, military science, history, linguistics, art, physics, electronics, photography, and the natural sciences.

Students who major in German will gain proficiency in German language skills, and the department offers a broad variety of courses designed to prepare majors for a number of careers after graduation. A major in German is also a good preparatory curriculum for graduate programs in such areas as international trade, international law, librarianship, public administration, and journalism.

A knowledge of German is a valuable asset in finding positions as interpreters and translators employed by the federal government, the United Nations, international conferences, trade councils, and publishers, as well as with internationally oriented companies, government agencies, the press corps, and the tourism industry.

The German major with an emphasis in German studies offers extensive preparation in the German language while providing students with a broad, interdisciplinary understanding of the history, culture, and society of the countries of Central Europe where German is spoken. This emphasis provides excellent preparation for careers as area specialists for private businesses and agencies or for positions at international organizations, with the federal government, or in cultural institutions.

Students majoring in German are strongly encouraged to participate in California State University International Programs (CSU-IP) and other approved study abroad programs in German-speaking countries. Students also have the option of pursuing a double major in another language area study.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## German Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 11031) (SIMS Code: 113101)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in German courses can apply to the degree.

Students majoring in German must complete a minor in another field to be approved by the departmental adviser in German.

**Preparation for the Major.** German 100A, 100B, 202, 205A, 205B. (21 units)

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All German majors are required to complete an approved study abroad program in a German-speaking country consisting of a minimum of six units (90 hours). However, German majors are strongly encouraged to complete a more extensive abroad experience by participating in a semester or an academic year program. To fulfill the International Experience Requirement, German majors must enroll in a study abroad program approved by the department. Unapproved study abroad programs will not meet the international experience requirement for the major.

**Major.** A minimum of 27 upper division units to include German 300, 301, 304, 400, 430, and 12 units in upper division German. No more than one German course taught in English can apply to the major.

### Emphasis in German Studies (SIMS Code: 113120)

No minor is required with this emphasis.

**Preparation for the Major.** German 100A, 100B, 150, 202, 205A and 205B. (24 units)

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units to include German 300, 301, and 410 or 411; six units of electives in German; 12 units (no more than six units in any one department) selected from Art 558, Economics 330, European Studies 527, Geography 336, History 440, 517, Humanities 320, 404, Philosophy 414, Political Science 356; and three units of electives selected with approval of department adviser.

GERMN



## German Minor

(SIMS Code: 113101)

The minor in German consists of a minimum of 15 units taught in German, nine units of which must be in upper division German courses. Any course taught in English needs department approval to apply to the minor requirements.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of German to fulfill the language requirement for the bachelor of arts degree in liberal arts and sciences must successfully complete German 202 or 205A or 205B or the equivalent level of achievement. The usual sequence of coursework is German 100A, 100B, 202, 205A, and 205B. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (GERMN)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Native speakers of German will not receive credit for taking lower division courses in German except with advance approval from the department.**

**All lower division courses in German are taught in German unless otherwise stated.**

**No credit will be given for lower division courses taken after successfully completing any upper division German course taught in German.**

**No credit will be given for German 100A, 100B, 205A, 205B taken out of sequence. German 202 may be taken concurrently with German 205A or 205B.**

#### GERMN 100A. First Course in German (5) [GE]

Pronunciation, oral practice, readings on German culture and civilization, minimum essentials of grammar. Not open to students who have completed three years of high school German unless the third course was completed five or more years ago.

#### GERMN 100B. Second Course in German (5) [GE]

Prerequisite: German 100A or two years of high school German.

Continuation of German 100A. Not open to students who have completed four years of high school German unless the fourth course was completed five or more years ago.

#### GERMN 150. Introduction to German Studies (3) [GE]

Introduction to field of German studies with emphasis on cultural life of German-speaking communities and their impact worldwide on major artistic, intellectual, and cultural movements. Taught in English.

#### GERMN 202. Readings in German (3) [GE]

Prerequisite: German 100B.

Reading comprehension through intermediate-level cultural materials. Not open to students who have completed five years of high school German unless the fifth year was completed five or more years ago. May be taken concurrently with German 205A or 205B.

#### GERMN 205A. Third Course in German (4) [GE]

Four lectures and one hour of laboratory.

Prerequisite: German 100B or three years of high school German.

Continuation of German 100B. Practice of all language skills at intermediate level. Not open to students who have completed five years of high school German unless the fifth year was completed five or more years ago.

#### GERMN 205B. Fourth Course in German (4) [GE]

Four lectures and one hour of laboratory.

Prerequisite: German 205A.

Continuation of German 205A. Practice of all language skills at intermediate level.

#### GERMN 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in German are taught in German unless otherwise stated.**

#### GERMN 300. Readings in Contemporary German Culture (3) [GE]

Prerequisites: German 202, 205B, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Development of advanced proficiency in reading comprehension and oral communication through use of cultural materials. Not open to students who hold a degree from a secondary or post-secondary school in which the primary language of instruction is German.

#### GERMN 301. Grammar and Composition (3) [GE]

Prerequisites: German 202, 205B, and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. **Proof of completion of prerequisites required:** Copy of transcript.

Grammar and stylistics; intensive writing practice; reports based on outside reading. Not open to students who hold a degree from a secondary or post-secondary school in which the primary language of instruction is German.

#### GERMN 304. Phonetics of Spoken German (3)

Three lectures and one hour of laboratory.

Prerequisites: German 202 and 205B.

Sounds and intonation of German.

#### GERMN 320. German Film (3) [GE]

Two lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Masterpieces of German film. Emphasis on social, political, and cultural changes in modern Germany. Taught in English.

#### GERMN 340. German Linguistics (3)

Prerequisite: German 301.

German linguistics with focus on varieties of German language to include: history of German, phonetics, phonology, syntax, morphology, semantics, pragmatics, applied linguistics and sociolinguistics.

**GERMN 400. German Studies Through the Media (3)**

Prerequisite: German 300 or 301.

Society and institutions of German-speaking regions through spoken and written texts from the media. Emphasis on topics of importance for business, communications, and German area studies.

**GERMN 410. German Studies I (3)**

Prerequisites: German 202 and 205B.

Methods of German studies as applied to study of culture of German-speaking communities from Middle Ages to beginning of second empire, while building on advanced German language skills.

**GERMN 411. German Studies II (3)**

Prerequisites: German 202 and 205B.

Methods of German studies as applied to study of culture of German-speaking communities from second German empire through German reunification, while building on advanced language skills.

**GERMN 430. German Civilization (3)**

Prerequisites: German 202 and 205B.

Artistic, intellectual, and cultural movements of the German-speaking regions, while building on advanced language skills. May be repeated with new title and content. Maximum credit six units.

**GERMN 495. German Internship (3) Cr/NC**

Prerequisites: Upper division standing in major and consent of instructor.

Practical work experience in a field related to German studies. Work done under joint direction of activity sponsor and instructor. Approved international internships may count towards international experience requirement for major.

**GERMN 496. Experimental Topics (1-4)**

Prerequisite: German 300 (for literary topics) or 301 (for linguistics topics).

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**GERMN 499. Special Study (1-3)**

Prerequisites: Fifteen upper division units in the major with an average of B (3.0) or better and consent of instructor. **Proof of completion of prerequisites required:** Copy of transcript.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

**GERMN 501. Translation (3)**

Prerequisites: German 300 and 301.

Translation of a variety of texts from German to English and English to German.

**GERMN 520. Modern German Literature (3)**

Prerequisites: German 300 and 301.

Major authors and genres since Enlightenment.

**GERMN 575. Seminar in German Studies (3)**

Prerequisite: Two upper division German courses.

Directed research on topics in German studies. See *Class Schedule* for specific content. May be repeated with new title and content. Maximum credit six units.

**GERMN 596. Topics in German Studies (3)**

Prerequisites: German 300 and 301. **Proof of completion of prerequisite required:** Copy of transcript.

Topics in German language, literature, or linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

GERMN

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# Gerontology

In the College of Health and Human Services

**OFFICE:** Hepner Hall 203

**TELEPHONE:** 619-594-6765 / **FAX:** 619-594-2811

## Faculty

Emeritus: DuBois, Stanford

Chair: Garrett

Professor: Garrett

Lecturers: Anguera, Beach, Yaghmaee

## Offered by the Department

Master of Science degree in gerontology.

Major in gerontology with the B.A degree in liberal arts and sciences.

Minor in gerontology.

Certificate in applied gerontology (offered only in Extension).

## The Major

Gerontology concerns itself with the study and application of knowledge about the physical, social, and economic conditions of older people. Since the process of aging touches all aspects of human activity, gerontology is multidisciplinary in nature. Gerontology is becoming a major area of research in the biological, behavioral, and social sciences.

Every day there is a net increase of 1,000 Americans 65 years of age and over. This is an increase of more than 3,500,000 elderly persons per year. With this striking increase has come a growing need for more trained professionals to apply new knowledge about the elderly. Such knowledge is needed for planning and developing programs and services which improve the quality of life for older Americans.

Gerontological training and research is an important link in meeting the social, physical, and psychological needs of the elderly. Students of gerontology benefit through the personal understanding of their own aging process. Those wishing to pursue careers in aging will find many exciting opportunities for serving the elderly in a variety of settings.

One of the primary goals of the gerontology program is to provide students with a broad base for comprehensive understanding of the impact of society's changing demographics on every aspect of their social and work lives. It is through research, teaching, and community involvement that faculty members from numerous disciplines provide for the intellectual development of students, the enhancement of community programs, and the assurance of a better quality of life for older people in the community, the state, and the nation.

## Advising

All College of Health and Human Services majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Gerontology Major

**With the B.A Degree in Liberal Arts and Sciences**

**(Major Code: 21043) (SIMS Code: 551902)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in gerontology courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Gerontology 101, 250; Biology 100; Child and Family Development 135; Public Health 101; Psychology 101; and Social Work 110. (21 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of the catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All gerontology majors are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found at <http://www.chhs.sdsu.edu/international>.

**Major.** A minimum of 36 upper division units to include Gerontology 350, 360, 370, 400A, 400B, 402, 520, 522; and 12 units selected with approval of the adviser from Child and Family Development 335; Gerontology 496, 499, and 596 (when appropriate); Exercise and Nutritional Sciences 433; Psychology 456; Social Work 420\*.

\* Prerequisites waived.

## Gerontology Minor

**(SIMS Code: 551901)**

The minor in gerontology consists of a minimum of 18 units selected from Gerontology 101, 350, 360, 370, 400A, 400B, 402, 499, 522, 596; Child and Family Development 496\*; Exercise and Nutritional Sciences 433; Social Work 120, 420; Sociology 496\*.

Additional prerequisites may be required for the courses in the minor.

Courses in the minor may not be counted toward the major or the certificate, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*When relevant.

## Certificate in Applied Gerontology

(Offered only in Extension)

(Certificate Code: 90023) (SIMS Code: 551903)

This program is designed for persons working in the field of aging as well as those interested in obtaining employment in the aging field. Completion of the certificate program will enable participants to assume greater responsibility by broadening their knowledge of and skill in this specialty area. More specifically, the program is designed to provide the following:

1. A broad knowledge base in the bio-psycho-social aspects of aging.
2. Practical knowledge and skills in the application of this information towards services for older people.
3. Knowledge of government programs and program planning and evaluation techniques.
4. Knowledge of programs and services operating in local areas as well as gaps which exist in local programming.
5. Knowledge and skills needed to function in an advocacy capacity to improve services to the elderly.

### Certificate Requirements:

1. Complete 18 semester units of coursework with a grade point average of 2.0 or better.
2. Complete coursework within four years after admission to the program.
3. Petition the College of Extended Studies for the certificate upon completion of 18 semester units.

To be admitted to the program, students are expected to show by previous coursework and/or experience some evidence of potential for completing the academic program. Previous courses in gerontology taken at SDSU or at other universities will be considered for credit toward certification on an individual basis, but not to exceed nine units.

The Department of Gerontology is responsible for the coordination of the certificate program in conjunction with the College of Extended Studies. Admission applications may be obtained from the College of Extended Studies. Applications may be submitted prior to entering the program or before the completion of nine semester units of coursework.

Students are required to submit an Open University Registration Form each semester to the College of Extended Studies.

Students accepted into the program will be assigned an adviser by the Department of Gerontology.

### Required Courses for the Certificate Program

A minimum of 12 semester units must be selected from the following areas inclusive of the practicum:

#### I. Introduction to Gerontology

Gerontology 101. Introduction to Human Aging (3)

#### II. Psychological Aspects of Aging

Psychology 350. Abnormal Psychology (3)

#### III. Sociological Aspects of Aging

Gerontology 250. Intergenerational Issues and the Elderly (3)

Gerontology 350. Social Policy and Aging (3)

#### IV. Practicum

Gerontology 400A or 400B. Practicum in Gerontology (3) (Cr/NC)

#### Elective Courses

A minimum of six semester units selected from the following:

Gerontology 360. Diversity and Aging (3)

Gerontology 370. Images of Aging in Contemporary Society (3)

Gerontology 402. The Aging Network (3)

Gerontology 499. Special Study (1-3)

Gerontology 520. An Inside Look at Aging Programs—Program Analysis (3)

Gerontology 596. Advanced Special Topics in Gerontology (1-4)

Women's Studies 310. Women in Cross-Cultural Perspective (3)

## Courses (GERO)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### GERO 101. Introduction to Human Aging (3) [GE]

Overview of field of gerontology, including demographic trends, basic theories, concepts and philosophic ideas, social policies, planning issues, and services available to meet needs and problems of older adults.

#### GERO 250. Intergenerational Issues and the Elderly (3)

Controversial issues surrounding interpersonal relations between older adults and other age groups.

#### GERO 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

GERO

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### GERO 350. Social Policy and Aging (3)

Prerequisite: Gerontology 101.

Policy development process including analyses, evaluation, and advocacy. Social controversies about aging of populations. Review of U. S. Social Security and Medicare. Analysis of Older Americans Act.

#### GERO 360. Diversity and Aging (3) [GE]

Prerequisite: Gerontology 101 or completion of the General Education requirement in Foundations of Learning IIB, Social and Behavioral Sciences required for nonmajors.

Attitudes and cultural values related to aging members of ethnic and minority groups. Influences of class, gender, sexual orientation, economic resources and health on aging process.

#### GERO 370. Images of Aging in Contemporary Society (3) [GE]

Prerequisite: Gerontology 101 or completion of the General Education requirement in Foundations of Learning IIB, Social and Behavioral Sciences required for nonmajors.

Impact of current cultural attitudes and values on images of older persons. Influence of media and advertising in creating views and perceptions of aging. Major myths and stereotypes.

#### GERO 400A-400B. Practicum in Gerontology (3-3) Cr/NC

Two hundred hours of internship.

Prerequisites: Gerontology 350, 360, 370.

Integration of theoretical background and practical experience in providing services to elderly. Fieldwork and observation in settings providing services to the elderly. Direct experience in aging projects relevant to their field of interest.

#### GERO 402. Aging Network (3)

Prerequisite: Three units in gerontology.

Networks, programs, and services available to older adults in communities. Effectiveness of programs that assist older adults to age successfully.

#### GERO 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### GERO 499. Special Study (1-3)

Prerequisite: Consent of department chair.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**GERO 520. Analysis of Programs for the Aging (3)**

Prerequisite: One upper division course in gerontology.

Major programs in aging that support daily functioning of elderly. Effectiveness of programs in serving today's elderly with attention to ethnic and cross-cultural variations.

**GERO 522. International Issues on Aging (3)**

Prerequisite: Three units in gerontology.

Socio-economic implications of rapidly growing number and proportion of older people around the world. Comparative study of aging populations in different countries, analysis and evaluation of related policies and programs.

**GERO 596. Advanced Special Topics in Gerontology (1-4)**

Advanced selected topics in gerontology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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**Greek** – Refer to “Classics” in this section of the catalog.  
**Health Science** – Refer to “Public Health” in this section of the catalog.

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# Health and Human Services

Offered by the College of Health and Human Services

**OFFICE:** Education 154  
**TELEPHONE:** 619-594-6151  
**FAX:** 619-594-7103  
**<http://chhs.sdsu.edu>**

## International Experience

In recognition of the SDSU Shared Vision goal of a global university and increasing globalization in all sectors of the world and within societies, the College of Health and Human Services international experience for undergraduate students has been established. All College of Health and Human Services majors (excluding Accelerated Bachelor of Science in Nursing) are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (accommodation requests for exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details regarding the nature of the College of Health and Human Services and other campus-sponsored international experiences can be found on the college Web site at [www.chhs.sdsu.edu/international](http://www.chhs.sdsu.edu/international).

## Courses (HHS)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### HHS 280. Health Education for Teachers (1)

Prerequisite: For multiple or single subject teacher candidates. Topics designated in health framework for California; infusing health topics in the K-12 general curriculum.

#### HHS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

HHS

### UPPER DIVISION COURSE (Intended for Undergraduates)

#### HHS 350. Applied International Health and Human Services (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B. Social and Behavioral Sciences.

Examine economic, political, cultural, environmental, health and human services challenges, and variations with respect to disease, mental health, and poverty in a designated non-Western region or country in Asia, Africa, Central and South America.

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# Hebrew

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 334  
**TELEPHONE:** 619-594-5268 / **FAX:** 619-594-4877  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Emeritus: Bar-Lev  
Chair: Osman

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Courses in Hebrew.

Major or minor work in Hebrew is not offered.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Hebrew to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Hebrew 201 or the equivalent level of achievement. The usual sequence of coursework is Hebrew 101 (with 100), 102, 200, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

Students who speak a little Hebrew (whether from formal studies or from other sources, such as parents or residence in Israel) should consult faculty for correct placement before classes begin.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (HEBRW)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**All lower division courses in Hebrew are taught in Hebrew.**

**No credit will be given for Hebrew 101, 102, 201 taken out of sequence.**

#### HEBRW 100. Hebrew Alphabet (1)

Study of Hebrew alphabet; practice with reading and comprehending whole texts (without vowels), as well as pronouncing. Intended for students of Hebrew 101 who have not previously studied the alphabet. May also be taken without Hebrew 101. Does not satisfy language requirement.

#### HEBRW 101. Elementary Hebrew I (3) [GE]

Three lectures and one hour of laboratory.

Beginning reading, writing, and conversational skills. Essentials of grammar. First course in Hebrew, intended for those without prior knowledge of Hebrew. Students who speak some Hebrew should consult with the faculty for correct placement before classes begin. Not open to students who have completed three years of high school Hebrew unless the third course was completed five or more years ago.

#### HEBRW 102. Elementary Hebrew II (3) [GE]

Three lectures and one hour of laboratory.

Prerequisite: Hebrew 101.

Continuation of Hebrew 101. Not open to students who have completed four years of high school Hebrew unless the fourth course was completed five or more years ago.

#### HEBRW 200. Reading Classical Hebrew (1)

Prerequisite: Knowledge of the Hebrew alphabet.

Continuation of Hebrew 100. Reading in Hebrew of short selections from Hebrew Bible and Prayerbook, study of songs, reading of simple stories. Focus on learning Hebrew roots and affixes through readings. Does not satisfy language graduation requirement.

#### HEBRW 201. Intermediate Hebrew (4) [GE]

Four lectures and one hour of laboratory.

Prerequisites: Hebrew 102 and 200.

Continuation of Hebrew 102. Applications of grammar and reading skills. Additional practice in conversation.

#### HEBRW 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Hebrew are taught in Hebrew unless otherwise stated.**

#### HEBRW 330. Hebrew Discourse and Literature (3) [GE]

Prerequisites: Hebrew 201 and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Varieties of Hebrew discourse, including different types of modern discourse, and selected highlights of Hebrew literature throughout the ages, to be read in Hebrew. Use of variety of language modalities, including film, drama, translation, and student reports.

#### HEBRW 471. Kabbalah as a Symbolic System (3) [GE]

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C. Humanities.

Concepts of kabbalah in English to include Tree of life and sphiroth; masculine and feminine aspects, sex and sexuality; alef-bet of Creation and "meanings" of Hebrew letters. Taught in English. Not open to students with credit in Hebrew 470.

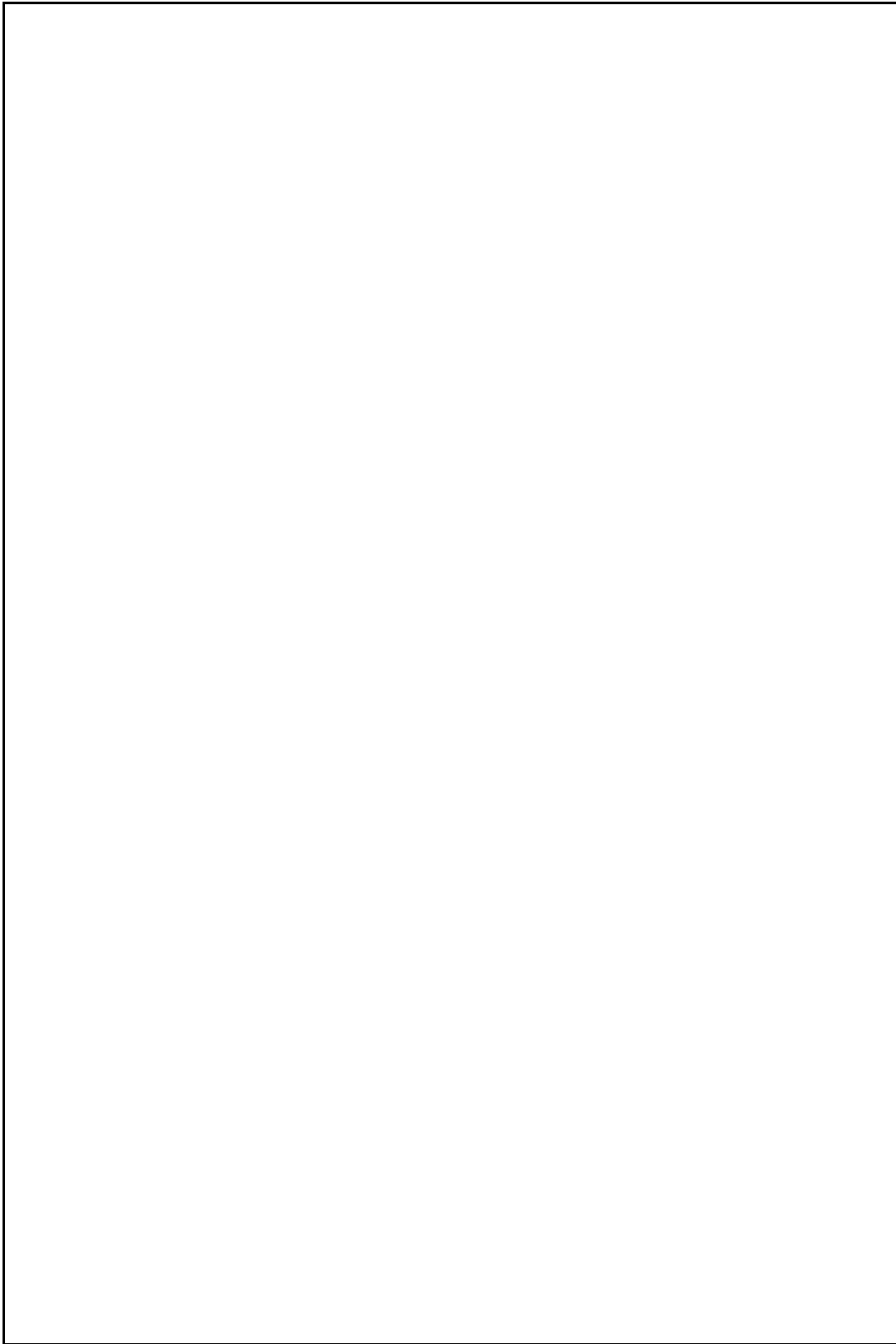
#### HEBRW 496. Topics in Hebraic Studies (1-4)

Topics in Hebraic language, literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units. May be taught in English.

#### HEBRW 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units. May be taught in English.





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# History

In the College of Arts and Letters

**OFFICE: Arts and Letters 588**

**TELEPHONE: 619-594-5262 / FAX: 619-594-2210**

**<http://www-rohan.sdsu.edu/dept/histweb/dept.html>**

## Faculty

Emeritus: Bartholomew, Jr., Cheek, Christian, Chu, Cox, Cunniff, Davies, DuFault, Dunn, Filner, Flemion, Hamilton, Hanchett, Heinrichs, Heyman, Hoidal, Kushner, McDean, Norman, O'Brien, Peterson, Polich, Schatz, Smith, C., Smith, R., Starr, Stites, Stoddart, Strong, Vanderwood, Vartanian, Webb

Chair: Ferraro

The Dwight E. Stanford Chair in American Foreign Relations:

Cobbs Hoffman

The Nasatir Professor of Modern Jewish History: Baron

Professors: Baron, Cobbs Hoffman, Ferraro, Kornfeld, Kuefler, Wiese

Associate Professors: Beasley, Blum, Colston, DeVos, Edgerton-

Tarpley, Elkind, Passananti, Pollard, Putman, Yeh

Assistant Professors: Abalahin, Campbell, Penrose

Lecturers: Crawford, DiBella, Frey, Guthrie, Hay, Kenway,

Mahdavi-Izadi, Nobiletti, Roy, White, Ysursa

## Offered by the Department

Master of Arts degree in history.

Major in history with the B.A. degree in liberal arts and sciences.

Minor in history.

## The Dwight E. Stanford Chair in American Foreign Relations

A gift from alumnus Dwight E. Stanford, who earned a bachelor's degree in American history in 1936 from San Diego State College (now SDSU), established The Dwight E. Stanford Chair in American Foreign Relations. The holder of the Chair is Elizabeth Cobbs Hoffman, a distinguished scholar-teacher who is an expert on economic and political relations between the United States and the Third World, and on the history of the Cold War.

## The Nasatir Professor of Modern Jewish History

The Nasatir Professorship was established in honor of the late Professor Abraham Nasatir, a specialist in European colonial history in North America. Nasatir taught history at SDSU for 46 years and was active in the community as an advocate of Jewish education. The Professorship is now held by Lawrence Baron, a distinguished scholar of European intellectual history and Holocaust studies.

## The Major

History is the study of humanity's recorded past, encompassing almost all aspects of human activity and behavior. The arts, sciences, technology, economics, politics, war, ideology, and social attitudes all constitute the subject of history.

The purpose of history education is not primarily the accumulation of information on particular events, regions, or cultures, but rather the development of knowledge and skills to collect and sift historical evidence, analyze and interpret historical behavior, and apply historical understanding to self-transformation and civic participation. Study of the ideas, attitudes, and actions of people in the past sharpens a person's own sense of values, provides a context for present decision making, and cultivates a more compassionate spirit toward peoples whose way of life may be different from one's own.

The training in basic skills and the broad range of knowledge students receive in history courses prepare history majors for a wide variety of careers in law, government, politics, journalism, publishing, private charities and foundations, public history, business, and science. Teaching at the primary to university levels also offers opportunity for history majors who continue their education at the graduate level.

## Impacted Program

The history major is an impacted program. To be admitted to the history major, students must meet the following criteria:

- Complete with a minimum GPA of 2.20 and a grade of C or higher: History 100, 101, and six units selected from History 105, 106, 109, or 110. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## History Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22051) (SIMS Code: 113301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in history courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** History 100, 101, and six units selected from History 105, 106, 109, 110. (12 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 2.20 and a grade of C or higher in each class.

**Language Requirement.** Students will be required to successfully complete the third college semester or fifth college quarter or four years of high school in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking History 400W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in history to include History 400W; three units from History 450W, 451, or 452. In addition, 24 upper division units in history must be completed from the following fields:

**Field (a). Thematic, Comparative, and Interdisciplinary History:** Nine units selected from History 402, 406, 422, 435, 436, 440, 441, 442, 470, 486, 488, 495, 496, 499, 500, 516, 527, 538, 548, 581, 582, 583, 584, 596.

**Field (b). The Ancient Through Early Modern World:** Six units selected from History 407, 409, 411, 413, 415, 420, 473, 496, 499, 501, 502, 503, 504, 505, 506, 507, 513, 528, 530, 532, 550, 563, 566.

**Field (c). The Modern World:** Nine units selected from History 408, 410, 412, 416, 418, 421, 423, 445, 474, 496, 499, 509, 512A, 512B, 515, 517, 533, 534, 535, 536, 539, 540, 543, 544A, 544B, 545, 551, 552, 558, 564, 567, 570, 574, 585.

At least 15 upper division units must be at the 500-level. Up to six units from other departments may be applied to the history major upon written approval of the undergraduate adviser. Up to six units of study abroad history courses may be applied to the history major upon prior written approval of the undergraduate adviser. It is the student's obligation to determine which courses fulfill his/her field requirements.

## History Minor

(SIMS Code: 113301)

The minor in history consists of a minimum of 18 units in history to include six sequential units in the lower division. Twelve units must be in upper division history, including three units at the 500-level, distributed in no more than two of the fields listed under the history major.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## History Honors Thesis

The department offers undergraduates of superior achievement the opportunity to write a history honors thesis leading to special recognition upon graduation. History 490, Senior Honors Thesis, is open to students who rank in the top 20 percent of senior history majors and who have successfully completed History 400W. Interested students should consult the honors thesis adviser in the Department of History.

## Courses (HIST)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### HIST 100. World History (3) [GE]

Growth of civilizations and interrelationships of peoples of Europe, Asia, Africa, and the Americas to 1500.

#### HIST 101. World History (3) [GE]

Modern history from a global perspective, 1500 to present.

#### HIST 105. Western Civilization to the Seventeenth Century (3) [GE]

Development of Mediterranean and European cultures, thought, and institutions from ancient times to the seventeenth century.

#### HIST 106. Western Civilization Since the Sixteenth Century (3) [GE]

Development of European cultures, thought, and institutions from sixteenth century to present.

#### HIST 109. American History to Reconstruction (3) [AI]

United States history from pre-colonial societies to Reconstruction. Contact of cultures, patterns of settlement, contests over racial, ethnic, religious, class, gender, regional, and national identities and institutions. Satisfies the American Institutions requirement in American history and United States Constitution.

#### HIST 110. American History Since the Civil War (3) [AI]

United States history since the Civil War. Development of U.S. economy, urbanization, social and cultural change, emergence of U.S. as a world power, struggles over American identities and institutions. Satisfies the American Institutions requirement in American history and California government.

#### HIST 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### HIST 299. Special Study (3)

Prerequisites: Consent of department chair and instructor.  
Individual study.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### HIST 400W. Historian's Craft (3)

Prerequisites: Twelve units in history including History 100, 101, and six units selected from History 105, 106, 109, 110. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); be a declared history major; and completed General Education requirements in Composition and Critical Thinking.

**Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Theory and practice of history through writing. Historical theory, use of evidence, research methods, bibliography, historiography, and historical interpretation in some field of history.

#### HIST 450W. The Writing of History (3)

Prerequisites: History 400W with a grade of C (2.0) or better and a minimum of 15 upper division units in history. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Historical methods and research in selected aspects of history. Includes a major research paper based on primary sources.

#### HIST 451. Historians and the Public (3)

Prerequisites: History 400W with a Grade of C (2.0) or better and a minimum of 15 upper division units in history.

Analysis and practice of ways historians preserve, research, and interpret the past for public audiences. Topics include historic preservation projects, parks, museums, archives, and living history programs. Includes a major analytical essay or public history project.

#### HIST 452. Advanced Internship in Applied History (3)

Prerequisites: History 400W with a Grade of C (2.0) or better and a minimum of 15 upper division units in history.

Campus and community archives, museums, government, and other historical agencies. Emphasis on critical analysis, writing, and historiography.

#### HIST 490. Senior Honors Thesis (3)

Prerequisites: History 400W; open to history majors with senior standing and permission of the honors thesis adviser.

Directed research on a historical topic chosen in consultation with the honors thesis adviser, and completion of a senior honors thesis. Required of students wishing to graduate with a certificate of recognition in history.

#### HIST 499. Special Study (1-3)

Prerequisites: Consent of department chair and instructor.  
Individual study. Maximum credit six units.

HIST

**Field (a). Thematic, Comparative, and Interdisciplinary History**

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**HIST 402. History of Childhood (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Comparative perspective on the history of infancy and early childhood; childrearing theories and practices; adolescence; education; play; work in slavery, servitude, apprenticeship, and families; immigration and migration; domestic violence and family law; and construction of gender and identity.

**HIST 406. History of Sexuality (3) [GE]**

Prerequisites: Upper division standing and completion of General Education requirements in Foundations of Learning II.C. Humanities required for nonmajors.

Comparative and historical approach to changing conceptions of the body, regulation of sexual practices, and emergence of sexual identities. Historical perspectives on body parts, sexual practices, and sexual celebrities invested with social and political significance.

**HIST 422. Asian American Experiences (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Experiences of Asian/Pacific Islander Americans to include immigration, colonialism, imperialism, exclusion, citizenship, labor, family, community, gender, popular culture, refugees, multi-racial tensions, globalization, and resistance.

**HIST 435. History Through Film (3)**

Critical analysis of selected historical problems, eras, and events, using film as the principal historical document. See *Class Schedule* for specific content. Maximum credit six units.

**HIST 436. Modern Jewish History in Feature Films (3) [GE]**

Two lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Representations of twentieth-century Jewish history in feature films. Topics include persecutions of Jews in Czarist Russia and Nazi occupied Europe, social mobility in the United States and national sovereignty in Israel.

**HIST 440. The Holocaust and Western Civilization (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

German campaign to eliminate Jews during World War II. Anti-Semitic background, both Christian and racial; rise of Adolf Hitler and implementation of "the final solution"; responses by Jews and non-Jews in the Western world.

**HIST 441. Unnatural Disasters: History of Current Environmental Problems (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Comparative and historical study of current environmental problems in San Diego and the world. Considers the role of religious beliefs, social values, economic practices, and political systems in shaping past attitudes, policies, and behavior toward the environment. International in scope.

**HIST 442. People From Our Past (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Biographical approach to history through lives of prominent and ordinary individuals. Topics may include war, community, dissent, individualism, leadership, politics, culture, religion, gender, race, and ethnic identities. Specific content may vary. (Formerly numbered History 442A.)

**HIST 470. Topics in World History (3)**

Prerequisite: Upper division standing.

Major historical problems, themes, or topics from global chronological and geographical perspectives of world history to include frontiers, food and famine, violence and warfare, science, religion and magic, the Atlantic world, medieval era. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 486. World War II (3)**

Causes of World War II, its course, and its legacy for today's world.

**HIST 488. Modern Jewish History (3) [GE]**

Prerequisites: Upper division standing and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Social, religious, and intellectual life of European Jewry from Middle Ages to present; political struggle for emancipation; anti-Semitism, the Holocaust, and establishment of state of Israel.

**HIST 495. Internship in Applied History (3)**

Prerequisite: Nine units in history. History 451 for some students (see instructor).

Supervised field placement of students in campus and community archives, historical museums, and other historical agencies. Practical experiences related to studies within history curriculum.

**HIST 496. Issues in History (1-4)**

Examination of selected problems and current issues in history. May be repeated with change of content. Maximum credit six units with change of content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Refer to *Class Schedule* for specific content.

- A. Thematic, Comparative, and Interdisciplinary History
- B. The Ancient Through Early Modern World
- C. The Modern World

**HIST 499. Special Study (1-3)**

Prerequisites: Consent of department chair and instructor. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**HIST 500. Topics in Ancient History (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in ancient history throughout the world may include: Women in Greek and Roman societies, magic in the Greco-Roman World, Silk Roads, and pre-contact Mesoamerica. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 516. Imperialism and the Colonial Experience (3)**

Prerequisite: Upper division or graduate standing.

Imperialism and colonialism as these transformed both colonizing and colonized peoples, e.g., modernization, racism, Orientalism, multi-ethnic, Great Power competition, anti-colonial resistance, and nationalism.

**HIST 527. The Holocaust in Feature Films (3)  
(Same course as European Studies 527)**

Two lectures and two hours of activity.

Prerequisite: Upper division or graduate standing.

Depiction of the Nazi policy of destroying European Jewry and its impact on the perpetrators, bystanders, victims, and the post-war world in feature films.

**HIST 538. American Religious History (3)**

Prerequisite: Upper division or graduate standing.

Religious ideas, leaders, movements, institutions, and ideologies throughout United States history. Religious change over time and connections between religion and colonialism, nationalism, politics, race, class, gender, sexuality, war, diversity, justice, and material culture.

**HIST 548. Race and Ethnicity in United States History (3)**

Prerequisite: Upper division or graduate standing.

Race and ethnicity in America from colonial period through twentieth century to include historical construction of identity; colonization, slavery, state formation; labor, immigration, politics of whiteness; applicability of black/white binary of a multi-ethnic society.

**HIST 581. Topics in Urban History (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in urban history may include: The city in United States history, Chinatowns, suburbs and suburbanization, urban politics. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 582. Topics in Social and Cultural History (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in social and cultural history may include: Ritual in early modern Europe, radicals and revolutionaries, intellectuals and society, families in former times, and American popular culture. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 583. Topics in History of Gender and Sexuality (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in history of gender and sexuality may include: Gay and Lesbian history, Asian American gender and sexuality, genders in Latin America. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 584. Topics in Environmental History (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in environmental history may include: Press, politics, environment, world environmental history, water and society. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**HIST 596. Selected Studies in History (1-4)**

Topics in various fields of history, such as biography, war, science, technology, urbanization, minority groups, immigration, and capitalism. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**Field (b). The Ancient Through Early Modern World****UPPER DIVISION COURSES  
(Intended for Undergraduates)****HIST 407. Early Modern Europe (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Early modern Europe from Renaissance to French Revolution. Social, cultural, economic, political, and intellectual trends, development of nation-states, and sources of continental conflict.

**HIST 409. United States History for Teachers (3) [AI]**

Prerequisites: Upper division standing and Writing Placement Assessment with a score of 8 or above or grade of C or better in Linguistics 281 or Rhetoric and Writing Studies 280 or 281.

United States history from pre-colonial period through Reconstruction with emphasis on historiography, bibliography, and relationship between philosophy of history and teaching. Satisfies the American Institutions requirement in American history and United States constitution. Required of social science single subject majors. Not open to students with credit in History 413 or liberal studies majors.

**HIST 411. World History for Teachers (3)**

Prerequisites: Upper division standing, Writing Placement Assessment with a score of 8 or above or grade of C or better in Linguistics 281 or Rhetoric and Writing Studies 280 or 281, and at least three units selected from History 100, 101, 105, 106.

Topics in world history from paleolithic times to sixteenth century emphasizing comparative analysis, interrelations among societies, and large-scale patterns of change. Various approaches to conceptualizing and teaching world history. Intended primarily for students in teacher preparation programs.

**HIST 413. United States History for Teachers for Liberal Studies Majors (3)**

Prerequisites: Upper division standing and Writing Placement Assessment with a score of 8 or above or grade of C or better in Linguistics 281 or Rhetoric and Writing Studies 280 or 281. Limited to liberal studies majors.

United States history from pre-colonial period to World War I, incorporating California with emphasis on historiography and relationship between philosophy of history and teaching. Satisfies the American Institutions requirement in American history and United States Constitution. Required of liberal studies majors. Not open to students with credit in History 409.

**HIST 415. Pre-Contact and Colonial Latin America (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Indigenous and colonial history of Latin America, pre-contact through early national period.

**HIST 420. Asia's Dynamic Traditions (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Emergence and continuing vitality of historic traditions in India, China, and Japan. Topical, comparative survey emphasizing Confucian, Buddhist, and Hindu ideas and the interaction with institutions of family and village.

**HIST 473. Middle Eastern History from the Advent of Islam to 1500 (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Middle Eastern history, 600 C.E. to 1500 C.E.; spread of Islam through rise of Ottoman Empire.

**HIST 496. Issues in History (1-4)**

Examination of selected problems and current issues in history. May be repeated with change of content. Maximum credit six units with change of content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Refer to *Class Schedule* for specific content.

- A. Thematic, Comparative, and Interdisciplinary History
- B. The Ancient Through Early Modern World
- C. The Modern World

**HIST 499. Special Study (1-3)**

Prerequisites: Consent of department chair and instructor. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)****HIST 501. History of Ancient Near Eastern Civilizations (3)**

Major civilizations of Near East from the origin of civilization to Roman Conquest, including Egyptians, Babylonians, Hebrews, and Persians. Social, political, and religious problems.

**HIST 502. Ancient Greece (3)**

Greek history from prehistoric period through Age of Alexander the Great. Emphasis on political, social, cultural and institutional developments, and historiography. Secondary attention to military, economic, and religious topics.

**HIST 503. Ancient Rome (3)**

Roman history from origins of Rome to fall of the Empire. Emphasis on political, social, cultural and institutional developments, and historiography. Secondary attention to military, economic, and religious topics.

## **HIST 504. The Early Middle Ages (3)**

Europe and Mediterranean 300-1100 C.E. through various approaches: political, economic, social, and cultural. Collapse of Roman Empire, transformation of classical culture and regions that claimed its heritage: especially the kingdoms of western Europe, but also Byzantine and Arab empires. (Formerly numbered History 404.)

## **HIST 505. The Later Middle Ages (3)**

Europe and the Mediterranean 1100-1450 C.E. through various approaches: political, economic, social, and cultural. Development of kingdoms of western Europe and relationship to Byzantine empire and other states. (Formerly numbered History 405.)

## **HIST 506. The Renaissance (3)**

Intellectual, artistic, social, and economic transformation in Europe from fourteenth to seventeenth centuries.

## **HIST 507. The Reformation (3)**

Continental Europe, 1500-1648. Split of Christendom; political and intellectual dissent; social fabric of family life; relationship between gender, class, and power; cultural stratification of European society.

## **HIST 513. Early Scandinavia (3)**

The formation and development of the Scandinavian kingdoms from the Viking Age to the end of the Napoleonic Wars. (Formerly numbered History 513A.)

## **HIST 528. Social History of Early Modern Europe (3)**

Historical survey of European society emphasizing changes in the family, health, diet, standard of living, urbanism, crime, migration, and literacy, from 1350 to beginning of Industrial Revolution.

## **HIST 530. Colonial America (3)**

Settlement and development of the English colonies in North America through the mid-eighteenth century. Contact of cultures, social structure, labor systems, religion, popular values, problems of imperial control, and political culture.

## **HIST 532. Topics in Early American History (3)**

Prerequisites: Upper division or graduate standing and three units in history at the college level.

Variable topics in history of colonial America and the early republic. Possible topics include: Women and the Family; Race, Class and Labor; American Revolution; Religion and Politics; Immigrants' Experiences. See *Class Schedule* for topic. May be repeated with new content. Maximum credit six units.

## **HIST 550. Colonial Mexico (3)**

Social history of Mexico from pre-contact through early national period using primary and secondary sources. Processes of social and cultural negotiation involving gender, religion, environment, medicine, and urban experience.

## **HIST 563. Southeast Asia to 1800 (3)**

Cultural traditions of Southeast Asian people. Examines nature of the state, interstate relations, evolution of indigenous institutions, and influences of India, China, Islam, and the West to end of the eighteenth century.

## **HIST 566. Chinese Civilization: The Great Traditions (3)**

China's institutional and cultural development from ancient to pre-modern times. Emphasis on traditional philosophy, religions, literature, and the arts.

## **Field (c). The Modern World**

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

## **HIST 408. Modern Europe (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Modern Europe from French Revolution to present. Social, cultural, economic, political, and intellectual trends, development of nation-states, and sources of continental conflict.

## **HIST 410. United States History for Teachers (3) [AI]**

Prerequisites: Upper division standing and Writing Placement Assessment with a score of 8 or above or grade of C or better in Linguistics 281 or Rhetoric and Writing Studies 280 or 281.

United States history since Civil War with emphasis on historiography, bibliography, and relationship between philosophy of history and teaching. Satisfies the American Institutions requirement in American history and California government.

## **HIST 412. Modern World History for Teachers (3)**

Prerequisites: Upper division standing, Writing Placement Assessment with a score of 8 or above, or grade of C or better in Linguistics 281 or Rhetoric and Writing Studies 280 or 281, and at least three units selected from History 100, 101, 105, 106.

Topics in world history from the beginning of the sixteenth century to the present emphasizing world-scale patterns of change and cross-cultural comparisons. Various approaches to conceptualizing and teaching world history. Intended primarily for students preparing to teach history in secondary schools.

## **HIST 416. Modern Latin America (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

History of Latin America, early national period to present.

## **HIST 418. History of Modern Britain (3)**

Prerequisite: Upper division standing.

History of Britain from seventeenth century to contemporary age. Emphasis on political institutions, religion, society, economy, the arts.

## **HIST 421. Asia's Emerging Nations (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Historic changes which have contributed to the rise of modern Japan, India, and China. Topical, comparative approach emphasizing ways Asian societies have responded to challenges of imperialism, nationalism, revolution, war, and modernization.

## **HIST 423. History of the Philippines (3)**

Philippines from earliest times to present, context of world history and from multiple perspectives to include colonial and post-colonial elites, women, peasants, uplanders, Muslims, Filipino-Chinese, and the Filipino diaspora.

## **HIST 445. California History (3)**

California history from pre-colonial societies to present. Emphasis on early colonial societies, economy, environment, politics, race, gender, and California's place in popular culture. Not open to students with credit in History 444 and 445 if both courses were taken prior to fall 2004.

## **HIST 474. The Middle East Since 1500 (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Middle Eastern history since 1500 C.E.; Islamic empires, European colonialism, nationalism, and modernization.

## **HIST 496. Issues in History (1-4)**

Examination of selected problems and current issues in history. May be repeated with change of content. Maximum credit six units with change of content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Refer to *Class Schedule* for specific content.

- A.** Thematic, Comparative, and Interdisciplinary History
- B.** The Ancient Through Early Modern World
- C.** The Modern World

## **HIST 499. Special Study (1-3)**

Prerequisites: Consent of department chair and instructor. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**HIST 509. British Century: Waterloo to World War I (3)**

Prerequisite: Upper division or graduate standing.

History of England, 1815-1914, to include industrial supremacy; struggles over urban problems, reform, democratization, labor organization, national self-image; interplay of liberalism and collectivism; sources of social stability and instability; women's rights; jingoism; coming of World War I.

**HIST 512A. The Great War: A Turning Point in European History (3)**

Forces and events that shaped Europe in period prior to and during World War I, 1890-1919.

**HIST 512B. The Age of Dictators and Contemporary Europe (3)**

Europe in the age of dictatorship, world war, decline, and recovery.

**HIST 515. Globalization in Historical Perspective: 1500 to the Present (3)**

Prerequisite: Upper division or graduate standing.

Global movements of people, goods, and capital since 1500. Historical trends in labor and productivity, relationship of policy to economic growth, convergence and divergence, and impact of economic globalization on human welfare and the environment.

**HIST 517. Modern Germany (3)**

Political, social, and economic development of Germany from 1848 to present.

**HIST 533. Antebellum America (3)**

Prerequisite: Upper division or graduate standing.

Westward expansion and movement, market revolution, democratic politics, revivalism, slavery, and women's rights. (Formerly numbered History 533A.)

**HIST 534. Civil War and Reconstruction (3)**

Prerequisite: Upper division or graduate standing.

Civil War and Reconstruction, emphasizing political affairs and role of Lincoln. (Formerly numbered History 533B.)

**HIST 535. The Age of Roosevelt (3)**

The United States in Depression, War, and Cold War. (Formerly numbered History 535B.)

**HIST 536. The United States Since World War II (3)**

Major foreign and domestic issues confronting the United States, and the government policies and popular movements generated in response.

**HIST 539. Topics in the History of the American West (3)**

Prerequisites: Upper division or graduate standing and three units of history at the college level.

Selected topics in history of American West such as Westward movement; Southwest borderlands; gender and the frontier; new western history. May be repeated with new content. Maximum credit six units.

**HIST 540. Environmental History of the United States (3)**

The relationship of Americans to their environment from colonial times to the present with emphasis on how attitudes and values have affected personal behavior and public policy toward the land.

**HIST 543. Vietnam Wars (3)**

Prerequisites: Upper division or graduate standing and six units in history.

US involvement in Vietnam. History of Vietnamese state, French colonial rule, Japanese occupation, origins of Vietnamese revolution and US intervention, conduct of US conventional and covert military operations, role of women, and legacy of the war.

**HIST 544A. Early American Foreign Relations (3)**

Development of American foreign relations from Colonial Period to the Spanish-American-Filipino War.

**HIST 544B. Modern American Foreign Relations (3)**

Development of American foreign relations since 1900.

**HIST 545. Constitutional History of the United States (3)**

Development of American constitutional ideals and institutions from colonial period to the present. Examines historical context of significant legal issues and constitutional cases.

**HIST 551. Modern Mexico (3)**

Social history of Mexico since early national period using primary and secondary sources. Processes of social and cultural negotiation involving gender, religion, environment, medicine, and urban experience.

**HIST 552. Brazil (3)**

Survey of history of Brazil from Portuguese backgrounds to present. Brazil as a tropical society. Recommended for students minoring in Portuguese.

**HIST 558. Latin America in World Affairs (3)**

History of Latin America's political and economic relations with Europe, the Soviet Union, the United States, and the Third World.

**HIST 564. Southeast Asia in the Modern World (3)**

Southeast Asian history since 1800 with attention to colonialism, sociocultural change, Chinese diaspora, nationalism and independence, and economic development. Considers transnational comparisons among Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam.

**HIST 567. China in Revolution (3)**

China's history during the tumultuous nineteenth and twentieth centuries. China's forced encounter with Western imperialism, rural, and urban social movements. Impact of Mao's Revolution on everyday life in China, successes, limitations of China's recent reform policies.

**HIST 570. Japan in the Modern World (3)**

Japan's emergence as a modern state since the nineteenth century, and ongoing struggle to redefine Japanese identity. Examines Japan's engagement with modernity as seen through changes in political discourse, gender relations, international relations, intellectual trends, and economic development.

**HIST 574. Arab-Israeli Relations, Past and Present (3)**

Arab-Israeli conflict and diplomacy over Palestine from perspectives of Zionism, Arab nationalism, and Great Power relations from nineteenth century to present.

**HIST 585. History of the Sixties (3)**

Prerequisite: Upper division or graduate standing.

Variable topics in the history of the 1960s may include: America in the 1960s, Africa in the 1960s, politics and protests in 1960s, Europe in the 1960s. See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

HIST

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# Honors Program

In the Division of Undergraduate Studies

**OFFICE:** Administration 201

**TELEPHONE:** 619-594-2872 / **FAX:** 619-594-7934

**E-MAIL:** [honors@sdsu.edu](mailto:honors@sdsu.edu)

**<http://www.sdsu.edu/honors>**

**Director:** Stacey L. Sinclair

## General Information

The University Honors Program provides a broad academic foundation for SDSU's most academically engaged undergraduate students. Honors students are exposed to subjects in the humanities, social sciences, and natural sciences. The objective of the program is to provide the richest possible intellectual experience by helping students become conversant in multiple disciplines, think flexibly, solve problems and pursue the creative expression of ideas. Building upon the university's commitment to educate students for a global world, the University Honors Program provides a distinctive learning community for students who seek creative, innovative and responsible ways to understand and engage the international community.

The University Honors Program courses are small, discussion-based, and rigorous. The program also helps students become engaged in intellectual co-curricular activities, undergraduate research and study abroad. Students may receive special travel assistance from the University Honors Program to present research at regional and national conferences and are eligible for a variety of scholarships awarded through the University Honors Program (including a study abroad scholarship).

San Diego State University rewards completion of the University Honors Program requirements with recognition at commencement (name and thesis title is included in the commencement program), a special transcript annotation, a University Honors Program graduation banquet and a University Honors Program certificate as a supplement to the diploma. The University Honors Program also provides a special honors medallion to its graduates, especially suited for wearing at commencement.

## Admission to the Program

The application deadline for students is February 1. For entering first year students, eligibility for acceptance into the University Honors Program is determined by several factors, including SAT score (a combined score for verbal and mathematics of 1200 or above) or ACT score (a composite score of 28 or above), or high school GPA (3.7 or above), and thoughtful completion of the application essays. For continuing and transfer students, eligibility is determined according to collegiate GPA (3.5 or above) and quality of the application essays. Once admitted to the University Honors Program, students must maintain at least a 3.5 cumulative GPA and earn a 3.0 or higher in all honors courses. For additional information and to download the application, interested students should consult the Web site at

<http://www.sdsu.edu/honors>.

## Key Features of the Curriculum

**Study Abroad.** All University Honors Program students are required to complete a credit-bearing study abroad experience. The Honors Program recognizes that students may have limited time and/or resources to engage in study abroad. To accommodate students' needs, a combination of short-term and long-term options is available to students. To meet the study abroad requirement, students may choose either short-term study tours, summer abroad programs, semester-long, or year-long exchanges. See the Honors Adviser to make arrangements to meet this requirement.

**Honors Senior Capstone: Thesis, Project, or Portfolio.** The University Honors Program is committed to developing a community of undergraduate scholars and promotes research opportunities for highly motivated undergraduate students. All honors students must work with a faculty member to complete a thesis, a creative project, or an honors portfolio during their senior year.

**Departmental Honors Programs.** The University Honors Program supports students who are active in their departmental honors programs. Students may receive credit for taking departmentally-based honors courses, including the senior thesis.

## Honors Minor in Interdisciplinary Studies

**(Minor Code: 49993) (SIMS Code: 888001)**

The Honors Minor in Interdisciplinary Studies consists of 19 units of honors program interdisciplinary seminars and honors program general education courses, to include seven lower division and 12 upper division units. A maximum of nine units of honors program general education courses may be used to satisfy requirements for the minor. Students are required to complete an honors thesis, creative project, or portfolio during their senior year. Students must be admitted to the University Honors Program at the time they declare the minor. Students not enrolled in the University Honors Program may take courses in the minor if they have consent of the instructor and approval from the honors program director.

**Preparation for the Minor (7 units).** Honors Program 100, 275, and three units selected from Honors Program 275 or honors sections of general education courses (English 220; Humanities 140; Philosophy 101, 102; Religious Studies 101, 103; Sociology 101, 102).

**Upper Division for the Minor (12 units).** Honors Program 413; 490B or 490C; and six units selected from honors program seminars or honors sections of general education courses (Honors Program 450, 490A; Anthropology 402; Chemistry 300; Counseling and School Psychology 420; International Security and Conflict Resolution 310; Philosophy 329, 340; Psychology 340; Religious Studies 353, 363, 376; Sociology 320, 352).

Courses in the major department or required for the major may not be used to satisfy requirements for the minor. A minimum of six upper division units must be completed in residence at San Diego State University.

**Study Abroad Requirement.** All Honors Minor in Interdisciplinary Studies students are required to complete a credit-bearing study abroad experience. To meet this requirement, minors must complete one of the following:

1. An SDSU Study Abroad Program;
2. An SDSU Exchange Program;
3. An SDSU Study Travel Program;
4. A CSU Study Abroad Program;
5. General Studies 450;
6. Honors Program 450.

## Courses (HONOR)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### HONOR 100. Introduction to Honors (1)

Ways to integrate learning and experiences to enrich college experience. Leadership, community service, research and creative arts, scholarship and fellowships, and study abroad opportunities.

**HONOR 275. Seminar in Interdisciplinary Studies (3)**

Analysis of various disciplines and topics in workplace and societal settings. Integration of a variety of schools of thought and value of interdisciplinary outlook. May be repeated with new content. Maximum credit six units. See Class Schedule for specific content.

**HONOR 296. Honors Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**HONOR 299. Special Study (1-3)**

Prerequisite: Consent of instructor.  
Individual study. Limit of nine units of any combination of 299, 499 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**HONOR 413. Interdisciplinary Perspectives on Social Problems (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Various social problems from interdisciplinary perspectives. (Formerly numbered General Studies 413.)

**HONOR 450. Honors Study Abroad (3)**

Prerequisite: Upper division standing.  
Life and culture in a selected international setting through an approved study abroad program sponsored by the University Honors Program. Maximum credit six units.

**HONOR 490A. Senior Seminar: Thesis/Project Development (3)**

Prerequisites: Admission to the Honors Program, senior standing, and completion of at least 12 units of honors courses.

Conventions of scholarly writing as appropriate for the honors thesis. Analysis of specific disciplinary texts. Defining questions, drafting, and revising manuscripts. (Formerly numbered General Studies 490A.)

**HONOR 490B. Honors Senior Thesis (3)**

Prerequisites: Admission to the Honors Program, senior standing, and completion of at least 12 units of honors courses. Recommended: Honors Program 490A with grade of B or higher.

Conventions of scholarly writing as appropriate for the honors thesis. Analysis of specific disciplinary texts. Defining questions, drafting, and revising manuscripts. (Formerly numbered General Studies 490B.)

**HONOR 490C. Honors Senior Portfolio (3)**

Prerequisites: Admission to the Honors Program, senior standing, and completion of at least 12 units of honors courses.

Honors capstone culminating experience. Synthesis of personal and academic growth, and integration of major field of study with honors program curriculum.

**HONOR 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**HONOR 499. Special Study (1-3)**

Prerequisite: Consent of instructor.  
Individual study. Limit of six units of any combination of 299, 499 courses applicable to a bachelor's degree.

HONOR



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# Hospitality and Tourism Management

In the College of Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 436**  
**TELEPHONE: 619-594-4964 / FAX: 619-594-4443**  
**<http://www.sdsu.edu/htm>**

## Faculty

Director: Winston  
Sycuan Institute on Tribal Gaming Chair: Spilde Contreras  
Professor: Testa  
Associate Professor: Spilde Contreras  
Lecturers: Campbell, Corr, DeFino, Gleason, Peniche, Rauch, Sayer, Sipe  
Director of The J. Willard and Alice S. Marriott Foundation Student Center for Professional Development: Brian P. Blake

## Offered by the School

Major in hospitality and tourism management with the B.S. degree in applied arts and sciences.  
Emphasis in global tourism management.  
Emphasis in hotel operations and management.  
Emphasis in meetings and events operations and management.  
Emphasis in restaurant operations and management.  
Emphasis in tribal gaming operations and management.

## The Major

Hospitality and tourism management is an interdisciplinary major which culminates in a Bachelor of Science degree offered by the College of Professional Studies and Fine Arts. This program provides students with a solid undergraduate program emphasizing basic business management principles and their specific application to the hospitality and tourism industry and its components that make up the industry. The program integrates a significant number of courses from diverse disciplines into a comprehensive theoretical and applied program necessary for success in the hospitality and tourism professions. The program is directed at management positions in the industry, positions that require a broad understanding of management and its application to the businesses and organizations that flourish in this sector of the international, national, state, and local economies.

Students select one of the following emphasis areas for in-depth study: Hotel Operations and Management; Meetings and Events Operations and Management; Restaurant Operations and Management; or Tribal Gaming Operations and Management. With a solid core of business management courses and theoretical and applied study of the broad hospitality and tourism industry, students are educated to move readily into management positions in one of the state's, nation's, and world's fastest growing economic sectors. The hotel and restaurant emphases will prepare managers to effectively administer businesses that provide lodging and food services to business and leisure travelers and tourists. The emphasis in meetings and events operations and management is aimed at preparing individuals to successfully manage destination based agencies that attract and entertain guests in a host region (convention centers, bureaus, festivals, sporting events, etc.). The tribal gaming emphasis prepares students to maximize the economic and social outcomes of tribal gaming facilities, which operate in a unique tribal government-owned business environment.

## Impacted Program

The hospitality and tourism management (HTM) major is an impacted program. To be admitted to an HTM major emphasis, students must meet the following criteria:

- a. Complete with a grade of C or higher: Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101 and 102; Information and Decision Systems 180 and 290; Mathematics 120 or 150 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- b. Complete a minimum of 60 transferable semester units;
- c. Have a cumulative GPA of 3.0;
- d. Students who meet all requirements except the GPA may request to be placed on the waiting list. Students on the waiting list will be admitted on a case-by-case basis formulated around the program's exception policy. Contact the School of Hospitality and Tourism Management (PSFA-436), 619-594-4964, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Internships

A significant portion of the student's educational program is dedicated to community-based learning components termed internships. Prior to the first internship, students must complete 400 hours of work experience (see school adviser for details). Each student must complete two, 300+ hour internships in hospitality and tourism businesses. These experiential learning components enable students to apply their classroom education to real world experiences in actual businesses. The HTM program has purposely entered into partnerships with San Diego's finest hospitality and tourism enterprises to provide students with specialized facilities and experiences that complete a well-rounded and comprehensive educational experience for graduation and entry into this rewarding profession.

## Advising (Mandatory)

All students admitted to the university with a declared major in hospitality and tourism management are required to attend an advising meeting with the undergraduate advisers in the school every semester.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Hospitality and Tourism Management Major With the B.S. Degree in Applied Arts and Sciences (Major Code: 05081)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A major in hospitality and tourism management must be planned with an emphasis in hotel operations and management, or meetings and events operations and management, or restaurant operations and management, or tribal gaming operations and management.

A minor is not required with this major. Hospitality and Tourism Management majors may not complete a minor in the College of Business Administration. Preparation for the major courses may not be taken Cr/NC; the minimum grade in each course must be a C.

**Emphasis in Global Tourism Management  
(SIMS Code: 663104)**

No new students will be admitted to this emphasis.

**Preparation for the Major.** Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Statistics 119 or Economics 201. (30-31 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 41 upper division units to include Hospitality and Tourism Management 301, 398, 450, 490, 498; Communication 371 or Management 357; Finance 323; Information and Decision Systems 302; Management 350, 352; Marketing 370; Recreation and Tourism Management 404, 470, and 477 or Recreation and Tourism Management 413.

**Emphasis in Hotel Operations and Management  
(SIMS Code: 663102)**

**Preparation for the Major.** Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Statistics 119 or Economics 201. (30-31 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 47 upper division units to include Hospitality and Tourism Management 301, 320, 380, 398, 455, 480, 490, 491, 498; and three units of electives selected from Hospitality and Tourism Management 321, 322, 425, 428, 429, 450, 453, 456, 465; Finance 323; Information and Decision Systems 302; Management 350, 352; Marketing 370; Recreation and Tourism Management 404, 470.

**Emphasis in Meetings and Events  
Operations and Management  
(SIMS Code: 663105)**

**Preparation for the Major.** Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Statistics 119 or Economics 201. (30-31 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 46 upper division units to include Hospitality and Tourism Management 301, 330, 380, 398, 431, 480, 490, 491, 498; and three units of electives selected from Hospitality and Tourism Management 333, 334, 335, 336, 430, 433, 435; Finance 323; Information and Decision Systems 302; Management 350, 352; Marketing 370; Recreation and Tourism Management 404, 470.

**Emphasis in Restaurant Operations and Management  
(SIMS Code: 663103)**

**Preparation for the Major.** Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Statistics 119 or Economics 201. (30-31 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 47 upper division units to include Hospitality and Tourism Management 301, 340, 380, 398, 455, 480, 490, 491, 498; and three units of electives selected from Hospitality and Tourism Management 342, 425, 444, 450, 465; Finance 323; Information and Decision Systems 302; Management 350, 352; Marketing 370; Recreation and Tourism Management 404, 470.

**Emphasis in Tribal Gaming Operations and Management  
(SIMS Code: 663106)**

**Preparation for the Major.** Hospitality and Tourism Management 201, 223, 250; Accountancy 201; Economics 101, 102; Information and Decision Systems 180, 290; Mathematics 120 or 150; and Statistics 119 or Economics 201. (30-31 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 48 upper division to include Hospitality and Tourism Management 301, 370, 371, 372, 373, 380, 398, 480, 490, 498; Finance 323; Information and Decision Systems 302; Management 350, 352; Marketing 370; Recreation and Tourism Management 404, 470; three units of upper division electives with consent of adviser.

## Courses (HTM)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**HTM 201. Introduction to Hospitality and Tourism Management (3)**

Hospitality and tourism industry with focus on basic management theories and principles as they apply to hospitality and tourism; basic structure, organization, and management of industry components and the services/products they deliver.

**HTM 223. Hospitality Managerial Accounting and Controls (3)**

Prerequisites: Hospitality and Tourism Management 201 or Recreation and Tourism Management 101 and Accountancy 201.

Utilization of accounting information in decision-making, planning, directing, and controlling in hospitality and tourism management. Integrates areas of managerial accounting and controls with applications in hospitality industry. Not open to students with credit in Accountancy 202.

**HTM 224. Hospitality Accounting (1)**

Prerequisite: Consent of instructor.

Hospitality accounting for students transferring into hospitality and tourism management program from community college.

HTM

### **HTM 250. Hospitality Law (3)**

Prerequisite: Hospitality and Tourism Management 201.

Hospitality law, legal, and policy areas arranged according to specific entities hospitality managers have primary relationships: guests, employees, third parties, and government.

### **HTM 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

### **HTM 301. Service Leadership Development (2)**

One lecture and two hours of activity.

Prerequisites: Hospitality and Tourism Management 201 and upper division major in hospitality and tourism management.

Service leadership theory and development in hospitality and tourism industry. Application of business models and industry metrics with focus on individual assessment and development of leadership competencies.

### **HTM 320. Hotel Management (3)**

Two lectures and two hours of activity.

Prerequisite: Hospitality and Tourism Management 301.

Hotel management and operations to include room reservations, housekeeping, front desk management, concierge, sanitation, safety, security, and bellstand. Revenue management, forecasting, measuring performance, transient versus group displacement, service quality, pricing and inventory management, ethics. (Formerly numbered Hospitality and Tourism Management 427.)

### **HTM 321. Hotel and Travel Marketing (3)**

Prerequisite: Marketing 370.

Marketing for hotel and travel industry, including all aspects of marketing discipline from market research and brand positioning to customer relationship marketing.

### **HTM 322. Rooms Division Management (1)**

Prerequisite: Hospitality and Tourism Management 320.

Hotel front desk, reservations, housekeeping, and other room-related areas of responsibility. Systematic approach to management of hotel housekeeping operations.

### **HTM 330. Event and Meeting Industry (3)**

Prerequisite: Upper division standing in hospitality and tourism management.

History and motivation behind meetings, elements of events, event operations and project management, types of meetings and events and industry and economic models.

### **HTM 333. Weddings and Social Events (1)**

Prerequisite: Hospitality and Tourism Management 330.

Cultural, social, economic, and other factors affecting planning and execution of weddings and other social events.

### **HTM 334. Trade Shows and Expositions (1)**

Prerequisite: Hospitality and Tourism Management 330.

Key aspects of trade show industry to include expositions and marketing strategies.

### **HTM 335. Convention and Visitor Bureaus (1)**

Prerequisite: Hospitality and Tourism Management 330.

Scope and functions of convention and visitors bureau; marketing and sales strategies for attracting segments with specific needs; techniques for meeting segment requirements.

### **HTM 336. Site Selection and Negotiation (1)**

Prerequisite: Hospitality and Tourism Management 330.

Site selection and negotiation for events and meetings.

### **HTM 340. Restaurant Management (3)**

Two lectures and three hours of laboratory.

Prerequisite: Hospitality and Tourism Management 301.

Restaurant and food service principles to operations of casual and fine dining restaurants with emphasis on cost/volume/profit relationships, forecasting demand and market share, market niche/positioning, sanitation and safety, scheduling, quality management, customer service, technology, and ambience/environment. (Formerly numbered Hospitality and Tourism Management 421.)

### **HTM 342. Restaurant Marketing and Menu Management (3)**

Prerequisites: Hospitality and Tourism Management 340 and Marketing 370.

Restaurant marketing and menu design, menu research and development, and other marketing-related management functions.

### **HTM 370. Tribal Gaming: Cultural and Political Context (3) (Same course as American Indian Studies 370)**

Prerequisite: Hospitality and Tourism Management 201 or American Indian Studies 110.

Social and political context of American Indian tribal gaming, political relationships between federal and tribal governments, contemporary examples of tribal gaming, sociocultural and economic forces leading to gaming as strategy for economic development, and responses by non-Indian communities to tribal gaming.

### **HTM 371. Tribal Gaming: Casino Operations (3)**

Prerequisite: Hospitality and Tourism Management 201.

Functional units of a casino and how they work together to create a viable business model. Economic and management issues in gaming industry, with emphasis on tribal applications.

### **HTM 372. Tribal Gaming: Legal and Regulatory Issues (1)**

Prerequisites: Hospitality and Tourism Management 201 and 371.

Legal and regulatory structure of tribal gaming including Federal Indian Gaming Regulatory Act and California compacting process.

### **HTM 373. Tribal Gaming: Marketing and Public Relations (2)**

Prerequisites: Hospitality and Tourism Management 371 and Marketing 370.

Key strategies, tactics, and techniques used by marketing and public relations professionals to fuel demand for tribal casino gaming. Customer relationship marketing (CRM), radio/TV/ print advertising, promotions, and guest incentives.

### **HTM 380. Hospitality Leadership Theory (1)**

Prerequisite: Hospitality and Tourism Management 301.

Key components of leadership behavior and practice.

### **HTM 398. Internship I in Hospitality and Tourism (3) Cr/NC**

Prerequisite: Hospitality and Tourism Management 301 and consent of internship coordinator. A minimum of 400 hours of prior documented hospitality work experience.

Entry level experience in a hotel, restaurant, or related position at a university approved site. Minimum 300 hours of quality work at site required during semester and completion of project. **Note:** Only students who have been approved for placement by internship coordinator may enroll in this course.

### **HTM 425. Property Management in Hospitality and Tourism (3)**

Prerequisite: Hospitality and Tourism Management 301.

Development, planning, and maintenance of hospitality facilities. Real estate economics, income generation, lease and management contracts, building operations, project development sequencing, conceptual and space planning, financing, asset management, industry practices, renovation, and public relations.

### **HTM 428. Hotel Feasibility Analysis and Valuation (2)**

Prerequisite: Hospitality and Tourism Management 320.

Methods and practices for evaluating prospective new hotel properties and establishing economic value.

### **HTM 429. Hotel Asset Management (1)**

Prerequisite: Hospitality and Tourism Management 320.

Asset management planning; investing in global economy; management contracts and franchising; owner-management company relationship; benchmarking operating results, and financial analysis.

### **HTM 430. Specialty Event Management (2)**

One lecture and two hours of activity.

Prerequisite: Hospitality and Tourism Management 330.

Special events planning and execution.

### **HTM 431. Convention Services for Hotels (2)**

Prerequisite: Hospitality and Tourism Management 301.

Planning, developing, and implementing hotel meeting and convention services.

**HTM 433. Destination Management Services (2)**

Prerequisite: Hospitality and Tourism Management 431.

Destination management companies including incentive travel and marketing techniques, structure, governance, business, and services operations.

**HTM 435. Sporting Events and Festival Management (3)**

Prerequisite: Hospitality and Tourism Management 431.

Organization and administration of attraction-based events focusing on scheduling, financing, budgeting and revenue distribution, logistics, planning techniques, marketing, contracts, and staging considerations.

**HTM 444. Restaurant Multi-Unit Operations (3)**

Prerequisite: Hospitality and Tourism Management 340.

Multi-unit management of restaurants, examining structure and principles for providing superior technical and expressive service on a sustainable basis.

**HTM 450. Venture and Entrepreneurial Management in Hospitality and Tourism (3)**

Prerequisites: Hospitality and Tourism Management 301, Finance 323, Information and Decision Systems 302, Management 350, and Marketing 370.

Initiating, expanding, purchasing, and consolidating hospitality and tourism businesses; examination of entrepreneurial approach including concepts, theories, techniques, and practices of managerial innovation/implementation; analysis of entrepreneurial skills.

**HTM 453. Hospitality Sales and Marketing (2)**

Prerequisites: Hospitality and Tourism Management 201, 320; Marketing 370.

Sales functions and management skills required of hospitality companies. Tactics and techniques used to reach target audiences.

**HTM 455. Hospitality Financial Management (3)**

Prerequisite: Finance 323.

Managerial insights and techniques for understanding, evaluating, and managing hospitality industry financial information and making sound decisions.

**HTM 456. Hotel Revenue Management (2)**

Prerequisite: Hospitality and Tourism Management 320.

Revenue management in hotel industry including marketplace intelligence, forecasting, pricing, and revenue optimization techniques.

**HTM 465. Hospitality Technology (1)**

Prerequisite: Hospitality and Tourism Management 490.

Operative characteristics of extant hospitality industry technology; techniques for evaluating investments in new technology solutions.

**HTM 474. Tribal Gaming: Slot and Table Games Management (3)**

Prerequisites: Hospitality and Tourism Management 201 and 371.

Games of chance played in a casino, mathematics and technology involved, and management techniques required to support operations.

**HTM 480. Leadership and Coaching in Hospitality (3)**

Prerequisites: Hospitality and Tourism Management 301 and 380.

Development of interpersonal communication, coaching, and training skills to maximize employee performance in a service setting.

**HTM 490. Strategic Management in Hospitality and Tourism (3)**

Prerequisite: Marketing 370.

Problems and issues of strategic planning in hospitality and tourism businesses including methods, techniques, and models used to identify strategic issues and generate future-oriented action plans to implement change.

**HTM 491. Leadership and Self Development in Hospitality (2)**

Prerequisites: Hospitality and Tourism Management 301, 490, and upper division standing in hospitality and tourism management.

Capstone leadership course. Advanced leadership topics and completion of student leadership portfolios.

**HTM 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**HTM 498. Internship II in Hospitality and Tourism (3) Cr/NC**

Prerequisites: Hospitality and Tourism Management 398 and Management 350, 352. Food handler certification required for restaurant majors.

Experience in a hotel, restaurant, tribal casino, or tourism site in student's chosen emphasis at a university approved site. Minimum of 300 hours of quality work at site required during semester in addition to completion of site project.

**HTM 499. Special Study (1-3)**

Prerequisite: Consent of special study adviser.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSE**

(Also Acceptable for Advanced Degrees)

**HTM 596. Selected Topics in Hospitality and Tourism Management (1-3)**

Prerequisite: Upper division or graduate standing.

Selected topics in hospitality, tourism, and/or tribal gaming management. May be repeated with new content and approval of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

HTM

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# Humanities

In the College of Arts and Letters

**OFFICE: Arts and Letters 662**

**TELEPHONE: 619-594-5186 / FAX: 619-594-1004**

**<http://classicsandhumanities.sdsu.edu>**

## Faculty

Emeritus: Eisner, Genovese

Chair: Smith

Professor: Skwara

Assistant Professor: Rybakova

Lecturer: Davies-Morris

## Offered by the Department of Classics and Humanities

Major in humanities with the B.A. degree in liberal arts and sciences.

Emphasis in European humanities.

Minor in humanities.

## The Major

The humanities comprise all uniquely human accomplishments. Founded in history, they are the artistic and intellectual traditions of civilized peoples, namely: language, literature, philosophy, religion, and the arts. The goal of the humanities major is an interdisciplinary understanding of peoples and their times through accomplishments that convey best what they value most. In short, humanities shows us what being civilized amounts to, and by directing us to the meaning and worth of life, it helps us to create and enjoy a life of our own.

Majors in humanities may choose a general course of studies that allows for a balance between Western and non-Western civilization or they may emphasize European civilization, which takes its start with the Greeks. They all have at their disposal the Burnett Classics Seminar Room with its library and media resources. In addition to close academic advising and fellowship in a small department with diverse interests, they culminate their studies with a senior seminar.

With a background in critical analysis and with an appreciation of history, ideas, and the arts, a graduate in humanities might find opportunities in communication, diplomacy, or commerce, as a cultural consultant, an editor or writer, an arts critic, a travel consultant, or a museum curator. Some of these careers, as well as teaching or research, will require study beyond the bachelor's degree, but the broad, integrated humanities program is designed for success in many fields.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Humanities Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 15991) (SIMS Code: 113501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**During their last semester, all seniors majoring in Humanities shall submit to the department a portfolio of their scholarly work.**

## General Humanities Program

**(SIMS Code: 113501)**

**Preparation for the Major.** Humanities 101; History 100-101; and three units from Classics 140, Comparative Literature 270A, 270B, English 220, Humanities 140, Philosophy 103, Religious Studies 101, or Women's Studies 102. (12 units)

**Language Requirement.** Majors in humanities require completion of additional courses beyond the third college semester or fifth quarter taught in a language other than English. Refer to selections below.

(14-28 units)

Arabic 101, 102, 201, 202; and one four-unit upper division course taught in the language. (20 units)

Chinese 101, 102, 201, 202; and one three-unit upper division course taught in the language. (23 units)

French 100A, 100B, 201, 210, 220, 221; and one three-unit upper division course taught in the language. (25 units)

German 100A, 100B, 202, 205A, 205B; and one three-unit upper division course taught in the language. (24 units)

Greek: Classics 101G-202G; and Classics 303G-304G. (14-16 units)

Hebrew 101, 102, 200, 201, 330. (14 units)

Italian 100A, 100B, 201, 211, 212; and one three-unit upper division course taught in the language. (21 units)

Japanese 111, 112, 211, 212; and one four-unit upper division course taught in the language. (28 units)

Korean 101, 102, 201, 202; and one three-unit upper division course taught in the language. (23 units)

Latin: Classics 101L-202L or 250L; and Classics 303L-304L. (14-16 units)

Persian 101, 102, 201, 202; and one four-unit upper division course taught in the language. (20 units)

Portuguese 101, 201, 301, 401. (16 units)

Russian 100A, 100B, 200A, 200B; and one three-unit upper division course taught in the language. (23 units)

Spanish 101, 102, 201, 202, 211, 212; and Spanish 301 or 302. (25 units)

See foreign language departments for equivalents. This fulfills language degree requirement for the B.A. degree in Liberal Arts and Sciences.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or English 508W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units to include Humanities 490; 12 units from Classics 340, Humanities 401, 402, 403, 404; 15 units from Art (art history), Asian Studies, Classics, Comparative Literature, English, History, Humanities, Music, Philosophy, Religious Studies, Theatre, or Women's Studies, with no more than three units in any discipline (at least nine units must be taken in non-Western content).

**Elective Approval.** Elective courses taken to fulfill the major must be approved by the humanities undergraduate adviser and the approval must be filed with the Office of Advising and Evaluations.

## Emphasis in European Humanities

**(SIMS Code: 113505)**

**Preparation for the Major.** Humanities 101; History 105-106; and three units from Comparative Literature 270A, 270B, Humanities 140, Philosophy 103, Religious Studies 101, or Women's Studies 102. (12 units)

**Language Requirement.** Majors in humanities require completion of additional courses beyond the third college semester or fifth quarter taught in a language other than English. Refer to selections below.

(14-25 units)

French 100A, 100B, 201, 210, 220, 221; and one three-unit upper division course taught in the language. (25 units)

German 100A, 100B, 202, 205A, 205B; and one three-unit upper division course taught in the language. (24 units)

Greek: Classics 101G-202G; and Classics 303G-304G. (14-16 units)  
 Italian 100A, 100B, 201, 211, 212; and one three-unit upper division course taught in the language. (21 units)

Latin: Classics 101L-202L or 250L; and Classics 303L-304L. (14-16 units)

Portuguese 101, 201, 301, 401. (16 units)

Russian 100A, 100B, 200A, 200B; and one three-unit upper division course taught in the language. (23 units)

Spanish 101, 102, 201, 202, 211, 212; and Spanish 301 or 302. (25 units)  
 See foreign language departments for equivalents. This fulfills language degree requirement for the B.A. degree in Liberal Arts and Sciences.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or English 508W or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units to include Classics 340, Humanities 401, 402, 403, 404 and 490; three units from Geography 336, Political Science 301A, 301B, or 302; nine units Art (art history), Comparative Literature, English, History, Humanities, Music, Philosophy, Religious Studies, Theatre, or Women's Studies, with no more than three units in any discipline.

**Elective Approval.** Elective courses taken to fulfill the major must be approved by the humanities undergraduate adviser and the approval must be filed with the Office of Advising and Evaluations.

## Humanities Minor

(SIMS Code: 113501)

The minor in humanities consists of a minimum of 18 units, of which at least 12 units must be upper division and at least 12 units must be in Humanities; three to six units must be selected from Humanities 460 and Asian Studies 458; three units may be selected from Classics 140 or Comparative Literature 270A.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (HUM)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### HUM 101. Introduction to Humanities (3) [GE]

Preliminary investigation: how values and ideals are expressed in literary, artistic, and intellectual achievements of individuals and civilizations throughout the world.

#### HUM 140. Mythology (3) [GE]

Comparative themes and figures from various mythologies of the world. Interpretation of myths; their influence on art, culture, and history.

#### HUM 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### HUM 310. French Humanities (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

France's literary, artistic, and intellectual achievements. Great cultural traditions and influences.

#### HUM 320. German Humanities (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Germany's literary, artistic, and intellectual achievements. Great cultural traditions and influences.

#### HUM 330. Russian Humanities (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Russia's literary, artistic, and intellectual achievements. Great cultural traditions and influences.

#### HUM 340. Italian Humanities (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Italy's literary, artistic, and intellectual achievements. Great cultural traditions and influences.

#### HUM 370. Humanities in America (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literary, artistic, and intellectual achievements of America. Great cultural traditions and influences.

#### HUM 401. Age of Faith (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literary, artistic, and intellectual achievements of European Middle Ages. Cultural movements and influences.

#### HUM 402. Renaissance (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literary, artistic, and intellectual achievements of European Renaissance. Great cultural traditions and influences.

#### HUM 403. Age of Enlightenment (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literary, artistic, and intellectual achievements of European Enlightenment. Great cultural traditions and influences.

#### HUM 404. Romanticism to Postmodernism (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literary, artistic, and intellectual achievements of nineteenth- and twentieth-century Europe. Great cultural traditions and influences.

#### HUM 460. African Civilizations (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Interdisciplinary survey of sub-Saharan African civilizations, emphasizing religion, literature, and the arts from ancient times to the present.

#### HUM 490. Senior Seminar in Classics and Humanities (3)

Prerequisite: Classics or humanities major with more than 90 units; others with consent of department chair.

Senior capstone seminar in major. Discussion and research on topic in classics and humanities. Formal research paper.

#### HUM 496. Topics in Humanities (3)

Interdisciplinary topics in literature and the arts. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### HUM 596. Topics in Humanities (1-3)

Prerequisites: Upper division standing and consent of instructor.

Interdisciplinary topics in literature and the arts. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. No more than six units of 596 may be applied to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

#### HUM 599. Special Study (1-3)

Prerequisites: Consent of major or graduate adviser; to be arranged by department chair and instructor.

Directed individual study. Maximum credit six units.

HUM

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# Information and Decision Systems

In the College of Business Administration

**OFFICE: Student Services 2411**

**TELEPHONE: 619-594-5316 / FAX: 619-594-3675**

A Member of AACSB International—The Association to Advance Collegiate Schools of Business.

## Faculty

Emeritus: Feeney, Flatley, Gibson, Hatch, Langenbach,  
Lyons-Lawrence, Norman, Schlesinger, Sherrard,  
Spaulding, Straub, Vik

Chair: Reinig

Professors: Beatty, Koster, Lackritz, Penrose, Raafat, Reinig,  
Shin, Yang

Associate Professors: Addo, Easton, A., Easton, G., Jennex, Plice

Lecturers: Anderson-Cruz, Judge, Kennedy, Lund, O'Byrne, Probett,  
Shaul

## Offered by the Department

Master of Science degree in business administration.

Master of Business Administration.

Major in information systems with the B.S. degree in business administration.

Minor in information systems.

## The Major

Good business decisions require good information. The purpose of an information system is to provide management with the information that is essential to decision making and to assist in interpreting that information.

**Information Systems.** Students interested in using computers to solve business problems and in devising new and more efficient solutions, should consider a major in information systems. The major is intended to prepare students for their first job in information systems, which is normally as a systems analyst. The systems analyst studies problems, designs solutions, and implements those solutions using computer hardware and software. The major will also prepare students for continued growth as a manager in information systems.

The employment outlook for information systems specialists is currently very good. Positive projections continue into the future. Many graduates who major in information systems assume the following positions: systems analysts plan the activities necessary to solve a business problem by structuring the problem in logical form, identifying the data needed, and specifying the procedures to be followed in programming the data processing; information systems specialists represent various departments of a business in assuring that each department's information processing needs are provided for effectively and efficiently; programmers and analysts plan and write computer programs to process business information; computer center managers direct the work of information processing in a company; and technical marketing specialists sell and coordinate the installation of computer systems.

Typical places of employment for information systems graduates include large businesses, government agencies, computer manufacturers, universities, and independent computer service organizations.

## Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

## Statement on Computers

Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the University.

## Retention Policy

The College of Business Administration expects that upper division students will make reasonable academic progress towards the degree. Students earning less than a 2.0 average in their major GPA for two consecutive semesters will be removed from business and placed in undeclared.

## Transfer Credit

**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

## Impacted Program

The information systems major is impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.9.

Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully-qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Information Systems Major

**With the B.S. Degree in Business Administration**  
(Major Code: 07021) (SIMS Code: 222336)

A minor is not required with this major.

**Preparation for the Major.** Information and Decision Systems 180, 290; Accountancy 201, 202; Finance 240; Economics 101, 102; Mathematics 120 (or other approved calculus course); and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Information and Decision Systems 396W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Forty-three upper division units consisting of Information and Decision Systems 302, 306, 315, 380, 396W, 406, 483, 492; Business Administration 300; Finance 323; Management 350; Business Administration 404 or Management 405 or 458 (3 units); Marketing 370; six units selected from Information and Decision Systems 301, 375, 460, 481, 482, 515, 520. A "C" (2.0) average is required in the courses stipulated here for the major.

A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics. This means that at least two units of electives (upper or lower division) must be completed in areas other than business administration, economics, and statistics.

Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.

## Information Systems Minor

(SIMS Code: 222337)

The minor in information systems consists of a minimum of 21 units to include Information and Decision Systems 180, 306, 315, 375; and nine units selected from Information and Decision Systems 380, 406, 481, 482, 483, 492, 515, 520.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the information systems minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

## Courses (IDS)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### IDS 180. Principles of Information Systems (3)

Fundamentals of information systems in business. Integration of information technology, e-commerce, systems analysis, database management systems, networking, security, and collaboration. Application of concepts through developing solutions to business problems using spreadsheets, database management systems, and web development tools/languages.

#### IDS 290. Business Communication (3)

Prerequisites: Rhetoric and Writing Studies 100 and SDSU Writing Competency requirement.

Effective communication applied to business letters, memos, and long reports. Includes the organization, writing, and presentation of business documents using word processing software. Incorporates basic principles of speaking effectively for business.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### IDS 301. Statistical Analysis for Business (3)

Prerequisites: Mathematics 120; Economics 201 or Statistics 119. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required:** Copy of transcript.

Statistical methods applied to business decision making.

#### IDS 302. Introduction to Operations and Supply Chain Management (3)

Prerequisites: Mathematics 120; Economics 201 or Statistics 119. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required:** Copy of transcript.

Managerial concepts and quantitative methods associated with the design, execution, and management of operations and supply chain systems.

#### IDS 306. Information Systems Analysis (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Systems development life cycle concept, with emphasis on analysis of requirements using structured methodology. Feasibility study, needs assessment, prototyping, application design alternatives.

#### IDS 315. Business Application Programming (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Computer programming for business applications. Appropriate data structures, control structures and program structures. Languages widely used in business applications.

#### IDS 375. Information Systems Technology (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Technologies underlying information systems, including computer organization and components, computer arithmetic, I/O and storage, multimedia processing, data communications fundamentals, local area networks, internetworking, and workgroup computing.

#### IDS 380. Data Management Systems (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Methodology for applying data base management systems in design of information systems. Analysis of data base applications from perspectives of system users and systems analysts.

IDS



### **IDS 390W. Reporting Techniques for Accountants (4)**

Prerequisites: Credit or concurrent registration in Accountancy 321. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisite required:** Test score or verification of exemption; copy of transcript.

Advanced preparation of written and oral reports with application to professional needs of accountants.

### **IDS 396W. Reporting Techniques for Business Professionals (3)**

Prerequisites: Information and Decision Systems 290. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisite required:** Test score or verification of exemption; copy of transcript. Must be admitted to the upper division major in business.

Advanced preparation of oral and written reports used in business and other organizations. Individualized study of reports in student's career field.

### **IDS 406. Information Systems Design (3)**

Prerequisites: Information and Decision Systems 306, 315, 380.

Business information systems design, installation, and implementation as part of the systems development life cycle, with emphasis on structured design methodology.

### **IDS 460. Project Management (3)**

Prerequisite: Credit or concurrent registration in Information and Decision Systems 302.

Management of small and large projects. Work breakdown structure milestones, project cost estimating and reporting, and single and multiple resource allocation/leveling. Computerized project management software.

### **IDS 481. E-Business/Web Development (3)**

Prerequisite: Credit or concurrent registration in Information and Decision Systems 406.

Issues and tools related to developing Internet-based applications with database integration through hands-on projects. Developing complex sets of Web pages by linking front-end Web browser languages and databases via back-end server languages, database queries, and middleware.

### **IDS 482. Information Technology Projects (3)**

Prerequisite: Completion of at least 18 units of upper division information and decision systems courses.

Projects with San Diego area client organizations related to information technologies; topics may include: development life cycles, rapid application development, managing teams, client management, group interaction and conflict resolution, software metrics, and quality assurance techniques.

### **IDS 483. Networks and Data Communications (3)**

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration.

Fundamental data communications concepts, including voice communications and carrier service offerings, communications hardware, and network design. Global, enterprise, workgroup, and local area networks. Protocols and network operating systems. Network security and control.

### **IDS 492. Management of Information Systems (3)**

Prerequisites: Information and Decision Systems 306 and 380.

**Proof of completion of prerequisites required:** Copy of transcript.

Role of information systems in organizations from management perspective: strategic information system planning, systems administration, and management of end user computing. Management issues related to systems development and implementation. Management of computer operations and the computer center.

### **IDS 496. Selected Topics in Information Systems (1-4)**

Prerequisites: Consent of department chair.

Selected areas of concern in information systems. See *Class Schedule* for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

### **IDS 498. Investigation and Report (1-3)**

Prerequisites: Senior standing and consent of instructor.

A comprehensive and original study of a problem connected with information systems under the direction of one or more members of the information systems staff. May be repeated with new content. Maximum credit six units.

### **IDS 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

## **UPPER DIVISION COURSES** **(Also Acceptable for Advanced Degrees)**

### **IDS 515. Intermediate Programming for Business Applications (3)**

Prerequisite: Information and Decision Systems 315 or knowledge of one computer programming language.

Intermediate programming for business applications with Java, C#, or similar languages. Data structures, control structures, and program structures. Use of object-oriented features, classes, subclasses, and inheritance for modeling and processing of business information.

### **IDS 520. Advanced Programming for Business Applications (3)**

Prerequisite: Information and Decision Systems 515.

Advanced object-oriented features using Java (abstract classes, polymorphism, interfaces, generic classes) for business application programs using graphical user interfaces. Use of multithreading for business simulation. Enhancement of business applications with multimedia and database connectivity.

## **GRADUATE COURSES** **Refer to the *Graduate Bulletin*.**

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# Interdisciplinary Programs

## Interdisciplinary Programs Offered

Major in interdisciplinary studies in three departments with the B.A. degree in liberal arts and sciences.

Major in urban studies with the B.A. degree in liberal arts and sciences.

Minor in African studies.

Minor in energy studies.

Minor in environment and society.

Minor in lesbian, gay, bisexual, and transgender studies.

Certificate in environmental studies.

For information on additional interdisciplinary programs, refer to this section of the catalog under the headings of Arabic, Asian Studies, Child and Family Development, European Studies, Gerontology, Humanities, International Business, International Security and Conflict Resolution, Jewish Studies, Latin American Studies, Liberal Studies, and Social Science.

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## Interdisciplinary Studies in Three Departments

### In the Division of Undergraduate Studies

Office: Administration 101

Telephone: 619-594-5841

FAX: 619-594-3808

### Advising

Preliminary approval of the major must be secured from the Assistant Dean of Undergraduate Studies **PRIOR TO COMPLETION OF 90 SEMESTER UNITS**. Acceptance into the program requires approval from each of three departmental advisers. Information regarding participating departments and procedures for application is available in the Division of Undergraduate Studies.

### The Major

Interdisciplinary Studies in Three Departments is a student-designed major incorporating three different disciplines into a unified theme. The application process includes submission of an essay justifying a cohesive and rational master plan and the selection of upper and lower division coursework from three participating departments. Visit [http://dus.sdsu.edu/interdisciplinary\\_studies/](http://dus.sdsu.edu/interdisciplinary_studies/) for additional information.

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Interdisciplinary Studies in Three Departments

With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 49993) (SIMS Code: 880204)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

The student master plan must be approved (AD-101) before this major may be declared.

A minor is not required with this major.

**Preparation for the Major.** A minimum of two courses (normally defined as six semester units) in each of the three departments selected in the major must be completed in the lower division as foundation for upper division courses. In departments where lower division offerings are insufficient to meet this requirement, the total minimum upper division requirement may be extended.

For students electing biology as one of the three departments for the Interdisciplinary Studies in Three Departments, the minimum requirement for the lower division preparation for the major is Biology 204, 204L, and either Biology 100 or 203 and 203L (7-8 units). The minimum requirement for the upper division major is an organismal course as described for the biology major, either both Biology 352 and 354 or both Chemistry 365 and Biology 366L, and a 500-level biology course (minimum 10 units). Other biology courses numbered 350 and above may be included as electives.

For students electing French as one of their departments, all lower division preparation for the major or equivalent competency must be completed in addition to French 301, 305A or 305B, and 421 or 422. Students electing Italian must fulfill lower division competency requirements, Italian 301, and two other upper division Italian courses.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units selected from three departments: (a) with no fewer than nine units from each of the three departments; and (b) with no fewer than six units from each of the three departments completed at San Diego State University; and (c) with minimum overall and San Diego State University grade point averages of 2.0 in each of the three departments.

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## Urban Studies

### In the College of Arts and Letters and the College of Professional Studies and Fine Arts

Office: Professional Studies and Fine Arts 105

Telephone: 619-594-6224

### Faculty

Urban studies is administered by the Urban Studies Committee. The program draws upon courses offered by faculty in the Departments of Anthropology, Chicana and Chicano Studies, Economics, Geography, Political Science, Public Affairs.

**Co-Chairs:** Antoninetti (Public Affairs) and Bosco (Geography)

**Undergraduate Advisers:** Antoninetti (Public Affairs), Bosco (Geography), Marcelli, P. (Geography)

**Committee:** Adams (Political Science), Antoninetti (Public Affairs), Bosco (Geography), Griswold del Castillo (Chicana and Chicano Studies), Marcelli, P. (Geography), Marcelli, E. (Sociology), Pérez (Anthropology), Puttitanum (Economics)

### Advising

All urban studies majors must meet at least once each semester with the urban studies program coordinator for advice on meeting general program requirements and for assignment to an urban studies adviser within the department of concentration.

## The Major

The major in urban studies is designed to prepare students for career opportunities in the urban milieu by providing an interdisciplinary major focused on the urban community, its environment and problems. The major combines the study of broad issues and theoretical concerns with specialized training in urban analytical research methodologies.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Urban Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22141)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements in the section of this catalog on "Graduation Requirements." Students are cautioned that several of the required and elective courses have prerequisites.

A minor is not required with this major.

**Preparation for the Major.** Anthropology 102; Economics 101, 102; Geography 102; Political Science 101 or 102; Sociology 101; and Economics 201 or Political Science 201 or Sociology 201 or Statistics 250. (Students who specialize in economics must take Economics 201 or Statistics 250; students who specialize in political science must take Political Science 201.) (21 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units to include 12 units selected from the following: Chicana and Chicano Studies 355; Economics 458; Geography 354; Political Science 422; Public Administration 310; and 18 units in an area of specialization (may include up to three units outside the specialization).

**Anthropology (SIMS Code: 666991).** Required: Anthropology 303, 520 or 580; and nine units selected from Anthropology 349, 430, 444, 520 (if not taken as a required course), 531, 582, 583.

**Economics (SIMS Code: 666993).** Additional preparation for the major: Information and Decision Systems 180 and Mathematics 120 or 121 or 150. Required: Economics 301 and 441; and 9-12 units selected from Economics 320, 321, 401, 489, 507, 565.

**Geography (SIMS Code: 666995).** Required: Geography 385 or 585; and 12 units selected from Geography 353, 381, 385, 554, 556, 559, 572, 585, 587, 588.

**Mexican American Border Studies (SIMS Code: 666996).** Required: Chicana and Chicano Studies 355; and 12 units selected from Chicana and Chicano Studies 301, 303, 306, 375, 596.

**Political Science (SIMS Code: 666997).** Additional preparation for the major: Political Science 101 or 102 (whichever course is not completed in preparation for the major). Required: Political Science 515; and 12 units to include Political Science 321, 334, 335, 531.

**Public Administration (SIMS Code: 666998).** Public Administration 301, 320, 450; and nine units selected from Public Administration 350, 420, 460, 510, 512, 520, 525.

**Sociology (SIMS Code: 666999).** Additional preparation for the major: Sociology 250. Required: Sociology 406\* or 407\*; and 12 units selected from Sociology 350, 355, 406\* or 407\* (if not taken as a required course), 443, 456, 457, 537, 543, 555.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the program faculty adviser and filed with the Office of Advising and Evaluations one semester before graduation.

\* Additional prerequisites required.

## Interdisciplinary Minors

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### African Studies Minor\*

**(Minor Code: 22149) (SIMS Code: 110101)**

Dr. Charles P. Toombs, Department of Africana Studies, is adviser for this minor.

The minor in African Studies consists of a minimum of 15 upper division units selected from Africana Studies 463, 465 (or French 465), 470; Humanities 460; Political Science 364; Religious Studies 328\*.

Courses in the minor may not be counted toward the major in Africana studies, humanities, political science, or religious studies, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*Additional prerequisites required.

### Energy Studies Minor\*

**(Minor Code: 19021) (SIMS Code: 777716)**

Dr. Alan R. Sweedler, Department of Physics, is adviser for this minor.

The interdisciplinary minor in energy studies consists of a minimum of 15 units, at least 12 units of which must be upper division, to include Economics 452, Environmental Science 301, Mechanical Engineering 352\*; and six units selected from Art 247 or 347, Economics 453, Electrical Engineering 380\*, 480\*, Mechanical Engineering 552\*, 556\*, Geography 370, Political Science 334, or three units of 499 with the approval of the adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Courses in the major department or required for the major may not be used to satisfy requirements for the minor.

\*Additional prerequisites may be required for courses in the minor.

### Environment and Society Minor\*

**(Minor Code: 22039) (SIMS Code: 112301)**

Dr. Sarah S. Elkind, Department of History, is adviser for this minor.

The minor in environment and society consists of 15 units, with a minimum of 12 units of upper division courses, to include three units selected from Biology 315 or Environmental Sciences 100; three units from History 441 or Philosophy 332; and nine units selected from Biology 324, 327, 354, 354L, 517, 537, 538, 540, 541; Chemistry 571; Economics 452, 453, 454, 458; Environmental Engineering 320; Environmental Science 301; Geography 354, 370, 378, 409, 483, 511, 570, 572, 573, 574, 575; Geological Sciences 205, 303, 305; History 540, 584; International Security and Conflict Resolution 310; Latin American Studies 540; Natural Science 315; Oceanography 320; Philosophy 332; Political Science 334, 564; Public Health 304; Recreation and Tourism Management 305, 485, 487; Religious Studies 376; Sociology 350; Women's Studies 540, 580, 582.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*Additional prerequisites may be required for courses in the minor.

## Lesbian, Gay, Bisexual, and Transgender Studies Minor\*

(Minor Code: 49991) (SIMS Code: 119505)

Dr. Esther D. Rothblum, Department of Women's Studies, is adviser for this minor.

The interdisciplinary minor in lesbian, gay, bisexual, and transgender studies consists of a minimum 15 units to include General Studies 321, 322, and nine units selected from English 563 (depending on theme), General Studies 340, History 406, 583 (depending on theme), Journalism and Media Studies 410, Television, Film and New Media 470, Women's Studies 360, 535; or 499 (or any other upper division course in any department with appropriate topic selected with approval of the minor adviser). Additional courses are acceptable with the approval of the adviser. No more than two elective courses may be in the same department.

Courses in the minor may not be counted towards the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*Additional prerequisites may be required for courses in the minor.

## Interdisciplinary Certificate

### Environmental Studies Certificate

(Certificate Code: 90042) (SIMS Code: 112999)

The Environmental Studies Certificate is designed for students already holding a bachelor's degree (in any field) who desire to increase their understanding of the theoretical and applied approaches to environmental problems and issues. This is not a certificate program in the hard sciences, but rather is intended to provide diverse ways for students to develop knowledge of the causes and consequences of the human impact on the environment and the impact on humans of philosophical, political, economic, spatial, and natural science perspectives. This professional development program offers a multi-disciplinary approach to environmental studies for natural resource managers, teachers, community activists, and others who are concerned about the interaction of people and the environment.

Students must complete the required units with a 2.5 grade point average. A bachelor's degree from a university is also required.

The certificate requires 15 units to include nine units selected from Economics 453, Geography 370, 573, International Security and Conflict Resolution 300, Oceanography 320, Political Science 334; and six units selected from Biology 315, 324, 327, Economics 452, 454, 489, Geography 378, 409, 570, 572, 574, Geological Sciences 301, 303, History 441, 540, International Security and Conflict Resolution 301, Philosophy 332, Public Health 304, Recreation and Tourism Management 487. Core courses can be counted in only one category; 500-numbered courses may have substantial prerequisites, but may be counted later for graduate credit toward an M.A. degree.

Students interested in the Environmental Studies Certificate will normally enroll in courses through Open University. Prior to enrollment, contact Dr. John R. Weeks, Department of Geography or Dr. Donna L. Ross, School of Teacher Education, to develop an approved program of coursework.

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# International Business

In the College of Arts and Letters and the College of Business Administration

**OFFICE:** Arts and Letters 208

**TELEPHONE:** 619-594-4505 / **FAX:** 619-594-7738

**E-MAIL:** [ib@mail.sdsu.edu](mailto:ib@mail.sdsu.edu)

**<http://www.sdsu.edu/ib>**

A member of AACSB International—The Association to Advance Collegiate Schools of Business.

## Faculty

International Business is administered by the International Business Program Committee. The program draws on courses offered by faculty in the following areas: Accountancy, Africana Studies, American Indian Studies, Anthropology, Arabic, Art, Asian and Pacific Studies, Chicana and Chicano Studies, Chinese, Communication, Comparative Literature, Economics, English, European Studies, Finance, French, Geography, German, History, Humanities, Information and Decision Systems, Italian, Japanese, Latin American Studies, Linguistics and Asian/Middle Eastern Languages, Management, Marketing, Philosophy, Political Science, Portuguese, Public Affairs, Religious Studies, Rhetoric and Writing Studies, Russian, Sociology, Spanish, and Women's Studies.

**Director:** James B. Gerber (Economics)

## Offered by International Business

Major in international business with the B.A. degree in liberal arts and sciences.

Emphases in language: Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish.

Emphases in regional/cultural studies: Africa-Middle East, Asia-Pacific, Latin America, North America, Russia and Central Europe, and Western Europe.

## The Major

International business is an interdisciplinary major that culminates in a Bachelor of Arts degree offered jointly by the College of Arts and Letters and the College of Business Administration. This program integrates coursework in business administration, foreign language, and regional/cultural studies. It offers students an opportunity to combine two emphases, one in a language and one in regional/cultural studies, and to create a focused program of study suited to their individual interests and career goals. All students are required to spend a semester abroad and to complete an internship.

Students must select one of the following combination of emphases: Arabic and Africa-Middle East, Chinese and Asia-Pacific, French and Africa-Middle East, French and North America, French and Western Europe, German and Western Europe, Italian and Western Europe, Japanese and Asia-Pacific, Portuguese and Africa-Middle East, Portuguese and Latin America, Portuguese and Western Europe, Russian and Russia-Central Europe, Spanish and Latin America, Spanish and North America, Spanish and Western Europe. Students also complete the necessary business courses to meet accreditation standards of the AACSB for a major in business administration.

High school students who are planning to select this major are strongly advised to complete the following courses prior to admission to the university: four years of one foreign language; four years of mathematics; and courses in accounting, computer programming, economics, and world history.

## Semester Abroad Requirement

All International Business majors are required to complete a semester abroad. Students may satisfy the requirement by studying abroad through one of our approved exchange programs. Students must complete 12 units of coursework in the target language. At least two out of the four courses must be upper division business courses. Students must successfully complete all four courses with a passing grade otherwise the study abroad requirement will not have been met. Students must be upper division in the major prior to submitting the

application to go abroad. Exceptions may be made in Arabic, Chinese, Japanese, and Russian. Unapproved study abroad programs will not meet the requirement.

As an alternative to studying abroad at an approved exchange program, students may choose to complete an internship abroad in the region and language of emphasis. In order to meet this requirement, students must complete a minimum of 250 hours of work abroad.

## Study Abroad Programs

The international business program currently has exchange agreements with universities in the following countries: Argentina, Brazil, Canada, Chile, China, Ecuador, France, Germany, Italy, Mexico, Peru, Portugal, Russia, Spain, and Taiwan. Please see the international business Web site for the names of the specific universities. Qualified international business majors participating in an exchange program make normal progress toward the degree while generally paying only SDSU fees.

## Internship Requirement

All students in the major must complete an internship in international business by enrolling in the International Business 495 course and interning for a minimum of 150 hours. Students have to be upper division in the major prior to completing their internship. Students may choose to complete an internship abroad, though this is not required. Students who choose to complete an internship abroad may meet the Semester Abroad Requirement, but pre-approval must be obtained from the International Business office.

## Impacted Program

The international business major is an impacted program. To be admitted to the international business major, students must meet the following criteria:

- a. Complete with a grade of C or higher: Accountancy 201 and 202; Economics 101 and 102; Economics 201 or Statistics 119; Finance 240; and Information and Decision Systems 180. Courses cannot have been taken prior to Fall 1992. These courses cannot be taken for credit/no credit (Cr/NC);
- b. Complete or test out of one language sequence: Arabic 101, 102, 201, 202 (16 units); Chinese 101, 102, 201, 202 (20 units); French 100A, 100B, 201, 210, 220, 221 (22 units); German 100A, 100B, 202, 205A, 205B (21 units); Italian 100A, 100B, 201, 211, 212, (21 units); Japanese 111, 112, 211, 212 (24 units); Portuguese 101, 201 (10 units); Russian 100A, 100B, 200A, 200B (20 units); or Spanish 101, 102, 201, 202, 211, 212 (22 units);
- c. Complete with a grade of C or higher, the regional/cultural studies emphasis from *one* of the following regions: **Africa-Middle East:** History 100 and 101; **Asia-Pacific:** Asian Studies 100 and 101; **Latin America:** Latin American Studies 101; **North America:** Six units (one pair) selected from Chicana and Chicano Studies 141A, 141B; History 109, 110; or Political Science 101, 102; **Russia and Central Europe:** Six units selected from Classics 140; European Studies 101; History 105, 106 (recommended); **Western Europe:** Six units selected from Classics 140; European Studies 101; History 105, 106 (recommended). These courses cannot be taken for credit/no credit (Cr/NC);
- d. Complete a minimum of 60 transferable semester units;
- e. Have a cumulative GPA of 2.90 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment). After satisfying the above supplementary admissions criteria, students must submit documentation (unofficial transcripts, grade cards, etc.) to the program adviser before they can be admitted to the upper division major.

## Advising

All students admitted to the university with a declared major in International Business are required to attend an advising meeting with the program adviser during their first semester on campus.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## International Business Major

With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 05131)

Language	Region	SIMS Code
Arabic	Africa/Middle East	113685
Chinese	Asia	113602
French	Africa/Middle East	113638
	North America	113622
	Western Europe	113613
German	Western Europe	113614
Italian	Western Europe	113616
Japanese	Asia	113603
Portuguese	Africa/Middle East	113686
	Latin America	113610
	Western Europe	113617
Russian	Central Europe	113608
Spanish	Latin America	113612
	North America	113648
	Western Europe	113619

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major. International Business majors may not complete a minor or double major in the College of Business Administration or in the language or regional/cultural emphases used to satisfy major requirements.

No courses in the preparation for the major may be taken for Cr/NC; **the minimum grade in each course in lower division business is C.**

**Preparation for the Major.** (Complete I, II, and III: 34-51 units)

**I. Business:** Accountancy 201, 202; Economics 101, 102; Economics 201 or Statistics 119; Finance 240; and Information and Decision Systems 180. (21 units)

**II. Language Emphasis** (choose one language): The lower division language course requirements may also be satisfied by successful results on certain standardized language examinations; contact the adviser of the appropriate language department for details. Students whose high school instruction was taught in a language other than English may not take that language as their emphasis in the major. (Exceptions can be made for students enrolled in dual or triple degree programs. Please see the International Business office for details.)

Arabic 101, 102, 201, 202. (16 units)  
Chinese 101, 102, 201, 202. (20 units)  
French 100A, 100B, 201, 210, 220, 221. (22 units)  
German 100A, 100B, 202, 205A, 205B. (21 units)  
Italian 100A, 100B, 201, 211, 212. (21 units)  
Japanese 111, 112, 211, 212. (24 units) **(Not open to speakers of Japanese who have completed compulsory education through junior high school in Japan.)**  
Portuguese 101, 201. (10 units)  
Russian 100A, 100B, 200A, 200B. (20 units)  
Spanish 101, 102, 201, 202, 211, 212. Spanish 281 replaces 201 and 211; and Spanish 282 replaces 202 and 212 for U.S. Hispanics. (22 units)

**III. Regional/Cultural Studies Emphasis** (choose one region):

*Africa-Middle East:* History 100 and 101.

*Asia-Pacific:* Asian Studies 100 and 101.

*Latin America:* Latin American Studies 101.

*North America:* Six units (one pair) selected from Chicana and Chicano Studies 141A, 141B; History 109, 110; or Political Science 101, 102.

*Russia and Central Europe:* Six units selected from Classics 140; European Studies 101; History 105, 106 (recommended).

*Western Europe:* Six units selected from Classics 140; European Studies 101; History 105, 106 (recommended).

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** (Complete I, II, and III below: 54-60 units) **A minimum grade point average of 2.0 in each of the three areas is required for graduation. No course in the major may be taken Cr/NC unless the course is only offered Cr/NC.**

**I. Business.** (All preparation for the major in the business and language portions of this major must be completed, plus additional supplementary admissions criteria must be met, before enrolling in any upper division courses in Business Administration):

**Specialization:** A minimum of 29 upper division units to include Business Administration 300; Finance 323, 329; Information and Decision Systems 302; Management 350, 405; Marketing 370, 376; and completion of one of the following areas of specialization:

Finance: Two 300 or 400-level courses in finance.

Management: Two 300 or 400-level courses in management. (Recommended: Management 357.)

Marketing: Two 300 or 400-level courses in marketing.

Students choosing management as their specialization may not take Management 401.

**II. Language Emphasis** (choose one language):

Arabic 301, 302, and 350 or 496. (12 units)

Chinese 301, 302, 431, 434. (12 units)

French 301, 302, 422, and 423. (12 units)

German 300, 301, and six units selected from German 400, 410, 411, 430 and 520. (12 units)

Italian: 12 units selected from Italian 301, 305A, 305B, 421, 422 or 424.

Japanese 311, 312, 321 or 322, 411. (16 units) (Not open to speakers of Japanese who have completed compulsory education through junior high school in Japan.)

Portuguese 301, 401, 443, 535. (12 units)

Russian 301, 303, 430, 501. (12 units)

Spanish 301, 302 (or 381 and either 350, 491 or 493), 307, 497 (12 units). Spanish 381 replaces 301 and 302 for U.S. Hispanics.

**III. Regional/Cultural Studies Emphasis** (Choose one region. A maximum of five courses may be applied to the major.) All international business majors are required to complete a study abroad or internship abroad experience of at least one semester in length. See the international business study abroad adviser to arrange for the study abroad, and the internship adviser to contract for the internship. Students who choose the study abroad option are still required to complete an internship (International Business 495). Students who choose the internship abroad option may earn credit for International Business 495.

*Africa-Middle East:* International Business 495, 498, and a minimum of nine units, with no more than two courses from one department selected from Africana Studies 463, 470; Arabic 330; Art 569\*; Communication 371; Comparative Literature 440; French 465; History 473, 488, 574; Humanities 460; Political Science 363, 364, 393, 496; Religious Studies 320, 328; Women's Studies 580.

*Asia-Pacific:* International Business 495, 498, and a minimum of nine units, with no more than two courses from one department selected from Anthropology 450, 582; Asian Studies 458\*, 459\*, 471; Chinese 352\*, 433\*, 451\*, Communication 371; Comparative

I B

Literature 451, 530; Economics 330, 360, 365; History 420, 421, 422, 566, 567, 570; Japanese 321, 322, 412\*, 421, 422, 496; Philosophy 351, 575; Political Science 362, 393, 496, 575\*; Religious Studies 339\*, 345\*; Women's Studies 331.

**Latin America:** International Business 495, 498, and a minimum of nine units, with no more than six units from one department, selected from Anthropology 442, 582; Art 562; Chicana and Chicano Studies 306, 310, 350A, 355, 375, 376, 380, 400; Communication 371; Economics 360 (recommended), 365, 464, 565; Geography 323, 324, 353; History 415, 416, 550, 551, 552, 558; Latin American Studies 307, 320, 340, 350, 366, 510, 550, 560, 580; Political Science 366, 393, 482, 496, 566, 567, 568, 575\*; Portuguese 307, 535; Public Administration 580\*; Spanish 341, 342, 406A, 406B, 491\*, 492\*, 493\*; Women's Studies 310, 512, 580.

**North America:** International Business 495, 498, and a minimum of nine units, with no more than six units from one department selected from Africana Studies 320, 321, 322; American Indian Studies 320, 331, 440; Anthropology 444, 446; Art 560; Chicana and Chicano Studies 301, 303, 306, 310, 320, 335, 340A, 350A, 350B, 355, 375, 376, 380, 400, 480; Communication 371; Economics 330, 338, 565; English 494, 519, 525; Geography 321, 353, 354; History 450W, 445, 532, 536, 540, 544B, 545, 550, 551; Humanities 370; Latin American Studies 320, 550; Linguistics 524; Political Science 305, 320, 321, 334, 335, 347A, 347B, 348, 422, 436, 478, 496, 531, 568; Public Administration 485; Religious Studies 390A-390B; Sociology 320, 335, 355, 421, 430, 433, 531, 537; Spanish 342, 515; Women's Studies 341A, 341B, 375.

**Russia and Central Europe:** International Business 495, 498, and a minimum of nine units with no more than six units from one department, selected from Communication 371; Economics 330; Humanities 330; Political Science 359, 393, 496; Russian 311, 435, 441, 470.

**Western Europe:** International Business 495, 498, and a minimum of nine units, with no more than six units from one department, selected from Anthropology 582; Art 558; Communication 371; Comparative Literature 512, 513, 514; Economics 330, 360; European Studies 301, 424, 501; French 305A, 305B, 421, 424; Geography 336, 353; German 320, 430, 520\*; History 407, 408, 504, 505, 506, 507, 512A, 512B, 528; Humanities 310, 320, 340, 401, 402, 403, 404; Italian 305A, 305B; Philosophy 411, 412, 413, 414; Political Science 356, 393, 496; Portuguese 534; Spanish 340, 405A, 405B, 491\*, 492, 493\*; Women's Studies 340.

A maximum of six units of courses numbered 496 and 596 may be applied to the major with the approval of the International Business adviser.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the international business program adviser and filed with the Office of Advising and Evaluations one semester before graduation.

- \*Indicates courses with prerequisites not included in requirements listed above.
- @ One of these courses is required of students choosing Chinese to satisfy the language emphasis of the major.
- + Required of students choosing Chinese to satisfy the language emphasis.
- # Required of students choosing Japanese to satisfy the language emphasis.

## MEXUS Dual Degree

MEXUS is a transnational dual degree program between San Diego State University and universities in Mexico. Students have the option of choosing among three universities in Mexico: 1) CETYS University; 2) Universidad Autónoma de Baja California (UABC); or 3) Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM). Students may enter the program at any one of these schools, must spend a minimum of one-and-one-half years of study each in the U.S. and in Mexico, and follow a pre-determined curriculum.

Participants in the MEXUS program are enrolled in the International Business major at San Diego State University.

Approximately one-half of all of these requirements are completed in Spanish while attending a school in Mexico. Successful participants earn both the Bachelor of Arts degree in liberal arts and sciences with a major in International Business, emphases in Spanish and Latin America from SDSU, and a equivalent degree from one of the three universities in Mexico.

## SanBrazil Dual Degree

SanBrazil is a transnational dual degree program between San Diego State University and Pontifícia Universidade Católica Do Rio de Janeiro (PUC-Rio). Students may enter the program at either of the two schools, must spend a minimum of two years of study each in the U.S. and in Brazil, and follow a pre-determined curriculum.

Participants in SanBrazil are enrolled in the International Business major at San Diego State University.

Approximately one-half of all of these requirements are completed in Portuguese while attending school in Brazil. Successful participants earn the Bachelor of Arts degree in liberal arts and sciences with a major in International Business, emphases in Portuguese and Latin America from SDSU, and the Graduação em Administração de Empresas from PUC-Rio.

## SanDiQué Dual Degree

The SanDiQué program is a partnership between San Diego State University and the University of Quebec. Students may enter the program at either of the two universities, must spend a minimum of one-and-one-half years of study in both the United States and Canada, and follow a pre-determined curriculum.

Participants in the SanDiQué program are enrolled in the International Business major at San Diego State University.

In addition to completing 49 units of General Education requirements at SDSU, students in the SanDiQué program must complete 81 units of international business courses. Approximately one-quarter of all these requirements are completed in French while attending school in Canada. Students are also required to participate in an internship program, which provides SanDiQué students with the opportunity to work for an international institution and to develop a network of contracts in the private or public community, a vital step toward employment after graduation.

## San Paraíso Dual Degree

San Paraíso is a transnational dual degree program between San Diego State University (SDSU) and the Universidad de Valparaíso (UV). Students may enter the program at either of the two schools, must spend a minimum of one year of study each in the United States and in Chile, and follow a pre-determined curriculum.

Participants in San Paraíso are enrolled in the International Business major at San Diego State University.

Approximately a quarter of all of these requirements are completed in Spanish while attending school in Chile. Successful participants earn both the Bachelor of Arts degree in liberal arts and sciences with a major in international business, emphases in Spanish and Latin America from SDSU and the Licenciatura en Comercio Internacionales from UV.

## CaMexUS Triple Degree

CaMexUS is a transnational triple degree program between San Diego State University (SDSU), the Université du Québec à Chicoutimi (UQAC), and the Universidad Autónoma de Baja California (UABC). Students may enter the program at any of the three schools, must spend a minimum of one year of study in Canada, Mexico, and the United States, and follow a pre-determined curriculum.

Participants in CaMexUS are enrolled in the International Business major at San Diego State University.

In addition to completing 49 units of General Education requirements at SDSU, students in the CaMexUS program must complete 85 units of international business courses. Approximately a quarter of all of these requirements are completed in French while attending school in Canada, and another quarter of these requirements are completed in Spanish while attending school in Mexico. Successful participants earn three degrees: 1) the Bachelor of Arts degree in liberal arts and sciences with a major in International Business, emphases in French and North America from SDSU; 2) the Baccalauréat en Administration from UQAC; and 3) the Licenciatura en Negocios Internacionales from UABC.

## PanAmerica Triple Degree

PanAmerica is a transnational triple degree program between San Diego State University (SDSU), Universidad de Valparaiso (UV), and Universidad Autonoma de Baja California (UABC). Students may enter the program at any of the three schools, must spend a minimum of one year of study in the Chile, Mexico, and the United States, and follow a pre-determined curriculum.

Participants in PanAmerica are enrolled in the International Business major at San Diego State University.

Approximately one-half of all of these requirements are completed in Spanish while attending school in Chile and Mexico. Successful participants earn the Bachelor of Arts degree in liberal arts and sciences with a major in International Business, emphases in Spanish and Latin America from SDSU, a Licenciatura en Comercio Internacionales from UV, and a Licenciatura en Negocios Internacionales from UABC.

## Courses (I B)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### I B 296. Topics in International Business (1-3)

Selected topics in international business. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

#### I B 299. Special Study (3-6)

Prerequisite: Pre-International Business major.  
Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### I B 490. Senior Honors Thesis (3) Cr/NC

Prerequisites: Senior standing and consent of honors thesis adviser.

Directed research or project on a topic related to international business chosen in consultation with the honors adviser and completion of a senior honors thesis. Required of students wishing to graduate with an Honors Certificate of Recognition in International Business.

#### I B 495. International Business Internship (3) Cr/NC

Prerequisites: Consent of instructor; upper division standing in the major.

Internships with international business firms, nonprofit organizations, and government agencies in U.S. and abroad. Work done under joint direction of activity sponsor and instructor. Project report and internship conferences required. Maximum credit three units.

#### I B 498. Doing Business Internationally (1) Cr/NC

Prerequisite: Upper division status in the major.  
Required business customs and protocol course pertinent to all regions.

#### I B 499. Special Study (1-6)

Prerequisite: International business major.  
Individual study. Maximum credit six units.

I B

### UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)

#### I B 596. Topics in International Business (1-3)

Prerequisite: Upper division standing.

Selected topics in international business. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.



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# International Security and Conflict Resolution

In the College of Arts and Letters,  
the College of Professional Studies and Fine Arts, and  
the College of Sciences

**OFFICE:** Nasatir Hall 116

**TELEPHONE:** 619-594-3768 / **FAX:** 619-594-7302

**E-MAIL:** [iscor@mail.sdsu.edu](mailto:iscor@mail.sdsu.edu)

The international security and conflict resolution major is overseen by the Institute for International Security and Conflict Resolution (IISCOR) and administered by the International Security and Conflict Resolution (ISCOR) curriculum committee. The major includes courses offered by faculty in the Colleges of Arts and Letters; Health and Human Services; Professional Studies and Fine Arts; and Sciences.

International security and conflict resolution are seen as involving more than international relations and the more traditional focus on military power and the threat or use of force. They extend into such areas as arms control, economic development, human rights, and resources and the environment.

International security and conflict resolution are also viewed from the domestic context through the lens of homeland security. Interconnections between international and domestic security concerns in the U.S. and other nations are explored.

## Faculty

*ISCOR Program Director and Undergraduate Adviser:*

Gupta (Political Science); Greb (International Security and Conflict Resolution)

*ISCOR Curriculum Committee:* Alexseev (Political Science),

Baron (History), Freeman (Theatre, Television, and Film), Frost (Geological Sciences), Ghosh (Women's Studies), Graubart (Political Science), Guang (Political Science), Gupta (Political Science), McIlwain (Public Affairs), Spitzberg (Communication), Sweedler (Physics), Varadarajan (Political Science), Zhang (Sociology)

## Offered by International Security and Conflict Resolution

Major in international security and conflict resolution with the B.A. degree in liberal arts and sciences.

Minor in international security and conflict resolution.

## The Hansen Chair in Peace Studies

International Security and Conflict Resolution plays a central role in the administration of the Hansen Chair in Peace Studies, an endowed chair responsible for organizing and coordinating activities focusing on the impact of resolution of various world and regional disputes. Appointees to the chair also serve as a member of the Advisory Board of the Fred J. Hansen Institute for World Peace.

## The Major

International security and conflict resolution is an interdisciplinary program leading to a Bachelor of Arts degree in liberal arts and sciences. The program requires and integrates coursework from natural sciences, social and behavioral sciences, and humanities.

In order to provide both breadth and depth for the courses of study, all students are required to complete a set of courses addressing the major themes of the development of global systems and the nature of conflict and conflict resolution. All students must select an integrated set of courses from different disciplines focused on an area of

specialization related to international security and conflict resolution in global systems, in cooperation, conflict and conflict resolution; or in environment and security.

Those completing the major will be prepared for careers in business, government, international relations or nonprofit organizations at the local, state, national or international level as they relate to international security and conflict resolution. Alternatively, majors will be prepared to pursue graduate or professional studies in a particular discipline or area related to international security and conflict resolution.

## Advising

Students are required to meet with the undergraduate adviser in order to declare the major. All students admitted to the university with a declared major in international security and conflict resolution are urged to meet with the undergraduate adviser during their first semester.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## International Security and Conflict Resolution Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22103) (SIMS Code: 113801)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans for each student are filed with both the ISCOR undergraduate adviser and the Office of Advising and Evaluations.

A minor is not required with this major.

It is strongly recommended that international security and conflict resolution majors consider either a minor or a second major in a foreign language. In addition, international security and conflict resolution majors may wish to obtain language certification in a foreign language or to include a period of study abroad. Many career positions related to an international security and conflict resolution major will require demonstrated competency in a foreign language.

It is also recommended that international security and conflict resolution majors consider either a minor, even a second minor, if a minor in a foreign language is taken, in an area studies programs, e.g., African Studies, Asian Studies, European Studies, Islamic and Arabic Studies, or Latin American Studies. Many career positions related to an international security and conflict resolution major will require a strong background in a particular region and/or culture, perhaps tied in with a specific foreign language. The program also requires at least one preapproved study abroad experience.

**Study Abroad Requirement.** All international security and conflict resolution majors are required to complete a study abroad experience. To meet this requirement, majors must complete one of the following with the preapproved and written consent of the undergraduate adviser:

1. A CSU Study Abroad Program;
2. An SDSU Exchange Program;
3. An SDSU Semester Abroad Program;
4. An SDSU Study Travel Program;

5. An international security and conflict resolution internship abroad, independent study abroad, or thesis abroad;
6. International Security and Conflict Resolution 450.

See the undergraduate adviser to make arrangements to meet the study abroad requirement.

**Preparation for the Major.** (27 units) International Security and Conflict Resolution 200; Economics 101, 102; History 101; Political Science 103; Religious Studies 101; and three units from each of the following groups:

1. Anthropology 102 or Geography 102;
2. Comparative Literature 270B, History 100, or Philosophy 101;
3. Economics 201, Political Science 201, Psychology 280 or Sociology 201, Statistics 119 or 250.

Recommended for General Education in the Natural Sciences: In the Life Sciences, Biology 100 or 101; in the Physical Sciences, Chemistry 100, Geography 101 or Physics 107.

**Language Requirement.** It is strongly recommended that international security and conflict resolution majors consider either a minor or a second major in a foreign language. In addition, international security and conflict resolution majors may wish to obtain language certification in a foreign language. A minimum competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement (excluding American Sign Language). Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include 18 units in International Security and Conflict Resolution 300, 301, 310, 320 and either 495 or 497; Political Science 375; and 18 units from one of the three specializations: Global Systems; Cooperation, Conflict, and Conflict Resolution; or Environment and Security.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the undergraduate adviser and filed with the Office of Advising and Evaluations.

#### **Specialization in Global Systems (SIMS Code: 113802)**

This specialization focuses on the political, economic, and social characteristics of global systems, which include the study of international relations, comparative regional studies, and internationally mobile populations. An understanding of global systems will provide the context for analyzing issues of international security, cooperation and conflict.

**Requirements for specialization.** A minimum of 18 units to include Economics 360; six units selected from International Security and Conflict Resolution 575; Economics 330; Political Science 577; six additional units from courses listed above or from Aerospace Studies 400B; Anthropology 350<sup>++</sup>; Chicana and Chicano Studies 306; Economics 365; Geography 312<sup>+</sup>, 554<sup>+</sup>; History 408 or 486 or 512A or 512B; History 543<sup>++</sup> or 544B; Political Science 361 or 478 or 479 or 555 or 560; Sociology 350<sup>++</sup>; Women's Studies 580<sup>+</sup>; and three units from Asian Studies 459; Chicana and Chicano Studies 355; History 421, 474, 564; Political Science 363, 364, 566. International Security and Conflict Resolution 450<sup>+</sup> can be substituted for a maximum of one three unit course in this specialization with the approval and written consent of the undergraduate adviser.

#### **Specialization in Cooperation, Conflict, and Conflict Resolution (SIMS Code: 113803)**

This specialization is concerned with exploring the causes, nature, consequences, management, and resolution of conflict. It will consider the psychology, sociology, economics, politics and history of

cooperation, conflict and conflict resolution. It will address issues of war and peace, nationalism, civil war, terrorism, human rights, and ethnic hostility as they impact international security.

**Requirements for specialization.** A minimum of 18 units to include three units of International Security and Conflict Resolution 421; nine units selected from Africana Studies 445<sup>+</sup> or Psychology 340<sup>++</sup> or Sociology 410<sup>++</sup>; Communication 371<sup>++</sup>, 555<sup>++</sup>; Philosophy 512<sup>++</sup>; Political Science 302, 370, 531<sup>++</sup>, or Sociology 457<sup>++</sup>, or Women's Studies 530<sup>+</sup>; Political Science 577; Religious Studies 379 or Sociology 338<sup>+++</sup>; Social Work 350; Sociology 433<sup>++</sup>, 537<sup>++</sup>; three units selected from Africana Studies 321<sup>+</sup>; American Indian Studies 331<sup>++</sup>; History 486, 512A, 534, 574; Political Science 363, 364, 566; Sociology 355<sup>++</sup>; Women's Studies 375, 536<sup>++</sup>; and three units selected from International Security and Conflict Resolution 575; Journalism and Media Studies 408; Philosophy 329; Political Science 479; Public Administration 530<sup>+</sup>. International Security and Conflict Resolution 450<sup>+</sup> can be substituted for a maximum of one three unit course in this specialization with the approval and written consent of the undergraduate adviser.

#### **Specialization in Environment and Security (SIMS Code: 113804)**

Issues related to the environment and the utilization of energy and natural resources are important aspects of international security and often are related to cooperation and conflict between nations and groups within states. The purpose of this specialization is to provide the student with the necessary background to better understand this aspect of international security and the management and resolution of conflict.

**Requirements for specialization.** A minimum of 18 units to include nine units selected from Biology 315<sup>++</sup>; Economics 452; Environmental Science 301; Geography 370<sup>+</sup>; Political Science 334; Public Health 362; Sociology 350<sup>++</sup>; and nine units selected from courses listed above or from International Security and Conflict Resolution 575; Biology 324<sup>+</sup>, 354<sup>+</sup>; Economics 453, 489; Geography 378<sup>+</sup>, 570<sup>+</sup>, 574<sup>+</sup>; History 441; Natural Science 333; Philosophy 329, 332; Public Health 304. International Security and Conflict Resolution 450<sup>+</sup> can be substituted for a maximum of one three unit course in this specialization with the approval and written consent of the undergraduate adviser.

- + Course requires prerequisites other than those listed above.
- ++ Additional prerequisites other than those listed above may be required depending upon lower division courses taken for preparation for major (and/or for General Education).
- +++ Consent of instructor.

### **International Security and Conflict Resolution Minor (SIMS Code: 113801)**

The minor in international security and conflict resolution consists of a minimum of 18 units to include International Security and Conflict Resolution 300, 301, 310, 320, Political Science 375 and three units selected from Anthropology 102, Economics 101, Geography 102, History 101, Political Science 103, or Religious Studies 101.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Study Abroad Requirement.** All international security and conflict resolution minors are required to complete a study abroad experience. To meet this requirement, minors must complete one of the following with the preapproved and written consent of the undergraduate adviser:

1. A CSU Study Abroad Program;
2. An SDSU Exchange Program;
3. An SDSU Study Abroad Program;
4. An SDSU Study Travel Program;
5. International Security and Conflict Resolution 450.

See the undergraduate adviser to make arrangements to meet the study abroad requirement.

ISCOR

## **Courses (ISCOR)**

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### **LOWER DIVISION COURSE**

#### **ISCOR 200. International Security and Conflict Resolution (3)**

Comprehensive picture of multidisciplinary international and conflict resolution (ISCOR) program.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **ISCOR 300. Global Systems (3) [GE]**

Prerequisite: Nine units of General Education requirements in Foundations of Learning, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.

Evolution and development of global systems, characteristics of contemporary and global systems and formulation of criteria for projecting the future of the systems.

#### **ISCOR 301. Conflict and Conflict Resolution (3) [GE]**

Prerequisite: Nine units of General Education requirements in Foundations of Learning, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.

Conflict resolution as an emerging field; theories of conflict; methods and implications of conflict management including group, institutional, and international level analysis.

#### **ISCOR 310. Our Global Future: Values for Survival (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B. Social and Behavioral Sciences.

Identifies resource and social crises toward which contemporary American values are leading, examines the nature of human action; contrasts other value systems with ours; considers origins of our values and the individual's potential for changing them. Interdisciplinary.

#### **ISCOR 320. International Security in the Nuclear Age (3) [GE]**

Prerequisites: Upper division standing. Nine units of General Education requirements in Foundations of Learning, to include three units each in Natural Sciences and Quantitative Reasoning, in Social and Behavioral Sciences, and in Humanities.

International security issues from historical, ethical, economic and sociopsychological perspectives, including the security environment after the Cold War and current sources of conflict. The proliferation of weapons of mass destruction, including nuclear weapons is discussed.

#### **ISCOR 421. Alternative Dispute Resolution: Theory and International Applications (3)**

Prerequisite: Upper division standing.

Theory of collaborative negotiation and mediation, practice of negotiation and mediation skills and techniques, and focus on personal styles of mediation and collaborative negotiating. Emphasis on resolving conflicts on the international level.

#### **ISCOR 450. Study Abroad in International Security and Conflict Resolution (3)**

Prerequisite: Upper division standing. *Class Schedule* may have other prerequisites.

Selected topics in international security and conflict resolution. Course taught abroad. Potential additional prerequisites and location of course and organizational meetings. May be repeated once with new content. See *Class Schedule* for specific content. Maximum credit six units.

#### **ISCOR 495. Internship in International Security and Conflict Resolution (3)**

Prerequisites: Senior standing. Nine units of international security and conflict resolution core courses and nine units in selected specialization. Consent of instructor.

Supervised internship of 150 hours in government or nongovernmental agency, office or business in an area directly related to international security and conflict resolution.

#### **ISCOR 496. Selected Topics in International Security and Conflict Resolution (1-3)**

Selected topics in international security and conflict resolution. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **ISCOR 497. Thesis in International Security and Conflict Resolution (3)**

Prerequisites: Senior standing. Nine units of international security and conflict resolution core courses and nine units in selected specialization. Consent of instructor.

An original and comprehensive written description and analysis of a problem or problem area in international security and conflict resolution.

#### **ISCOR 499. Special Study (1-3)**

Prerequisites: Consent of instructor. Six units of international security and conflict resolution core courses and six units in specialization. Individual study. Maximum credit six units.

### **UPPER DIVISION COURSE (Also Acceptable for Advanced Degrees)**

#### **ISCOR 575. Homeland Security (3)**

Prerequisite: Upper division or graduate standing.

Evaluates components of homeland security. Research and analysis of homeland security policies and laws. Comparisons between homeland security policies and laws of various nations. Links between conflict abroad and homeland security in the United States.

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# Italian

In the Department of European Studies  
In the College of Arts and Letters

**OFFICE: Education and Business Administration 304**  
**TELEPHONE: 619-594-5111 / FAX: 619-594-8006**  
**E-MAIL: [italian.coord@sdsu.edu](mailto:italian.coord@sdsu.edu)**  
**<http://italian.sdsu.edu/>**

## Faculty

Emeritus: Vergani, G., Vergani, L.

Chair: Benkov

Assistant Professor: Clò

Lecturer: Sylvers

## Offered by the Department of European Studies

Major in European studies, with emphasis in Italian.

**See** European Studies.

Major in international business, with emphasis in Italian.

**See** International Business.

Minor in Italian.

## Italian Minor

**(Minor Code: 11049) (SIMS Code: 113701)**

The minor in Italian consists of a minimum of 15 units taught in Italian, nine units of which must be in upper division Italian courses. Any course taught in English needs department approval to apply to the minor requirements.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

Students who minor in Italian are strongly encouraged to participate in the California State University International Programs (CSU-IP) and other approved study abroad programs in Italian-speaking countries.

## Interdisciplinary Studies in Three Departments

Students selecting Italian as one of their departments in this major must complete Italian 301, all lower division competency requirements, and at least two upper division Italian courses.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Italian to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Italian 201 or 211 or the equivalent level of achievement. The usual sequence of coursework is Italian 100A, 100B, and 201 or 211. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

ITAL

## Courses (ITAL)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Italian will not receive credit for taking lower division courses in Italian except with advance approval from the department.**

**All lower division courses in Italian are taught in Italian.**

**No credit will be given for lower division courses taken after successfully completing any upper division Italian course taught in Italian.**

**No credit will be given when Italian 100A, 100B, 211, 212, and 301 are taken concurrently or out of sequence. Italian 201 may only be taken after completing Italian 100B, but may be taken concurrently with Italian 211 or 212.**

### ITAL 100A. Elementary Italian I (5) [GE]

Pronunciation, speaking and writing, readings on Italian culture and civilization, essentials of grammar. Not open to students who have completed three years of high school Italian unless the third course was completed five or more years ago.

### ITAL 100B. Elementary Italian II (5) [GE]

Prerequisite: Italian 100A or two years of high school Italian.

Continuation of Italian 100A. Not open to students who have completed four years of high school Italian unless the fourth course was completed five or more years ago.

### ITAL 201. Reading and Speaking Italian (3) [GE]

Prerequisite: Italian 100B or three years of high school Italian. Italian minors and international business majors are encouraged to enroll concurrently in Italian 212 when available. Recommended for students wanting to satisfy the language graduation requirement.

Emphasis on spoken language with readings of cultural material serving as a basis for discussion. Not open to students who have completed five years of high school Italian unless the fifth course was completed five or more years ago.

### ITAL 211. Intermediate Italian I (4) [GE]

Four lectures and one hour of laboratory.

Prerequisite: Italian 100B or three years of high school Italian.

Comprehensive review of Italian grammar and practice of all language skills at intermediate level within context of Italian culture. Not open to students who have completed five years of high school Italian unless the fifth course was completed five or more years ago.

**ITAL 212. Intermediate Italian II (4) [GE]**

Four lectures and one hour of laboratory.

Prerequisite: Italian 211.

Continuation of Italian 211. Comprehensive review of Italian grammar and practice of all language skills at intermediate level within context of Italian culture. Italian minors and international business majors are encouraged to concurrently register in Italian 201.

**ITAL 296. Topics in Italian Studies (1-4)**

Prerequisite: Italian 100B or three years of high school Italian.

Topics in Italian language and culture. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Taught in Italian.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**All upper division Italian courses are taught in Italian unless otherwise noted.**

**ITAL 301. Advanced Oral and Written Composition (3) [GE]**

Prerequisites: Eleven units of 200-level Italian and completion of the General Education requirement in Foundations of Learning II. C., Humanities.

Grammar review. Reading of modern Italian prose, with written reports and oral discussions in Italian. Italian 301 is not open to students who hold the Italian secondary school diploma.

**ITAL 305A. Italian Literature (3) [GE]**

Prerequisites: Eleven units of 200-level Italian and completion of the General Education requirement in Foundations of Learning II. C., Humanities.

Important movements, authors and works in Italian literature from Middle Ages to the Renaissance.

**ITAL 305B. Italian Literature (3) [GE]**

Prerequisites: Eleven units of 200-level Italian and completion of the General Education requirement in Foundations of Learning II. C., Humanities.

Continuation of Italian 305A from the Renaissance to the present.

**ITAL 421. Italian Civilization (3) [GE]**

Prerequisites: Eleven units of 200-level Italian and completion of the General Education requirement in Foundations of Learning II. C., Humanities.

Major aspects of Italian civilization with emphasis on art, music, history, and cinema.

**ITAL 422. Issues in Italian Studies (3)**

Interdisciplinary approach to major themes and figures of Italian culture. Emphasis on social, literary, artistic, and political movements underlying development of contemporary Italy.

**ITAL 424. Italian Cinema (3)**

Two lectures and two hours of activity.

Prerequisite: Italian 212.

Development of Italian cinema. Previewing lectures enhance cultural comprehension. Post-viewing discussions stimulate ideas for written work and final projects. Lectures and discussions in Italian.

**ITAL 426. Italian American Culture (3)**

Prerequisite: Upper division standing.

Italian American experience of migration, identity formation, ethnic conflict, integration and assimilation, in a variety of genres and media, from literature to film, music and theatre, fiction and non-fiction. Taught in English.

**ITAL 495. Internship (3) Cr/NC**

Prerequisites: Upper division standing and consent of instructor.

Practical work experience in a field related to Italian studies. Work done under joint direction of activity sponsor and instructor. Approved international internships may count toward international experience requirement for certain majors.

**ITAL 496. Selected Topics (1-4)**

Topics in Italian language, literature, culture and linguistics. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units. Conducted in English or in Italian.

**ITAL 499. Special Study (1-3)**

Prerequisites: Italian 301 and 305A or 305B.

Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in Italian available in any given semester.

**UPPER DIVISION COURSE  
(Also Acceptable for Advanced Degrees)**

**ITAL 510. Italian and Italoophone Cultural Studies (3)**

Prerequisites: Italian 301 and 421.

Artistic, intellectual, literary, social and political trends in Italy and in diaspora. May be repeated with new title and content. Maximum credit six units.

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# Japanese

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE: Education and Business Administration 334**  
**TELEPHONE: 619-594-5268 / FAX: 619-594-4877**  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman  
Professor: Higurashi  
Associate Professor: Kitajima  
Lecturer: Yamaga

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Major in Japanese.  
Minor in Japanese.

## Offered by International Business

Major in international business, with emphasis in Japanese.

## The Major

Japanese is the fastest growing language in U.S. higher education. Due to the interdependence between the U.S. and Japan, as well as Japan's role in the world economy, the importance of Japanese has become evident.

Students who major in Japanese will gain proficiency in Japanese language skills, and the department offers a broad variety of courses designed to prepare majors for a number of careers after graduation. A major in Japanese is also a good preparatory curriculum for graduate programs in such areas as international business, international law, librarianship, public administration, and journalism.

A knowledge of Japanese is a valuable asset in finding positions as interpreters and translators employed by the federal government, the United Nations, international conferences, trade councils, and publishers, as well as internationally oriented companies, government agencies, the press corps, and the tourism industry. It also gives graduates an advantage in looking for positions in Japan in such areas as language teaching, business consulting, or journalism.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Japanese Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 11081) (SIMS Code: 113902)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 63 units in Japanese courses can apply to the degree.

Students majoring in Japanese must complete a minor in another field to be approved by the departmental adviser in Japanese.

All students with transfer credits must take placement test at the Student Testing, Research and Assessment Office at SDSU.

**Note:** Speakers of Japanese who have completed compulsory education through junior high school in Japan, or those who pass level one of the Japanese Language Proficiency Test, created and edited by The Association of International Education and the Japan Foundation, or equivalent, will receive no credit for Japanese 311, 312, 321, 322, 411, 412, 421, and 422.

**Preparation for the Major.** Japanese 111, 112, 211, and 212. (24 units) A maximum of 24 lower division units of Japanese courses may be used to satisfy degree requirements.

**Language Requirement.** The language requirement is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units in Japanese to include Japanese 311, 312, 321, 322, 352, 411, 412, 421, 422, and 480. No more than one upper division Japanese course taught in English may be applied to the major.

## Japanese Minor

**(SIMS Code: 113901)**

The minor in Japanese consists of a minimum of 24 units taught in Japanese, at least 12 units of which must be in upper division Japanese courses. Any course taught in English needs department approval to apply to the minor requirements.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of eight upper division units must be completed in residence at San Diego State University.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Japanese to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Japanese 211 or the equivalent level of achievement. The usual sequence of coursework is Japanese 111, 112, and 211. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Japanese Language Proficiency Test

The Japanese language proficiency test is taken to assess the proficiency level and to place students at the most appropriate level in the curriculum of the Japanese language program at San Diego State University. Students who have special backgrounds, and those SDSU students who took Japanese elsewhere, including SDSU students who participated in exchange programs, are required to meet with the program adviser and to take this examination.

Test dates and times are listed in the "Special Tests" section of the *Class Schedule*.

JAPAN

## Courses (JAPAN)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Native speakers of Japanese will not receive credit for taking lower division courses except with advance approval from the department.**

**All lower division courses in Japanese are taught in Japanese.**

**No credit will be given for lower division courses taken after successfully completing any upper division Japanese course taught in Japanese.**

**No credit will be given for Japanese 111, 112, 211, 212 taken out of sequence.**

#### JAPAN 111. Elementary Japanese I (6) [GE]

Six lectures and one hour of laboratory.

Elementary language skills: fundamental grammar, idiomatic expressions, hiragana, katakana, and basic kanji characters. Reading, writing, speaking, oral-aural drills, and relationship between language and culture. Not open to students who have completed three years of high school Japanese unless the third course was completed five or more years ago. (Formerly numbered Japanese 101.)

#### JAPAN 112. Elementary Japanese II (6) [GE]

Six lectures and one hour of laboratory.

Prerequisite: Japanese 111.

Continuation of Japanese 111. Preparation for Japanese 211. Not open to students who have completed four years of high school Japanese unless the fourth course was completed five or more years ago. (Formerly numbered Japanese 102 and 202.)

#### JAPAN 211. Intermediate Japanese I (6) [GE]

Six lectures and one hour of laboratory.

Prerequisite: Japanese 112.

Continuation of Japanese 112. More kanji and grammar. Further development of language competence for advanced courses in Japanese. Preparation for Japanese 212. (Formerly numbered Japanese 201 and 303.)

#### JAPAN 212. Intermediate Japanese II (6) [GE]

Six lectures and one hour of laboratory.

Prerequisite: Japanese 211.

Strengthening communication skills in Japanese; various literary styles; additional kyoiku kanji. Cultural values shaping modern Japanese society; intercultural communication. Preparation for Japanese 311.

#### JAPAN 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### JAPAN 299. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Japanese are taught in Japanese unless otherwise stated.**

**No credit will be given for Japanese 311, 312, 411, 412 taken out of sequence.**

#### JAPAN 311. Third Year Japanese I (4) [GE]

Four lectures and one hour of laboratory.

Prerequisites: Japanese 212 and completion of the General Education requirement in Foundations of Learning II.C., Humanities. General Education prerequisite not required for Japanese majors.

Continuation of Japanese 212. Strengthening of communication skills in Japanese; various literary styles; all kyoiku kanji. Cultural values shaping modern Japanese society; intercultural communication. Preparation for Japanese 312.

#### JAPAN 312. Third Year Japanese II (4) [GE]

Four lectures and one hour of laboratory.

Prerequisites: Japanese 311 and completion of the General Education requirement in Foundations of Learning II.C., Humanities. General Education prerequisite not required for Japanese majors.

Further strengthening of communication skills in Japanese; various literary styles; introduction of chugaku kanji. Social and economic issues in Japan and the U.S.; cultural values shaping business conduct in Japan; characteristics of Japanese management; intercultural communication. Preparation for Japanese 411.

#### JAPAN 321. Advanced Japanese Discourse (4)

Prerequisite: Japanese 212.

Development of advanced communication skills through Japanese media such as Japanese news broadcasts and television drama. Focus on listening comprehension.

#### JAPAN 322. Advanced Conversation Through Media (4)

Prerequisite: Japanese 311.

Development of advanced communication skills through Japanese media such as Japanese news broadcasts and television drama. Focus on oral communication.

#### JAPAN 352. Introduction to Japanese Linguistics (3)

Descriptive analysis of Japanese language. Sound system, words, sentence structures, history of language and language variation. Taught in English.

#### JAPAN 411. Fourth Year Japanese I (4)

Prerequisite: Japanese 312.

Continuation of Japanese 312. Further strengthening of communication skills in Japanese; various literary styles; more chugaku kanji. Social and economic issues in Japan and in the U.S.; cultural values shaping business conduct in Japan; characteristics of Japanese management; intercultural communication. Preparation for Japanese 412.

#### JAPAN 412. Fourth Year Japanese II (4)

Prerequisite: Japanese 411.

Continuation of Japanese 411. Further strengthening of communication skills in Japanese; various literary styles; more chugaku kanji. Social and economic issues in Japan and the U.S.; cultural values shaping business conduct in Japan; characteristics of Japanese management; intercultural communication.

#### JAPAN 421. Japanese Literature Through Text and Film (4)

Prerequisite: Japanese 312.

Japanese literature from earliest times to present. Major works of modern Japanese fiction as a literary genre and their cinematic inter-pretation.

#### JAPAN 422. Newspaper Reading and Advanced Composition (4)

Prerequisite: Japanese 411.

Development of reading and writing skills through texts taken from current Japanese newspapers and broadcast news.

#### JAPAN 480. Business Japanese (4)

Prerequisite: Japanese 411.

Commercial Japanese, with emphasis on economic principles necessary for financial analysis and management, including banking system, foreign exchange market, stock market, and derivatives. Terminology and techniques used in Japanese commercial transaction. Japanese business rhetoric.

#### JAPAN 495. Japanese Internship (1-3)

Prerequisites: Upper division standing in the major and approval of instructor.

Practical work experience in a field related to Japanese studies. Work done under joint direction of activity sponsor and instructor.

#### JAPAN 496. Topics in Japanese Studies (1-4)

Topics in Japanese language, literature, culture and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units.

#### JAPAN 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

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# Jewish Studies

In the College of Arts and Letters

**OFFICE: Arts and Letters 384**  
**TELEPHONE: 619-594-5327 / FAX: 619-594-8696**  
**<http://jewishstudies.sdsu.edu>**

## Faculty

Jewish studies is administered by the Modern Jewish Studies Executive Board of San Diego State University. Faculty assigned to teach courses in modern Jewish studies are drawn from the Departments of English and Comparative Literature; European Studies; History; Linguistics and Asian/Middle Eastern Languages; and Religious Studies.

**Director and Undergraduate Adviser:** Risa Levitt (Religious Studies)

### Committee:

Bar-Lev (Linguistics, Emeritus)  
Baron (History)  
Cayleff (Women's Studies)  
Cummins-Lewis (English)  
Grossbard (Economics)  
Harris, J. (Electrical and Computer Engineering)  
Koster (Information and Decision Systems)  
Levitt (Religious Studies)  
McIlwain (Public Affairs)  
Mohammed (Religious Studies)  
Moore (Religious Studies)  
Shapovalov (Russian)  
Stover (Library)  
Strom (Artist-in-Residence)

## Offered by Jewish Studies

Major in modern Jewish studies with the B.A. degree in Liberal Arts and Sciences.

Minor in Jewish studies.

## The Major

Modern Jewish studies is a multidisciplinary major which provides an understanding of Jewish civilizations as the result of the interactions of Jewish culture, history, politics, and religion with other civilizations in societies where Jews have been the dominant majority population (the first two Jewish commonwealths and the modern state of Israel) and in those of the diaspora Jewish communities where Jews have been a minority group.

Students will be expected to obtain proficiency in Hebrew. They will develop an understanding of the major events in Jewish history starting with the biblical period through the centuries of diaspora to the Holocaust and the creation of the modern state of Israel. Students will be exposed to main Jewish beliefs, ideas, and traditions which have arisen in these different historical contexts. They will also become familiar with Jewish visual and literary expressions of culture. It is hoped that the study of Jewish civilizations will foster an awareness of how the Jewish experience reflects the universal dynamic of how ethnic, religious, or racial minorities interact with majority societies (i.e., discrimination and persecution, acculturation, integration, syncretism, and resistance to assimilation).

Those completing the major will be prepared for careers or further graduate training in the foreign service, overseas business, education, social services, multi-media productions, visual and literary arts, advocacy organizations, museum work, and the ministry.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible. Students must receive major advising in the first semester they declare Modern Jewish Studies as their major and must do so no later than the first semester of their junior year.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Modern Jewish Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 15102) (SIMS Code: 114102)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Jewish Studies 130 and either Religious Studies 100 or 101 or 103. (6 units)

**Language Requirement.** Hebrew 101, 102, 200, and 201.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units.

### Culture and Society Area (9 units)

Comparative Literature 405/English 405. The Bible as Literature (3)  
English 526. Topics in Literature of the United States:

Jewish American Literature (3)

History 436. Modern Jewish History in Feature Films (3)

History 527/European Studies 527. The Holocaust in Feature Films (3)

Russian 435. Russian and Central European Jewish Literature (3)

### History Area (9 units)

History 440. The Holocaust and Western Civilization (3)

History 474. The Middle East Since 1500 (3)

History 488. Modern Jewish History (3)

History 574. Arab-Israeli Relations, Past and Present (3)

### Religion and Thought Area (9 units)

Hebrew 471. Kabbalah as a Symbolic System (3)

Religious Studies 301. Hebrew Bible (3)

Religious Studies 320. Judaism (3)

Religious Studies 330. Abrahamic Faiths: Shared Stories (3)

Religious Studies 373. Women and the Bible (3)

Religious Studies 581. Major Theme: Jewish and Christian Origins (3)

JS



**Electives (3 units)**

Jewish Studies 495. Jewish Studies Internship (3) Cr/NC

Jewish Studies 496. Topics in Jewish Studies (1-3)

(May be repeated with new content)

Hebrew 330. Hebrew Discourse and Literature (3)

Hebrew 496. Topics in Hebraic Studies (1-4) (May be repeated with new content) (Maximum credit eight units)

Hebrew 499. Special Study (1-3) (Maximum credit six units)

A maximum of six units outside of Jewish Studies may be counted toward the major with the approval of the adviser. Students may not double count courses taken for the required and core areas for elective use and vice versa.

**Jewish Studies Minor**

**(SIMS Code: 114103)**

Dr. Risa Levitt Kohn, Department of Religious Studies, is adviser for this minor.

The Jewish studies minor provides a balanced interdisciplinary study of Jewish contributions to world culture and history. It serves the needs of students who plan to (1) specialize in disciplines in which an understanding of Jewish contributions is essential, or (2) follow careers in teaching, community service, foreign service, or the ministry. Students seeking a minor in Jewish studies may want to consider combining it with a major in Social Science with an emphasis in Islamic and Arabic Studies. Many courses relevant to this major are available in anthropology, economics, geography, history, political science, and sociology.

The minor consists of a minimum of 19-20 units to include seven to eight units selected from Jewish Studies 130 or Religious Studies 100, 101, or 103; and Hebrew 101, 102, 200, or 201; and 12 upper division units selected from Jewish Studies 495, 496; Comparative Literature 405/English 405; Hebrew 471, 496; History 436, 440, 488, 574; Religious Studies 301, 320, 330, 581; and other relevant courses may be counted as part of the 12 upper division units taken with the approval of the adviser for Jewish Studies.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

**Courses (JS)**

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

**LOWER DIVISION COURSES**

**JS 130. The Jewish Heritage (3) [GE]**

Hebraic and Jewish influences on the arts, literature, philosophy, and religion of Western civilization.

**JS 296. Topics in Jewish Studies (1-3)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**JS 495. Jewish Studies Internship (3) Cr/NC**

Six hours per week at agency and one hour every other week with SDSU supervising faculty member.

Prerequisites: Upper division status and consent of supervising instructor.

Internship with local Jewish service agencies and non-profit organizations. Work to be done under direction of activity supervisor and SDSU instructor. Written project report and internship conferences required every other week with SDSU faculty adviser. Maximum credit six units.

**JS 496. Topics in Jewish Studies (1-3)**

Prerequisite: Upper division status.

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

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# Journalism and Media Studies

In the College of Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 361**  
**TELEPHONE: 619-594-5450 / FAX: 619-594-6246**  
**E-MAIL: [jms@mail.sdsu.edu](mailto:jms@mail.sdsu.edu)**  
**<http://jms.sdsu.edu>**

The advertising, journalism, and public relations programs are accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC).

## Faculty

Emeritus: Broom, Brown, Buckalew, Hartung, Martin, Odendahl, Spevak  
Director: Borden  
The Lionel Van Deerlin Professor of Communication and Public Policy: Eger  
Professors: Borden, Davis, Dozier, Eadie, Mueller, Wulfemeyer  
Associate Professors: Sha, Zhong  
Assistant Professors: Arceneaux, Schmitz Weiss, Shen  
Lecturers: Barker, Lockwood, McBride, Ulrich

## Offered by the School

Master of Arts degree in communication with specialization in:  
Mass communication and media studies.  
Major in journalism with the B.A. degree in liberal arts and sciences:  
Emphasis in advertising.  
Emphasis in media studies.  
Emphasis in public relations.  
Minor in advertising.  
Minor in journalism.  
Minor in public relations.

## The Lionel Van Deerlin Professor of Communication and Public Policy

More than 40 major communications companies contributed to establish The Lionel Van Deerlin Professor of Communication and Public Policy. The professorship serves as the center for the study of public policy and issues affecting the communications/information field, about which Lionel Van Deerlin was vitally concerned during his 18 years in Congress. The current holder of the professorship is John M. Eger.

## General Information

The School of Journalism and Media Studies envisions a global society where citizens are engaged in their communities; where media professionals are ethical and committed to social justice, and embrace technology to serve the public good; and where people from all backgrounds think critically about the media. The school's curricula reflect these very important themes. Students are required to take a set of core classes in global communication and technology, ethics and law, and research methods for professional communicators. They also complement their in-class work with internships and service-learning projects in the community. Programs within the school prepare students for careers in advertising, journalism, public relations, and other media industries, as well as for jobs in a technologically driven workforce landscape whose future media forms cannot be predicted. The School of Journalism and Media Studies also prepares students to enter careers as analysts, producers, and editors of media content in government and private industry, as well as for graduate education in a variety of disciplines and the law.

## Impacted Programs

Programs in the School of Journalism and Media Studies are impacted. Students must enter the university under the designated major code for the selected program. To be admitted to the selected program, refer to the program description for specific impacted criteria.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education courses will also fulfill a major preparation course requirement.

## Journalism Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 06021) (SIMS Code: 664101)**

JMS

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Selecting the B.A. degree in liberal arts and sciences requires meeting the language requirement.

Journalism education emphasizes the training of writers, reporters, and editors for the mass media. It also seeks to prepare and guide students interested in pursuing careers in a wide range of informational and interpretive multimedia environments. The courses offered in the journalism major are designed to give students a working knowledge of the skills, concepts, values, and ethics needed to succeed as professional communicators. Courses focus on the basic elements of factual and analytical writing, editing, producing, designing, history, communication law and theory, and responsibility of the mass media.

Career opportunities for journalism graduates are diverse, including book editing and publishing, freelance writing, industrial journalism, magazines, communication research, news agencies, newspapers, radio, television, teaching, and online electronic publishing.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment). No more than 40 units in journalism and media studies courses can apply to the B.A. degree in Liberal Arts and Sciences. Lower division activity/production courses in newspaper, magazine, yearbook, or broadcasting may not be applied toward the B.A. in journalism.

Accreditation standards require that all advertising, journalism, and public relations majors at SDSU complete at least 80 units of coursework outside the major, with 65 of those units in the liberal arts and sciences. To satisfy this 65-unit requirement, students must follow their major requirements and complete 18 units within an Auxiliary Discipline. (See JMS Advising Center or JMS Web site for a list of eligible Auxiliary Discipline programs.)

**Impacted Program.** The journalism major is designated as an impacted program. To be admitted to the journalism major, students must meet the following criteria:

- Complete with a minimum grade point average of 3.0 and a grade of C or higher: Journalism and Media Studies 200, 220, Economics 101, Political Science 101, 102. *These courses cannot be taken for credit/no credit (Cr/NC);*
- Achieve a passing score on the Grammar, Spelling and Punctuation test by the third attempt;
- Complete a minimum of 45 baccalaureate level semester units. A maximum of 90 semester units is recommended. (A minimum of 60 units is required for all transfer applicants.);
- Have a cumulative grade point average of 3.0 or higher.

Applicants not meeting the above minimum requirements may petition for admission to the journalism major. See the School of Journalism and Media Studies advising office for further information.

**Preparation for the Major.** Journalism and Media Studies 200, 220; Economics 101; Political Science 101, 102. Some of these courses also may be used to fulfill lower division general education requirements. (15 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 3.0 and a grade of C or higher in each class.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Journalism and Media Studies 310W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include Journalism and Media Studies 300, 310W, 375, 420, 470, 489, 494, 550; three units selected from Journalism and Media Studies 315, 430, 445; and six units selected from Journalism and Media Studies 315, 425, 430, 440, 441, 445, 490C, 529.

**Auxiliary Discipline.** Students selecting the journalism major are required to complete 18 units in an approved auxiliary discipline. See school for list of approved disciplines.

### Emphasis in Advertising

(Major Code: 06041) (SIMS Code: 661108)

To complete the advertising emphasis, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

Students in this major must complete a minimum of 80 units of coursework taken from academic departments outside of the School of Journalism and Media Studies. Of units taken toward the bachelor's degree, students must complete a minimum of 65 units of coursework taken to fulfill General Education requirements and/or from courses offered by academic departments that are part of the College of Arts and Letters and/or the College of Sciences. To determine the courses that will satisfy these units, contact the School of Journalism and Media Studies (PSFA 366).

**Impacted Program.** The advertising emphasis is designated as an impacted program. To be admitted to the advertising emphasis, students must meet the following criteria:

- Complete with a minimum grade point average of 3.0 and a grade of C or higher: Journalism and Media Studies 200, 220, Economics 101, and Political Science 101, 102. *These courses cannot be taken for credit/no credit (Cr/NC);*
- Achieve a passing score on the Grammar, Spelling and Punctuation test by the third attempt;
- Complete a minimum of 45 baccalaureate level semester units. A maximum of 90 semester units is recommended. (A minimum of 60 units is required for all transfer applicants.);
- Have a cumulative grade point average of 3.0 or higher.

Applicants not meeting the above minimum requirements may petition for admission to the advertising emphasis. See the School of Journalism and Media Studies advising office for further information.

**Preparation for the Major.** Journalism and Media Studies 200, 220; Economics 101; Political Science 101, 102. Some of these courses also may be used to fulfill lower division general education requirements. (15 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 3.0 and a grade of C or higher in each class.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Journalism and Media Studies 310W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include Journalism and Media Studies 310W, 375, 460, 461, 489, 494, 560, 565; three units selected from Journalism and Media Studies 300, 440, 480; and six units of upper division coursework in Journalism and Media Studies.

**Auxiliary Discipline.** Students selecting the advertising emphasis are required to complete 18 units in an approved auxiliary discipline. See school for list of approved disciplines.

### Emphasis in Media Studies

(Major Code: 15060) (SIMS Code: 661110)

To complete the media studies emphasis, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Impacted Program.** The media studies emphasis is an impacted program. To be admitted to the media studies emphasis, students must meet the following criteria:

- Complete with a minimum grade point average of 3.0 and a grade of C or higher: Journalism and Media Studies 200 and nine units selected from Economics 101, 102, Political Science 101, 102, Psychology 101, Sociology 101, Television, Film and New Media Production 160. *These courses cannot be taken for credit/no credit (Cr/NC);*
- Complete a minimum of 45 baccalaureate level semester units. A maximum of 90 semester units is recommended. (A minimum of 60 units is required for all transfer applicants.);
- Have a cumulative grade point average of 3.0 or higher.

**Preparation for the Major.** Journalism and Media Studies 200 and nine units selected from Economics 101, 102, Political Science 101, 102, Psychology 101, Sociology 101, Television, Film and New Media Production 160. (12 units) These prerequisite courses may not be taken Cr/NC and must be completed with a minimum grade point average of 3.0 and a grade of C or higher in each class.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Journalism and Media Studies 375, 408, 412, 450, 489, 492, 494; nine units selected from Media Studies topics courses: Journalism and Media Studies 300, 409, 410, 440, 460, 475, 480, 505, 506, 574, 589, 591, Professional Studies and Fine Arts 330, Television, Film and New Media 430; and six units selected from Discovery of the Media courses: Africana Studies 465 or French 465, American Indian Studies 435, Asian Studies 530, Chicana and Chicano Studies 400, Communication 482, 492, English 493, European Studies 424, 527 (or History 527), Gerontology 370, History 435, Psychology 344, 442, Religious Studies 364, Television, Film and New Media 363.

**Minor.** Students selecting the media studies emphasis are required to complete a minor. Recommended minors include art, educational technology, management, marketing, and theatre arts. See journalism and media studies advising for details.

### Emphasis in Public Relations

(Major Code: 05992) (SIMS Code: 661109)

To complete the public relations emphasis, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

Students in this major must complete a minimum of 80 units of coursework taken from academic departments outside of the School of Journalism and Media Studies. Of units taken toward the bachelor's degree, students must complete a minimum of 65 units of coursework taken to fulfill General Education requirements and/or from courses offered by academic departments that are part of the College of Arts and Letters and/or the College of Sciences. To determine the courses that will satisfy these units, contact the School of Journalism and Media Studies (PSFA 366).

**Impacted Program.** The public relations emphasis is designated as an impacted program. To be admitted to the public relations emphasis, students must meet the following criteria:

- Complete with a minimum grade point average of 3.0 and a grade of C or higher: Journalism and Media Studies 200, 220, Economics 101, and Political Science 101, 102. *These courses cannot be taken for credit/no credit (Cr/NC);*
- Achieve a passing score on the Grammar, Spelling and Punctuation test by the third attempt;
- Complete a minimum of 45 baccalaureate level semester units. A maximum of 90 semester units is recommended. (A minimum of 60 units is required for all transfer applicants.);
- Have a cumulative grade point average of 3.0 or higher.

Applicants not meeting the above minimum requirements may petition for admission to the public relations emphasis. See the School of Journalism and Media Studies advising office for further information.

**Preparation for the Major.** Journalism and Media Studies 200, 220; Economics 101; Political Science 101, 102. Some of these courses also may be used to fulfill lower division general education requirements. (15 units)

These prerequisite courses may not be taken Cr/NC and must be completed with a minimum GPA of 3.0 and a grade of C or higher in each class.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Journalism and Media Studies 310W and earn a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include Journalism and Media Studies 310W, 375, 480, 481, 489, 494, 581, 585; three units selected from Journalism and Media Studies 300, 440, 460; and six units of upper division coursework in Journalism and Media Studies.

**Auxiliary Discipline.** Students selecting the public relations emphasis are required to complete 18 units in an approved auxiliary discipline. See school for list of approved disciplines.

## Advertising Minor

(Minor Code: 06041) (SIMS Code: 661118)

The minor in advertising consists of 21 units to include Journalism and Media Studies 200, 220, 310W, 460, 461, 560, 565. Admission to the advertising minor requires completion of at least 45 units with a minimum grade point average of 3.0 overall; completion of Journalism and Media Studies 200 and 220 with grades of C (2.0) or better and a grade point average of 3.0 in these two courses; and a passing score on the Grammar, Spelling and Punctuation test by third attempt.

Courses in the minor may not be counted toward the major but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

## Journalism Minor

(Minor Code: 06021) (SIMS Code: 664101)

The minor in journalism consists of 21 units to include Journalism and Media Studies 200, 220, 300, 310W, 420, 494, and three units selected from Journalism and Media Studies 315, 430, or 445. Admission to the journalism minor requires completion of at least 45 units with a minimum grade point average of 3.0 overall; completion of Journalism and Media Studies 200 and 220 with grades of C (2.0) or better and a grade point average of 3.0 in these two courses; and a passing score on the Grammar, Spelling and Punctuation test by third attempt.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

## Public Relations Minor

(Minor Code: 05992) (SIMS Code: 661121)

The minor in public relations consists of 21 units to include Journalism and Media Studies 200, 220, 310W, 480, 481, 581, 585. Admission to the public relations minor requires completion of at least 45 units with a minimum grade point average of 3.0 overall; completion of Journalism and Media Studies 200 and 220 with grades of C (2.0) or better and a grade point average of 3.0 in these courses; and a passing score on the Grammar, Spelling and Punctuation test by third attempt.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

JMS

## Courses (JMS)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### JMS 200. Introduction to Contemporary Media (3) [GE]

Mass media and emerging forms of niche media in the global community. Theories, structures, functions, practices, problems, interrelationships, economics, critical analyses, history, and ethics. (Formerly numbered Communication 200.)

#### JMS 220. Writing for the Mass Media (3)

One lecture and four hours of activity.

Prerequisites: Sophomore standing; ability to type; and a passing score on the Grammar, Spelling and Punctuation test. **Proof of completion of prerequisites required:** Grammar, Spelling and Punctuation test score and proof of sophomore standing.

Introduction to writing techniques for mass media. Laboratory practice in informational and persuasive writing, evaluation, and judgment. (Formerly numbered Journalism 220.)

#### JMS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### JMS 300. Principles of Journalism (3)

Prerequisite: Upper division standing.

Theory and practice of journalism, survey of history, ethics, law, international news systems, and social responsibility of the press. Operations of newspapers, news magazines, radio and television news departments, and other news agencies. Impact of new media and technology on journalism, economics, and management of news organizations. (Formerly numbered Journalism 300.)

### **JMS 309. Workshop (1-3) Cr/NC**

Prerequisite: Consent of instructor.

Practical experience in an area of study within the School of Journalism and Media Studies. Maximum credit three units. (Formerly numbered Communication 309B.)

### **JMS 310W. Media Writing and Reporting (3)**

Two lectures and two hours of activity.

Prerequisites: Journalism and Media Studies 220 with a grade of C (2.0) or better. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** copy of transcript. Admission to majors and minors in Advertising, Journalism, and Public Relations.

Writing for advertising, journalism, and public relations products in various media platforms. Gathering information, interviewing, conducting observations, and using online database. Laboratory and field work. (Formerly numbered Communication 310W.)

### **JMS 315. Editing for Print Media (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course.

Techniques of preparing content for print publication, including copy editing, headline writing, use of photos and graphics, and layout and design. Laboratory experience. (Formerly numbered Journalism 315.)

### **JMS 375. Media Technology in the Global Environment (3)**

Two lectures and one hour of discussion.

Prerequisites: Upper division standing and Journalism and Media Studies 200 with grade of C (2.0) or better.

Technology's crucial role in shaping the knowledge economy and communication policies affecting life and work in the global age. Digital communication, media convergence, media regulation, and economic development. (Formerly numbered Communication 375.)

### **JMS 408. Media and Society (3)**

Prerequisite: Upper division standing.

Media theories, models, and research exploring media effects, and audience uses of media. (Formerly numbered Communication 408.)

### **JMS 409. Women and Media (3)**

Prerequisites: Upper division standing. Admission to a major or minor in the School of Journalism and Media Studies. **Proof of completion of prerequisites required:** Copy of transcript.

Role of women in media, including messages about women and employment status of women. (Formerly numbered Communication 409.)

### **JMS 410. Media and Sexuality (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies. **Proof of completion of prerequisite required:** Copy of transcript.

Sexuality and sex-related issues in mass mediated news, entertainment, and advertising content. Sexuality in media and its effects on interpersonal relations, sexual identity, sexual politics, social discourse, and public policy. Portrayals of conventional sexuality and of sexual minorities.

### **JMS 412. Media and Audiences (3)**

Prerequisites: Journalism and Media Studies 408 with grade of C (2.0) or better. Admission to Media Studies specialization. **Proof of completion of prerequisites required:** Copy of transcript.

Methods used by media industries to determine size and demographics of audience. Theories and models that explain audience behavior. Individual and group-action effects on media institutions and content.

### **JMS 420. Public Affairs News Reporting (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W. Admission to Journalism major or minor. **Proof of completion of prerequisite required:** Copy of transcript.

Field and laboratory practice in news gathering and writing, covering news beats including courts, local governments, and other news sources. Emphasis on accuracy, clarity, comprehensiveness and interpretation. (Formerly numbered Journalism 420.)

### **JMS 425. Writing Opinion, Reviews, and Criticism (3)**

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Principles and practices of writing editorials and opinion essays for media outlets (print, broadcast, and online) to include writing reviews of theatre, music, books, and film. (Formerly numbered Journalism 425.)

### **JMS 430. Digital Journalism (3)**

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Using the web to publish media content and design to include how to use text, graphics, sound, and video to effectively transmit information. Role and responsibilities of media professionals as they add online publication to already established print and broadcast platforms.

### **JMS 440. Management of Media Organizations (3)**

Prerequisite: Upper division standing. **Proof of completion of prerequisite required:** Copy of transcript.

Revenue generation, marketing, distribution, production, personnel, social responsibilities, and current developments in media organizations. Planning, organizing, implementing organizational plans. (Formerly numbered Communication 440.)

### **JMS 441. Magazine and Feature Writing (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Planning, gathering material, writing and marketing articles for specialized and general publications. Production of expository articles and marketing of at least one article. (Formerly numbered Journalism 441.)

### **JMS 445. Electronic News Reporting and Producing (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Electronic news, focusing on reporting and producing newscasts. Shooting, writing, editing, and presenting news. Roles and responsibilities in electronic newsrooms to include role of producer.

### **JMS 450. Using Media to Understand Cultures (3)**

Prerequisites: Journalism and Media Studies 408 with grade of C (2.0) or better. Admission to Media Studies specialization. **Proof of completion of prerequisites required:** Copy of transcript.

Cultural phenomena through media products to include films, television programs, print media. Appreciation of various cultures and practices through analysis of media products.

### **JMS 460. Principles of Advertising (3)**

Prerequisite: Upper division standing.

Concepts, history, theory, social responsibility, management, and regulation of advertising. Survey of advertising practices, including planning, consumer and market research, creative, and media. (Formerly numbered Communication 460.)

### **JMS 461. Advertising Creative Development (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 310W and 460 with grades of C (2.0) or better in each course. Admission to Advertising majors and minors, Major Code: 06041. **Proof of completion of prerequisites required:** Copy of transcript.

Advertising creative philosophy, strategy, and tactics; art, copy, and creation of advertisements for broadcast, print, and interactive electronic media. Application of computers to creative development. (Formerly numbered Communication 461.)

**JMS 470. Multimedia News Writing (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Principles and techniques of writing news for print, online, radio-television, and emerging media platforms. Field and laboratory experience. (Formerly numbered Journalism 470.)

**JMS 475. Mediated Communication in Intercultural Contexts (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies.

Role of culture in professional fields such as advertising, journalism, media studies, and public relations. Cultural values and practices as applied to various mediated communication products and contexts.

**JMS 480. Principles of Public Relations (3)**

Prerequisite: Upper division standing.

Concepts, history, theory, social responsibility, and management of public relations. Survey of problems and practices in corporations, government agencies, associations, and not-for-profit organizations. (Formerly numbered Communication 480.)

**JMS 481. Public Relations Media and Methods (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 310W and 480 with grades of C (2.0) or better in each course. Admission to Public Relations majors and minors, Major Code: 05992. **Proof of completion of prerequisites required:** Copy of transcript.

Practical applications of public relations techniques with emphasis on writing and media usage. News releases and media relations, print and electronic communications production, multi-media techniques, speeches, other audio-visual presentations, and special events. Field and laboratory practice. (Formerly numbered Communication 481.)

**JMS 489. Research Methods in Mediated Communication (3)**

Two lectures and one hour of discussion.

Prerequisites: Upper division standing and Journalism and Media Studies 200 with grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Understanding and critically analyzing media reports of public opinion polls and other scientific research. Sampling and inferences to populations. Basic design and measurement issues. Margin of error. Levels of measure. (Formerly numbered Communication 489.)

**JMS 490A. Advertising Internship (1-3) Cr/NC**

Prerequisites: Upper division standing, consent of instructor, and Journalism and Media Studies 461 with grade of C (2.0) or better.

Supervised work at organizations engaged in professional advertising activities under combined direction of practitioners and professors. Maximum credit three units.

**JMS 490B. Public Relations Internship (1-3) Cr/NC**

Prerequisites: Upper division standing, consent of instructor, and Journalism and Media Studies 481 with grade of C (2.0) or better.

Supervised work at organizations engaged in professional public relations activities under combined direction of practitioners and professors. Maximum credit three units.

**JMS 490C. Journalism Internship (1-3) Cr/NC**

Prerequisites: Upper division standing, consent of instructor, and Journalism and Media Studies 420 with grade of C (2.0) or better.

Supervised work at organizations engaged in professional journalism activities under combined direction of practitioners and professors. Maximum credit three units.

**JMS 492. Media Convergence (3)**

Prerequisites: Journalism and Media Studies 412 and 450 with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

New and often unexpected convergence of media institutions, technology, and content. New economic and social alliances, uses, and effects.

**JMS 494. Media Law and Ethics (3)**

Prerequisites: Upper division standing and Journalism and Media Studies 200 with grade of C (2.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.

Importance of freedom of expression. Legal issues and responsibilities of print, broadcast, and online media, and applications to advertising, journalism, and public relations. Ethical dilemmas encountered by media professionals and communication specialists, including challenges posed by global technologies. (Formerly numbered Communication 502.)

**JMS 496. Experimental Topics (1-3)**

Prerequisites: Upper division standing and consent of instructor.

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**JMS 499. Special Study (1-3)**

Prerequisites: Upper division standing and consent of instructor.

Individual study or project, normally in a research area selected by the student. Maximum credit three units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

**JMS 505. Government and Telecommunications (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies. **Proof of completion of prerequisite required:** Copy of transcript.

Responsibilities of telecommunication organizations as prescribed by law, government policies and regulations, and significant court decisions. (Formerly numbered Communication 505.)

**JMS 506. Advertising and Society (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies. **Proof of completion of prerequisites required:** Copy of transcript.

Theoretical and philosophical analysis of advertising in modern society. (Formerly numbered Communication 506.)

**JMS 529. Investigative Journalism (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

History and role of investigative journalism in the U.S. Use of the Internet, public records, spreadsheets, and databases to develop stories in the public interest. Finding patterns and leads in electronic data. Field and laboratory experience. (Formerly numbered Journalism 529.)

**JMS 550. Multimedia News Laboratory (3)**

One lecture and four hours of activity.

Prerequisites: Journalism and Media Studies 300, 310W, 420 and three units selected from Journalism and Media Studies 315, 430, 445 with grades of C (2.0) or better in each course. **Proof of completion of prerequisites required:** Copy of transcript.

Capstone course using skills and knowledge acquired in critical thinking, writing, reporting, editing, production, and design courses. Teams prepare multimedia news content. Field and laboratory experience. (Formerly numbered Journalism 550.)

**JMS 560. Advertising Research (3)**

Prerequisites: Journalism and Media Studies 310W and 460 with grades of C (2.0) or better in each course. Admission to advertising majors and minors, Major Code: 06041. **Proof of completion of prerequisites required:** Copy of transcript.

Systematic application of quantitative and qualitative research to planning, design, and management of advertising campaigns. Cases, practices, and problems in application of research to consumer, market analysis, positioning, creative selection, media planning, and campaign evaluation. (Formerly numbered Communication 560.)

JMS

**JMS 565. Advertising Campaigns (3)**

Prerequisites: Journalism and Media Studies 461 and 560 with grades of C (2.0) or better in each course.

Planning and creation of advertising campaigns including situation analysis and strategy, advertising and marketing objectives, consumer analysis and target audience selection, creative development, media strategy and tactics, sales promotion, and campaign evaluation. (Formerly numbered Communication 565.)

**JMS 574. International Advertising (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies.

Comparative cultural, economic, legal, political, and social conditions relevant to international advertising. (Formerly numbered Communication 574.)

**JMS 581. Public Relations Research (3)**

Two lectures and two hours of activity.

Prerequisites: Journalism and Media Studies 310W and 480 with grades of C (2.0) or better in each course. Admission to public relations majors and minors, Major Code: 05992. **Proof of completion of prerequisites required:** Copy of transcript.

Qualitative and quantitative methods used in evaluation research to plan, track, and evaluate public relations programs. Computerized statistical analysis. (Formerly numbered Communication 581.)

**JMS 585. Professional Practices in Public Relations (3)**

Prerequisites: Journalism and Media Studies 481 and 581 with grades of C (2.0) or better in each course.

Cases in public relations management. Theory and practice of issues management, integration of the public relations function in strategic management in a variety of corporate, governmental, non-profit, social, and cultural organizations. (Formerly numbered Communication 585.)

**JMS 589. Ethical Issues in Mediated Communication (3)**

Prerequisites: Upper division standing or graduate standing. Admission to a major or minor for undergraduates in the School of Journalism and Media Studies. **Proof of completion of prerequisites required:** Copy of transcript.

Ethical challenges faced by journalists, public relations and advertising professionals, and other communication specialists. Classical and modern ethical concepts and issues as they apply to mediated communication, as well as codes of ethics. (Formerly numbered Communication 589.)

**JMS 591. International Telecommunications (3)**

Prerequisite: Admission to a major or minor in the School of Journalism and Media Studies. **Proof of completion of prerequisite required:** Copy of transcript.

Comparative study of economic, social, political determinants of broadcasting, and telecommunication systems around the world. (Formerly numbered Communication 591.)

**JMS 595. Seminar in Theoretical Approaches to Public Relations (3)**

Prerequisite: Journalism and Media Studies 585 with grade of C (2.0) or better.

Diverse theoretical approaches to public relations, including management, rhetorical, critical, relational and marketing approaches. Preparation for independent scholarly research project or master's thesis.

**JMS 596. Selected Topics (1-3)**

Prerequisite: Senior standing or above.

Specialized study in selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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**Latin**

Refer to "Classics" in this section of the catalog.

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# Korean

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 334  
**TELEPHONE:** 619-594-5268 / **FAX:** 619-594-4877  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman

**Offered by the Department of  
Linguistics and Asian/Middle Eastern Languages**  
Courses in Korean.

Major or minor work in Korean is not offered.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Korean to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Korean 201 or the equivalent level of achievement. The usual sequence of coursework is Korean 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (KOR)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Korean will not receive credit for taking lower division courses except with advance approval from the department.**

**All lower division courses in Korean are taught in Korean.**

**No credit will be given for lower division courses taken after successfully completing any upper division Korean course taught in Korean.**

**No credit will be given for Korean 101, 102, 201, 202, 301, and 302 taken out of sequence.**

### KOR 101. Elementary Korean I (5) [GE]

Language skills to include reading, writing, listening, speaking Korean at elementary level. Basic sentence patterns, useful expressions, basic communication strategies, relationship between language and culture. Not open to students who have completed three years of high school Korean unless the third course was completed five or more years ago. Not open to students with credit in Korean 102, 201, 202, 301, or a higher-numbered Korean course.

### KOR 102. Elementary Korean II (5) [GE]

Prerequisite: Korean 101 or two years of high school Korean.

Continuation of Korean 101. Elementary-level reading, writing, listening, speaking Korean. Language competence to include sentence patterns, useful expressions, communication strategies. Not open to students who have completed four years of high school Korean unless the fourth course was completed five or more years ago. Not open to students with credit in Korean 201, 202, 301, or a higher-numbered Korean course.

### KOR 201. Intermediate Korean I (5) [GE]

Prerequisite: Korean 102 or completion of the third year of high school Korean.

Acquisition of grammatical patterns of complex sentences. Expansion of vocabulary and phrases in expressing ideas in various settings. All four language skills emphasized with cultural competency. Not open to students who have completed five years of high school Korean unless the fifth course was completed five or more years ago. Not open to students with credit in Korean 202, 301, or a higher-numbered Korean course.

### KOR 202. Intermediate Korean II (5) [GE]

Prerequisite: Korean 201 or completion of the fourth year of high school Korean.

Continuation of Korean 201. Further development of four language skills with emphasis on cultural competency. Complex sentence structures and ability to write short essays. Reading of contemporary work. Not open to students with credit in Korean 301 or a higher-numbered Korean course.

### KOR 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Korean are taught in Korean unless otherwise stated.**

**No credit will be given for Korean 301 and 302 taken out of sequence.**

### KOR 301. Advanced Korean I (3) [GE]

Prerequisites: Korean 202; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Spoken and written modern Korean. Acquisition of complex sentences with advanced grammatical patterns. Development of fluency in conversing on a variety of topics in everyday situations. Not open to students with credit in Korean 302.

### KOR 302. Advanced Korean II (3) [GE]

Prerequisites: Korean 301; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Continuation of Korean 301. Spoken and written modern Korean. Acquisition of complex sentences with advanced grammatical patterns. Build competency in communicating on a variety of topics in everyday situations.

KOR



**KOR 321. Korean Civilization (3) [GE]**

Prerequisites: Upper division standing; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Development of art, religion, philosophy, political, social institutions through different periods in Korean history. Humanistic dimensions of the Korean mind, traditions, heritage. Taught in English.

**KOR 331. Business Korean I (4)**

Prerequisite: Korean 202.

Language skills to perform basic business in Korean business environment. Learn business etiquette and attain broad understanding of business culture in Korea.

**KOR 332. Business Korean II (4)**

Prerequisite: Korean 331.

Continue to develop language skills to perform business in Korean business environment. Broaden understanding of business culture in Korea. Develop language and cultural competency in business Korean.

**KOR 496. Topics in Korean Studies (1-4)**

Topics in Korean language, literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units. May be taught in English.

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# Latin American Studies

In the College of Arts and Letters

**OFFICE: Arts and Letters 377**

**TELEPHONE: 619-594-1104**

**<http://latinamericanstudies.sdsu.edu>**

## Faculty

Latin American studies is administered by the Latin American Studies Committee. Faculty assigned to teach courses in Latin American studies are drawn from Anthropology, Art, Design, and Art History, Chicana and Chicano Studies, Communication, Comparative Literature, Economics, Geography, History, Political Science, Public Affairs, Sociology, Spanish and Portuguese Languages and Literatures, Women's Studies; and the College of Business Administration.

*Chair:* Pérez

*Undergraduate Adviser:* Carruthers

*Committee:* Amuedo-Dorantes (Economics), Angelelli (Spanish), Ball (Anthropology), Blanco (Portuguese), Bosco (Geography), Carruthers (Political Science), Colston (History), Conway (Anthropology), Deffebach (Art, Design, and Art History), Del Castillo (Chicana and Chicano Studies), De Vos (History), Esbenshade (Sociology), Ewald, (Spanish), Farley (Geography), Ganster (Institute for Regional Studies of the Californias), Gerber (Economics), Godoy (Spanish), González-Rivera (Chicana and Chicano Studies), Graubart (Political Science), Herzog (Public Affairs), Ibarra (Chicana and Chicano Studies), Iglesias Prieto (Chicana and Chicano Studies), Lara (Women's Studies), Lauer (Anthropology), Lindquist (Spanish), Lyman-Hager (French), Maher (Political Science), Marcelli (Sociology), Martín-Flores (Spanish), Mattingly (Women's Studies), Mayes (Anthropology), McIlwain (Public Affairs), Murillo (History), Nericcio (English and Comparative Literature), Ojeda (Sociology and Chicana and Chicano Studies), Ortiz (Chicana and Chicano Studies), Passananti (History), Pérez (Anthropology), Robinson (Spanish and Linguistics), Sobo (Anthropology), Swanson (Geography), Talavera (Public Health), Weeks (Geography).

## Offered by Latin American Studies

Master of Arts degree in Latin American studies.

Master of Business Administration and Master of Arts in Latin American studies degrees (concurrent program).

Master of Public Health and Master of Arts in Latin American studies degrees (concurrent program).

Major in Latin American studies with the B.A. degree in liberal arts and sciences.

Minor in Latin American studies.

## The Major

The major in Latin American studies is a multidisciplinary program designed to provide an effective understanding of the cultures, histories, societies, economies, and governments of Latin America, offering basic education and training for business or professional careers that require specialized knowledge of this exciting and diverse area of the world.

A major in Latin American studies provides a multitude of career opportunities. Employment possibilities exist not only in Latin America, but throughout the world. Graduates can apply their specialization to service in international organizations and government positions at the federal or state level. Numerous employment situations can be found in the private sector. Private agencies and corporations have significant interests in Latin America and are looking for area specialists. Those students who wish to continue in their studies will find opportunities in teaching at all levels. A major in Latin American studies opens many avenues in the choice of a career.

High school students preparing to enter this program should include in the high school course of study not less than three years of study in one foreign language, preferably Spanish or Portuguese. Proficiency in either of these languages is indispensable to a successful career in this area of study.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible. Students are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Latin American Studies Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 03081) (SIMS Code: 114301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Latin American Studies 101. Three units of statistics or logic selected from Economics 201; Philosophy 120; Political Science 201; Psychology 280; Sociology 201; Statistics 119, 250. Six units of electives selected from Anthropology 102; Chicana and Chicano Studies 100; Geography 102, 106; Political Science 103. (12 units)

**Language Requirement.** Competency equivalent to that normally attained through four college semesters of Spanish or three college semesters of Portuguese or Mixtec (offered in Latin American Studies). Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All students must earn a minimum of three units by participating in a Latin American international experience such as study abroad, student exchange, internship, coursework in Tijuana, summer program, or other activities approved by the adviser.

**Major.** A minimum of 27 upper division units to include three units of international experience and nine upper division core units selected from three different departments: Latin American Studies 350, 366, 498; Anthropology 440, 441; Economics 464; Geography 323, 324; History 415, 416; Political Science 366, 482. The remaining 15 upper division elective units must be selected from courses listed below with no more than nine of the 15 units from any one department. Groups A, B, and C below are for guidance only; it is recommended that students avoid taking too many unrelated courses by concentrating their studies in one or two of the groups.

Courses numbered 495, 496, 498, 499, and 596 from all participating departments, with appropriate content, are acceptable for elective credit with approval of the adviser.

LATAM

**Group A: History, Politics, and Economics.** Latin American Studies 340, 350, 366, 370, 430, 498, 555, 560, 580; Chicana and Chicano Studies 340A, 350A, 375; Economics 365, 464, 565; History 415, 416, 550, 551, 552, 558; Political Science 361, 366, 430, 482, 566, 567, 568; Public Health 362.

**Group B: Cultures and Environments.** Latin American Studies 320, 525, 540, 550, 580; Anthropology 350, 440, 441, 442, 520, 529, 533, 540, 582\*, 583\*; Chicana and Chicano Studies 355, 554, 595; Geography 323, 324, 554\*; Political Science 564; Sociology 350, 522, 554, 555; Women's Studies 310\*, 512.

**Group C: Arts and Literature.** Latin American Studies 307, 580; Africana Studies 464; Anthropology 439; Art 561, 562, 563; Chicana and Chicano Studies 310, 376, 400; Comparative Literature 445, 580\*; English 519\*; Portuguese 307, 443, 535; Spanish 341, 342, 406A, 406B, 502, 503, 515.

\*Acceptable when of relevant content with consent of adviser.

### Latin American Studies Major (Imperial Valley Campus)

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 03081) (SIMS Code: 114302)**

The major in Latin American studies is designed to provide (1) a foundation of understanding of the history, culture and governments of the countries of Latin America and the multiple interrelationships among those countries; and (2) a basic education and training for a business or professional career involving understanding of Latin America.

A minor is not required with this major.

**Preparation for the Major.** The lower division preparation for the major can be fulfilled by taking the following courses at a community college: elementary Spanish; intermediate Spanish or bilingual Spanish; intermediate conversational Spanish or bilingual oral Spanish; advanced conversational Spanish; and 12 units selected from cultural anthropology, cultural geography, history of the Americas, introduction to political science, comparative politics, and civilization of Spanish America and Brazil.

A minimum grade point average of 2.0 is required for all work attempted.

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units selected from the courses listed below with not less than 12 units in one field and nine in two other fields. At least 33 units must be in courses having Latin American content: Anthropology 442; Art 496 (when relevant); Chicana and Chicano Studies 335, 350A, 376; Economics 365, 464, 496 (when relevant); Geography 323, 324, 496 (when relevant); History 415, 416, 496 (when relevant), 550, 551, 552, 558; Political Science 566, 567, 568; Sociology 350, 450; Spanish 406A-406B, 515; Women's Studies 310 (when relevant).

### Latin American Studies Minor\*

(SIMS Code: 114301)

The minor in Latin American studies consists of a minimum of 15 units of Latin American content courses, with a minimum of 12 units of upper division courses. In addition, all students must demonstrate

language competency equivalent to that normally attained through one college semester of Spanish, Portuguese, Mixtec, or Zapotec. All students must complete Latin American Studies 101 and two upper division courses from two of the three course groups listed below. Maximum six units from any one department.

**Group A: History, Politics, and Economics.** Latin American Studies 340, 350, 366, 370, 430, 498, 555, 560, 580; Chicana and Chicano Studies 340A, 350A, 375; Economics 365, 464, 565; History 415, 416, 550, 551, 552, 558; Political Science 361, 366, 430, 482, 566, 567, 568; Public Health 362.

**Group B: Cultures and Environments.** Latin American Studies 320, 525, 540, 550, 580; Anthropology 350, 440, 441, 442, 520, 529, 533, 540, 582\*, 583\*; Chicana and Chicano Studies 355, 554, 595; Geography 323, 324, 554\*; Political Science 564; Sociology 350, 522, 554, 555; Women's Studies 310\*, 512.

**Group C: Arts and Literature.** Latin American Studies 307, 580; Africana Studies 464; Anthropology 439; Art 561, 562, 563; Chicana and Chicano Studies 310, 376, 400; Comparative Literature 445, 580\*; English 519\*; Portuguese 307, 443, 535; Spanish 341, 342, 406A, 406B, 502, 503, 515.

Courses numbered 495, 496, 498, 499, and 596 from all participating departments, with appropriate content, are acceptable for elective credit with approval of the adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. In designing their Latin American studies programs for a minor, students may not include courses drawn from their major department.

\*Acceptable when of relevant content with consent of adviser.

### Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Mixtec to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Latin American Studies 210 or the equivalent level of achievement. The usual sequence of coursework is Latin American Studies 110, 111, and 210. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

### High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

*Secondary school language courses can be used as follows:*

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (LATAM)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Native speakers of Mixtec or Zapotec will not receive credit for taking lower division courses in Mixtec or Zapotec except with advance approval from Latin American Studies.**

**All lower division courses in Mixtec or Zapotec are taught in Mixtec or Zapotec.**

**No credit will be given for Latin American Studies 110, 111, and 210 taken out of sequence.**

#### LATAM 101. Latin American Heritage (3) [GE]

Introduction to Latin American cultures and peoples from an interdisciplinary perspective.

#### LATAM 110. Elementary Mixtec I (4) [GE]

Mixtec language and culture. Pronunciation, oral practice, reading, and listening comprehension and essentials of grammar in a communicative context and through task-based activities. Not open to students who have completed three years of high school Mixtec unless the third course was completed five or more years ago. Not open to students with credit in Latin American Studies 111.

#### LATAM 111. Elementary Mixtec II (4) [GE]

Prerequisite: Latin American Studies 110.

Continuation of Latin American Studies 110. Development of increased proficiency in Mixtec language and culture. Pronunciation, oral practice, listening comprehension, reading and writing, and grammar in a communicative context and through task-based activities. Not open to students who have completed four years of high school Mixtec unless the fourth course was completed five or more years ago.

#### LATAM 120. Elementary Zapotec I (4) [GE]

Zapotec language and culture. Pronunciation, oral practice, reading, listening comprehension, and essentials of grammar. Not open to students who have completed three years of high school Zapotec unless the third course was completed five or more years ago.

#### LATAM 121. Elementary Zapotec II (4) [GE]

Prerequisite: Latin American Studies 110.

Continuation of Latin American Studies 120. Development of increased proficiency in Zapotec language and culture. Pronunciation, oral practice, listening comprehension, reading and writing, and grammar. Not open to students who have completed four years of high school Zapotec unless the fourth course was completed five or more years ago.

#### LATAM 210. Intermediate Mixtec I (4) [GE]

Prerequisite: Latin American Studies 111.

Further development of speaking and writing skills, both extended to discourse level and with emphasis on language of everyday life. Integrated approach to learning Mixtec to include awareness and appreciation of the Mixtec culture. Not open to students who have completed five years of high school Mixtec unless the fifth course was completed five or more years ago.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### LATAM 307. Brazilian Music and Culture (3) [GE] (Same course as Portuguese 307)

Prerequisites: Upper division standing; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Brazilian music and culture with emphasis on religious and cultural practices of candomble, capoeira, carnival, and notions of race and class in contemporary Brazilian funk and hip-hop. Taught in English.

#### LATAM 320. Culture and Society of Tijuana (3)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Mexican dance, art, music, cuisine, politics, tourism industry, education, and other facets of daily life through visits to selected venues.

#### LATAM 340. Globalization and Mexican Industry (3)

Prerequisite: One course selected from Latin American Studies 101, Anthropology 102, Economics 101, Geography 102, Political Science 103.

Mexico's industrial models in comparative perspective, including tensions between regionalization and globalization, range of industrial models and production models, industry case studies, and institutional development at regional level.

#### LATAM 350. Globalization and the Americas (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II. B., Social and Behavioral Sciences.

Causes and consequences of international integration in western hemisphere, including United States and Canada. Emphasis on Latin America. Multiple dimensions of integration examined from variety of disciplinary perspectives.

#### LATAM 366. Latin American Politics (3)

(Same course as Political Science 366)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Introduction to Latin American politics. Knowledge of political change and political systems in Latin America, viewed historically and comparatively, using concepts and theories applicable to more general political analysis.

#### LATAM 370. History of Mexico: From Independence to Early Twentieth Century (3) [GE]

Prerequisites: Latin American Studies 101 or completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Cultural history of Mexico from Mexico's independence from Spain in early nineteenth century to presidency of Lazaro Cardenas. History of legacy of Caudillos, evolution of PRI, and US/Mexico relations from a Mexican perspective.

#### LATAM 430. Immigration and Border Politics (3)

(Same course as Political Science 430)

Prerequisite: Completion of the American Institutions requirement.

U.S. immigration and border politics within a global and historical perspective. Transformations of sovereignty, communities, identity, and rights within an area of mass migration and economic interdependence. Policy and popular debates about admission, border control, and incorporation of migrants.

#### LATAM 495. Latin American Studies Internship (3) Cr/NC

Prerequisite: Six upper division units in Latin American content courses.

Opportunity for Latin American studies undergraduates to implement area specialist skills. Placement with a local organization with legal, commercial, or social service functions whose activities are primarily Latin American related. May be repeated with new content. Maximum credit six units.

#### LATAM 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### LATAM 498. Seminar on Latin America (3)

Exploration of the interdisciplinary approach to Latin America including evaluation of relevant resources and methods. Taught by a team of instructors representing two or more disciplines.

#### LATAM 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

LATAM

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**LATAM 510. Latin America Research Through Primary Sources (3)**

Prerequisite: Graduate standing or 12 units of upper division coursework on Latin America.

Primary sources, both textual and material to interpret the past. Skills to conduct research in an archive, library, museum, or private collection in Latin America. How to incorporate primary sources into a major research project.

**LATAM 525. Race in Mexico: From Conquest to the Revolution (3)**  
**(Same course as Chicana and Chicano Studies 525)**

Prerequisite: Upper division or graduate standing.

Ways race and racial identities have been constructed in Mexico from early 1500s through 1940. Caste system, ideologies of mestizaje and indigenismo and their impact on revolutionary nationalism.

**LATAM 540. History, Society, and Ecology of Baja Peninsula (3)**

Prerequisites: Latin American Studies 101; Geography 102; Anthropology 102 or Political Science 103.

Historical and social anthropology of Baja Peninsula, current issues in socio-economy of a small region, relations between human activity and natural environment, flora and fauna of region, and challenges to ecological preservation.

**LATAM 550. Mexican-US Border from a Latin American Perspective (3)**

Prerequisites: Six upper division units with Latin American content. Spanish proficiency.

Multidisciplinary analysis of Mexican-US border region.

**LATAM 555. Women's Rights and Citizenship in Latin America (3)**

Prerequisites: Latin American Studies 101; Political Science 103 or Women's Studies 101.

Women's roles in war, counter-insurgency and human rights movements of 1970s and 1980s; women and social movements; female citizenship and socio-political participation in Latin American countries.

**LATAM 560. Latin America After World War II (3)**

Prerequisites: Latin American Studies 101 and Political Science 566.

Major socioeconomic and political changes in Latin America since World War II and inter-American relations during the same period. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**LATAM 580. Special Topics (1-4)**

Prerequisite: Six upper division units in Latin American content courses.

Interdisciplinary study of selected Latin American topics. Credit will vary depending on the scope and nature of the topic. Whenever appropriate, the course will be taught by a team of instructors representing two or more disciplines. May be repeated with different content. See *Class Schedule* for specific content. Maximum credit eight units.

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**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Liberal Studies

In the Division of Undergraduate Studies

**OFFICE: Liberal Studies Office (Administration 103)**

**TELEPHONE: 619-594-0597**

**<http://libst.sdsu.edu>**

## Faculty

**Coordinator:** Roeder, P. (Division of Undergraduate Studies)

Allison (English and Comparative Literature), Bedau (Theatre, Television, and Film), Cummins-Lewis (English), Egipto (Linguistics), Goldberg (Physics), Larlham, M. (Theatre, Television, and Film), McDonald (Music and Dance), Serrato (English and Comparative Literature), Thomas (English)

**Committee:** Anderson, B. (Theatre, Television, and Film), Collins-Park (Policy Studies in Language and Cross-Cultural Education), Fielden (Liberal Studies Advising), McDonald (Music and Dance), Nickerson (Mathematics), Roeder, P. (Natural Science), Roy (History), Samraj (Linguistics), Spector (Teacher Education)

## Offered by the Division

Major in liberal studies with the B.A. degree in applied arts and sciences.

## The Major

The liberal studies major is designed for students who intend to teach at the elementary or middle school level. For details on the traditional, integrated, and middle school options, see below. Individuals learn to think critically, analyze evidence thoughtfully, and write clearly and effectively. Graduates develop a rich understanding of the major subject areas—literature, linguistics, history, mathematics, science, and the visual and performing arts—including how practitioners create and evaluate new knowledge. They learn to identify and understand the developmental stages of children and to observe, interview, and tutor children effectively in classroom settings.

The major includes a number of courses specifically designed for future elementary teachers including children's literature, linguistics, mathematics, inquiry-based science, early world and United States/California history for teachers, hands-on art and performing arts courses, physical education of children, and child development. The content covered in the courses closely matches the content that teachers will ultimately have to teach in the schools as well as the content assessed by the California Subject Examination for Teachers-Multiple Subject (CSET-MS) examination.

The program includes a specially designed core of courses. During the second or third semesters, students take Education 200, Teaching as a Profession. In this course, students complete 30 hours of fieldwork during which they critically assess issues related to teaching in culturally and linguistically diverse school settings, learn about career paths, and evaluate their occupational fitness for the teaching profession. During the junior year, students take Liberal Studies 300, Introduction to Liberal Studies, and complete an additional 30 hours of fieldwork. Students focus both on the nature of the disciplines—goals, processes, and evaluation—as well as how the knowledge being learned will ultimately be used in the classroom. Throughout the first three years, students work on critical thinking, research, and writing skills. During the senior year, students complete Liberal Studies 498, Assessment in Liberal Studies. This course supports students as they complete the liberal studies writing, research, and reflection assessments; the CSET; and the application process for their credential program. They are strongly encouraged to save both syllabi and written work (examinations, projects, and other materials) from all their courses in preparation for the CSET and senior-level assessment.

## Programs

### Traditional Program

The traditional program is designed for (1) students who want additional background in an area of specialization; (2) students who wish to complete their credential program elsewhere, and (3) students who decide not to pursue a credential. Students are able to complete the traditional major and specialization in eight semesters and, if desired, a post-baccalaureate credential program during a ninth and tenth semester.

The specialization consists of 12 units in a given discipline. In some specializations, one course from the upper division major may be double counted. See the specific requirements below. Specializations focus on the major subject areas taught in the schools plus human development. Thus, graduates can help each other once they begin teaching.

### Integrated Program

No new students are being admitted to this program until further notice.

The integrated program is designed for students who want a “fast track” into the teaching profession. Students who qualify are able to complete the liberal studies major and credential coursework in nine semesters (135 units). The ninth semester may be completed at the post-baccalaureate level.

The integrated program specialization consists of (1) nine units of HIST-3, HIST-4, and HIST-6, which are double counted in the major and specialization, (2) three units (one course) in the history of one of the subject areas, and (3) nine units of credential coursework. (See specializations below.)

### Middle School Option

The middle school option is designed for students who want the flexibility of being able to teach either at the elementary or middle school level. Because of the shortage of teachers with single subject credentials in mathematics and science, liberal studies graduates have been especially successful in obtaining middle school positions in these two subject areas.

Students complete the traditional liberal studies major, one of the specializations required for the traditional program (see above), plus additional coursework in the same subject area sufficient to qualify for a 32-unit Introductory Subject Matter Authorization from the Commission on Teacher Credentialing, which is valid with a multiple subject credential. If students plan carefully, they are able to finish this special version of the liberal studies major in approximately eight semesters and the post-baccalaureate credential program during a ninth and tenth semester. Advising sheets are available at the Liberal Studies office and on the Web site.

### Advising

Advising is extremely important because students must make numerous decisions that include choosing which specialization/credential option to pursue, selecting appropriate courses, and preparing for the senior level assessments. See the Web site for current information, advising procedures, and e-mail questions. Information about SDSU credential programs and financial aid opportunities is available at the College of Education, Office of Student Services, EBA-259, 619-594-6320.

### Impacted Program

The liberal studies major is an impacted program. To be admitted to the liberal studies major, students must meet the following criteria:

- a. Complete all courses listed in Preparation for the Major sections for the liberal studies major;

LIB S

- b. Complete with a C or higher: a certified Area A1 Oral Communication course; a certified Area A3 Intermediate Composition and Critical Thinking course; Exercise and Nutritional Sciences 241A and 241B; and Mathematics 210 and 211. These courses cannot be taken for credit/no credit (Cr/NC);
- c. Earn a passing score on the SDSU Liberal Studies Mathematics Proficiency Assessment;
- d. Complete a minimum of 60 transferable semester units;
- e. Have a cumulative GPA of 2.50 or higher;
- f. Declare the liberal studies major by following the procedures explained on the Web site.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Liberal Studies Major

**With the B.A. Degree in Applied Arts and Sciences**

**(Major Code: 49015) (SIMS Code: 886453)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

**Completion of the liberal studies major fulfills General Education requirements.**

A minor is not required for this major.

**Cultural Perspective Requirement.** Liberal studies majors are strongly encouraged to include at least one course that approaches its subject from an ethnic perspective. Consider the courses under LANG-1, 2, or 3 or HIST-2 or -3 that are indicated by a star (\*).

**Preparation for the Major.** (56–56.5 units)

### Language and Literature

LANG-1. Complete with a grade of C or higher [cannot be taken for credit/no credit (Cr/NC)]: Three units selected from Africana Studies 140\*, Chicana and Chicano Studies 111A\*, Communication 103<sup>1</sup>.

LANG-2. Three units selected from Africana Studies 120\*; American Indian Studies 120\*, Chicana and Chicano Studies 111B\*; English 100; Linguistics 100; Rhetoric and Writing Studies 100, 101<sup>2</sup>.

LANG-3. Complete with a grade of C or higher [cannot be taken for credit/no credit (Cr/NC)]: Three units selected from Africana Studies 200\*, Chicana and Chicano Studies 200\*, English 200; Linguistics 200, Philosophy 110, Rhetoric and Writing Studies 200<sup>3</sup>.

LANG-4. Three units selected from Comparative Literature 270A, 270B; English 220.

<sup>1</sup> Upper division transfer students fulfill this area with any certified oral communication (A1) transfer course.

<sup>2</sup> Upper division transfer students fulfill this area with any certified written communication (A2) transfer course.

<sup>3</sup> Upper division transfer students fulfill this area with any certified critical thinking (A3) transfer course.

### History and Social Science

HIST-1. Geography 106.

HIST-2. Three units selected from Africana Studies 170A\*, American Indian Studies 140\*, Chicana and Chicano Studies 141A\*, History 109.

HIST-3. Three units selected from Africana Studies 170B\* (recommended), American Indian Studies 141\* (recommended), Chicana and Chicano Studies 141B\* (recommended), History 110, Political Science 102.

HIST-4. History 100.

### Mathematics

MATH-1. Complete with a grade of C or higher [cannot be taken for credit/no credit (Cr/NC)]: Mathematics 210.

MATH-2. Mathematics Education 212 (1-1.5 units). (Recommended: Taken concurrently with Mathematics 210.)

MATH-3. Complete with a grade of C or higher [cannot be taken for credit/no credit (Cr/NC)]: Mathematics 211.

### Science

SCI-1. Three units (or four units including laboratory) selected from Geological Sciences 104 and 101 (laboratory).

SCI-2. Three units (or four units including laboratory) selected from Biology 100 and 100L (laboratory).

SCI-3. Laboratory from either category SCI-1 or SCI-2.

### Visual and Performing Arts

VPA-1. Three units selected from Art 157 or Theatre 120.

VPA-2. Three units selected from Dance 102 or Music 102.

### Development, Health, and Physical Education

DHP-1. Complete with a grade of C or higher [cannot be taken for credit/no credit (Cr/NC)]: Exercise and Nutritional Sciences 241A (1 unit) and 241B (1 unit).

DHP-2. Health: Health and Human Services 280 or Teacher Education 296 – Health Education for Teachers (1 unit).

DHP-3. Three to six units selected from: Child and Family Development 170 or Teacher Education 170 (3 units); Psychology 101 and Psychology 230 (six units)<sup>1</sup>.

<sup>1</sup> Upper division transfer students may substitute a transfer course equivalent to SDSU course Child and Family Development 270 in lieu of Child and Family Development 170 or Teacher Education 170.

### Education

ED-1. Education 200.

### General Education Humanities

HUM-1. One course selected as follows:

1) If the equivalent of the second college-level semester or higher of one foreign language has not been satisfied by high school coursework<sup>1</sup>, by examination, or by petition, select three or more units from Arabic 102; Chinese 102; Classics 202G, 202L; Filipino 102; French 100B; German 100B; Hebrew 102; Italian 100B; Japanese 112; Korean 102; Latin American Studies 111, 121; Persian 102; Portuguese 201; Russian 100B; Spanish 102; Speech, Language, and Hearing Sciences 102; Vietnamese 102.

2) If the equivalent of the second semester of one foreign language has been satisfied by one of the methods described above, select three or more units from Philosophy 101, Religious Studies 101 or 103, or a more advanced level foreign language course in the *same* language (*as the one above*)<sup>2</sup>.

<sup>1</sup> Passed third-year level of a high school foreign language.

<sup>2</sup> See "Graduation Requirements: General Education II. Foundations: Foreign Language" in the General Catalog. Discuss with an adviser.

### Physical Science Elective: (3 units)

SCI-4. Three units selected from Chemistry 308 or Natural Science 100.

**Graduation Writing Assessment Requirement.** Students must have fulfilled the Writing Placement Assessment with a score of 8 or above or with a C or better in Rhetoric and Writing Studies 280 or 281 before taking English 306W and earn a grade of C (2.0) or higher. See "Graduation Requirements" section for a complete listing of requirements.

**Upper Division Major** including required specialization. (43.5-52.5 upper division units)

### Language and Literature

LANG-5. Linguistics 420.

LANG-6. Linguistics 452.

LANG-7. English 306A. (English 306A and 306W must be taken concurrently.)

LANG-8. English 306W. (Passing with a C or higher satisfies the graduation writing assessment requirement.)

### History and Social Science

HIST-5. History 413.

HIST-6. History 411.

## Mathematics

MATH-4. Mathematics 311 (2 units)<sup>1</sup> or 312 (3 units; Imperial Valley Campus only).<sup>1</sup>

MATH-5. Mathematics 313 (3 units)<sup>1</sup> or 315 (2 units).<sup>1</sup>

<sup>1</sup> Students must pass the Liberal Studies Mathematics Proficiency Assessment prior to enrolling in Mathematics 311 or 312 and Mathematics 313 or 315. Students who do not pass are required to complete Mathematics 215 (1 unit).

## Science

SCI-5. Natural Science 412.

## Visual and Performing Arts

VPA-3 and VPA-4. Choose one of the following options:

Option I: If Art 157 and Music 102 lower division, choose Art 387 or Music 343, plus three additional units selected from Art 387, Dance 302, Music 343, Theatre 310, or Theatre 315.

Option II: If Art 157 and Dance 102, choose Art 387 or Dance 302 plus three additional units selected from Art 387, Dance 302, Theatre 310, or Theatre 315.

Option III: If Theatre 120 and Music 102 lower division, choose Art 387 plus three additional units selected from Music 343, Theatre 310, or Theatre 315.

Option IV: If Theatre 120 and Dance 102 lower division, choose Art 387 plus three additional units selected from Dance 302, Theatre 310, or Theatre 315.

## Development, Health, and Physical Education

DHP-4. Two to three units selected from Child and Family Development 375B (2 units) or Psychology 380 (3 units).<sup>1</sup>

<sup>1</sup> Prerequisite: Psychology 101.

## Nature of the Disciplines and Assessment

LS-1. Liberal Studies 300 (3 units).

LS-2. Liberal Studies 498 (0.5 units). **Passing the senior assessment Liberal Studies 498 is a graduation requirement for the major.**

**Specialization** (9-15 units) [Certain specializations include lower division courses.]

All students shall complete a specialization. For the literature, linguistics, social science, mathematics, science, art, music, theatre, and human development specializations, one course from the major may double count both in the major and specialization. If a course may double count, the requirement number from the major is listed in parentheses following the course. Thus, "English 306A (LANG-7 in major)" indicates that English 306A satisfies both requirement LANG-7 in the major and the children's literature requirement in the specialization; only nine additional units are needed to complete the specialization.

**Prerequisites are enforced:** Students should choose lower division courses carefully.

A minor may not be substituted for a specialization.

Complete one of the following specializations (listed by subject area).

### 1. LITERATURE

Prerequisite: LANG-4 in preparation for the major.

Children's Literature: English 306A (LANG-7 in major).

American Ethnic Literature: Three units selected from Africana Studies 365A, 365B; American Indian Studies 430; Chicana and Chicano Studies 335; English 519, 520; Women's Studies 352.

Shakespeare: Three units selected from English 302, 533.

General Literature: Three units selected from English 409, 410, 502, 503, 523, 524, 525.

### 2. LINGUISTICS+

Prerequisite: LANG-5 in the major.

Language Acquisition: Linguistics 452 (LANG-6 in major).

Depth: Six units selected from Linguistics 453, 524, 551, 552, 553, and either 430 or 530.

Current Issues and Applications: Linguistics 550.

+ For information on the Basic Certificate in Teaching English as a Second or Foreign Language (TESL/TEFL), see the linguistics section of the catalog.

### 3. SPANISH

(12 upper division units required; extra prerequisites may be required.)

**Native Speakers+** (Defined as high school graduates of Spanish-speaking countries.) Native speakers should see an adviser.

**Heritage Speakers+**

Prerequisite: Spanish 282. (Will be waived if student qualifies for Spanish 381.)

Foundations and Inquiry: Spanish 350 and 381.

Culture or Linguistics: Three units selected from Spanish 340, 341, 342, 448.

Literature: Three units selected from Spanish 405A, 405B, 406A, 406B.

**English Speakers+** (Defined as native English speakers and other students who cannot place into Spanish 381.)

Prerequisites: Spanish 202, 212.

Foundations and Inquiry: Spanish 301, 302, and 350.

Culture or Literature: Three units selected from Spanish 340, 341, 342, 405A, 405B, 406A, 406B.

+ Contact the Department of Policy Studies in Language and Cross-Cultural Education about the Spanish Language Proficiency and Cultural Awareness Examination, a prerequisite for the bilingual credential program.

### 4. SOCIAL SCIENCE

Prerequisites: HIST-1, HIST-2, HIST-3, and HIST-4 in preparation for the major.

Foundations and Inquiry: History 413 (HIST-5 in major).

Breadth and Current Issues: Three units selected from History 410, 412.

California: History 445.

Depth: Three units selected from Geography 321 or Political Science 320 (not allowed after Political Science 102).

### 5. ETHNIC STUDIES

(12 upper division units required.)

Prerequisites: HIST-1, HIST-2, HIST-3, and HIST-4 in preparation for the major.

Foundations and Inquiry: Sociology 355.

Breadth, Depth, and Application: Nine units to include at least one course from each category.

A. Ethnic Community and Identity: Africana Studies 471A, 471B; American Indian Studies 320, 420, 440; Chicana and Chicano Studies 320, 350B, 376, History 422.

B. Ethnic Politics and Community Issues: Africana Studies 320, 321, 420; Asian Studies 460; Chicana and Chicano Studies 301, 480.

### 6. MATHEMATICS

(Extra prerequisite may be required.)

Prerequisites: MATH-1, MATH-2, and MATH-3 in preparation for the major; plus Mathematics 141 with a C or better OR a passing score on the Mathematics Departmental Precalculus Proficiency Examination.

Foundations and Inquiry: MATH-4 and MATH-5 in the major.

Calculus: Mathematics 150.

Depth: Three units selected from Mathematics 302, 303.

Depth and Application: Mathematics 413.

### 7. SCIENCE

(One additional upper division unit required.)

Prerequisites: SCI-1, SCI-2, and SCI-3 in preparation for the major. Foundations and Inquiry: Natural Science 412 (SCI-5 in major) (4 units)

Breadth and Current Issues: Select three units from Biology 315, 319, 324, 327.

Depth and Application: Three units selected from Astronomy 310; Chemistry 300; Environmental Science 301; Geological Sciences 301, 303; Oceanography 320.

Inquiry and Research on an Environmental Problem: Geological Sciences 412 (4 units).

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### 8. ART

Prerequisites: VPA-1 in preparation for the major plus (Art History Track only) Art 259.

Foundations and Inquiry: Art 387 (VPA-3 in major)

Depth: Complete nine units from the Art History Track or Studio Arts Track.

Art History Track: Art 557, 558, 559, 560, 564\*, 565\*, 569\*, 570\*, 573A, 573B, 575, 577<sup>1</sup>.

Studio Arts Track: Students with sufficient lower division coursework may complete nine upper-division units in studio arts to be approved in advance by the School of Art, Design, and Art History and the liberal studies adviser.

\* Recommend one course with a non-western emphasis.

<sup>1</sup> Additional prerequisite: Art 258.

### 9. MUSIC

Prerequisite: Music 102 (VPA-2).

Foundations: Music 110A or 110B, 212, 218.

Inquiry: Music 343 (VPA-3).

Breadth and Current Issues: Music 345.

Great Music: Three units selected from Africana Studies 385; Chicana and Chicano Studies 310; Music 351C, 351D.

Performance++: Three units from Music 161, 261, 361, 170/370+, 174/374+, 175/375+, 177/377+, 180/380+, 185/385+, 186/386+, 189/389+.

+ Consent of instructor required. Previous experience playing an instrument required except for Music 185/385 and 186/386.

++For students who do not already play an instrument or sing, any of the world music ensembles 170/370, may be completed three times with different content.

### 10. THEATRE

Prerequisite: VPA-1 in preparation for the major.

Foundations and Inquiry: Theatre 310 (VPA-3 in major)

Breadth and Current Issues: Theatre 315 (may not double count in the major)

Depth and Application: Theatre 510 and 580.

### 11. PHYSICAL EDUCATION

(10-11 upper division units required.)

Prerequisite: DHP-3 in preparation for the major.

Foundations and Inquiry: Exercise and Nutritional Sciences 241A and 241B (2 units) (DHP-1 in preparation for the major); Exercise and Nutritional Sciences 301+.

Breadth and Current Issues: Exercise and Nutritional Sciences 348++.

Depth: Three units selected from Dance 102 (may not double count in Preparation for the Major) OR Exercise and Nutritional Sciences 335+ (2 units) plus one unit of Dance 100A, 100C, 100D, 100E, 100G, 100I OR Exercise and Nutritional Sciences 102, 104A-104B, 108, 109A-109B, 110, 111A-111B, 118A-118B, 120, 130, 137.

Pedagogy: Exercise and Nutritional Sciences 347A++ (2 units), 347B++ (1 unit).

+ Prerequisite: Exercise and Nutritional Sciences 241A, 241B.

++ Prerequisite: Upper division liberal studies major code.

### 12. HUMAN DEVELOPMENT

(Extra prerequisite may be required; may include one additional upper division unit.)

Prerequisites: DHP-3 in preparation for the major and DHP-4 in the major.

Foundation: Psychology 101.

Depth: Psychology 331.

Special Populations: Nine units selected from Child and Family Development 437; General Studies 420; Psychology 333; Special Education 500; Special Education 501 and 502 (4 units); Speech, Language, and Hearing Sciences 350+.

+ Additional prerequisites may be required.

### 13. INTEGRATED PROGRAM SPECIALIZATION

No new students are being admitted to this program until further notice.

(Three upper division and nine credential units required beyond the units required in preparation for the major and the major.)

**Open only to students who qualify for admission to the SDSU Integrated Credential Program.**

Prerequisites: HIST-1 and HIST-2 in preparation for the major.

Foundations: HIST-3 course (HIST-3 in preparation for the major) and History 100 (HIST-4 in preparation for the major), and History 413 (HIST-5 in major).

Depth: Three units selected from Africana Studies 385, 471A; American Indian Studies 440; Art 557<sup>1</sup>, 560<sup>1</sup>, 577<sup>2</sup>; Chicana and Chicano Studies 310, 350B; English 523, 524; History 410, 412, 445; Linguistics 410; Mathematics 303<sup>3</sup>; Natural Science 315; Music 351D; Theatre 460B.

Credential: Nine units selected from Teacher Education 910A, 910B, 910C, 923, 930.

<sup>1</sup> Additional prerequisite: Art 259.

<sup>2</sup> Additional prerequisites: Art 258, 259.

<sup>3</sup> Additional prerequisite: Mathematics 141 or qualification on the Mathematics Departmental Precalculus Examination.

## Courses (LIB S)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### LIB S 300. Introduction to Liberal Studies (3)

Prerequisites: Education 200 and preparation for the major completed or to be completed concurrently.

Introduction to ideas, structures, and values within and among the various disciplines in this interdisciplinary major. Issues of diversity in contemporary society through directed field experience and required readings. Individual qualitative evaluation process required by major included.

#### LIB S 498. Assessment in Liberal Studies (0.5-1) Cr/NC

Prerequisites: Liberal Studies 300 and successful completion of one upper division semester of the liberal studies major. Not open to premajors.

Senior assessment including reflections upon educational experiences in each subject area and role as future educator. Students will explore differences between subject areas and reflect upon learning and teaching.

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# Linguistics

In the College of Arts and Letters

**OFFICE: Education and Business Administration 334**  
**TELEPHONE: 619-594-5268 / FAX: 619-594-4877**  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Emeritus: Bar-Lev, Donahue, Elgin, Frey, Johns, Seright,  
Underhill, Webb

Chair: Osman

Professors: Choi, Gawron, Higurashi, Kaplan, Robinson

Associate Professors: Csomay, Kitajima, Malouf, Osman,  
Poole, Samraj, Wu, Zhang

Assistant Professor: Keating

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Master of Arts degree in linguistics.

Major in linguistics with the B.A. degree in liberal arts and sciences.

Minor in linguistics.

Certificate in computational linguistics.

Certificate in teaching English as a second or foreign language  
(TESL/TEFL), basic and advanced.

## The Major

Linguistics is the scientific study of language. The structure of a wide variety of languages is looked at, not to learn these languages, but to learn about them in order to understand the universal properties of human language.

The linguistics program offers coursework in all areas of linguistic analysis: the core areas of phonology, syntax, semantics, and historical linguistics; and interdisciplinary areas such as applied linguistics, sociolinguistics, psycholinguistics, bilingualism, computational linguistics, and the linguistics of certain languages and language families.

Linguistics majors must complete a minor in another field approved by the adviser in linguistics. Recommended fields include anthropology, communication, ethnic studies, a foreign language, history, journalism and media studies, literature, philosophy, psychology, public affairs, sociology, and speech, language, and hearing sciences.

In addition to the major and minor programs, the Department of Linguistics and Asian/Middle Eastern Languages offers two basic certificate programs. The Basic Certificate in Computational Linguistics prepares students for employment as computational linguists in commercial and government settings. The Basic Certificate in Teaching English as a Second or Foreign Language (TESL/TEFL) prepares students to teach English as a second language in adult and private schools and to teach English in foreign countries.

Employment opportunities for linguistics majors exist in the teaching of English as a second language to immigrant and refugee population groups in various locales throughout the southwestern United States. In addition, many students are interested in teaching English in Latin America, the Far East, or other areas outside the United States and continental Europe. Linguistics training can also be used as a valuable skill in conjunction with a California teaching credential in another field. Government work is another alternative, where such divisions as the State Department and the foreign service hire trained linguists. Researchers are needed at institutes working in the fields of animal communication, computer science development, disorders of communication, or advanced research in linguistics theory. By combining a linguistics major with courses in accounting, business administration, or related fields, there are jobs available with multinational corporations, particularly those which emphasize trade among the Pacific rim nations. Linguists are also hired in such fields as computer science, advertising, communication media, public relations, and curriculum development.

With a master's or doctoral degree, linguistics majors may find teaching positions at community colleges or universities.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Linguistics Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 15051) (SIMS Code: 114701)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in linguistics courses can apply to the degree.

Students majoring in linguistics must complete a minor in another field approved by the departmental adviser in linguistics. Recommended fields include anthropology, communication, ethnic studies, a foreign language, history, journalism and media studies, literature, philosophy, psychology, public affairs, sociology, and speech, language, and hearing sciences.

### Preparation for the Major. Linguistics 101. (3 units)

Students should note that a number of the upper division required and recommended courses listed below have lower division prerequisites, but these prerequisites do not constitute requirements per se for the completion of the major.

**Language Requirement.** Competency equivalent to that which is normally attained through three college semesters of a foreign language with a B (3.0) average, or the equivalent. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or Linguistics 305W or 396W, or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units to include at least 21 units in linguistics (and those 21 must include Linguistics 420 or 520; 521, 522, and 525; and cannot include more than nine units from 300-level courses); with the approval of the adviser, up to six units may be selected from related fields.

## Minor in Linguistics

**(Minor Code: 15051) (SIMS Code: 114701)**

The minor in linguistics consists of a minimum of 15 units, 12 of which must be upper division and at least 12 of which must be linguistics courses selected under the guidance and with the approval of the adviser. Linguistics 101 or 420 or 520 is required. Linguistics 100, 200, and 305W may not be applied to the minor. No more than three units may be applied to the minor from Anthropology 410, Chinese 352, Communication 465, Philosophy 531, Spanish 448.

LING

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

### Basic Certificate in Computational Linguistics

(Certificate Code: 90051) (SIMS Code: 114787)

The Department of Linguistics and Asian/Middle Eastern Languages offers a basic Certificate in Computational Linguistics. The certificate requires 12 units to include:

*Introductory Linguistics:* Linguistics 420 or 520;  
*Scripting and Linguistic Databases (corpora):* Linguistics 571;  
*Introduction to Computational Linguistics:* Linguistics 581;  
*Mathematical Tools:* Linguistics 570 or 582.

Students must obtain a "C" or better in each of the certificate courses. Under certain circumstances comparable courses taken at other institutions may count toward the certificate. Such courses must be evaluated and approved by the certificate adviser. In order to enroll, you must contact the certificate adviser in the Department of Linguistics and Asian/Middle Eastern Languages. Courses in the certificate may count toward the major in linguistics or the major in liberal studies (including the linguistics specialization) but may not count toward the minor in linguistics.

### Basic Certificate in Teaching English as a Second or Foreign Language (TESL/TEFL)

(Certificate Code: 90035) (SIMS Code: 114786)

The Department of Linguistics and Asian/Middle Eastern Languages offers a basic and advanced Certificate in Teaching English as a Second or Foreign Language (TESL/TEFL). The basic certificate requires 15 units to include:

*Introductory Linguistics:* Linguistics 420 or 520;  
*Language Acquisition:* Linguistics 452 or 454, or 552;  
*ESL Teaching:* Linguistics 550;  
*Practical Issues/Computer Assisted Language Learning:* Linguistics 555 or 556;  
*Elective:* Linguistics 430 or 530 or 551.

Students must obtain a "C" or better in each of the certificate courses. Under certain circumstances comparable courses taken at other institutions may count toward the certificate. Such courses must be evaluated and approved by the certificate adviser. In addition, there is a 15-hour tutoring requirement. In order to enroll, you must contact the certificate adviser in the Department of Linguistics and Asian/Middle Eastern Languages. Courses in the certificate may count toward the major in linguistics or the major in liberal studies (including the linguistics specialization) but may not count toward the minor in linguistics.

Refer to the *Graduate Bulletin* for information on the advanced certificate.

### Courses (LING)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSES

#### LING 94. Developmental Writing for International or Bilingual Students (3) Cr/NC/RP (Same course as Rhetoric and Writing Studies 94)

Intermediate written English with emphasis on problems of nonnative speakers; discussion of sentence, paragraph, and essay writing skills. Open only to ESL students who have not satisfied the SDSU Writing Competency requirement. Students attaining a score of 8 or better on the final examination earn a grade of "Cr" and satisfy the SDSU writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of "RP." Students receiving an "RP" should re-enroll in Rhetoric and Writing Studies 94 or Linguistics 94.

#### LING 100. English Composition for International Students (3) [GE]

Prerequisite: Satisfaction of the English Placement Test and Writing Competency requirements. (See Graduation Requirements section of catalog.) **Proof of completion of prerequisite required:** Copy of EPT or competency scores (including ISEPT) or verification of exemption; proof of Cr in Rhetoric and Writing Studies 92A or 92B or 97.

Introduction to college-level written English; attention to English language/grammar needs of non-native speakers of English; grammatical and rhetorical techniques for effective writing, based in part on study of models of current American writing. Not open to students with credit in a higher-numbered composition course or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Rhetoric and Writing Studies 100 or 101.

#### LING 101. Introduction to Language (3) [GE]

The nature of language. Sound, meaning, and grammar. Language history and change. Dialects and variation. Language acquisition. Animal communication. Language and the brain. Not open to students with credit in upper division linguistics courses, excluding Linguistics 305W.

#### LING 200. Advanced English for International Students (3) [GE]

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements; and Linguistics 100. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Further practice in mastering conventions of standard academic writing, with emphasis on strategies for research in writing papers. Focus on language issues specific to non-native speakers of English. Not open to students with credit in Africana Studies 200, Chicana and Chicano Studies 200, English 200, General Studies 260D, or Rhetoric and Writing Studies 200.

#### LING 241. Foreign Language Experiences (1-2)

Study of one to two languages chosen by individual students, with focus on spontaneous speaking abilities and methodologies. Specially recommended for learning-disabled students and for study of languages otherwise unavailable. May be repeated with new content for maximum credit three units. Not acceptable for General Education credit.

#### LING 250. Directed Language Study (1-4)

Prerequisite: Consent of instructor.

Directed independent study of a foreign language (excluding languages taught in other departments) with aim of acquiring a developing competency in the language. May include speaking, listening, reading, writing, and grammar. May be repeated with approval of undergraduate adviser. Maximum credit eight units.

#### LING 253. Grammar and Usage for Writers (3) (Same course as Rhetoric and Writing Studies 253)

Prerequisite: Passage of EPT or transfer writing assessment.

Instruction in sentence structure with attention to integrating sentences into their logical and rhetorical contexts. Identifying and understanding source of sentence-level writing problems.

#### LING 281. Academic Reading and Writing for Second Language Learners and International Students (3) (Same course as Rhetoric and Writing Studies 281)

Prerequisite: Open only to students who qualify for Rhetoric and Writing Studies 280 and whose first language is not English.

Academic prose, emphasizing purposes, structures, and styles of academic English writing. Designed to improve students' ability to plan, draft, revise, and edit essays, as well as to read and analyze complex academic texts. Additional emphasis on grammatical features of English relevant to the second language population.

#### LING 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### LING 299. Special Study (1-4)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**LING 305W. Advanced Composition for International Students (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Advanced expository writing, with practice in the various associated skills (organization, research, presentation, rhetoric). The goal is to enable non-native English speakers to function completely with written English on advanced university levels. This course may not be used toward the major or minor in linguistics.

**LING 310. English Word Origins (3)**

Traces English word-origins, exposing the romance of their story, while showing how linguistic analysis can help participants to increase their mastery of English vocabulary. Guides for interpreting new or specialized terminology.

**LING 311. Writing Systems of the World (3)**

Alphabets and other writing systems around the world, from "logographic" (Sumerian, Egyptian, Mayan, Chinese, Japanese) to syllabary (Japanese, Cherokee), consonantal alphabet or abjad (Hebrew, Arabic), to alphabet (Greek, Roman, etc.). Relevance of writing to thought.

**LING 344. Language and Gender (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Relationship between language and gender: language variation according to gender, discourse structure and same- and cross-sex interactions; cross-cultural research linking language and gender. Qualitative and quantitative linguistics analyses of language data.

**LING 350. Language and Politics (3) [GE]**

Linguistics devices used to persuade in politics. Differences between what is literally said and what is actually conveyed in political discourse. How political speakers and writers use grammar, sound structure, and vocabulary to persuade.

**LING 352. Language and Advertising (3)**

Linguistic devices used to persuade in advertising. Differences between what is literally said and what is actually conveyed in advertisements. How advertisers use the grammar, sound structure, and vocabulary of languages (especially English) to persuade audiences.

**LING 353. Language and Law (3)**

Legal language; reading legal cases; linguistic and legal analysis of contracts, statutes, constitutions, other "operative" texts; language crimes and forensic linguistics; language and First Amendment law; language under law (minority language, dialect rights).

**LING 354. Language and Computers (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Computers, computer programming languages, and "artificial intelligence" viewed from perspective of human language.

**LING 396W. Writing Proficiency (1)**

Prerequisites: Consent of instructor. Limited to linguistics majors. Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Upper division writing course taken in conjunction with any 500-numbered linguistics course. Emphasizes composition skills in research methods, essay organization, paragraphing, sentence structure, and diction, all related to the particular 500-level linguistics course chosen.

**LING 410. History of English (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

The history of English and its present day use.

**LING 420. Linguistics and English (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Introduction to sound and grammatical structure of language, with special attention to English. Language acquisition and variation. Of special interest to prospective teachers. Not open to students with credit in Linguistics 520.

**LING 430. English Grammar for Prospective Teachers (3)**

Prerequisites: Linguistics 101 and upper division standing.

Core grammatical concepts and facts of English grammar. Parts of speech; grammatical relations; word, sentence, discourse structure. Focus on standard written English. Of special interest to prospective secondary school teachers.

**LING 452. Language Acquisition (3)**

Prerequisite: Linguistics 420 or 520.

Principles of child language development. Sounds and grammar in speech of young children. Acquisition of reading and vocabulary. Relationship between cognitive development and language. Development of language in bilinguals. Second language acquisition.

**LING 453. Language Issues in the Schools (3)**

Prerequisite: Linguistics 420.

Linguistic minorities and dialect variation in interethnic communication. Language development from a socio-interactionist perspective. Development of discourse and literacy, and their underlying cognitive and linguistic foundations.

**LING 454. Second Language Acquisition (3)**

Prerequisite: Linguistics 101 or 420.

Basic theory and research in second language acquisition. Nature of interlanguage in second language learning. Influence of native language transfer, interaction, sociocultural factors on second language acquisition. Applications of second language research to teaching.

**LING 457. Community-Based Language Fieldwork (1)**

Two hours of activity.

Prerequisite: Concurrent registration in upper division course requiring term paper on language behavior (e.g. Linguistics 452).

Fieldwork in language use in community setting. Students observe, keep field notes, analyze language behavior (e.g. speaking, reading, writing, listening).

**LING 460. American Indian Languages (3) [GE]**

(Same course as American Indian Studies 460)

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Structures of American Indian languages. Language families of North America, history, and present circumstances. Interdependence of language and culture, differences in ways of speaking. Issues of language endangerment, language death, language maintenance, and language revitalization.

**LING 496. Experimental Topics in Linguistics (1-4)**

Specialized study of a selected topic in linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**LING 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**LING 505. Writing for Graduate Students (3)**

Prerequisite: Conditional or classified admission to an SDSU graduate program or undergraduates with consent of instructor.

Conventions of scholarly writing appropriate for student papers, theses, or academic journal articles. Development of research questions and literature reviews as appropriate for students' disciplines. Revision of current or previous course papers according to disciplinary conventions.

LING

**LING 520. Fundamentals of Linguistics (3)**

Prerequisite: Upper division standing.

Principles of modern linguistics, with attention to English grammar (syntax, morphology, phonology). Language change, dialects, sociolinguistics, psycholinguistics, language acquisition.

**LING 521. Phonology (3)**

Prerequisite: Linguistics 420 or 520.

Theoretical principles of transformational-generative phonology.

**LING 522. Syntax (3)**

Prerequisite: Linguistics 420 or 520.

Theoretical principles of transformational-generative syntax.

**LING 523. Morphology (3)**

Prerequisite: Linguistics 420 or 520.

Theoretical principles of words structure, including inflection, derivation, and compounding; organization of the lexicon; structure of inflectional paradigms; morphophonological and morphosyntactic alterations; and computational applications.

**LING 524. American Dialectology (3)**

Prerequisite: Upper division standing.

Development of American English. Regional, social, and ethnic differences in pronunciation, grammar, and vocabulary. Differences in men's and women's language. Black English.

**LING 525. Semantics and Pragmatics (3)**

Prerequisite: Linguistics 420 or 520.

Advanced semantic theory; systematic analysis of the interaction of sequences of language with real world context in which they are used.

**LING 530. English Grammar (3)**

Prerequisite: Six upper division units in linguistics.

English morphology, syntax, and discourse structure, including simple and complex sentence structure; lexical categories and sub-categories; discourse functions of selected constructions. Problems and solutions in teaching English grammar.

**LING 550. Theory and Practice of English as a Second Language (3)**

Prerequisite: Linguistics 420 or 520.

The nature of language learning; evaluation of techniques and materials for the teaching of English as a second language.

**LING 551. Sociolinguistics (3)**

Prerequisite: A course in introductory linguistics.

Investigation of the correlation of social structure and linguistic behavior.

**LING 552. Psycholinguistics (3)**

Prerequisite: Linguistics 420 or 520.

Psychological and mental processes related to comprehension, production, perception, and acquisition of language in adults and children.

**LING 553. Bilingualism (3)**

Prerequisite: Linguistics 420 or 520 or Speech, Language, and Hearing Sciences 300.

Bilingual societies; language choice by bilinguals; bilingual language acquisition; effects of bilingualism on language structure and use.

**LING 554. Child Language Acquisition (3)**

Prerequisite: Linguistics 420 or 520.

Theories and research methods in child language acquisition; quantitative and qualitative analyses of data at various levels of grammar (phonology, morphology, lexicon, syntax, and discourse) using language and acquisition corpora.

**LING 555. Practical Issues in Teaching English as a Second Language (3)**

Prerequisite: Credit or concurrent registration in Linguistics 550.

Practical approaches to applications of the theory of English as a Second Language (ESL) and methodology for speaking, reading, listening, writing; techniques for facilitating growth of communicative competence.

**LING 556. Computer Assisted Language Learning and Teaching (3)**

Prerequisite: Credit or concurrent registration in Linguistics 550.

Theory and practice of computer assisted language learning and language teaching. Hands-on experience with pedagogical aspects of using technology in the language classroom.

**LING 570. Mathematical Linguistics (3)**

Prerequisite: Two linguistics courses.

Mathematical tools for linguistics: set theory; basic algebraic structures such as groups, lattices, and Boolean algebras; formal language theory; propositional and 1st-order logic. Some emphasis on proofs. Applications to linguistics.

**LING 571. Computational Corpus Linguistics (3)**

Prerequisite: Two linguistics courses.

Practical introduction to computation with text corpora and introduction to Perl. Tokenizing, part-of-speech tagging, and lemmatizing (stemming) large corpora. Writing of Perl programs required.

**LING 581. Computational Linguistics (3)**

(Same course as Computer Science 581)

Prerequisites: Linguistics 570 or Mathematics 245; Linguistics 571 or Computer Science 320.

Basic concepts in computational linguistics including regular expressions, finite-state automata, finite-state transducers, weighted finite-state automata, and n-gram language models. Applications to phonology, orthography, morphology, syntax. Probabilistic models. Statistical techniques for speech recognition.

**LING 582. Computational Syntax and Semantics (3)**

Prerequisites: Linguistics 522 and 581.

Review of finite-state and context free languages; unification grammars; problems of meaning and intention in computational systems. Example applications from information retrieval, dialogue, and machine translation systems.

**LING 596. Selected Topics in Linguistics (1-3)**

Prerequisite: Upper division standing.

Advanced study of selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

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# Management

## In the College of Business Administration

**OFFICE: Student Services 3356**

**TELEPHONE: 619-594-5306 / FAX: 619-594-3272**

A Member of the AACSB International—The Association to Advance Collegiate Schools of Business.

### Faculty

Emeritus: Atchison, Belasco, Brady, Butler, Dunn, Ghorpade, Hampton, Mitton, Robbins, Srbich, Wright

Chair: De Noble

Professors: Chung-Herrera, De Noble, Hergert, Jung, Naughton, Ryan, Shore, Singh, Sundaramurthy

Associate Professors: Dean, Ehrhart, Randel, Rhyne

Assistant Professors: Francis, Musteen, Zheng

Lecturer: Glazer

### Offered by the Department

Master of Science degree in business administration.

Master of Business Administration.

Major in management with the B.S. degree in business administration.

Minor in management.

Minor in small business management (available at Imperial Valley Campus only).

## The Major

Management is defined as the process of administering and coordinating resources in an effective and efficient manner to achieve the goals of an organization. Managers plan, organize, lead, and control:

- Planning deals with the establishment of goals;
- Organizing involves the determination of tasks to be done, who will do them, and how they will be organized;
- Leading is the function that directs members of a work group to achieve the goals of the organization; and
- Controlling involves the identification of deviations between planned and actual outcomes of the organization.

Major areas within management include international business, entrepreneurship, human resource management, and corporate governance.

Recent studies indicate that the demand for professional managers will continue to increase. Typical careers include:

- Organization and management analysts design and evaluate strategy, structure, and culture;
- International managers supervise foreign-based manufacturing and/or marketing operations for American companies;
- Entrepreneurs start new ventures or create new ventures within an existing organization;
- Human resource management analysts/administrators function as recruiters, trainers, compensation and benefits specialists, labor relations specialists, and ethical officers for the organization;
- Top managers lead organizations and may share power and responsibility with directors, investors, and employees.

## Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

## Statement on Computers

Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the university.

## Retention Policy

The College of Business Administration expects that upper division students will make reasonable academic progress towards the degree. Students earning less than a 2.0 average in their major GPA for two consecutive semesters will be removed from business and placed in undeclared.

MGT

## Transfer Credit

**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept *upper division transfer credits* where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

## Impacted Program

The management major is impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- a. Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- b. Complete a minimum of 60 transferable semester units;
- c. Have a cumulative GPA of 2.9.

Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully-qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Management Major

**With the B.S. Degree in Business Administration**  
**(Major Code: 05061) (SIMS Code: 222557)**

A minor is not required with this major.

**Preparation for the Major.** Accountancy 201, 202; Finance 240; Information and Decision Systems 180, 290; Economics 101, 102; Economics 201 or Statistics 119; and Mathematics 120 (or other approved calculus course). (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Students may elect to major in management or to complete the management major with a specialization in human resource management or entrepreneurship.

Forty-three upper division units consisting of Management 350, 352, 356, 357, 358, 401, 405, 475; Business Administration 300; Finance 323; Information and Decision Systems 301, 302; Marketing 370; and six units selected from Management 452, 453, 455, 456, 459, 460, 461, 462, 463, 464, 465, 466, 467, 498. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

#### Specialization in Human Resource Management

**(SIMS Code: 222563)**

Forty-three upper division units consisting of Management 350, 352, 356, 401, 405, 461, 462, 463, 475; Business Administration 300; Finance 323; Information and Decision Systems 301, 302; Marketing 370; and three units selected from Management 464, 465, 466, 467, 498. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

#### Specialization in Entrepreneurship

**(SIMS Code: 222564)**

Forty-three upper division units consisting of Management 350, 356, 358, 401, 405, 460, 475; Business Administration 300; Finance 323; Information and Decision Systems 301, 302; Marketing 370; and nine units selected from Management 452, 453, 455, 456, 459, 498. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

### Management Minor

**(Minor Code: 222559)**

The minor in management consists of a minimum of 22 units to include Accountancy 201; Business Administration 300; Economics 101, 102; Management 350, 352, 356, and 357 or 358.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or in International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the management minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

### Small Business Management Minor

**(Imperial Valley Campus Only)**

**(Minor Code: 222598)**

The minor in small business management consists of a minimum of 24 units to include Economics 101, 102; Accountancy 201, 202; Management 350, 358; Marketing 370; and three units selected from Finance 323, Management 352.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

### Project AMIGOS Dual Degree

Project AMIGOS (American Management Initiative for Global Operating Skills) is a transnational dual degree program between San Diego State University (SDSU) and Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM). Students may enter the program at either of the two schools and must spend a minimum of one-and-one-half years of study each in the United States and in Mexico.

Participants in Project AMIGOS are enrolled in the management major in the College of Business Administration at San Diego State University.

In addition to completing 49 units of General Education requirements at San Diego State University, students in AMIGOS must complete 97 units in management courses.

Approximately a quarter of all of these requirements are completed in Spanish while attending school in Mexico. Successful participants earn both the Bachelor of Science degree in business administration from San Diego State University and the Licenciatura en Administración de Empresas from ITESM.

For more information about this program, contact Teresa Donahue at 619-594-3902.

## Courses (MGT)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSE

#### MGT 202. Business Professions (1) Cr/NC

Students explore career options, analyze and evaluate career decisions through self assessment and career research. Computer programs and resources in Career Services library used to identify potential career.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### MGT 350. Management and Organizational Behavior (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisite required:** Change of major form or other evidence of acceptable major code.

Human behavior at individual, interpersonal, and group levels including effect of organization structure on behavior. Emphasis on managerial roles, historical evolution of management, ethics, and behavior in multicultural contexts.

#### MGT 352. Human Resource Management (3)

Prerequisite: Management 350.

Acquisition, development, maintenance, and termination of human resources in accordance to goals of the organization.

#### MGT 356. Social and Ethical Issues in Business (3)

Prerequisites: Management 350 and Business Administration 300.

Corporate social responsibility, stakeholder theory, morality of capitalism, and corporate governance. Ethical theory and its application to ongoing issues and current events within the business context.

#### MGT 357. Multinational Business and Comparative Management (3)

Prerequisite: Management 350.

Context of international business, environment, institutions, and business practices. Cultural awareness, sensitivity, interpersonal, and leadership skills needed in an international context.

#### MGT 358. Fundamentals of Entrepreneurship (3)

Prerequisite: Management 350.

Process of initiating, expanding, purchasing, and consolidating businesses. Concepts, theories, and techniques of managerial innovation and implementation. (Formerly numbered Management 450.)

#### MGT 401. Business Internship (3) Cr/NC

Prerequisites: Management 350 and consent of faculty adviser.

Internship with business firms, nonprofit organizations, or government agencies. Work done under joint supervision of intern organization and course instructor.

#### MGT 405. International Business Strategy and Integration (3)

Prerequisites: Management 350, Business Administration 300, Finance 323, Information and Decision Systems 301 or 302, Marketing 370. **Proof of completion of prerequisites required:** Copy of transcript.

Integration of business administration principles and concepts for strategy design, implementation, and control in domestic, and global markets. Establishment of top management policy emphasized through case studies, experiential exercises, and simulations.

#### MGT 452. Family Business Management (3)

Prerequisite: Management 350.

Managing a family owned business. Succession planning, governance, strategy and family dynamics of mixing family and business roles, non-family employees, and culture.

#### MGT 453. Creativity and Innovation (3)

Prerequisite: Management 350.

Managing creativity, including selling creative ideas to others, scanning for new opportunities, taking creativity to the marketplace, and creating an organizational culture for innovation.

#### MGT 455. Social Entrepreneurship (3)

Prerequisite: Management 350

Entrepreneurial skills to craft innovative responses to social needs. Social mission, launching and building a social venture and developing social returns to an enterprise.

#### MGT 456. International Entrepreneurship (3)

Prerequisite: Management 350.

Launching and managing an international entrepreneurial venture. Search and identification of opportunities in foreign markets, logistics of international business expansion, cross-cultural business communication, and international networking.

#### MGT 458. Management Decision Games (1-3)

Prerequisites: Consent of instructor. Management 350, Business Administration 300, Finance 323, Information and Decision Systems 301 or 302, Marketing 370. **Proof of completion of prerequisites required:** Copy of transcript.

Integrated managerial decision making within a dynamic environment through the use of business games.

#### MGT 459. Franchise Management (3)

Prerequisite: Management 350.

Franchising presented as a viable alternative path to entrepreneurship. Nature and role of franchisor and franchisee including challenges of becoming a franchisee of an existing system and of becoming a franchisor.

#### MGT 460. Business Plan Development (3)

Prerequisite: Management 350.

Core concepts and key elements of producing a business plan for a new entrepreneurial venture or for new business opportunity within an existing organization.

#### MGT 461. Human Resource Selection (3)

Prerequisite: Management 352.

Employee selection and placement issues in organizations including strategic, legal, and measurement issues. Roles of recruitment, job analysis, and human resource planning in human resource selection process.

#### MGT 462. Compensation (3)

Prerequisite: Management 352.

Wage and salary administration in organizations. Determinants of general wage and salary levels and structures. Total compensation systems, interrelationship among employee performance, intrinsic and extrinsic rewards, pay equity, and employee pay satisfaction.

#### MGT 463. Performance Management (3)

Prerequisite: Management 352.

Definition, measurement, and evaluation of employee performance, development of employee skills, and implementation of a performance management system.

#### MGT 464. Legal Issues in Human Resources (3)

Prerequisite: Management 352.

Employment law pertaining to human resource management such as selection, compensation, performance appraisal, training, labor relations, and occupational safety and health. Significant court rulings interpreting the law.

#### MGT 465. Labor Relations (3)

Prerequisite: Management 352.

Employer-employee relationship in unionized settings, labor laws that apply in unionized settings, and an understanding of major components of labor relations; organizing process, negotiation, and contract administration.

#### MGT 466. International Human Resource Management (3)

Prerequisite: Management 352.

Human resource issue facing multinational corporations including staffing, training and development, performance management, expatriation and repatriation, and compensation.

#### MGT 467. Diversity Issues (3)

Prerequisite: Management 352.

Managing employees in a diverse workforce. Policy development for managing diversity. Legal issues in diversity.

#### MGT 475. Leadership in Organizations (3)

Prerequisite: Management 350.

Leadership, communicating vision, initiating changes and innovation, and developing leadership competencies through self-assessment.

MGT



## Management

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### **MGT 496. Selected Topics in Management (1-4)**

Prerequisite: Consent of department chair.

Selected areas of concern in management. See *Class Schedule* for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

### **MGT 498. Investigation and Report (1-3)**

Prerequisites: Senior standing and consent of instructor.

A comprehensive and original study of a problem connected with management under the direction of one or more members of the management staff. May be repeated with new content. Maximum credit six units.

### **MGT 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSE**

**(Also Acceptable for Advanced Degrees)**

### **MGT 596. Advanced Topics in Management (3)**

Prerequisite: Six upper division units in management.

Advanced special topics in management. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### **GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Marketing

## In the College of Business Administration

**OFFICE: Student Services 3356**

**TELEPHONE: 619-594-5317 / FAX: 619-594-3272**

A Member of the AACSB International—The Association to Advance Collegiate Schools of Business.

### Faculty

Emeritus: Akers, Apple, Barber, Darley, Haas, Hale, Lindgren,  
McFall, Sciglimpaglia, Settle, Vanier, Wotruba

Chair: Belch

Professors: Baker, Belch, Kartalija, Krentler, Saghafi, Stampfl, Tyagi

Associate Professor: Honea

Assistant Professor: Peter

Lecturers: Brooks, Olson

### Offered by the Department

Master of Science degree in business administration.

Master of Business Administration.

Major in marketing with the B.S. degree in business administration.

Minor in marketing.

### The Major

Marketing is defined as "the process of planning and executing the conception, pricing, promotion, and distribution of ideas, goods and services to create exchanges that satisfy individual and organizational objectives." (American Marketing Association, 1986.)

The marketing major studies how products and services are developed, priced, promoted, distributed and sold. The process requires an understanding of buyer and seller behavior within the context of the overall market environment. Added emphasis is given to the important area of global markets with their own particular nuances.

Marketing is an essential part of every business. Not-for-profit organizations also have to market their products/services, and the marketing discipline addresses the special needs of such organizations. The employment outlook for graduates in marketing continues to be very favorable in all areas, especially in sales for those who hold the bachelor's degree. Some of the more common career opportunities for marketing graduates include:

- Sales, which is the most common source of employment for recent marketing graduates. Sales people supervise retailing operations in large department stores, serve as sales representatives for manufacturers and wholesalers, and sell a variety of services and equipment;
- Market research specialists collect, analyze, and interpret data to determine potential sales of a product or a service. They organize and supervise surveys, study the results by using statistical tests, and prepare reports with recommendations for management;
- Product specialist/managers plan and coordinate the marketing functions specific to particular product(s)/brands;
- Physical distribution specialists are responsible for the warehousing of products, the packing of shipments, and the delivery of orders to retailers or consumers;
- Purchasing specialists, commonly known as buyers, acquire the materials and the services that are essential to the operation of a business or organization.

Students who choose the specialization in Integrated Marketing Communications prepare for careers as:

- Advertising and promotion specialists, such as copywriters, who assemble information on products and services, study the characteristics of potential consumers, and prepare written materials to attract attention and stimulate interest among customers;
- Advertising managers, who supervise the promotional activities of retailers, wholesalers, or manufacturers;

- Account executives, who represent advertising agencies in negotiating contracts with clients for advertising services, offer advice in problem areas, and serve as troubleshooters in disputes between clients and the agency;
- Media directors, who coordinate the purchasing of space in newspapers and magazines and arrange for commercials on radio and television;
- Production managers, who supervise the work of copywriters, artists, and other members of an advertising team.

### Business Honors Program

The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in a one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the University Honors Program. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Carol Venable, School of Accountancy, for more information about this program.

MKTG

### Statement on Computers

Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the university.

### Retention Policy

The College of Business Administration expects that upper division students will make reasonable academic progress towards the degree. Students earning less than a 2.0 average in their major GPA for two consecutive semesters will be removed from business and placed in undeclared.

### Transfer Credit

**Lower Division:** Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from regionally accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

**Upper Division:** It is the policy of the San Diego State University College of Business Administration to accept *upper division transfer credits* where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards.

### Impacted Programs

The majors in the Department of Marketing are impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

- Complete with a grade of C or higher: Accountancy 201 and 202; Finance 240; Information and Decision Systems 180 and 290 (290 is not required for the accounting major); Economics 101 and 102; Mathematics 120 (or other approved calculus course); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.9.

Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully-qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Marketing Major

**With the B.S. Degree in Business Administration  
(Minor Code: 05091)**

A minor is not required with this major.

**Preparation for the Major.** Accountancy 201, 202; Economics 101, 102; Finance 240; Information and Decision Systems 180, 290; Mathematics 120 (or other approved calculus course); and Economics 201 or Statistics 119. (27-29 units)

These prerequisite courses may not be taken Cr/NC; the minimum grade in each class is C. **Additional progress requirements must be met before a student is admitted to an upper division major.**

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** Students may elect to major in general marketing or to complete the marketing major with a specialization in integrated marketing communications.

#### **General Marketing (SIMS Code: 222771)**

Forty-seven upper division units consisting of Marketing 370, 371, 470, 479; Business Administration 300; Finance 323; Information and Decision Systems 301, 302; Management 350; Business Administration 404 or Management 405; 16 units selected from Marketing 372, 373, 376, 377, 380, 472, 473, 474, 475, 476, 477, 498, 499. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics.

#### **Specialization in Integrated Marketing Communications (SIMS Code: 222775)**

Forty-seven to 48 upper division units consisting of Marketing 370, 371, 373, 470, 472; Business Administration 300; Finance 323; Information and Decision Systems 301, 302; Management 350; Business Administration 404 or Management 405; 12-13 units selected from Journalism and Media Studies\* 375, 408, 440, 460, 461<sup>#</sup>, 480, 560<sup>#</sup>, 565<sup>^</sup>, 574<sup>^</sup>, 596<sup>#</sup>; Marketing 380, 476; Psychology 340, 380; Sociology 335. A "C" (2.0) average is required in the courses stipulated here for the major. A minimum of 60 units of coursework applicable to the bachelor's degree must be completed outside the areas of business administration, economics, and statistics. This specialization meets this requirement.

\* Upper division standing required for all Journalism and Media Studies courses listed.

<sup>^</sup> Additional prerequisites waived for this course.

<sup>#</sup> Integrated Marketing Communications students may add this course on a space-available basis during the add period with consent of instructor.

<sup>@</sup> Journalism and Media Studies 310W prerequisite waived for this course.

<sup>%</sup> Integrated Marketing Communications students are required to have completed Marketing 470 as a prerequisite to this course.

### Marketing Minor

**(Minor Code: 222772)**

The minor in marketing consists of a minimum of 20 units, of which 12 units must be in upper division courses, to include Marketing 370; Accountancy 201; Economics 102; and 11 to 12 units selected from Information and Decision Systems 301, Marketing 371, 372, 373, 376, 377, 470, 472, 473, 474, 476.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business may not complete a minor in the College of Business Administration.

Students must officially declare the minor before taking any upper division business courses. **Students must meet the prerequisites for the minor in effect at the time that they declare the minor.** The current prerequisites for admission to the marketing minor include completion of the following courses with a grade of C or better: Economics 101, 102, and a three unit course in statistics (Statistics 119 is recommended); completion of the General Education requirements in Communication and Critical Thinking; completion of an additional nine units in the department of the student's major, including at least six units of upper division courses. Students must also meet the GPA requirement in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

### SanMediterranée Dual Degree

SanMediterranée is a transnational dual degree program between San Diego State University and Euromed Marseille, School of Management. Students may enter the program at either of the two schools and must spend a minimum of one year of study each in the U.S. and in France.

Participants in the SanMediterranée program are enrolled in the marketing major in the College of Business Administration at San Diego State University and the international business major at Euromed Marseille.

Students must meet with the study abroad program adviser in the Business Advising Center (EBA 448) to receive approval and appropriate advising before beginning the program.

Upon completion of the program, successful participants earn both the Bachelor of Science degree in business administration with an emphasis in marketing from SDSU and the Bachelor of International Business from Euromed Marseille.

## Courses (MKTG)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### MKTG 370. Marketing (3)

Prerequisite: Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisite required:** Change of major form or other evidence of acceptable major code. Marketing majors must complete this course with a minimum grade of C (2.0).

Function of marketing in the organization and in society. Topics include market analysis and consumer behavior, product planning, pricing, promotion, distribution, and international marketing.

#### MKTG 371. Consumer and Buyer Behavior (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Psychological, social and cultural aspects of consumers and organizational buyers to understand their needs, wants, preferences, and behaviors. Identify market segments, develop targeted marketing strategies and programs.

#### MKTG 372. Retail Marketing Methods (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0) **Proof of completion of prerequisite required:** Copy of transcript.

Retail store and direct retail marketing organization, site location, personnel, promotion, purchasing, merchandising, inventory, and control methods.

#### MKTG 373. Integrated Marketing Communications (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Communication and promotion theory; emphasis on integration of various marketing communications tools including advertising, personal selling, media strategy and tactics, public relations, and publicity strategy, methods, measurement, and ethics.

#### MKTG 376. Global Marketing Strategy (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

International marketing and trade principles; comparative analysis of economic, political, legal, and sociocultural systems; global market segmentation and market entry strategies, international pricing decisions, distribution systems, advertising, public relations, and promotion strategies; product standardization vs. localization.

#### MKTG 377. Selling Strategy and Practices (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Selling strategy and practices as an integral part of the total marketing system, including territory management, consultative selling, negotiation, and system selling.

#### MKTG 380. Direct Marketing Methods (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Direct marketing as part of a company or organization's marketing program. Major direct marketing media and methods to include direct mail, broadcast and print advertising, Internet and interactive media, catalogs, and telemarketing. Data base creation and management and effectiveness measurement for direct marketing programs.

#### MKTG 470. Marketing Research (4)

Prerequisites: Completion of lower division courses in the major or minor. A minimum grade of C (2.0) in Information and Decision Systems 301 and Marketing 370. **Proof of completion of prerequisites required:** Copy of transcript.

Marketing research process; research design, instrument development, measurement and scaling, sampling, primary and secondary data analysis, and research reporting for marketing decisions.

#### MKTG 472. Advanced Integrated Marketing Communications (4)

Prerequisites: Marketing 373 with minimum grade of C; Marketing 371 and 470 with minimum grade of C or an average of 2.0 in both courses. **Proof of completion of prerequisites required:** Copy of transcript.

Management of marketing communications function with emphasis on integration and coordination of all activities. Planning, implementation, and coordination of marketing communications activities. Development, implementation, and program evaluation of an integrated marketing communications project.

#### MKTG 473. Sales Management (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Management of recruitment, training, motivation, and compensation of a sales force, and evaluation, control, and organization of sales personnel.

#### MKTG 474. Business Marketing (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Marketing practices and strategy designed for organizational customers; focuses on purchasing practices of organizational customers and development of marketing mixes for private, commercial, institutional, and governmental markets, both domestic and global.

#### MKTG 475. Global Marketing Applications (4)

Prerequisite: Marketing 376 with a minimum grade of C (2.0).

Applying global marketing concepts to conduct detailed market analysis through collecting demographic, cultural, political, legal, economic, financial data; developing international marketing plan focused on one world region for company with international entry, global marketing strategy issues. Region of focus varies.

#### MKTG 476. Internet/Interactive Marketing (4)

Prerequisite: Marketing 370 with a minimum grade of C (2.0). **Proof of completion of prerequisite required:** Copy of transcript.

Marketing and communication in digital networked environments. Intersection of business issues, marketing programs, and interactive technology. Web site design and evaluation, e-commerce, online customer experience, search engine optimization, personalization, online advertising and mobile marketing.

#### MKTG 477. Marketing Consulting for Small Business (4)

Prerequisites: Marketing 370 with a minimum grade of C, senior standing, and consent of instructor.

Marketing planning and program development for small entrepreneurial business. Consulting with small business clients on marketing strategy and implementation including marketing research, market segmentation, target marketing, advertising and promotion, pricing, marketing planning and program evaluation.

#### MKTG 479. Strategic Marketing Management (4)

Prerequisites: Marketing 371 and 470 with a minimum grade of C (2.0) or an average of 2.0 in both courses. Completion of lower division courses required in the major or minor. **Proof of completion of prerequisites required:** Copy of transcript.

Strategic planning, integration, management, and control of the marketing functions and mix; applying decision techniques for marketing problem solution.

#### MKTG 496. Selected Topics in Marketing (1-4)

Prerequisite: Consent of department chair.

Selected areas of concern in marketing. See *Class Schedule* for specific content. May be repeated with new content with consent of department chair. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

#### MKTG 498. Investigation and Report (1-3)

Prerequisites: Senior standing and consent of instructor.

A comprehensive and original study of a problem connected with marketing under the direction of one or more members of the marketing staff. May be repeated with new content. Maximum credit six units.

#### MKTG 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

MKTG

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# Mathematics

In the College of Sciences

**OFFICE: Geology/Mathematics/Computer Science 413**

**TELEPHONE: 619-594-6191**

## Faculty

Emeritus: Bray, Carlson, Deaton, Eisemann, Elwin, Fountain, Garrison, Grone, Hager, Harvey, Hintzman, Ho, Holmes, Lesley, Lutz, Marcus, McLeod, Nower, Pierce, Riggs, Ross, Saltz, Short, Smith, Sowder, J., Sowder, L., Springer, Thompson, Van de Wetering, Villone, Whitman

Chair: Shen

Professors: Carretero, Castillo, Dunster, Geveci, Hui, Lobato, Mahaffy, Nemirovsky, Palacios, Rasmussen, Salamon, Shen

Associate Professors: Blomgren, Bowers, Izsák, Kirschvink, Nickerson, O'Sullivan, Ponomarenko, Smarandache

Assistant Professor: Interlando

Lecturers: Brock, Cavanaugh, Rotar

## Offered by the Department of Mathematics and Statistics

Master of Arts degree in mathematics.

Master of Science degree in applied mathematics.

Concentration in dynamical systems.

Concentration in mathematical theory of communication systems.

Master of Arts for teaching service with a concentration in mathematics.

Major in mathematics with the B.A. degree in liberal arts and sciences.

Major in mathematics with the B.S. degree in applied arts and sciences.

Emphasis in applied mathematics.

Emphasis in computational science.

Emphasis in mathematical finance.

Emphasis in science.

Teaching major in mathematics for the single subject teaching credential.

Minor in mathematics.

Certificate in algebra specialist (refer to the *Graduate Bulletin*).

Certificate in communications systems (refer to the *Graduate Bulletin*).

Certificate in mathematics specialist (refer to the *Graduate Bulletin*).

Certificate in single subject mathematics.

## The Majors

Mathematics is the language and instrument for the sciences and technology. It is concerned with a wide range of diverse problems from developing techniques to model real world applications and designing efficient methods for calculating their solutions, to creating new branches of mathematics and theories for as yet unsolved problems. Some students find mathematics stimulating because of its many and varied applications, while others are fascinated and attracted to it for the beauty of its intrinsic order, structure, and form.

Because of its broad scope, degrees in mathematics can prepare students for many different careers and the Department of Mathematics and Statistics offers a variety of such degrees and emphases to provide students with several blends and specialties according to their interests and goals.

Graduates with a mathematics major have many options for either careers in applications, for further study in graduate school, or for teaching. Mathematics majors are important because their training involves quantitative abilities and critical reasoning that many potential employers can utilize. With a minor in an area of applications, graduates are suited for further graduate study in many areas that heavily depend upon mathematical methods and techniques. Graduates with an interest in the more theoretical aspects of mathematics are sought after in many diverse graduate programs

from applied and pure mathematics to computer and computational sciences and statistics. Careers in teaching include positions in secondary schools, for which a teaching credential is additionally required, teaching in two year colleges, for which a master's degree is required, and teaching at the university level, which requires a doctorate degree and involves research and creation of new mathematics.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Mathematics Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 17011) (SIMS Code: 776301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in mathematics and statistics courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 242, 252. (7 units) Recommended: Physics 195, 195L, 196, 196L, 197, 197L.

**Major.** A minimum of 27 upper division units selected with approval of the departmental adviser before starting upper division work to include Mathematics 337, 521A, 524, 534A; one course selected from Mathematics 521B, 531, 534B, 537, 538, 542, 543; Statistics 551B or 570; and 12 units of electives.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

## Mathematics Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 17031)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

There are four emphases offered in this major: Applied Mathematics, Computational Science, Mathematical Finance, and Science.

### Emphasis in Applied Mathematics

**(SIMS Code: 776313)**

This emphasis is designed to train the student in those areas of mathematics which may be applied to formulate and solve problems in other disciplines. The program is designed to qualify the student for employment as an applied mathematician, but the graduate would also be well prepared for graduate study in pure or applied mathematics.

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 242, 252, Statistics 250. (10 units)

**Major.** A minimum of 36 upper division units to include Mathematics 337, 521A, 534A, 541; 524 or 543; 531 or 532 or 534B; Statistics 350A or 551A; and 15 units of electives in mathematics or an area to which mathematics may be applied (approved by the Applied Mathematics adviser) excluding Mathematics 302, 303, 311, 312, 313, 315, 342A, 342B, 413, 414, 509.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

**Auxiliary Area.** A minimum of 12 units (lower or upper division) from an area to which mathematics may be applied. A typical program might be Physics 195, 195L, 196, 196L, 197, 197L; or Chemistry 200, 201, and a course for which these are prerequisite; or Economics 101, 102, 320, 321. The intent is to train the student in an area in some depth. Some latitude may be allowed in the choice of department and mix of courses, but all programs must be approved by the Applied Mathematics adviser. The 12 unit requirement is minimal, and a minor in an approved field is highly recommended.

### Emphasis in Computational Science

(SIMS Code: 776322)

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 242, 252, Computer Science 107, 108, Statistics 250. (16 units)

**Major.** A minimum of 36 upper division units to include Mathematics 336, 337, 521A, 534A; 524 or 543; at least nine units selected from Mathematics 525, 532, 537, 541 or 544, 542, 543, Computer Science 558; three units of Mathematics 499 (Senior Project); and nine units of electives in computer science, mathematics, or statistics (approved by the Applied Mathematics adviser) excluding Mathematics 302, 303, 311, 312, 313, 315, 342A, 342B, 413, 414, 509.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

### Emphasis in Mathematical Finance

(SIMS Code: 776330)

This emphasis is designed to train students for work in the field of financial mathematics, focusing on derivative instruments and risk management. The graduate would also be highly qualified for graduate study.

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 242, 252, Statistics 119 or 250. Accountancy 201, Economics 101 and 102 are required in order to register for the upper division finance courses. (19 units)

**Major.** A minimum of 39 upper division units to include Mathematics 337, 524, 531, 544, 562, 580, 581, Statistics 550 or 551A, Statistics 551B or 570 or 575, Finance 323, 326 or Economics 490, Finance 327, 329 or 421.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

### Emphasis in Science

(SIMS Code: 776348)

This purpose of this emphasis is to allow students with a strong interest in the mathematical aspects of a particular science to apply courses in that science to their major. This will provide a good background for employment or graduate work in applied mathematics or in that science.

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 242, 252, Statistics 250. (10 units) Some lower division courses will probably be prerequisite to science courses applied to the major.

**Major.** A minimum of 36 upper division units to include Mathematics 337, 534A; 524 or 543; 532 or 534B; at least six units selected from Mathematics 521A, 525, 531, 532, 537; 12 units from a science to which mathematics may be applied (these should be from a single science and must be approved by the B.S. adviser); and six units of electives in computer science, mathematics, or statistics excluding Mathematics 302, 303, 311, 312, 313, 315, 342A, 342B, 413, 414, 509.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

## Mathematics Major

**In preparation for the Single Subject Teaching Credential With the B.A. Degree in Liberal Arts and Sciences**  
(Major Code: 17011) (SIMS Code: 776303)

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 48 units in mathematics and statistics courses can apply to the degree.

This major may be used by students preparing to be high school teachers as an undergraduate major for the B.A. degree in liberal arts and sciences.

**Preparation for the Major.** Mathematics 150, 151, 245, 254. (14 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language as part of the preparation for the major. Refer to the section of the catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 241, 252, Statistics 250, Teacher Education 211. (9 units) Recommended: Computer Science 107, Physics 195, 195L, 196, 196L, 197, 197L.

**Major.** A minimum of 24 upper division units in mathematics to include Mathematics 302, 303, 414, 521A, 534A, Statistics 550; an upper division course in geometry; and three units of electives in mathematics approved by the adviser for the major.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

MATH

### Mathematics Minor

(Minor Code: 17011) (SIMS Code: 776301)

The minor in mathematics consists of a minimum of 20-22 units in mathematics to include 12 upper division units, at least six of which have as prerequisite Mathematics 151; or Mathematics 252 and nine upper division units in mathematics, at least six of which have as prerequisite Mathematics 151. The courses selected will be subject to the approval of the minor adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

### Single Subject Mathematics Certificate

(Certificate Code: 90016) (SIMS Code: 776357)

The purpose of the Single Subject Mathematics Certificate program is to provide individuals appropriate mathematics coursework to establish their subject matter competency in accordance with California State requirements for high school mathematics teachers. Admission is open to individuals who are majoring or have majored in an area other than mathematics and who have the equivalent of two years of high school mathematics and satisfy the Entry-Level Mathematics Examination. In order to enroll in the program, individuals should contact the single subject mathematics credential adviser in the Department of Mathematics and Statistics.

The program consists of 46 units to include Mathematics 150, 151; and 241, 245, 252, 254, 302, 303, 414, 510 (or 511), 521A, 534A, Statistics 250, 550, and three units of upper division electives selected from mathematical or physical sciences.

Individuals must complete at least nine upper division units at San Diego State University and have a cumulative grade point average of 2.5 in the required courses to qualify for the certificate.

### Mathematics Departmental Placement Examination

All students who expect to enroll in Computer Science 106, 107, 108, Mathematics 118, 120, 121, 141, 150, 210, 211, 312, Statistics 119, 250 must satisfy the Entry-Level Mathematics Examination requirement and pass the required part of the Mathematics Departmental Placement Examination. For Mathematics 150, certain prerequisite courses taken at San Diego State University may be used to satisfy the Mathematics Departmental Placement Examination requirement.

#### COMPUTER SCIENCE

(See this section of catalog under Computer Science)

#### STATISTICS

(See this section of catalog under Statistics)

### Courses (MATH)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSES

**NOTE: Proof of completion of Entry-Level Mathematics requirement required for Mathematics 105, 118, 120, 121, 122, 141, 150, 210, 211: Copy of ELM score or verification of exemption.**

#### MATH 105. College Algebra (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Real numbers, graphs, theory of functions, sinusoidal equations, and their applications to science. Excel and Maple programming. Not open to students with credit in Mathematics 121 or 141.

#### MATH 118. Topics in Mathematics (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Topics selected from algebra, analysis, geometry, logic, probability, or statistics, designed to give student insight into structure of mathematical theories and their applications.

#### MATH 120. Calculus for Business Analysis (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Matrix algebra. Calculus including differentiation and integration. Graphing and optimization. Exponential and logarithmic functions. Multivariable calculus.

#### MATH 121. Calculus for the Life Sciences I (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement and IA examination, or Mathematics 105, or 141 with a grade of C (2.0) or better.

Basic concepts of differential calculus with life science applications. Not intended for physical science or engineering majors. Not open to students with credit in Mathematics 150.

#### MATH 122. Calculus for the Life Sciences II (3) [GE]

Two lectures and two hours of activity.

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement; qualification on the Mathematics Departmental Placement Examination; and Mathematics 121.

A continuation of Mathematics 121 with topics from integral calculus and an introduction to elementary differential equations. Not open to students with credit in Mathematics 150.

#### MATH 141. Precalculus (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Real numbers, inequalities; polynomials; rational, trigonometric, exponential and logarithmic functions; conic sections. Not open to students with credit in Mathematics 105 or 121 or 150.

#### MATH 150. Calculus I (4) [GE]

Prerequisites: Knowledge of algebra, geometry, and trigonometry as demonstrated by either (1) satisfactory completion of Mathematics 141 with a grade of C (2.0) or above; or (2) satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Precalculus Proficiency Examination. Proof of completion of prerequisites required.

Algebraic and transcendental functions. Continuity and limits. The derivative and its applications. The integral and the fundamental theorem of calculus.

#### MATH 151. Calculus II (4) [GE]

Prerequisite: Mathematics 150 with minimum grade of C. Proof of completion of prerequisite required.

Techniques and applications of integration. Improper integrals. Differential equations. Infinite series. Conic sections. Curves in parametric form, polar coordinates.

#### MATH 210. Number Systems in Elementary Mathematics (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Number sense, operation concepts, estimation, mental arithmetic, algorithms, problem solving, whole, rational, real numbers, ratio, and number theory. This course or its equivalent is required for students working toward a multiple subject credential in elementary education.

#### MATH 211. Geometry in Elementary Mathematics (3) [GE]

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and Mathematics 210.

Two and three dimensional shapes and interrelationships, congruence, similarity and proportional reasoning, measurement of length, angle size, area, volume, metric system, and problem solving.

#### MATH 215. Mathematics Placement Examination: Part LS Review (1) Cr/NC

Prerequisite: Score of 12 or lower on either section of Mathematics Placement Examination: Part LS.

Required review for students who have failed Mathematics Placement Examination: Part LS. Basic numbers (quantities, number systems, basic computations with integers and fractions), measurement and geometry (two- and three-dimensional objects, measurements, and measure systems).

**MATH 241. Mathematics Software Workshop (1)**

Prerequisite: Mathematics 150.

Introduction to mathematical software environment such as MATLAB, MAPLE, MATHEMATICA or the Geometers Sketchpad. May be repeated for credit with different software. See *Class Schedule* for specific content. Maximum credit two units.

**MATH 242. Mathematical Programming (3)**

Prerequisite: Mathematics 121 or 150.

Rudiments of programming mathematical and scientific problems on various platforms which include: EXCEL, Matlab, and Maple.

**MATH 245. Discrete Mathematics (3) [GE]**

Prerequisite: Mathematics 121 or 150.

Logic, methods of proof, set theory, number theory, equivalence and order relations, counting (combinations and permutations), solving recurrence relations.

**MATH 252. Calculus III (4) [GE]**

Prerequisite: Mathematics 151 with minimum grade of C.

Functions of several variables. Vectors. Partial derivatives and multiple integrals. Line integrals and Green's Theorem.

**MATH 254. Introduction to Linear Algebra (3) [GE]**

Prerequisite: Mathematics 151.

Matrix algebra, Gaussian elimination, determinants, vector spaces, linear transformations, orthogonality, eigenvalues, and eigenvectors.

**MATH 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**MATH 299. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.**

**MATH 302. Transition to Higher Mathematics (3)**

Prerequisite: Mathematics 150.

Selected topics in mathematics to emphasize proof writing and problem solving. Intended for those planning to teach secondary school mathematics.

**MATH 303. History of Mathematics (3) [GE]**

Prerequisite: Mathematics 141 or completion of the General Education requirement in Foundations of Learning IIA., Natural Sciences and Quantitative Reasoning for nonmajors.

Major currents in the development of mathematics from ancient Egypt and Babylon to late nineteenth century Europe.

**MATH 311. Statistics and Probability in Elementary Mathematics (2)**

Prerequisites: Mathematics 211 and satisfactory performance on Mathematics Departmental Placement Examination, Part LS.

Topics from statistics and probability. Enrollment limited to liberal studies majors. Not open to students with credit in Mathematics 312.

**MATH 312. Topics from Elementary Mathematics I (3)  
(Offered only at IVC)**

Prerequisites: Mathematics 211 and satisfactory performance on Mathematics Departmental Placement Examination, Part LS.

Topics from statistics and probability. Enrollment limited to future teachers in grades K-8. Not open to students with credit in Mathematics 311.

**MATH 313. Selected Topics in Elementary Mathematics (3)**

Prerequisite: Mathematics 311 or 312.

Capstone course for prospective K-8 teachers. Advanced topics in mathematics selected from algebra, number systems, transformation geometry, and problem solving. Enrollment limited to future teachers in grades K-8.

**MATH 315. Special Topics in Algebra, Geometry, and Problem Solving (2)**

Prerequisites: Mathematics 210, 311.

Capstone course for prospective elementary teachers to include algebra (describing change), geometry (rigid motions), and non-routine problem solving.

**MATH 336. Introduction to Mathematical Modeling (3)**

Prerequisite: Mathematics 254.

Models from the physical, natural, and social sciences including population models and arms race models. Emphasis on classes of models such as equilibrium models and compartment models.

**MATH 337. Elementary Differential Equations (3)**

Prerequisite: Mathematics 254 or 342A.

Integration of first-order differential equations, initial and boundary value problems for second-order equations, series solutions and transform methods, regular singularities.

**MATH 342A. Methods of Applied Mathematics I (3)**

Prerequisite: Mathematics 252.

Vector analysis, divergence and Stokes' theorem and related integral theorems. Matrix analysis, eigenvalues and eigenvectors, diagonalization. Introduction to ordinary differential equations. Computer software packages for matrix applications, solving, and graphing differential equations.

**MATH 342B. Methods of Applied Mathematics II (3)**

Prerequisite: Mathematics 342A with minimum grade of C.

Second order ordinary differential equations, power series methods, Bessel functions, Legendre polynomials. Linear partial differential equations, separation of variables, Fourier series, Sturm-Liouville theory, orthogonal expansions, Fourier Transforms. Use of computer software packages for symbolic algebra and solution of differential equations.

**MATH 413. Mathematics for the Middle Grades (3)**

Prerequisites: Senior standing and Mathematics 311 or 312.

Teacher-level look at mathematics taught in middle grades, to include proportional reasoning, rational and real numbers, probability, and algebra. Intended for those planning to teach mathematics in middle grades; cannot be used as part of major or minor in mathematical sciences with exception of major for single subject teaching credential. Students in the SSTC major must receive instructor permission.

**MATH 414. Mathematics Curriculum and Instruction (3)**

Prerequisites: Senior standing and 12 upper division units in mathematics.

Historical development of mathematics and mathematics curriculum. Principles and procedures of mathematics instruction in secondary schools. For secondary and postsecondary teachers and teacher candidates. Course cannot be used as part of the major or minor in mathematical sciences with exception of major for the single subject teaching credential.

**MATH 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**MATH 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.**

**MATH 509. Computers in Teaching Mathematics (3)**

Two lectures and three hours of laboratory.

Prerequisite: Mathematics 252.

Solving mathematical tasks using an appropriate computer interface, and problem-based curricula. Intended for those interested in mathematics teaching.

MATH



## MATH 510. Introduction to the Foundations of Geometry (3)

Prerequisite: Mathematics 122 or 151.

The foundations of Euclidean and hyperbolic geometries. Highly recommended for all prospective teachers of high school geometry.

## MATH 511. Projective Geometry (3)

Prerequisite: Mathematics 254.

Geometry emphasizing relationships between points, lines, and conics. Euclidean geometry and some non-Euclidean geometries as special cases of projective geometry.

## MATH 521A. Abstract Algebra (3)

Prerequisites: Mathematics 245 and 254.

Abstract algebra, including elementary number theory, groups, and rings.

## MATH 521B. Abstract Algebra (3)

Prerequisite: Mathematics 521A.

Continuation of Mathematics 521A. Rings, ideals, quotient rings, unique factorization, noncommutative rings, fields, quotient fields, and algebraic extensions.

## MATH 522. Number Theory (3)

Prerequisite: Mathematics 245.

Theory of numbers to include congruences, Diophantine equations, and a study of prime numbers; cryptography.

## MATH 523. Mathematical Logic (3)

Prerequisite: Mathematics 245.

Propositional logic and predicate calculus. Rules of proof and models. Completeness and the undecidability of arithmetic. Not open to students with credit in Philosophy 521.

## MATH 524. Linear Algebra (3)

Prerequisites: Mathematics 245 and 254; or 342A.

Vector spaces, linear transformations, orthogonality, eigenvalues and eigenvectors, normal forms for complex matrices, positive definite matrices and congruence.

## MATH 525. Algebraic Coding Theory (3)

Prerequisite: Mathematics 254.

Linear codes, perfect and related codes, cyclic linear codes, BCH codes, burst error-correcting codes.

## MATH 528. Information Theory and Data Compression (3)

Prerequisites: Mathematics 245 and 254.

Fundamental of discrete probability and information theory: joint and conditional distributions, Bayes' theorem, entropy, channel capacity. Noiseless coding theorem and data compression algorithms: Huffman codes, arithmetic coding, Ziv-Lempel codes. Information theory in error correction coding and cryptography.

## MATH 531. Partial Differential Equations (3)

Prerequisites: Mathematics 252 and 337.

Boundary value problems for heat and wave equations: eigenfunction expansions, Sturm-Liouville theory and Fourier series. D'Alembert's solution to wave equation; characteristics. Laplace's equation, maximum principles, Bessel functions.

## MATH 532. Functions of a Complex Variable (3)

Prerequisite: Mathematics 252.

Analytic functions, Cauchy-Riemann equations, theorem of Cauchy, Laurent series, calculus of residues, and applications.

## MATH 533. Vector Calculus (3)

Prerequisite: Mathematics 254 or 342A.

Scalar and vector fields; gradient, divergence, curl, line and surface integrals: Green's, Stokes' and divergence theorems. Green's identities. Applications to potential theory or fluid mechanics or electromagnetism.

## MATH 534A. Advanced Calculus I (3)

Prerequisites: Mathematics 245 and 254; or 342A.

Completeness of the real numbers and its consequences, sequences of real numbers, continuity, differentiability and integrability of functions of one real variable.

## MATH 534B. Advanced Calculus II (3)

Prerequisite: Mathematics 534A.

Series and sequences of functions and their applications, functions of several variables and their continuity, differentiability and integrability properties.

## MATH 537. Ordinary Differential Equations (3)

Prerequisite: Mathematics 337.

Theory of ordinary differential equations: existence and uniqueness, dependence on initial conditions and parameters, linear systems, stability and asymptotic behavior, plane autonomous systems, series solutions at regular singular points.

## MATH 538. Discrete Dynamical Systems and Chaos (3)

Prerequisites: Minimum grade of C in Mathematics 151; Mathematics 254 or 342A, 342B.

One- and two-dimensional iterated maps, equilibria and their stability, sensitive dependence on initial conditions, Lyapunov exponents, horseshoe maps, period doubling, chaotic attractors, Poincare maps, stable/unstable manifolds, bifurcations. Applications in biology, chemistry, physics, engineering, and other sciences.

## MATH 541. Introduction to Numerical Analysis and Computing (3)

Prerequisites: Mathematics 254 or 342A; and Computer Science 106 or 107 or 205.

Solution of equations of one variable, direct methods in numerical linear algebra, least squares approximation, interpolation and uniform approximation, quadrature.

## MATH 542. Introduction to Numerical Solutions of Differential Equations (3)

Prerequisites: Mathematics 337 and 541.

Initial and boundary value problems for ordinary differential equations. Partial differential equations. Iterative methods, finite difference methods, and the method of lines.

## MATH 543. Numerical Matrix Analysis (3)

Prerequisite: Mathematics 541.

Gaussian elimination, LU factorizations and pivoting strategies. Direct and iterative methods for linear systems. Iterative methods for diagonalization and eigensystem computation. Tridiagonal, Hessenberg, and Householder matrices. The QR algorithm.

## MATH 544. Computational Finance (3)

Prerequisite: Statistics 550 or 551A.

Risk evaluation. Numerical procedures for evaluating financial derivatives. Monte Carlo simulation techniques.

## MATH 561. Applied Graph Theory (3)

Prerequisite: Mathematics 245 or 254.

Undirected and directed graphs, trees, Hamiltonian circuits, classical problems of graph theory including applications to linear systems.

## MATH 562. Mathematical Methods of Operations Research (3)

Prerequisites: Mathematics 252 and 254.

Theory and applications concerned with optimization of linear and non-linear functions of several variables subject to constraints, including simplex algorithms, duality, applications to game theory, and descent algorithms.

## MATH 579. Combinatorics (3)

Prerequisite: Mathematics 245.

Permutations, combinations, generating functions, recurrence relations, inclusion-exclusion counting. Polya's theory of counting, other topics and applications.

## MATH 580. Risk Management: Stocks and Derivative Securities (3)

Prerequisite: Statistics 550 or 551A.

Theory of derivative securities with focus on evolution of stock prices and pricing of options.

**MATH 581. Risk Management: Portfolio Selection and Other Features of Finance Markets (3)**

Prerequisite: Statistics 550 or 551A.

Derivatives and term structures, method of principal components, theory of portfolio optimization, some numerical methods.

**MATH 596. Advanced Topics in Mathematics (1-4)**

Prerequisite: Consent of instructor.

Selected topics in classical and modern mathematical sciences. May be repeated with the approval of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

## Mathematics Education

### Courses (MTHED & MATH)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**LOWER DIVISION COURSE IN MATHEMATICS EDUCATION  
(Intended for Undergraduates)  
(MTHED)**

**NOTE: Proof of completion of Entry-Level Mathematics requirement required for Mathematics 105, 118, 120, 121, 122, 141, 150, 210, 211: Copy of ELM score or verification of exemption.**

**MTHED 212. Children's Mathematical Thinking (1-1.5)**

Prerequisite: Credit or concurrent registration in Mathematics 210.

Children's mathematical thinking and in-depth analyses of children's understanding of operations (addition, subtraction, multiplication, and division) and place value. Students will observe individual children solving mathematics problems. Real, compact disc, and/or web-based experience included.

**UPPER DIVISION COURSES IN MATHEMATICS EDUCATION  
(Also Acceptable for Advanced Degrees)**

**MTHED 571. Children's Mathematics Understanding in Primary Grades (Part I) (1-3)**

Prerequisite: Admission to mathematics specialist certificate program.

Ongoing assessment and instructional decision-making for increasing children's achievement and understanding of number, operations, and algebra in the primary grades. Maximum credit three units.

**MTHED 572. Children's Mathematics Understanding in Primary Grades (Part II) (1-3)**

Prerequisite: Admission to mathematics specialist certificate program.

Ongoing assessment and instructional decision-making for increasing children's achievement and understanding of rational numbers, geometry, and measurement in the primary grades. Maximum credit three units.

**MTHED 573. Children's Mathematics Understanding in Upper Elementary Grades (Part I) (1-3)**

Prerequisite: Admission to mathematics specialist certificate program.

Ongoing assessment and instructional decision-making for increasing children's achievement and understanding of number, operations, and algebra in the upper elementary grades. Maximum credit three units.

**MTHED 574. Children's Mathematics Understanding in Upper Elementary Grades (Part II) (1-3)**

Prerequisite: Admission to mathematics specialist certificate program.

Ongoing assessment and instructional decision-making for increasing children's achievement and understanding of rational numbers, geometry and measurement in the upper elementary grades. Maximum credit three units.

**MTHED 575. Developing Algebraic Understanding in Middle Grades (Part I) (1-3)**

Prerequisite: Admission to algebra specialist certificate program.

Ongoing assessment and instructional decision-making to increase children's achievement and understanding of rational number concepts in middle grades, laying foundation for understanding algebra. Maximum credit three units.

**MTHED 576. Developing Algebraic Understanding in Middle Grades (Part II) (1-3)**

Prerequisite: Admission to algebra specialist certificate program.

Ongoing assessment and instructional decision-making to increase children's achievement and understanding of proportional reasoning, patterns, and functions in middle grades, laying foundation for understanding algebra. Maximum credit three units.

## Mathematics Specialist Certificate Program

The Mathematics Specialist Certificate Program for Grades K-6 is open only to credentialed teachers. The certificate program is described in the *Graduate Bulletin* in the Mathematics and Science Education section. Undergraduate mathematics courses for the certificate program are listed below.

MATH

## Algebra Specialist Certificate Program

The Mathematics Specialist Certificate Program for Grades 6-8 is open only to credentialed teachers. The certificate program is described in the *Graduate Bulletin* in the Mathematics and Science Education section. Undergraduate mathematics courses for the certificate program are listed below.

**UPPER DIVISION COURSE IN MATHEMATICS  
(Intended for Undergraduates)  
(MATH)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript**

**MATH 487. Algebra in the Middle Grades (3)**

One lecture and four hours of activity.

Prerequisites: Teaching credential and consent of instructor.

Algebra as a powerful tool for analyzing, describing, and symbolizing physical relationships. Role of functions in algebra and in other areas of mathematics.

**UPPER DIVISION COURSES IN MATHEMATICS  
(Also Acceptable for Advanced Degrees)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.**

**MATH 501A. Reasoning: Place Value and Arithmetic Operations (1)**

Prerequisites: Teaching credential and consent of instructor.

Place value and its role in development and understanding of arithmetic operations, to include numeration systems, student methods, standard algorithms, and mental computation. (Formerly numbered Mathematics 281A.)

### **MATH 501B. Reasoning: Rational Numbers and Real Number Systems (1)**

Prerequisites: Teaching credential and consent of instructor.  
Rational numbers and structure of real number system, to include meanings and models for fractions with attention to operations on rational numbers. (Formerly numbered Mathematics 281A.)

### **MATH 502A. Reasoning: Geometric Shapes (1)**

Prerequisites: Teaching credential and consent of instructor.  
Geometry to include classification and representation of polyhedra, hierarchical relationships among quadrilaterals, symmetry and transformations in the plane. (Formerly numbered Mathematics 281B.)

### **MATH 502B. Reasoning: Measurement (1)**

Prerequisites: Teaching credential and consent of instructor.  
Key ideas of measurement, development of area formulas for two-dimensional figures, size changes, and similarity. (Formerly numbered Mathematics 281B.)

### **MATH 503A. Reasoning: Foundations of Quantitative Thinking (1)**

Prerequisites: Teaching credential and consent of instructor.  
Reasoning about quantities and their measurement and relationships among these quantities, to include representations of these relationships. Understand situations that call for additive or multiplicative reasoning; important role of these ideas in development of quantitative reasoning skills in primary grades. (Formerly numbered Mathematics 381.)

### **MATH 503B. Reasoning: Foundations of Algebraic Thinking (1)**

Prerequisites: Teaching credential and consent of instructor.  
Pattern searching, equivalence, making and justifying conjectures. Preparation for teaching California required K-12 algebraic reasoning strand. (Formerly numbered Mathematics 382.)

### **MATH 504A. Reasoning: Quantities and Mathematical Relationships (1)**

Prerequisites: Teaching credential and consent of instructor.  
Reasoning about measurable characteristics in problem context and relationships among these measurements. Additive, multiplicative reasoning, and proportional reasoning in middle grades. (Formerly numbered Mathematics 383.)

### **MATH 504B. Reasoning: Algebra and Nature of Change (1)**

Prerequisites: Teaching credential and consent of instructor.  
Pattern searching, generalizing, graphing to represent quantitative relationships, and role of these topics in preparing elementary and middle school students for algebra. (Formerly numbered Mathematics 384.)

### **MATH 505A. Reasoning: Probability (1)**

Prerequisites: Teaching credential and consent of instructor.  
Probabilistic situations, theoretical probabilities, and expected values. (Formerly numbered Mathematics 386.)

### **MATH 505B. Reasoning: Statistics (1)**

Prerequisites: Teaching credential and consent of instructor.  
Gathering, representing, and interpreting data sets, measures of central tendency, and characteristics of normal distributions. (Formerly numbered Mathematics 385.)

### **MATH 506A. Algebra in the Middle Grades I (3)**

Prerequisites: Teaching credential and consent of instructor.  
Mathematical foundations that underlie concepts and procedures emphasized in algebra I and algebra II as taught at middle and high school level, to include focus on real number system, ratios, proportional reasoning, equality, number theory, and proof.

### **MATH 506B. Algebra in the Middle Grades II (3)**

Prerequisites: Mathematics 506A, practicing teachers with valid teaching credential, and consent of instructor.

Mathematical foundations that underlie concepts and procedures emphasized in algebra I and algebra II as taught at middle and high school level, to include focus on functions in context of relations, patterns, and graphing.

### **MATH 507A. Functions and Study of Change I (2)**

Prerequisites: Mathematics 506B, practicing teachers with valid teaching credential, and consent of instructor.

Mathematical foundations that underlie concepts and procedures emphasized in algebra I and algebra II as taught at middle and high school level, to include focus on real number system, ratios, proportional reasoning, equality, number theory, and proof.

### **MATH 507B. Functions and Study of Change II (3)**

Prerequisites: Mathematics 507A, practicing teachers with valid teaching credential, and consent of instructor.

Arithmetic foundations for algebra in the middle grades, with a focus on real number system, ratios and proportional reasoning, number theory and proof.

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## **GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Mechanical Engineering

In the College of Engineering

**OFFICE: Engineering 328B**  
**TELEPHONE: 619-594-6067**  
**E-MAIL: [me@engineering.sdsu.edu](mailto:me@engineering.sdsu.edu)**  
**<http://mechanical.sdsu.edu>**

The undergraduate program in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; telephone: 410-347-7700.

## Faculty

Emeritus: Bauer, Bedore, Bilterman, Craig, Hoyt, Hussain, Lybarger, Mansfield, Morgan, Murphy, Ohnysty, Rao  
Chair: Mehrabadi  
Professors: Bhattacharjee, German, Impelluso, Kline, May-Newman, Mehrabadi, Morsi, Olevsky  
Associate Professors: Beyene, Moon  
Assistant Professors: Kassegne, Miller  
Adjunct: Cornwall

## Offered by the Department

Doctor of Philosophy degree in engineering sciences/applied mechanics.  
Master of Engineering.  
Master of Science degree in bioengineering.  
Master of Science degree in mechanical engineering.  
Major in mechanical engineering with the B.S. degree.

## Transfer Credit

No credit will be given for upper division engineering coursework taken at an institution having an engineering program which has not been accredited by the Engineering Accreditation Commission of ABET, unless the student successfully completes the first 12 units of engineering work attempted at this university. At that time, and upon recommendation of the department, credit will be given for the unaccredited work.

## General Education

Students will complete a minimum of 50 units in General Education, to include a minimum of nine upper division units taken after attaining junior class standing. No more than 12 units may be used for General Education credit from any one department or academic unit. No more than 7 units from one department can be used in Sections II and IV combined (Foundations of Learning and Explorations of Human Experience), nor more than 10 units from one department in Sections II, III, and IV combined (Foundations of Learning, American Institutions, and Explorations of Human Experience).

### I. Communication and Critical Thinking: 9 units

You may *not* use Credit/No Credit grades in this section.

1. Oral Communication (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 29 units

#### A. Natural Sciences and Quantitative Reasoning (17 units):

1. Physical Sciences (11 units)  
Engineering students will take Chemistry 200 which includes a laboratory (5 units).  
Physics 195 (3 units)  
Physics 196 (3 units)
2. Life Sciences (3 units)  
Engineering students will take Biology 100 or 101.

#### 3. Laboratory (satisfied under A.1. above)

#### 4. Mathematics/Quantitative Reasoning

Engineering students will take Mathematics 150 (3 units applicable to General Education). You may *not* use Credit/No Credit grades.

#### B. Social and Behavioral Sciences (3 units)

#### C. Humanities (9 units)

Complete three courses in three different areas. One of these courses and the one under IV.A. below must be taken in the same department.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Total: 9 units; must include one course of cultural diversity.

#### A. Upper division Humanities (3 units)

Three units must be taken from the same department as one of the Humanities courses selected in Foundations of Learning.

#### B. Upper division Humanities (3 units from a department not selected in A above.)

#### C. Upper division Social and Behavioral Sciences (3 units)

ME

## The Major

Mechanical engineers work on diverse, challenging problems that require the integration of science, engineering, and socioeconomic knowledge. Mechanical engineers develop solutions to physical problems, question how things work, make things work better, and create ideas for doing things in new and different ways. As a mechanical engineering student, you'll cover a broad scope of topics to prepare you for a successful engineering career.

Jobs in mechanical engineering include developing products to improve air and water quality, inventing more efficient energy sources, designing farm equipment to improve crop yield throughout the world, and developing systems for biological research as well as lifesaving medical equipment. A mechanical engineer, now more than ever, is someone who can translate scientific theories into the real products and processes to improve the quality of life.

Mechanical engineers are designers, and the program is dedicated to teaching engineering through the process of design. Design methodology and design projects are integrated throughout the curriculum, culminating in a capstone, design experience in the senior year where students are members of a design team.

The future depends on solving the worldwide problems of energy shortages, environmental pollution, world health, and inadequate food production. Mechanical engineers are actively involved in finding solutions for these problems.

In addition to the major in mechanical engineering with the B.S. degree, the department offers two BS/MS 4 + 1 degrees: The BS/MS 4 + 1 degree program (B.S. and M.S. in Mechanical Engineering) and the BS/MS 4 + 1 degree program (B.S. in Mechanical Engineering and M.S. in Bioengineering). These degrees are for SDSU mechanical engineering students who wish to gain expertise in a specialization of mechanical engineering or bioengineering prior to employment in industry, government, or as preparation for further training.

### Educational Objectives

The objectives of the mechanical engineering program are to produce Bachelor of Science graduates who:

1. Will be able to use their strong grounding in the core fundamentals of mechanical engineering, basic science, and mathematics in their future careers;
2. Will be able to employ an open minded but critical approach to the analysis of problems and design of systems, keeping in mind the technical, professional, societal, environmental, economic, and ethical dimensions of any solution;
3. Will be prepared for successful careers and have an appreciation of the need for life-long learning in a rapidly changing field;
4. Will be productive engineers with a broad appreciation of the world and the role that engineering plays in society.

Mechanical engineering students will have the following abilities upon graduation: knowledge of mathematics, science, and engineering; design and conduct experiments, analyze and interpret data; design a system, component, or process to meet desired needs; function on multidisciplinary teams; identify, formulate, solve engineering problems; understanding of professional and ethical responsibility; communicate effectively; understand impact of engineering solutions in a global and societal context; recognition of need for and an ability to engage in life-long learning; knowledge of contemporary issues; techniques, skills, and modern engineering tools necessary for engineering practice; apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations) to model, analyze, design, and realize physical systems, components or processes; work professionally in both thermal and mechanical systems areas.

### Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

### Mechanical Engineering Major

**With the B.S. Degree**  
**(Major Code: 09101) (SIMS Code: 447001)**

All students in mechanical engineering pursue a common program of basic sciences, engineering, and mechanical engineering fundamentals. The major consists of 51 upper division units. Students are provided with the opportunity to select a pattern of study to satisfy their areas of interest. This pattern of study is indicated in the sequence known as "professional electives" and may be selected from available courses in controls, energy conversion, gas dynamics, heat transfer, machine design, materials, thermodynamics, vibrations, and other areas.

*Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.*

**Preparation for the Major.** Mechanical Engineering 101, 102, 202, 240, 241; Biology 100 or 101; Chemistry 200; Electrical Engineering 204; Engineering 280; Engineering Mechanics 200, 220; Mathematics 150, 151, 252; Physics 195, 196, 196L, 197. (53 units)

**General Education.** Engineering students must follow the specific General Education program outlined in this section of the catalog. Other general education requirements and limitations, as well as listings of specific General Education course electives are presented in the General Education section of Graduation Requirements for the Bachelor's Degree.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 51 upper division units to include Mechanical Engineering 304 (or Civil Engineering 301), 310, 314, 330, 340, 350, 351, 452, 490A, 490B, 495, 555; Engineering Mechanics 340, 341.

Professional electives: Twelve units of additional coursework may be selected from any 400- or 500-level mechanical engineering course or approved courses from other departments.

#### **BS/MS 4+1 Degree Program** **B.S. and M.S. in Mechanical Engineering** **(SIMS Code: 447012)**

Students must complete 160 units to be simultaneously awarded the B.S. degree in mechanical engineering and the M.S. degree in mechanical engineering. Students can apply for admission to the BS/MS 4 + 1 (B.S. and M.S. in Mechanical Engineering) degree program when they have successfully completed a minimum of 90 units or a maximum of 115 units. These units must count towards one or the other of the two SDSU degree programs (BS or MS) that will ultimately be awarded in the dual degree program. All students must have a satisfactory score [minimum of 950 for combined verbal and quantitative on the Graduate Record Examination (GRE) General Test] and a minimum overall GPA of 3.0.

To satisfy the requirements for the BS/MS 4 + 1 degree program (B.S. and M.S. in Mechanical Engineering), students must achieve at least a 3.0 average in the 30 units of courses used to satisfy the graduate program of study. Of the 30 units, a maximum of nine units may be in 500-numbered mechanical engineering electives and all other program requirements must be satisfied. Three 500-level courses may be used to fulfill the elective requirements for the 4+1 BS/MS degree program (B.S. and M.S. in Mechanical Engineering) at the same time as serving as prerequisite courses for graduate study. The BS/MS 4 + 1 degree program (B.S. and M.S. in Mechanical Engineering) allows students to use any three 500-level M E courses toward their graduate degree. Students in the BS/MS 4 + 1 degree program (B.S. and M.S. in Mechanical Engineering) must follow the thesis option. Upon successful completion of the BS/MS 4 + 1 degree program, students will receive the B.S. degree in mechanical engineering and M.S. degree in mechanical engineering.

#### **BS/MS 4+1 Degree Program** **B.S. in Mechanical Engineering and M.S. in Bioengineering** **(SIMS Code: 447013)**

Students must complete 160 units to be simultaneously awarded the B.S. degree in mechanical engineering and the M.S. degree in bioengineering. Students can apply for admission to the BS/MS 4 + 1 degree program (B.S. in Mechanical Engineering and M.S. in Bioengineering) when they have successfully completed a minimum of 90 units or a maximum of 115 units. These units must count towards one or the other of the two SDSU degree programs (BS or MS) that will ultimately be awarded in the dual degree program. All students must have a satisfactory score [minimum of 950 for combined verbal and quantitative on the Graduate Record Examination (GRE) General Test] and a minimum overall GPA of 3.0.

To satisfy the requirements for the BS/MS 4 + 1 degree program (B.S. in Mechanical Engineering and M.S. in Bioengineering), students must achieve at least a 3.0 average in the 30 units of courses used to satisfy the graduate program of study. Of the 30 units, a maximum of nine units may be in 500-numbered mechanical engineering electives and all other program requirements must be satisfied. Three 500-level courses may be used to fulfill the elective requirements for the BS/MS 4 + 1 degree program at the same time as serving as prerequisite courses for graduate study. For the BS/MS 4 + 1 degree program (B.S. in Mechanical Engineering and M.S. in Bioengineering), students must take M E 502, 580, and 585 for the biomechanics specialization; M E 502 or 580, 540 or 543, and 585 for the biomaterials specialization. The bioinstrumentation specialization is not open to students in the BS/MS 4 + 1 degree program (B.S. in Mechanical Engineering and M.S. in Bioengineering). Upon successful completion of the BS/MS 4 + 1 degree program, students will receive the B.S. degree in mechanical engineering and M.S. degree in bioengineering.

**Master Plan.** The master plan provides an advising record for mechanical engineering majors and should be initiated by the student with their faculty adviser during the second semester of the freshman year. All students must comply with this requirement prior to enrollment in Mechanical Engineering 310. The master plan must be reviewed each semester with the faculty adviser before registration, and submitted to the Office of Advising and Evaluations the semester prior to graduation. All course substitutions must be approved by the department chair.

## Courses (M E)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### M E 101. Solid Modeling I (2)

Six hours of laboratory.

Computer-aided solid modeling, including engineering documentation, dimensioning and tolerancing per ASME Y14.5M-1004. Elementary sketching and dimensioning of orthographic and pictorial drawings and sections.

#### M E 102. Solid Modeling II (2)

Six hours of laboratory.

Prerequisite: Mechanical Engineering 101.

Continuation of computer-aided solid modeling and engineering documentation with geometric tolerancing, thread, and thread notations per ASME Y14.5M-1994. Finite element analysis (FEA) of mechanical components.

#### M E 202. Computer Programming and Applications (3)

Two lectures and three hours of activity.

Prerequisites: Mechanical Engineering 101 and Mathematics 151. Recommended: Mechanical Engineering 102.

Principles of C programming to solve selected numerical methods. Syntax topics include data types, loops, control flow, arrays, memory acquisition, functions. Algorithm topics include Gauss Reduction and Newton Raphson. Matlab implementations. Application areas in mechanical engineering include finite element, dynamics, computational fluid mechanics, physics based computer animation. (Formerly numbered Mechanical Engineering 203.)

#### M E 204. Mechatronics Preparation Laboratory (1)

Three hours of laboratory.

Prerequisites: Electrical Engineering 204 and Mathematics 151.

Simulated and hands-on circuit experiences with instrumentation and data acquisition, sensors and actuators to include transformers, op amps, digital gates, flip flops, motors, various transducers, sensors and actuators.

#### M E 240. Introduction to Engineering Materials (3)

Prerequisites: Chemistry 200 and credit or concurrent registration in Engineering Mechanics 200. **Proof of completion of prerequisites required:** Copy of transcript and evidence of concurrent registration in Engineering Mechanics 200.

Atomic and molecular structure of materials utilized in engineering. Analysis of the relationships between structure of materials and their mechanical, thermal, electrical, corrosion, and radiation properties. Examples of material structure relevant to civil, electrical, aerospace, and mechanical engineering applications.

#### M E 241. Materials Laboratory (1)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Mechanical Engineering 240.

Experimental methods used to characterize engineering materials and their mechanical behavior.

#### M E 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**NOTE: Proof of completion of prerequisites required for all Mechanical Engineering 300-, 400-, and 500-level courses: Copy of transcript is acceptable as proof. In addition, Mechanical Engineering 351, 490A, and 530 require evidence of concurrent registration in appropriate courses.**

#### M E 304. Mechanics of Materials (3)

Prerequisite: Engineering Mechanics 200.

Concepts of stress and strain. Generalized Hooke's law. Formulations for axial, shear, bending, torsion, and combined stresses applied to tension members, pinned joints, beams, and shafts. Euler buckling criteria for columns. Energy methods. Not open to students with credit in Civil Engineering 301.

#### M E 310. Engineering Design: Introduction (3)

Two lectures and three hours of guided design activities.

Prerequisites: Mechanical Engineering 102, 202, and Engineering Mechanics 220. Every mechanical engineering student must have a master plan on file before enrolling in Mechanical Engineering 310.

Professional approach to engineering design problems. Problem definition, information gathering, feasibility studies, analysis, final design and communication. Several design studies and projects are completed.

#### M E 314. Engineering Design: Mechanical Components (3)

Prerequisites: Mechanical Engineering 102, 202, 304 (or Civil Engineering 301).

Application of mechanics, physical properties of materials, and solid mechanics to the design of machine elements. Student design projects.

#### M E 330. Control Systems Laboratory (3)

Two lectures and three hours of laboratory.

Prerequisites: Mechanical Engineering 202, 204; Electrical Engineering 204; Engineering 280; Engineering Mechanics 220, 340; Linguistics 200 or Rhetoric and Writing Studies 200.

Control theory (e.g. stability, feedback, PID control) with applications in microprocessor-based control of dynamic, vibrational, and mechatronic systems. "Bread-boarding" and BASIC programming of microcontrollers and graphical programming of PC-based controller interfaces.

#### M E 340. Materials, Manufacturing, and Design (3)

Prerequisites: Mechanical Engineering 240, 241, 304 (or Civil Engineering 301).

Fabrication and thermomechanical processing effects on properties and service behavior of engineering materials. Fracture mechanics and materials behavior under a range of design conditions. Design criteria for engineering materials including fatigue and creep. Case studies and failure analysis techniques.

#### M E 350. Thermodynamics (3)

Prerequisites: Mathematics 252 and Engineering Mechanics 200.

Basic concepts and principles of thermodynamics with emphasis on simple compressible substances. First and second law analysis, entropy, exergy analysis and state relations.

#### M E 351. Engineering Thermodynamics (3)

Prerequisites: Mechanical Engineering 350 and credit or concurrent registration in Engineering Mechanics 340.

Analysis and design of gas and vapor power cycles, and refrigeration systems. Generalized property relations for gases and gas-vapor. Air-conditioning. Combustion and chemical equilibrium. Design of engineering systems and processes.

#### M E 352. Thermodynamics and Heat Transfer (3)

Prerequisites: Engineering Mechanics 200 and Mathematics 252.

First and second laws of thermodynamics; heat conduction, convection and radiation. Not acceptable for mechanical engineering majors.

#### M E 452. Principles of Heat Transfer (3)

Prerequisites: Mechanical Engineering 350 and Engineering Mechanics 340.

Analytical and numerical solutions of steady and transient one- and two-dimensional conduction problems, forced and natural convection in external and internal flows, and thermal radiation. Applications.

#### M E 490A-490B. Engineering Design: Senior Project (3-3)

One lecture and four hours of guided design activities.

Prerequisites for 490A: Mechanical Engineering 304 (or Civil Engineering 301), 310, 314, 452. Biology students enrolling in this course must have completed Biology 366, Electrical Engineering 204, Mechanical Engineering 352, and have credit or concurrent registration in Biology 590.

Prerequisites for 490B: Mechanical Engineering 490A, 495. Biology majors: Mechanical Engineering 490A and Biology 590.

Applications of engineering principles and design techniques to the designing, building, and testing of an engineering system. A single project is completed in this two-course sequence and is judged completed upon presentation of an oral and a written report. In addition, issues related to ethics and engineering practice are discussed.

M E

### **M E 495. Mechanical and Thermal Systems Laboratory (2)**

One lecture and three hours of laboratory.

Prerequisites: Mechanical Engineering 310, 330, 351, 452.

Data acquisition theory, instrumentation, sensors, data reduction, statistical and uncertainty analysis, and design of experiments. Experience in designing, performing, and reporting experiments on mechanical and thermal systems, mechanisms, vibrations, structures, thermodynamics, heat transfer.

### **M E 496. Advanced Mechanical Engineering Topics (1-3)**

Prerequisite: Consent of instructor. **Proof of completion of prerequisite required:** Copy of transcript.

Modern developments in mechanical engineering. See *Class Schedule* for specific content. Maximum credit nine units for any combination of Mechanical Engineering 496, 499 and 596.

### **M E 499. Special Study (1-3)**

Prerequisite: Consent of instructor. **Proof of completion of prerequisite required:** Copy of transcript.

Individual study. Maximum credit nine units for any combination of Mechanical Engineering 496, 499 and 596.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

**NOTE: Proof of Completion of prerequisites required for all Mechanical Engineering 300-, 400-, and 500-level courses: Copy of transcript. In addition, Mechanical Engineering 351, 490A, and 530 require evidence of concurrent registration in appropriate courses.**

### **M E 502. Continuum Mechanics (3)**

Prerequisites: Mechanical Engineering 304 (or Civil Engineering 301) and Engineering Mechanics 340.

Mechanics of continua, stress tensor, deformation and flow, constitutive relations. Applications to common solids and fluids

### **M E 514. Advanced Machine Design (3)**

Prerequisites: Mechanical Engineering 314 and 340.

Application of advanced mechanics of materials to design and analysis of mechanical elements. Probabilistic design and finite element methods and applications. Design projects involve extensive use of finite element programs.

### **M E 520. Introduction to Mechanical Vibrations (3)**

Prerequisites: Mechanical Engineering 304 (or Civil Engineering 301) and Mechanical Engineering 330.

Analysis of mechanical vibration; single- and multi-degree of freedom systems; free and forced vibrations; vibration isolation; vibration absorbers. Theory of vibration measuring instruments.

### **M E 530. Automatic Control Systems (3)**

Prerequisite: Mechanical Engineering 330.

Dynamic characteristics of control components and systems. Stability and response of closed loop systems. Design of control systems.

### **M E 540. Nonmetallic Materials (3)**

Prerequisites: Mechanical Engineering 314 and 340.

Fundamentals of ceramics, polymers, and composite materials. Materials design and selection. Statistical methods of brittle materials design, appropriate for ceramic materials, and rheological modeling of polymeric materials. Stress and strain analysis using classical lamination theory of multi-ply composite laminates.

### **M E 542. Manufacturing with Nonmetallic Materials (3)**

Prerequisites: Mechanical Engineering 340 and Engineering 280 with a grade of C or better.

Engineering polymers and composites, processes, and manufacturing techniques. Polymer flow in extrusion, compression molding, RTM, and calendaring. Hands-on fabrication and test exercises included along with a capstone manufacturing project.

### **M E 543. Powder-Based Manufacturing (3)**

Prerequisite: Mechanical Engineering 340.

Manufacturing of micro and nano-structured engineering components and composites starting with metal and/or ceramic powders. Powder production methods, characterization, powder shaping and compaction, sintering, hot consolidation, design considerations, and finishing operations.

### **M E 546. Computer Aided Manufacturing (3)**

Prerequisites: Mechanical Engineering 102, 314, 340; and Engineering 280 with a grade of C or better.

Computer controlled manufacturing and assembly techniques and devices. Databases and special languages. Agile manufacturing software programs and technologies.

### **M E 552. Heating, Ventilating, and Air-Conditioning (3)**

Prerequisites: Mechanical Engineering 351 and 452.

Fundamentals of air conditioning processes, psychrometrics, and building cooling load calculations. Design and analysis of HVAC systems. Equipment selection. Design codes and standards. Computerized cooling load calculations.

### **M E 555. Thermal Systems Analysis and Design (3)**

Prerequisites: Mechanical Engineering 351 and 452.

Analysis, design, and optimization of thermal systems using microcomputers. Modeling of thermal systems and components. Thermal system component characteristics and their effect on overall system performance. Relationship among thermal sciences in design process. Introduction to thermoeconomic optimization.

### **M E 556. Solar Energy Conversion (3)**

Prerequisites: Engineering Mechanics 340, Mechanical Engineering 351 and 452.

Application of thermodynamics, fluid mechanics and heat transfer to the thermal design of solar energy conversion systems. Computer simulations utilized.

### **M E 580. Biomechanics (3)**

Prerequisites: Mechanical Engineering 304 (or Civil Engineering 301) and Engineering Mechanics 340.

Application of engineering methodologies for quantitative understanding of biological/physiological phenomena. Continuum mechanics principles. Cardiovascular system and its components viewed from a mechanistic standpoint.

### **M E 585. Fundamentals of Micro-Electro-Mechanical Systems (MEMS) (3)**

One lecture and four hours of laboratory.

Prerequisites: For aerospace engineering majors: E E 204, E M 220, and M E 240. For electrical engineering majors: E E 330 and M E 240. For mechanical engineering majors: E M 220 and M E 240.

Microfabrication techniques, microsensors and microactuators, and scaling laws. A design project of a micro-device including schematic creation, test of performance, layout generation, and layout versus schematic comparison. (Formerly numbered Engineering Mechanics 585.)

### **M E 596. Advanced Mechanical Engineering Topics (1-3)**

Prerequisite: Consent of instructor. **Proof of completion of prerequisite required:** Copy of transcript.

Modern developments in mechanical engineering. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit of nine units for any combination of Mechanical Engineering 496, 499 and 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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### **GRADUATE COURSES** **Refer to the Graduate Bulletin.**

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# Military Science

In the College of Professional Studies and Fine Arts

**OFFICE:** Exercise and Nutritional Sciences 451  
**TELEPHONE:** 619-594-4943 / **FAX:** 619-594-7084

## Faculty

Chair: Arnold

Professor: Arnold

Assistant Professors: Bacon, Chandler, Goodman, Hernandez,  
Kesling, Lopez, Zuniga

## Offered by the Department

Army ROTC curriculum leading to a commission as a second lieutenant in the US Army.

Minor in military science.

## Curriculum

The Department of Military Science offers a two, three, and four-year Army Reserve Officers Training Corps (ROTC) program designed to develop future officers in the areas of leadership, management, foreign policy, national security, military history, and military skills. The Army ROTC program also offers a series of optional adventure outings and on-campus activities during the school year. These include orienteering, rappelling, sports programs and social activities. Enrollment in the Army ROTC program is not a requirement for taking military science courses. The Military Science Department offers a varied *class schedule* to meet students' requirements.

The Army ROTC program consists of one course per semester along with scheduled leadership laboratories and field training. The four-year program is divided into two parts: the basic course and the advanced course. The basic course is usually taken in the freshman and sophomore years. No military commitment is incurred during this time, and students may withdraw at any time through the end of the second year. The first year consists of two-unit introductory courses each semester. The second year consists of two-unit courses with instruction on organizational leadership theories. Uniforms, necessary military science textbooks, and materials are furnished without cost.

After completing the basic course, students who have demonstrated officer potential, have met physical and scholastic standards and agree to contract are eligible to enroll in the advanced course. This course is normally taken in the final two years of college and consists of outlined military science and designated enrichment courses that include communication skills, military history, and computer literacy. In addition, the advanced course consists of a paid five-week Advanced Camp held during the summer between the junior and senior years. This camp permits students to put into practice the leadership principles and theories acquired in the classroom. All students in the advanced course receive uniforms, necessary military science textbooks, pay for the Advanced Camp, and a living allowance of up to \$4,000 each school year.

Upon completion of the advanced course, students are commissioned Second Lieutenants in the US Army. The available options after commissioning are active duty for a minimum of three years or three months active duty for training followed by part-time participation in the US Army Reserve or US Army National Guard.

Several special programs are available for students who have previous ROTC training or active military service. These programs allow for part- or full-placement credit for the basic course. In addition, a program is available for simultaneous participation in both Army ROTC and the Army Reserve or Army National Guard.

## Two-Year Commissioning Program

This program offers students the opportunity to be commissioned officers after two years of Army ROTC instead of four years. The two year program is designed for community and junior college graduates and students who did not take Army ROTC during their first two years or who have prior military experience. The five-week summer Leaders Training Course (LTC), Military Science 221, provides the military skills and leadership training normally taught during the freshman and sophomore on-campus courses. LTC is conducted at Fort Knox, Kentucky, and a paid salary, transportation, meals, and lodging will be furnished. LTC graduates enroll in Military Science 301 to enter the advanced course.

## Cross Enrollment

Students can participate in Army ROTC while attending any other college or university in San Diego County. For further information concerning cross enrollment, contact the Department of Military Science at 619-594-4943.

## Applying for the Program

SDSU students enroll in military science courses by signing up during registration in the same manner as for other university classes. There is no advance application needed for the freshman or sophomore classes. Students need to contact the Department of Military Science to enroll in the Army ROTC program and to receive information on lab schedules and activities.

Students enrolling in other area colleges and universities need to contact the Department of Military Science at SDSU for curriculum requirements and application procedures at 619-594-4943.

## Financial Assistance

All students have the opportunity to compete for two, three, and four-year scholarships. These scholarships cover all tuition, laboratory, and book fees, and a \$350 monthly subsistence allowance during the school year. Scholarship applications are processed by the Department of Military Science. In addition, two-year scholarships are available at the Leaders Training Course (LTC) at Fort Knox, Kentucky, where you will be in competition only with the students attending the camp. Contact the department chair for details. Paid positions (part-time) are available through simultaneous membership in local reserve and National Guard units.

## Military Science Minor

**(Minor Code: 30009) (SIMS Code: 664901)**

The minor in military science consists of a minimum of 18 to 20 units to include Military Science 301, 302, 401, 402; and a minimum of six to eight units selected from a critical foreign language such as Arabic, Persian, or Russian.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

MIL S



## **Courses (MIL S)**

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### **LOWER DIVISION COURSES**

#### **MIL S 96. Leadership Laboratory (1) Cr/NC**

Application of individual skills and military tasks appropriate to a small unit leader. Prepares cadets for higher level leadership positions. Emphasis is on performance in leader roles which includes instruction. Maximum credit two units. Credit earned in this course not applicable to a bachelor's degree.

#### **MIL S 101. Leadership and Personal Development (3)**

Structure, organization, and missions of US Army. Preparation and development for officer status. (Formerly numbered Military Science 100A.)

#### **MIL S 102. Introduction to Tactical Leadership (3)**

Officer leadership, development, and functions. Emphasizing command responsibilities for basic foundation of military fundamentals. (Formerly numbered Military Science 100B.)

#### **MIL S 110. United States Military History (3)**

Analyze decisions made by American military leaders. Military engagements from colonial period through current operating environment. Principles of war and reviews of decisions affecting outcomes.

#### **MIL S 201. Innovative Team Leadership (3)**

Scientific approach to leadership theory and its applicability to military settings through study of human behavior and leadership models at individual and group levels using simulations, case studies, and diagnostic instruments. (Formerly numbered Military Science 210.)

#### **MIL S 202. Foundations of Tactical Leadership (3)**

Leadership at organizational level with application to military settings with emphasis on developing leader skills and examination of theories and concepts of civil-military relations, using simulations, case studies, and diagnostic instruments. (Formerly numbered Military Science 211.)

#### **MIL S 221. Cadet Basic Field Training (3)**

Prerequisite: Sophomore standing.

Five-week field training with training in structure, organization, and missions of the US Army; officer leadership, development, and responsibilities; basic military skills; personal conditioning; oral and written military communications.

#### **MIL S 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **MIL S 299. Special Study (1-4)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **MIL S 301. Adaptive Tactical Leadership (3)**

Prerequisite: Equivalent of two-year basic course program.

Techniques and skills required of military leaders. Military methods of instruction, review of essential map reading skills and case studies of military leadership techniques.

#### **MIL S 302. Leadership in Changing Environments (3)**

Prerequisite: Equivalent of two-year basic course program.

Current tactical doctrine and military techniques of planning and coordination required to apply doctrine to small unit operations.

#### **MIL S 401. Developing Adaptive Leaders (3)**

Prerequisites: Military Science 301 and 302.

Leadership and management problems encountered in a mid-level sized organization. Role of junior officer. Prepares senior cadets for positions as leaders and managers of resources at platoon/company level. (Formerly numbered Military Science 410.)

#### **MIL S 402. Leadership in a Complex World (3)**

Prerequisites: Military Science 301 and 302.

Military justice system as it has evolved from international law principles and established national security policies. History of military law, philosophy and structure of system to include court-martial ethics and decision-making. (Formerly numbered Military Science 411.)

#### **MIL S 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **MIL S 499. Special Study (1-3)**

Prerequisite: Consent of department chair.

Individual study. Maximum credit six units.

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# Music

In the College of Professional Studies and Fine Arts

**OFFICE: Music 112**

**TELEPHONE: 619-594-6031 / FAX: 619-594-1692**

**E-MAIL: [music.dance@sdsu.edu](mailto:music.dance@sdsu.edu)**

## Faculty

Emeritus: Almond, Anderson, Barra, Biggs, Bruderer, Chambers, Estes, Forman, Genzlinger, Hogg, Logan, Meadows, Mitchell, Moe, O'Donnell, Peterman, Sheldon, Stauffer, Ward-Steinman, Yates

Director: Conaty

Professors: Conaty, Dutton, Follingstad, Helzer, Kolar, Liebowitz, McDonald, Waters, Yeager

Associate Professors: Delgado, Friedrichs, Olschofka, Thompson

Assistant Professors: Rewoldt, Rowe, Smigel

Lecturers: Flood, Kitelinger, MacKenzie, Nikkel

## Applied Music Instruction

Bassoon: Martchev

Cello: Zhao

Clarinet: Liebowitz

Classical Guitar: Benedetti, Romero, Svoboda, Wetzel

Composition: Dutton, Waters

Double Bass: Kurtz, Magnusson

Euphonium: Dutton

Flute: Martchev, P.

Harp: Mashkovtseva

Horn: Kitelinger

Jazz Guitar: Boss

Jazz Studies: Helzer, Thompson, Yeager

Non-Western Instruments: Specialists from specific cultures as available each semester

Oboe: Conaty

Opera: Evans-O'Connor

Percussion: Cohen, Flood, Holguin

Piano: Follingstad, Kolar

Saxophone: Rewoldt, Rekevics

Trombone: Covington, Fellingner, Pollack

Trumpet: Wilds

Tuba: Dutton

Viola: Maril

Violin: Olschofka

Voice: MacKenzie, Nikkel, Toral, Tweed

## Offered by the School of Music and Dance

Master of Arts degree in music.

Master of Music degree.

Major in music with the B.A. degree in liberal arts and sciences.

Bachelor of Music degree in applied arts and sciences.

Teaching major in music for the single subject teaching credential.

Minor in music.

Certificate in performance.

Certificate in artist diploma, advanced (refer to the *Graduate Bulletin*).

## The Major

Music serves to enhance the lives of all people and provides a challenging avenue of creative expression for those who wish to pursue its serious study.

The Bachelor of Music program is for those students who have professional ambitions in music performance, public school teaching, composition, jazz studies, as a music generalist or seek a foundation for graduate study leading to college or university teaching or research positions. This program strongly emphasizes the professional aspects of music. The Bachelor of Music degree with a specialization in Music Education leads to the California Single Subject Teaching Credential.

Performance is the most obvious and frequent use of the musician's skill. However, graduates may also teach, compose, review, sell, and record music. In addition, inventing, constructing, tuning, and repairing instruments requires skills that are based on understanding the fundamentals of music. Some of the positions that a music graduate might hold include studio instructor; teacher in public or private schools; researcher for libraries, publishers, and museums; music therapist; recording artist, composer, or arranger, professional musician with an orchestra, band, or opera company, or arts management professional.

The Bachelor of Arts degree is a liberal arts degree for those students who seek broad understanding of and an intimate orientation to the discipline of music without professional goals.

Several Music Minor options are available for those students whose primary interest is in another department.

## Advising

All music majors are required to consult with their music faculty adviser as soon as possible; they are required to meet with their faculty adviser within the first two semesters after acceptance or transfer into the major.

## Music Curricula

### General Basic Requirements

1. All new students and transfer students who wish to enroll as music majors or minors are given placement examinations in music theory and piano and auditions on their major instrument. (Students wishing to be considered for Music Composition or the Electro-Acoustic-Music track in Contemporary Culture must submit a portfolio of compositions. Please contact the composition faculty directly for the contents of the portfolio.) As a result of these placement examinations, students will be directed to enroll in one or more of the following: Music 105, 106A, 106B, 205A, 205B, 206A, 206B, 305A, 305B, 405A, 405B; Music 250, 251, 450, and 451 with the appropriate letter suffix; and Music 110B, 210A-210B.
2. Each semester of private instruction concludes with a solo performance before a faculty jury.
3. To qualify for upper division study, music majors must pass a Junior Level Examination.
4. A final grade of C or higher is required in each semester of the CM courses in order to advance to the next higher course.
5. Students must participate in at least one major ensemble each semester of enrollment. Please see each degree program and specialization for specific unit requirements. Refer to the Music Student Handbook for more details.
6. Attendance at and performance in recitals is a requirement of all music majors. Freshmen must meet ushering requirements. Refer to the Music Student Handbook for detailed information.

### Statement on Computers

Students must become competent in the operation of personal computers to include word processing software, presentation software, web-based applications, and music notation software. Students, especially those planning to pursue the composition or electro-acoustic composition track, are encouraged to own a Macintosh laptop computer capable of running sophisticated music notation/composition software. For additional information regarding suggested platform and software information, contact the School of Music and Dance.

MUSIC

## Electives in Music – Non-Majors

The School of Music and Dance offers certain courses for students who are interested in music as an elective study area for the enrichment of their cultural background. Courses particularly suited for these needs are Music 102, 151, 345, 351C, 351D, and the music ensemble courses numbered 170 through 189 and from 370 to 389. Some students will be musically prepared to elect courses which may or may not be included in this group. Enrollment by qualified students who wish to elect these courses is encouraged.

Opportunities to participate in instrumental and vocal ensembles are also available to non-music majors. Music ensemble courses may be repeated. A maximum credit of 14 units of ensemble courses (Music 170-189, 370-389, 570-589) may be counted toward a bachelor's degree for non-majors.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Music Major

### With the B.A. Degree in Liberal Arts and Sciences (Major Code: 10052) (SIMS Code: 665304)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in music courses can apply to the degree.

A minor is required with this major.

**Preparation for the Major.** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 161; four units selected from courses numbered 170-189; Music 205A, 205B, 206A-206B; four units of Music 251; 261. (26-29 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units to include Music 305A, 305B, 308A, 308B, 347, 361; four units selected from courses numbered 370-389; 408A, 461, and two units of upper division music electives.

## Music Major

### With the Bachelor of Music Degree in Applied Arts and Sciences (Major Code: 10041)

All candidates for a bachelor of music degree must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." The maximum number of units in upper division music courses acceptable toward the Bachelor of Music degree is 70.

A minor is not required with this major.

**Preparation for the Major.** All majors must fulfill the requirements in one of the following areas of specialization.

#### (a) Contemporary Culture.

**Track 1) Electro-Acoustic Music (SIMS Code: 665313):** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 160, 161, 204, 205A, 205B, 206A-206B, 210A-210B, 260, 261; four units selected from courses numbered 170 through 189; two units of Music 207; two units of Music 251. (33-36 units)

**Track 2) World Music (SIMS Code: 665315):** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 160, 161, 204, 205A, 205B, 206A-206B, 210A-210B, 260, 261; four units of Music 170; four units of Music 251K. (33-36 units)

**(b) Music Education (SIMS Code: 665306).** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 161, 204, 205A, 205B, 206A-206B, 210A-210B, 212, 214, 215, 216, 217, 218, 246A, 246B, 261; four units selected from courses numbered 170 through 189, four units of Music 251. (39-42 units)

**(c) Performance (SIMS Code: 665381).** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 205A, 205B, 206A-206B, 210A-210B; six units selected from courses numbered 170 through 189; 12 units of Music 250. (Vocal majors must take Music 243\*. Keyboard majors take Music 211A-211B rather than Music 210A-210B.) (34-40 units)

**(d) Composition (SIMS Code: 665362).** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 161, 204, 205A, 205B, 206A-206B, 210A-210B, 261; six units selected from courses numbered 170 through 189; two units of Music 207; four to six units of Music 251. (33-38 units)

**(e) Jazz Studies (SIMS Code: 665378).** Music 104, 105 (or passing placement examination), 106A, 106B, 151, 166, 204, 205A, 205B, 206A-206B, 266; six units selected from courses numbered 170 through 189; four to eight units of Music 251. (29-36 units)

**(f) Professional Studies (SIMS Code: 665314).** Music 104, 105 (or passing placement examination), 106A, 106B, 110A-110B, 151, 161, 204, 205A, 205B, 206A-206B, 210A-210B, 212, 214, 215, 216, 217, 218, 261; four units selected from courses numbered 170 through 189; four units of Music 251. (35-38 units)

#### Language Requirement.

1. World Music—competency (equivalent to that which is normally attained in three semesters of college study) in any foreign language.
2. Music Education—competency (equivalent to that which is normally attained in two semesters of college study) in Spanish.
3. Performance—vocalists only—competency (equivalent to that which is normally attained in two years high school, or one semester of college study) in each of French, German, and Italian as evaluated in a language competency examination administered by the head of the vocal area.
4. Jazz Studies and instrumental performance majors—no language equivalency required.
5. Contemporary Culture, Professional Studies, and Composition—competency (equivalent to that which is normally attained in two semesters of college study) in French, German, Italian, or Spanish.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

#### Major.

##### (a) Contemporary Culture.

**Track 1) Electro-Acoustic Music:** Music 305A, 305B, 308A, 308B, 347, 361, 405A, 405B, 408A, 460, 461, 560; four units of Music 360; four units selected from courses numbered 370 through 389; four units of Music 451L; two units of Music 507. (44 units)

**Track 2) World Music:** Music 305A, 305B, 308A, 308B, 361, 408A, 461, 545, 561; four units of Music 370; two units of Music 451K; nine units selected from Music 360, 405A, 405B, 408B, 460, 499 (foreign study or fieldwork projects). (38 units)

**(b) Music Education.** All candidates for a teacher credential must complete all requirements as outlined in this section of the catalog under *Policy Studies or Teacher Education as an undergraduate major for the Bachelor of Music degree.* Music 305A, 305B, 308A, 308B, 346, 347, 361, 405A, 405B, 408A, 408B, 446; one unit of Music 348 or 349; four units selected from music courses numbered 370 through 389; three units of Music 451; Music 343 and three units of upper division music electives or six units of Music 554. (43 units)

**(c) Performance.** Music 305A, 305B, 308A, 308B, 347, 408A, 515; six units selected from courses numbered 370 through 389; 12 units of Music 450.

(Vocal majors must include two units of Music 516; Music 541, 543; two units of Music 554.)

(Keyboard majors must include two units of Music 516; Music 541, 542; four units of Music 554.)

(All other performance majors must select nine units from Music 405A, 516, 517, 518A, 518B, 541, 542, 554.) (44-47 units)

All Bachelor of Music students in performance must perform a public solo junior recital comprised of one-half hour of music (normally given in the second semester of their junior year) and a public solo senior recital comprised of one hour of music (normally given in the second semester of their senior year).

All Bachelor of Music students in performance must satisfy an international requirement. See the School Handbook for further information.

**(d) Composition.** Music 305A, 305B, 308A, 308B, 347, 361, 405A, 405B, 408A, 408B, 461; Music 348 or 349; six units selected from courses numbered 370 through 389; six units of Music 451; two units of Music 507. (41 units)

This specialization may not be formalized until completion of Music 205B or waiver by examination.

Students specializing in composition are required to present a concert of their compositions during their senior year and present the scores of works to be performed to the music faculty no less than one month in advance of the performance.

**(e) Jazz Studies.** Music 305A, 305B, 308A, 308B, 347, 364A-364B, 366, 408A, 466, 566A-566B; six units selected from courses numbered 370 through 389; eight units of Music 451. (42 units)

All Bachelor of Music students in jazz studies must perform a public junior recital comprised of one-half hour of music (normally given in the second semester of their junior year) and a public senior recital comprised of one hour of music (normally given in the second semester of their senior year).

**(f) Professional Studies.** Music 305A, 305B, 308A, 308B, 347, 361, 405A, 408A, 408B, 461; one unit of Music 348 or 349; four units selected from courses numbered 370 through 389; two units of Music 451; three upper division music electives. (33 units)

## Performance Studies for Credit

Credit may be allowed for performance studies under the following conditions:

1. Properly enrolled Bachelor of Music majors may enroll for performance studies with resident faculty without an additional fee.
2. Students may under no circumstances change instructors in the middle of a semester without first securing the permission of the director of the School of Music and Dance.
3. Prior to the start of performance studies at San Diego State University, students are required to take a preliminary audition conducted by music faculty which will indicate status at the beginning of their studies.
4. Students who have dropped out of school or have stopped taking performance studies for credit for one semester or more, upon resumption of that instruction for credit are required to present another preliminary audition.
5. At the end of each semester, the School of Music and Dance will sponsor a jury examination to satisfy itself that its standards have been met.
6. Students enrolled in performance studies must be concurrently enrolled in the Comprehensive Musicianship program and class piano until such time as the CM and piano requirements are fulfilled.

## Music Minor

**(Minor Code: 10052)**

To be admitted to the minor program, the student must audition to demonstrate vocal or instrumental performing ability.

The minor in music consists of 24 units in music selected from one of the following areas:

**Electro-Acoustic Music (SIMS Code: 665321).** Requirements include Music 105 (or passing placement examination), 110A-110B, 160, 207, 260, 360 (4 units), 460, 507\* (2 units), 560, and submission of composition portfolio.

**Elementary Music Education (SIMS Code: 665308).** Requirements include Music 102, 110A-110B; two units selected from courses numbered 170 through 189; five units of Music 212, 214, 215, 216, 217, 218; Music 246A\*, 343, 345; two units selected from courses numbered 370-389; and two units of upper division music electives.

Students receive a strong multicultural component in Music 343 and 345.

**Classical Music (SIMS Code: 665307).** To be admitted to this area students must take a placement examination in comprehensive musicianship. Requirements include Music 104, 110A-110B, 151; two units selected from Music 170-189; Music 205A\*, 205B; two units selected from Music 370-389; and eight units of upper division electives selected with the approval of the adviser.

**Jazz Instrumental (SIMS Code: 665320).** Requirements include two units each of Music 170 and 370; two units each of Music 189 and 389; Music 166, 266, 364A, 364B, 366, 466, 566A\*, 566B\*.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*Additional prerequisites required.

## Performance Certificate

**(Certificate Code: 90052) (SIMS Code: 665389)**

The performance certificate serves to prepare preprofessional performance students who have not earned a university degree for professional careers by giving focused instruction in all areas of performance including performing technique, interpretation, repertoire, performing experience and knowledge of the business of professional performance.

Successful completion of an entrance audition and placement examinations are required for entrance to this certificate program. Applicants must also present a one-page statement of purpose, academic transcripts, and test scores that satisfy CSU eligibility requirements. Voice students must be at least 21 years of age.

Students must complete the following 36 unit program: Two to three units selected from Music 151, 308A, 308B, 408A, 408B; 170-189 (3 units); six units selected from Music 205A, 205B, 305A, 305B, 405A, 405B; six units of Music 250; three units selected from courses numbered 370 through 389; six units of Music 450; Music 515, 516 (2 units), 554; three to four units of music electives. Students must present a full-length qualifying solo recital at the end of their second semester and a full-length solo recital in their final semester. Vocal students must demonstrate competency equal to two years of high school instruction or a college level course in French, German, or Italian.

Students must maintain a minimum 3.0 grade point average in all advanced certificate coursework, with no less than a grade of C in any course. Only three units of coursework with a grade of C can count toward the performance certificate.

All units in this certificate program are applicable to the various specializations in the Bachelor of Music degree program. However, not all courses are required in each specialization. All university entrance requirements must be met to matriculate as a music major. See requirements for each specialization listed under the music major.

## Courses (MUSIC)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### MUSIC 101. Recitals (1) Cr/NC

Preparation for individual solo performances and attendance at a minimum of 12 concerts or recitals in accordance with music requirements. Maximum credit four units.

#### MUSIC 102. Basic Musicianship for Non-Music Majors (3)

Rudimentary music theory involving the elements of music: melody, rhythm, and harmony. Developing the understanding of these elements through instrumental and vocal experiences which include the use of unison and part-singing, the keyboard, and simple melodic and harmonic instruments. For liberal studies and preservice teachers. Not open to students with credit in Music 105 or 105B.

MUSIC

## **MUSIC 104. Music Technology (1)**

Two hours of activity.

Current technology in music composition, ear-training, score preparation, performance and research practices. Open to music majors and minors only. Not open to students with credit in Music 204.

## **MUSIC 105. Introduction to Elements of Music (3)**

Music from aesthetic, communicative, theoretical, and creative perspective. Development of understanding of aesthetic valuing, musical notation, rhythm, theory, pitch, aural skills, and musical terminology. Not open to students with credit in Music 102. (Formerly numbered Music 105A.)

## **MUSIC 106A. Introduction to Aural Skills I (1)**

Three hours of activity.

Introduction to sight-singing and music dictation. Not open to students with credit in Music 102.

## **MUSIC 106B. Introduction to Aural Skills II (1)**

Three hours of activity.

Prerequisite: Music 106A with a grade of C (2.0) or better, or passing placement examination.

Introduction to sight-singing and music dictation continued.

## **MUSIC 110A-110B. Piano - Elementary Class Instruction (1-1)**

Two hours.

Prerequisite: For 110B: Music 110A with a grade of C (2.0) or better.

Basic keyboard experience through study of music reading, notation, scales, chords, and sight-reading covering a repertoire of beginning and intermediate songs and piano literature, with emphasis on keyboard harmony. Required of music majors and minors and credential candidates for teaching at the kindergarten-primary level. Music 110A not open to students with credit in Music 110B, 210A, 210B, 211A, 211B. Music 110B not open to students with credit in Music 210A, 210B, 211A, 211B.

## **MUSIC 151. Introduction to Music (3) [GE]**

Elements of music as exemplified by works representing different areas, cultures, styles, and forms. See *Class Schedule* for specific content.

## **MUSIC 160. Introduction to Electro-Acoustic Music (2)**

One lecture and two hours of activity.

Historical overview of electro-acoustic music with hands-on introduction to analog multi-track recording/mixing, digital sequencing with emphasis on shared lineage of classical and popular idioms.

## **MUSIC 161. Music and Dance of Africa (1)**

Two hours of activity.

Study and performance of African music and dance with attention to both historical/cultural elements and music performance.

## **MUSIC 166. Elements of Jazz I (2)**

Fundamental harmonic analysis of basic jazz progressions, common modes and blues scale variations, solo transcription analysis, and ear-training.

### **Performance Organization Courses (Music 170 through 189)**

The performance organization courses are devoted to the study in detail and the public performance of a wide range of representative literature for each type of ensemble and designed to provide students with practical experience in rehearsal techniques.

## **MUSIC 170. Chamber Music (1)**

Three hours. Four hours for opera.

Prerequisite: Consent of instructor.

Sections for string, woodwind, brass, piano, vocal, and mixed ensemble groups of three or more players. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit four units.

## **MUSIC 174. Concert Band (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 175. Marching Band (2)**

More than six hours.

Prerequisite: Consent of instructor.

Study and public performance of literature for the ensemble. Practical experience in rehearsal techniques. Maximum combined credit for Music 175 and 375 eight units.

## **MUSIC 176. Wind Symphony (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 177. Symphonic Band (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 180. Symphony Orchestra (1)**

Five hours.

Prerequisite: Consent of instructor.

Maximum credit four units.

## **MUSIC 183. Opera Workshop (1)**

Two hours of activity.

Prerequisites: By audition and consent of instructor.

Opera scenes, specific roles, chorus, design, and technical support functions in opera. Maximum credit four units.

## **MUSIC 184. Opera Theatre (2)**

Six or more hours per week.

The interpretation and characterization of light and grand opera. Specific work in coordination of operatic ensemble. Maximum credit eight units.

## **MUSIC 185. Concert Choir (1)**

Five hours.

Prerequisite: Consent of instructor.

Maximum credit four units.

## **MUSIC 186. Chamber Singers (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for the ensemble. Practical experience in rehearsal technique. Maximum credit four units.

## **MUSIC 189. Jazz Ensemble (1)**

More than three hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 204. Music Composition Technology (1)**

Two hours of activity.

Prerequisite: Music 104.

Current technology in electro-acoustic music composition, score preparation, performance practices. Open to music majors and minors only.

## **MUSIC 205A. Comprehensive Musicianship (3)**

Prerequisite: Music 105 with a grade of C (2.0) or better, or passing placement examination.

Music theory, harmony, composition, counterpoint, and analysis. Open to music majors and minors only. Not open to students with credit in Music 205B, 305A, 305B, 405A, 405B.

## **MUSIC 205B. Comprehensive Musicianship (3)**

Prerequisite: Music 205A with a grade of C (2.0) or better.

Music theory, harmony, composition, counterpoint, and analysis. Continuation of Music 205A. Open to music majors and minors only. Not open to students with credit in Music 305A, 305B, 405A, 405B.

**MUSIC 206A-206B. Aural Skills (1-1)**

Prerequisite for Music 206A: Music 106B with a grade of C (2.0) or better. Prerequisite for Music 206B: Music 206A with a grade of C (2.0) or better.

Preparation for Junior Level Aural Skills Examination. For music majors only.

**MUSIC 207. Composition Laboratory (1)**

Three hours of laboratory.

Prerequisite: Consent of instructor.

Original writing in different homophonic and polyphonic forms for various media. See *Class Schedule* for specific content. Maximum credit two units.

**MUSIC 210A-210B. Piano - Elementary Class Instruction (1-1)**

Two hours.

Prerequisite: For 210A: Music 110B with a grade of C (2.0) or better. For 210B: Music 210A with a grade of C (2.0) or better.

Continuation of Music 110A-110B. Not open to students with credit in Music 211A-211B. (Music 210A formerly numbered Music 110C. Music 210B formerly numbered Music 110D.)

**MUSIC 211A-211B. Class Piano - Keyboard Major (1-1)**

Two hours.

Prerequisite: For 211B: Music 211A

Technical studies, keyboard harmony to include figured bass and jazz, performance practice and ornamentation, open score reading, transportation and accompanying skills, improvisation and arranging for the advanced pianist. Not open to students with credit in Music 110A, 110B, 210A, 210B.

**MUSIC 212. Voice - Elementary Class Instruction (1)**

Two hours.

Mastery of the fundamentals of voice. Not open to voice majors. (Formerly numbered Music 115.)

**MUSIC 214. Strings - Elementary Class Instruction (1)**

Two hours.

Fundamentals of string instruments by lecture and acquisition of elementary skills for purpose of gaining teaching and conducting skills in working with strings. Primarily for music education majors. (Formerly numbered Music 220.)

**MUSIC 215. Woodwinds - Elementary Class Instruction (1)**

Two hours.

Fundamentals of woodwind instruments by lecture and acquisition of elementary skills for purpose of gaining teaching and conducting skills in working with woodwinds. Primarily for music education majors. (Formerly numbered Music 225.)

**MUSIC 216. Brass - Elementary Class Instruction (1)**

Two hours.

Fundamentals of brass instruments by lecture and acquisition of elementary skills. Primarily for music education majors. (Formerly numbered Music 230.)

**MUSIC 217. Percussion - Elementary Class Instruction (1)**

Two hours.

Fundamentals of percussion through acquisition of elementary skill on the snare drum and by demonstration and lecture regarding all commonly used percussion instruments of definite and indefinite pitch. Not open to percussion majors. Primarily for music education majors. (Formerly numbered Music 235.)

**MUSIC 218. Guitar - Elementary Class Instruction (1)**

Two hours.

Open to all students interested in fundamentals of guitar and elementary music skills. Not open to guitar majors. (Formerly numbered Music 240.)

**MUSIC 243. Diction I (1)**

Three hours of activity.

Prerequisite: Music 105.

Principles of pronunciation and enunciation. Application to song and opera using the IPA, in English and Italian.

**MUSIC 246A. Practicum in Music Education I (2)**

One lecture and two hours of activity.

Prerequisite: Music 205B.

Introduction to music education. Exposure to music teaching profession at all grade levels before choosing an area of specialization.

**MUSIC 246B. Practicum in Music Education II (2)**

One lecture and two hours of activity.

Prerequisite: Music 246A with a grade of C (2.0) or better.

Methods and materials. Development of lesson plan and selection of appropriate materials and methods. Rehearsal techniques for elementary, junior high, and high school. Observations of public school master teachers.

**MUSIC 250. Performance Major Studies (3)**

Prerequisite: Open only to music majors in the performance specialization. Audition required.

Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 250 is 12 units.

- |                      |                                   |
|----------------------|-----------------------------------|
| <b>A.</b> Keyboard   | <b>F.</b> Strings                 |
| <b>B.</b> Voice      | <b>G.</b> Classical Guitar        |
| <b>C.</b> Woodwinds  | <b>H.</b> Harp                    |
| <b>D.</b> Brass      | <b>K.</b> Non-Western Instruments |
| <b>E.</b> Percussion |                                   |

**MUSIC 251. Performance Studies (1-2)**

Prerequisites: Open only to music majors. Audition and approval by music faculty.

Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 251 is eight units.

- |                      |   |
|----------------------|---|
| <b>A.</b> Keyboard   | <b>G.</b> Classical Guitar                    |
| <b>B.</b> Voice      | <b>H.</b> Harp                                |
| <b>C.</b> Woodwinds  | <b>I.</b> Jazz Instruments                    |
| <b>D.</b> Brass      | <b>J.</b> Medieval or Renaissance Instruments |
| <b>E.</b> Percussion | <b>K.</b> Non-Western Instruments             |
| <b>F.</b> Strings    | <b>L.</b> Composition                         |

**MUSIC 260. Electro-Acoustic Music Composition I (2)**

One lecture and two hours of activity.

Prerequisite: Music 160.

Sound sampling, musique concrete, subtractive synthesis, physics of sound and basic digital audio theory. Emphasis on application of techniques and theoretical knowledge to produce original musical compositions.

**MUSIC 261. Music of Latin America (1)**

Two hours of activity.

Study and performance of Afro-Cuban and Brazilian music with attention to both historical/cultural elements and music performance.

**MUSIC 266. Elements of Jazz II (2)**

Prerequisite: Music 166.

Harmonic analysis of standard and bebop repertoire, less common modes and dominant scales, solo transcription, analysis, and ear-training.

**MUSIC 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**MUSIC 301. Recitals (1) Cr/NC**

Preparation for individual solo performances and attendance at a minimum of 12 concerts or recitals in accordance with music requirements. Maximum credit four units.

**MUSIC 305A. Comprehensive Musicianship (3)**

Prerequisites: Music 205B with a grade of C (2.0) or better. Concurrent registration in Music 308A.

Music theory, harmony, composition, counterpoint, and analysis. Continuation of Music 205B. Open to music majors and minors only. Not open to students with credit in Music 305B, 405A, 405B.

MUSIC

## **MUSIC 305B. Comprehensive Musicianship (3)**

Prerequisites: Music 305A with a grade of C (2.0) or better. Concurrent registration in Music 308B.

Music theory, harmony, composition, counterpoint, and analysis. Continuation of Music 305A. Open to music majors and minors only. Not open to students with credit in Music 405A, 405B.

## **MUSIC 308A. Music History: Antiquity to Baroque (3)**

Prerequisites: Music 151. Concurrent registration in Music 305A.

European art music from ancient Greece through the Baroque. Evolution of musical style in a historical and cultural context. Interrelationships of music, politics, technology, economics, and ideology. Open to music majors and minors only.

## **MUSIC 308B. Music History: Classic to Romantic (3)**

Prerequisites: Music 308A. Concurrent registration in Music 305B.

European art music from 1750 to beginning of 20th century. Evolution of musical style as a response to historical and cultural context. Interrelationships of music, politics, technology, economics, and ideology. Open to music majors and minors only.

## **MUSIC 343. Music Literature for Children (3)**

Prerequisite: Music 102 or 205B.

Analytical study of music suitable for children of all ages. Background information, musical structure and functions of this music in the lives of children.

## **MUSIC 345. World Music in Contemporary Life (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Folk, ancient, and modern art music of world cultures, including traditional music of Africa, Asia, Latin America, the United States and Europe, as they relate to contemporary culture. Concert attendance required. Not open to music majors.

## **MUSIC 346. Practicum in Music Education III (2)**

One lecture and two hours of activity.

Prerequisites: Music 110B and 246B with a grade of C (2.0) or better.

Practical teaching applications. Students will develop and teach model lessons evaluated by students, faculty, and master teachers. Students choose a primary area of specialization and a master teacher in preparation for the final semester of the practicum series.

## **MUSIC 347. Conducting (1)**

Prerequisite: Music 205B with a grade of C (2.0) or better.

Basic techniques of conducting. Baton technique, conducting patterns, score reading, elements of performance and interpretation. Practical experience in typical conducting situations.

## **MUSIC 348. Choral Conducting (1)**

Prerequisite: Music 347 with a grade of C (2.0) or better.

Elements of baton technique and development of skills common to choral conducting. Representative literature and techniques for choral organizations studied and performed. Practical experience in typical conducting situations.

## **MUSIC 349. Instrumental Conducting (1)**

Prerequisite: Music 347 with a grade of C (2.0) or better.

Elements of baton technique and development of skills common to instrumental conducting. Representative literature and techniques for instrumental organizations studied and performed. Practical experience in typical conducting situations.

## **MUSIC 351. Great Music (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Significant music literature of the various historical periods with emphasis on the stylistic characteristics through directed listening. Not open to music majors.

C. History of Rock and Roll

D. Jazz in America

## **MUSIC 360. Electro-Acoustic Music Composition II (2)**

One lecture and three hours of laboratory.

Prerequisite: Music 260.

Concepts, terminology, and history combined with composition and recording projects introducing analog electro-acoustic music with multi-track recording and analog synthesizers; or digital electro-acoustic music using digital synthesizers and computer software. May be repeated with new content. Maximum credit four units.

## **MUSIC 361. Music of Indonesia (1)**

Two hours of activity.

Prerequisite: Upper division standing.

Study and performance of Indonesian music with attention to both historical/cultural elements and music performance on Javanese Gamelan.

## **MUSIC 364A-364B. History of Jazz (2-2)**

Jazz style and forms as they have evolved historically. Classroom playing experience in jazz styles as a part of study. Designed for music majors and minors. (Formerly numbered Music 364.)

## **MUSIC 366. Elements of Jazz III (2)**

Prerequisite: Music 266.

Post bop repertoire, altered modes and scales, solo transcription, analysis, and ear-training.

## **Performance Organization Courses (Music 369 through 389)**

**The performance group courses are devoted to the study in detail and the public performance of a wide range of representative literature for each type of ensemble, and designed to provide students with practical experience in rehearsal techniques.**

## **MUSIC 370. Chamber Music (1)**

Three hours. Four hours for opera.

Prerequisite: Consent of instructor.

Sections for string, woodwind, brass, piano, vocal, and mixed ensemble groups of three or more players. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit four units.

## **MUSIC 374. Concert Band (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 375. Marching Band (2)**

More than six hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for the ensemble. Practical experience in rehearsal technique. Maximum combined credit for Music 175 and 375 eight units.

## **MUSIC 376. Wind Symphony (1)**

Five hours per week.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 377. Symphonic Band (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 380. Symphony Orchestra (1)**

Five hours.

Prerequisite: Consent of instructor.

Maximum credit four units.

## **MUSIC 383. Opera Workshop (1)**

Two hours of activity.

Prerequisites: By audition and consent of instructor.

Opera scenes, specific roles, chorus, design, and technical support functions in opera. Maximum credit four units.

## **MUSIC 384. Opera Theatre (2)**

Six or more hours per week.

Interpretation and characterization of light and grand opera. Specific work in coordination of opera ensemble. Maximum credit eight units.

## **MUSIC 385. Concert Choir (1)**

Five hours.

Prerequisite: Consent of instructor.

Maximum credit four units.

**MUSIC 386. Chamber Singers (1)**

Five hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for the ensemble. Practical experience in rehearsal technique. Maximum credit four units.

**MUSIC 389. Jazz Ensemble (1)**

More than three hours.

Prerequisite: Consent of instructor.

Study and public performance of representative literature for ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

**MUSIC 405A. Comprehensive Musicianship: Orchestration, Arranging (3)**

Prerequisite: Music 305B with a grade of C (2.0) or better.

Orchestration and arranging techniques for comprehensive musicianship composition and arranging projects. Open to music majors and minors only.

**MUSIC 405B. Comprehensive Musicianship: Counterpoint (3)**

Prerequisite: Music 405A with a grade of C (2.0) or better.

Counterpoint in the sixteenth and eighteenth century. Open to music majors and minors only.

**MUSIC 408A. Music History: Twentieth and Twenty-First Century (3)**

Prerequisite: Music 308B.

Art music from beginning of 20th century to present. Evolution of musical style in a historical and cultural context. Interrelationships of music, politics, technology, economics, and ideology. Open to music majors and minors only.

**MUSIC 408B. Music History: Jazz Survey and Improvisation (2)**

One lecture and two hours of laboratory.

Prerequisite: Music 408A.

Historical and theoretical overview of jazz art music tradition. Rhythmic, harmonic, and melodic components. Analytical score study. Practical experience in modal and tonal jazz improvisation. Open only to music majors and minors.

**MUSIC 445. Performing Arts and Culture (1)**

Prerequisite: Upper division standing.

Exploration of traditional performing arts of different contemporary world cultures, with emphasis on kinesthetic and psychological aspects of experience of performance. Open to all upper division students. May be repeated with new content. Maximum credit three units.

**MUSIC 446. Practicum in Music Education IV (2)**

One lecture and two hours of activity.

Prerequisites: Music 205B, 210A, 346, 347 with a grade of C (2.0) or better.

Early field experience. Students will complete 20 hours of public school teaching in their area of specialization. Master teachers will provide on-site guidance and evaluation. Field experience and increased effectiveness discussed.

**MUSIC 450. Performance Major Studies (3)**

Prerequisite: Open only to music majors in the performance specialization. Audition required.

Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 450 is 12 units.

- |                      |                                   |
|----------------------|-----------------------------------|
| <b>A.</b> Keyboard   | <b>F.</b> Strings                 |
| <b>B.</b> Voice      | <b>G.</b> Classical Guitar        |
| <b>C.</b> Woodwinds  | <b>H.</b> Harp                    |
| <b>D.</b> Brass      | <b>K.</b> Non-Western Instruments |
| <b>E.</b> Percussion |                                   |

**MUSIC 451. Performance Studies (1-2)**

Prerequisites: Open only to music majors. Audition and approval by music faculty.

Studies in technical, stylistic, and aesthetic elements of artistic performance. Maximum credit for Music 451 is eight units.

- |                      |   |
|----------------------|---|
| <b>A.</b> Keyboard   | <b>G.</b> Classical Guitar                    |
| <b>B.</b> Voice      | <b>H.</b> Harp                                |
| <b>C.</b> Woodwinds  | <b>I.</b> Jazz Instruments                    |
| <b>D.</b> Brass      | <b>J.</b> Medieval or Renaissance instruments |
| <b>E.</b> Percussion | <b>K.</b> Non-Western Instruments             |
| <b>F.</b> Strings    | <b>L.</b> Composition                         |

**MUSIC 460. Art of Recording (3)**

Two lectures and three hours of activity.

Prerequisite: Music 360.

Creation of audio recordings of artistic merit. Vocal/instrumental microphone techniques for classical, jazz, rock; recording audio design, construction; acoustical properties, theories, mathematics.

**MUSIC 461. Non-Western Music (1)**

Two hours of activity.

Prerequisites: Music 361 and upper division standing.

Study and performance of music from various world cultures with attention to historical and cultural elements. See *Class Schedule* for specific content.

**MUSIC 466. Elements of Jazz IV (2)**

Prerequisite: Music 366.

Atonal and aeromedical theories and philosophy, research paper, solo transcription, analysis, and ear-training.

**MUSIC 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**MUSIC 499. Special Study (1-3)**

Prerequisite: Consent of the music director.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**MUSIC 507. Composition Laboratory (1)**

Three hours of laboratory.

Prerequisites: Music 207 with a grade of C (2.0) or better and consent of instructor.

Continuation of Music 207. Maximum credit two units.

**MUSIC 515. Professional Orientation for Music Performers (2)**

One lecture and two hours of activity.

Prerequisite: Twelve units of upper division or graduate standing in B.M. or M.M. degree. Others by consent of instructor.

Conditions met in professional music world as well as opportunities available. Auditions, contracts, legal and tax responsibilities, media and press promotion, grants, professional management, apprenticeships.

**MUSIC 516. Performance Practice Forum (1)**

Two hours of activity.

Prerequisite: Consent of instructor.

Musical style, repertoire, presentation, and evaluation as embodied in a musical performance. May be repeated with new content. Maximum credit four units.

**MUSIC 517. Orchestra Audition Practices (1)**

Two hours of activity.

Prerequisite: Graduate or upper division music major standing.

Techniques necessary to win an orchestral audition. Practice and preparation, live mock auditions, addressing stage fright and resume evaluation. See *Class Schedule* for specific content. Maximum credit one unit.

**MUSIC 518A-518B. Community Performance Practicum (2-2)**

One lecture and two hours of activity.

Prerequisites: Upper division or graduate standing for music and dance majors. Music 518A is prerequisite to 518B.

Production of professional-level concerts and outreach programs in the community.

**MUSIC 541. Performance Studies Pedagogy (3)**

Two lectures and three hours of laboratory.

Prerequisite: Consent of instructor.

Teaching strategies for beginning and intermediate applied music. Survey and evaluation of teaching materials. Observation of individual or group lessons. See *Class Schedule* for specific content. Maximum credit three units. Not open to students with credit in Music 541A or 541C.

MUSIC



## **MUSIC 542. Performance Studies Laboratory (2)**

One lecture and three hours of laboratory.  
Prerequisite: Music 541 with grade of C (2.0) or better.  
Practical experience in teaching of individual or group lessons.  
See *Class Schedule* for specific content. Maximum credit two units.  
Not open to students with credit in Music 542A or 542C.

## **MUSIC 543. Diction II (1)**

Prerequisite: Music 243.  
Principles of pronunciation and enunciation. Application to song and opera in Spanish, German, and French.

## **MUSIC 545. Music Cultures of the World (3)**

Prerequisite: Graduate or upper division standing in music.  
Diverse music traditions from around the world (traditional, classical, popular, sacred, folk). Ethnomusicology and contemporary topics in crosscultural music study.

## **MUSIC 554. Music Literature (2)**

Prerequisite: Music 205B with a grade of C (2.0) or better.  
Study of music literature. Analysis of scores and recordings. May be repeated with new course content. See *Class Schedule* for specific content. Maximum credit six units applicable to a bachelor's and master's degree.

## **MUSIC 560. Music and Visual Media (3)**

Two lectures and three hours of activity.  
Prerequisite: Music 460.  
Techniques and aesthetics of combining music/sounds and visual elements, including contemporary film scoring techniques, sound design for installations and performance art, video game scoring and experimental immersive 3-D virtual reality.

## **MUSIC 561. Area Studies: Ethnomusicology (3)**

Prerequisite: Music 305B with a grade of C (2.0) or better.  
Music of a specific culture. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

## **MUSIC 566A-566B. Jazz Arranging and Composition (2-2)**

Prerequisite: Music 305B with a grade of C (2.0) or better.  
Analysis of jazz compositions and arrangements; arranging and composing for large and small jazz ensembles.

## **MUSIC 570. Advanced Chamber Music (1)**

Three hours.  
Prerequisite: Consent of instructor.  
Study and public performance of established repertory as well as new compositions. Sections for string, woodwind, brass, piano, vocal, and mixed ensemble groups of three or more players. May be repeated with new course content. See *Class Schedule* for specific content. Maximum credit four units.

## **MUSIC 576. Wind Symphony (1)**

Five hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 577. Symphonic Band (1)**

Five hours.  
Prerequisite: Consent of instructor.  
Study and performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 580. Symphony Orchestra (1)**

Five hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 583. Opera Workshop (1)**

Two hours of activity.  
Prerequisites: By audition and consent of instructor.  
Opera scenes, specific roles, chorus, design, and technical support functions in opera. Maximum credit four units.

## **MUSIC 584. Opera Theatre (2)**

Six or more hours per week.  
Prerequisite: By audition.  
Interpretation and characterization of light and grand opera. Specific work in coordination of opera ensemble. Maximum credit eight units of which six units are applicable to a master's degree.

## **MUSIC 585. Concert Choir (1)**

Five hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 586. Chamber Singers (1)**

Five hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal technique. Maximum credit four units.

## **MUSIC 589. Jazz Ensemble (1)**

Three hours.  
Prerequisite: Consent of instructor.  
Study and public performance of representative literature for the ensemble. Practical experience in rehearsal techniques. Maximum credit four units.

## **MUSIC 590. Advanced Practicum in Music (3)**

Prerequisite: Consent of instructor in area of practicum.  
Students will be assigned to appropriate class sections within selected undergraduate area as instructional assistants under staff supervision.

## **MUSIC 596. Special Topics in Music (1-3)**

A specialized study of selected topics from the several areas of music. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

## **MUSIC 598. Seminar in Music Theory (3)**

Prerequisite: Admission to the graduate program.  
Synthesis of theoretical forms, concepts, and practices required for full candidacy in the graduate music program. Not applicable to the master's degree in music.

## **GRADUATE COURSES** **Refer to the *Graduate Bulletin*.**

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# Natural Science

In the College of Sciences  
Administered by the Department of Physics

**OFFICE:** Physics 131  
**TELEPHONE:** 619-594-6240  
**<http://www-rohan.sdsu.edu/~natsci>**

## Faculty

Emeritus: Dessel, Dowler, Feher, Fisher, May, Wallace  
Program Coordinator: Roeder, P.  
Faculty: Goldberg (Physics), Kimbrough (Geological Sciences),  
Metzger (Chemistry and Biochemistry)

## Offered by Natural Science

Teaching major in physical science for the single subject teaching credential in science/physical science.

## The Major

The physical science major is offered as an interdisciplinary approach to the study of science. It stresses the interrelationship of physics with chemistry, geology, astronomy, biology, and mathematics. The major is designed primarily for students who intend to become high school teachers of both interdisciplinary science and physics.

One of the requirements for acceptance into the College of Education's post-baccalaureate credential program is to either pass the appropriate CSET examinations or complete an approved academic program. The single subject teaching credential in science subject matter preparation program described below satisfies the academic requirements for a student planning to teach integrated science and physics at the secondary level. Entrance into the post-baccalaureate credentialing program in part requires certification of subject matter competency by this program. This certification requires completion of the academic program with the required grades, submission of a satisfactory portfolio, and the recommendation of the department. Contact the subject matter preparation program adviser. In addition, all candidates for a Single Subject Teaching credential at San Diego State University must complete the requirements outlined in the catalog under Teacher Education or Policy Studies. Contact the School of Teacher Education or the Policy Studies in Language and Cross-Cultural Education department for up-to-date information on prerequisites.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Physical Science Major

**In preparation for the Single Subject Teaching Credential in Science/Physical Science**

**With the B.A. Degree in Applied Arts and Sciences**

**(Major Code: 19011) (SIMS Code: 777303)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of the catalog on "Graduation Requirements." Candidates may complete one of their two American Institutions courses at the upper division level or satisfy the California state and local government portion of American Institutions by passing the California Government examination available through the Student Testing, Assessment and Research Office.

A minor is not required for this major.

**Preparation for the Major.** Africana Studies 140 or Chicana and Chicano Studies 111A or Communication 103; Astronomy 109, 201; Biology 203, 203L, 204, 204L; Chemistry 200, 201; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L; Teacher Education 211 (1 unit). (50 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 31 upper division units to include Natural Science 315; Geological Sciences 412; Mathematics 342A; Physics 311, 317, 350, 354, 357, 360, 400A.

N SCI

## Additional Requirements for Subject Matter Preparation Certification

**Satisfactory Grades.** A 2.0 or higher grade point average based on all upper division courses is required for the major. At most one course with a C- or lower among the courses listed under Preparation for the Major, and at most one course with a C- or lower among the courses listed under the Major. If a course is repeated, the highest grade will count.

**Formative Assessment.** Completion of a satisfactory, preliminary portfolio two semesters prior to graduation. Contact the subject matter preparation adviser for information.

**Summative Assessment.** Completion of a satisfactory, final portfolio and a positive recommendation from the instructor of Physics 357.

## Courses (N SCI)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSE

#### N SCI 100. Physical Science (3) [GE]

Conceptual approach to major issues in physics and chemistry, including principles of motion and energy and structure and properties of matter. Effects of physical science and technology on individuals and human society.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**N SCI 310. Science in Science Fiction (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Comparison of science portrayed in science fiction literature and mass media with science as understood by practicing scientists, emphasizing theoretical frameworks such as relativity, quantum mechanics, and evolution, and how authors work within or against such frameworks.

**N SCI 315. History of Science and Technology (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Ethical, moral, social, and cultural implications of significant issues and ideas in science and technology. History of development of these ideas from ancient Greek thinkers to contemporary scientists.

**N SCI 317. Development of Scientific Thought (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Basic scientific concepts and their historical development with emphasis on the problem of theory construction. The relationship between disciplined imagination and observational fact, as illustrated by selected case histories. Limitations of scientific inquiry.

**N SCI 333. Technology and Human Values (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Development of technology from the Middle Ages to present. Ethical, moral, social, cultural, and organizational implications as to how societies acquire technology.

**N SCI 412. Processes and Inquiry in the Physical Sciences (4)**

Three lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Investigation of processes of inquiry and rational thinking skills characteristic of the physical sciences.

**UPPER DIVISION COURSE  
(Also Acceptable for Advanced Degrees)**

**N SCI 596. Special Topics in Natural Science (1-4)**

Prerequisites: Minimum ten units of natural science.

Selected topics in natural science for preservice and inservice elementary and secondary teachers and candidates for the M.A. in education. May be repeated with consent of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

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# Naval Science

In the College of Professional Studies and Fine Arts

**OFFICE: Communication 130**  
**TELEPHONE: 619-594-3985**  
**FAX: 619-594-7848 / 619-260-6821**

## Faculty

Chair: Ault  
Professor: Ault  
Associate Professor: Garcia  
Assistant Professors: Clemente, Ewers, Goering, Kieszek, Luiszer, Ruedi, Siltmann

## Offered by the Department

Minor in naval science.

## NROTC Curriculum

The naval science program provides college students desiring to become Naval or Marine Corps reserve officers a basic professional background in the areas of leadership, ethics, and management; piloting and celestial navigation; nautical rules of the road; ship characteristics, design and propulsion; theory and employment of weapon systems; and development of warfare and amphibious operations. This curriculum is open to all university students. A graduate will be able to assume, through development of mind and character, the highest responsibilities of command, citizenship, and government.

The primary objectives of the Naval Science department curriculum are to provide:

1. An understanding of the fundamental concepts and principles of naval science;
2. A basic understanding of associated professional knowledge;
3. An appreciation of the requirements for national security;
4. A strong sense of personal integrity, honor and individual responsibility; and,
5. An educational background which will allow naval science students to undertake successfully, in later periods in their careers, advanced and continuing education in a field of application and interest to the Navy or Marine Corps.

## Naval Science Minor

**(Minor Code: 31119) (SIMS Code: 665701)**

The minor in naval science consists of a minimum of 15 units in naval science, 12 of which must be upper division.

Courses in the minor may not be counted toward the major, but may be used to satisfy requirements for preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (NAV S)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### NAV S 101. Introduction to Naval Science (3)

Two lectures and two hours of activity.

Structure, principles, and practices; lines of command and control; logistical organizations; functions and services of major components of the Navy and Marine Corps; shipboard organization; ethics and basic leadership skills.

#### NAV S 102. Naval Engineering (3)

Ship characteristics and types including hull, electrical, auxiliary systems, stability and damage control. Operation advantages and disadvantages of steam, gas turbine, and diesel propulsion engines receive in-depth study. Leadership topics in an engineering setting.

#### NAV S 201A. Naval Leadership and Management I (3)

Prerequisites: Naval Science 101 and 102.

Ethics and integrity, progressing through management theory and practical functions of management, culminating with module on leadership. Exposure to complex ethical, managerial, and leadership issues.

#### NAV S 202. Sea Power and Maritime Affairs (3)

Sea power and maritime affairs; general concept of sea power including Merchant Marine; role of naval warfare components used to support the Navy's mission; sea power as an instrument of national policy; comparative study of US and Soviet strategies.

NAV S

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### NAV S 301. Navigation (3)

Piloting, navigation, maneuvering, rules of nautical road. Use of charts, visual and electronic aids, operation of magnetic and gyro compasses, relative motion vector analysis, formation tactics, and ship employment. Tides, currents, wind, weather, navigation instruments, and characteristics of electronic navigation.

#### NAV S 302. Naval Operations (3)

Prerequisite: Naval Science 301.

Naval operations and operations analysis, ship handling, and afloat communications. Case analyses stress practical application of skills. Leadership traits in themes of communication counseling and conflict resolution applicable to naval operations.

#### NAV S 310. Evolution of Strategic Operations (3)

Forms of warfare through history to formulate sense of historical continuity in evolution of warfare, to develop a basic sense of strategy and alternative military actions, and to explore impact of historical precedent on military thought and actions.

#### NAV S 401A. Naval Weapons (3)

Prerequisite: Naval Science 302.

Develop working foundation and understanding of diversity and complexity of Navy and Marine Corps weapons systems including target detection and tracking, radar, sonar, electronic warfare systems, weapons warheads, fuzing, propulsion, guidance, launching, and fire control systems.

#### NAV S 402. Naval Leadership and Ethics (3)

Prerequisite: Naval Science 201A.

Naval leadership and management with emphasis on military justice administration, naval personnel management, material management, and administration of discipline.

#### NAV S 410. Amphibious Operations (3)

Amphibious warfare, doctrinal origins, and its evolution as an element of naval policy during the twentieth century.

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# Nursing

In the College of Health and Human Services

**OFFICE: Hardy Tower 58**

**TELEPHONE: 619-594-5357 / FAX: 619-594-2765**

**<http://nursing.sdsu.edu>**

Agency Member of the American College of Nurse Midwives and the American Association of Colleges of Nursing. Accredited by the American College of Nurse Midwives Accreditation Commission for Midwifery Education, California Board of Registered Nursing, and the Commission on Collegiate Nursing Education.

## Faculty

Emeritus: Broom, Dillon (Salerno), Flagg, Freitas, Gulino, Heineken, Hines, Laiho, LaMonica, Lantz, Leslie, Lookinland, Loveridge, Moffett, Morris, Reed, Riegel, Shively, Sweeney, Thomas, Verderber, Wahl, Walker, Wozniak

Director: Todero

Associate Directors: Hatton, Robinson

Professors: Blenner, Fields, Hatton, Stichler, Todero

Associate Professors: Fitzsimmons, Hadley, Hunter, Robinson, Saarmann

Assistant Professors: Attin, Braid, Gates, Lee, Thomason

Lecturers: Bass, Bidwell, Brown, Burns, Carlson, Casey, Cullinan, Cullum, DeSilva, Faron, Finkel, Hall, Herold, Jones, Jurf, Kari, Katzman, Kaufmann, Landis, Lischke, Long, L., Long, R., McCarthy, McEwan Miller, Navarrete-Mote, Nelson, Nicodemus, Parr, Preston, Runzel, Samad, Scott

## Offered by the School

Master of Science degree in nursing.

Concentration in advanced practice nursing of adults and the elderly.

Concentration in community health nursing.

Concentration in nursing education.

Concentration in nursing leadership in health care systems.

Major in nursing with the B.S. degree in applied arts and sciences.

Registered Nurse B.S., Major in Nursing Program.

School nurse services credential.

## The Major

The nursing profession is concerned with the total health care of the individual and the family. It is a profession which believes in the prevention of illness, caring for those who are acutely ill, and helping people with long-term rehabilitative problems to live in the healthiest way possible. Nursing is both a science and an art. It has its foundation in biophysical and behavioral humanistic sciences, as well as in specific nursing practice skills and techniques.

Students in the nursing program are provided opportunities to acquire knowledge from the natural and social sciences; to develop critical thinking and professional decision-making abilities; to utilize current research in the application of the nursing process; to develop leadership potential and accountability in professional practice; to become aware of the emerging roles of the professional nurse and of the social forces and trends affecting health and health care systems; and to learn to balance professional and personal growth and values.

Nurses are in demand throughout the country and are needed in such settings as acute care hospitals, community health agencies, homes, jails, outreach programs, public schools, health maintenance organizations, and clinics which serve underprivileged, minority, and rural populations. Career opportunities are particularly good for minority, bilingual/bicultural persons.

## Impacted Program

The nursing major is an impacted program. To be admitted to the nursing major, students must meet the following criteria:

- First-time freshmen must have completed one year of high school college preparatory courses in advanced algebra, biology, and chemistry with laboratory. Transfer students must have completed the same requirements or equivalent college-level courses;

- Complete with a minimum GPA of 2.50: Biology 100, 211, 211L, 212, 261 (Biology 211, 211L, 212, and 261 must total 12 semester units with a minimum grade of B- in each course); Chemistry 102\*, Communication 103, Psychology 101, Sociology 101. These courses cannot be taken for credit/no credit (Cr/NC);
- For fall and spring admission, submit the nursing packet by January 31;
- For spring admission, submit grades in progress by June 30.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

\* Completion of Chemistry 100 and 130 is also accepted as a substitute for Chemistry 102.

## Standards for Admission

### Admission to the University

Applicants must be eligible for admission to the University. See "Regulations: Admission and Registration" section of this catalog. Students accepted as nursing majors are subject to further screening to determine their eligibility to be admitted into the professional coursework.

### Admission to the Professional Program in Nursing

- Prerequisite Courses.** The following courses, or their equivalents, and course grades are required for admission to the nursing program:
  - Course grade requirement (C or better) in each of these required university courses: Biology 100, Chemistry 102 or 130\*, Communication 103, Psychology 101, and Sociology 101.
  - Course grade requirement (B- or better) in each of these required courses: Biology 211, 211L, 212, and 261.
- Minimum Grade Point Average.** Applicants must complete the nine prerequisite courses with a minimum overall grade point average of 2.5.
- Mathematics and Writing Competency Requirements.** Prior to admission to the School of Nursing, all students must satisfy the SDSU mathematics and writing competency requirements.
- Additional Point System.** The School of Nursing is an impacted program and more qualified applicants apply than can be accepted into the major. Therefore, applicants requesting admission to the professional coursework will be ranked and evaluated on the basis of a point system. Students are given points for each of the following categories:
  - GPA of required eight prerequisite courses;
  - Overall GPA (must be a minimum of 2.50);
  - Letters of verification on letterhead stationery will be required to substantiate 100 hours of volunteer health care experience working directly with ill patients in a clinical setting; or 1000 hours of paid work experience in a clinical setting. See School of Nursing Web site for more details;
  - The Test of Essential Academic Skills (T.E.A.S.) must be taken with a minimum of 75% achieved (test may be taken up to three times with the highest score counting for points);
  - An individual interview may be required.See nursing Web site for updates and specific additional point system allocation.
- Health Requirement.** To meet the specific health requirements, a medical examination and immunizations must be completed. The medical examination is in addition to the one required for admission to the university. For specific information concerning medical examination and immunization series, consult the School of Nursing office.

- 6. Academic Credit Through Examination.** Academic credit by examination may be obtained by those whose prior education and/or experience provides the knowledge and skills required to meet the objectives of one or more courses. Students who believe they may be eligible for credit by examination should contact the School of Nursing office for an appointment for special advising prior to submitting their application for admission. For university policy regarding credit-by-examination, consult "Academic Credit Through Examination" in the "General Regulations" section of this catalog.
- 7. Registered Nurse – Bachelor of Science, Major in Nursing Program.** A registered nurse–Bachelor of Science in nursing program is available for registered nurses with either an Associate Degree in Nursing or a Diploma in Nursing. Students eligible for this option should contact the School of Nursing office for special advising and program planning.
- 8. Formal Application.** Applicants must make an application to the university according to deadlines for impacted programs. In addition, application to the nursing program can be made during the semester that the student is completing prerequisite non-nursing courses (23 units). Application forms may be obtained at the School of Nursing office and on the School of Nursing Web site <http://nursing.sdsu.edu>. Consult the School of Nursing Web site for the deadline date and any updated information.

\* Chemistry 100 is prerequisite to Chemistry 130.

### Special Instructions

- 1. Impacted Program.** The nursing major is designated as an impacted program and specific regulations related to admissions are imposed.
- 2. Full-Time/Part-Time Study.** Students are encouraged to enroll in all of the nursing courses scheduled each semester. However, part-time enrollment can be arranged by contacting the undergraduate adviser within the school.
- 3. Transportation.** Students enrolled in the nursing program are required to provide their own transportation to off-campus clinical agencies and for home visits.
- 4. Honors Program.** The honors program is available to students in the senior level who meet the criteria. Four units of honors courses constitute the honors program and will be validated as such on the official transcript. Less than four units completed will not be validated as "honors," but may be credited as a special studies program.
- 5. Health Insurance.** All admitted School of Nursing students are advised to obtain health insurance coverage. Students are responsible for health care cost when services are rendered by a health care agency.
- 6. CPR Certification.** Students are required to be certified through either the American Heart Association (health care provider) or American Red Cross (Professional Rescue and health care provider). Both are Level C. Certification must be maintained throughout the program.
- 7. Malpractice Insurance.** Malpractice insurance is provided by the CSU at this time. Check Web site for any changes.
- 8.** Upon admission to the nursing program, students are required to have a physical examination and bring proof of the examination and required immunizations to Student Health Services.
- 9. Option Open to L.V.N.'s** for eligibility to the R.N. license examination. THIS OPTION HAS NO RELATION TO DEGREE REQUIREMENTS AND DEGREE COMPLETION.
- 10. Background Check and Drug Screen.** Upon admission to the nursing program, and yearly thereafter, students must successfully pass a background check and drug screen in order to be placed in a clinical rotation. Red flag issues which prevent placement may impede progression and successful completion of degree requirements.

### Course Requirements

	Units
BIOL 211, 211L Fundamentals of Microbiology .....	4
BIOL 261 Human Physiology .....	4
NURS 304 Clinical Pharmacology in Nursing Practice.....	3
NURS 400 Nursing Care of Complex, High Acuity, or Critically Ill Patients .....	3.5

NURS 400L Nursing Care of Complex, High Acuity, or Critically Ill Patients Laboratory .....	2.5
# NURS 410 Gerontological Nursing .....	3
*# NURS 416 Psychiatric-Mental Health Nursing .....	5
NURS 458 Nursing Management and Leadership .....	3
NURS 458L Nursing Management and Leadership Laboratory .....	2
<b>Total</b>	<b>30</b>

\* Includes management/evaluation of patient care.

# Includes geriatric nursing.

## General Education Requirements

Students will complete a minimum of 49 units in General Education to include a minimum of nine upper division units. No more than 12 units may be used for General Education credit from any one department or academic unit.

### I. Communication and Critical Thinking: 9 units

You may **not** use Credit/No Credit grades in this section.

1. Oral Communication: Communication 103 (3 units)
2. Composition (3 units)
3. Intermediate Composition and Critical Thinking (3 units)

### II. Foundations of Learning: 28 units

- A. Natural Sciences and Quantitative Reasoning (10 units)
  1. Physical Sciences (3 units) to be satisfied by:  
Chemistry 102 (5 units) or Chemistry 130\* (3 units)  
(\*Chemistry 100 is prerequisite to Chemistry 130.)
  2. Life Sciences (3 units) to be satisfied by:  
Biology 100 (3 units)
  3. Laboratory (1 unit) to be satisfied by:  
Biology 211L  
or  
Biology 212  
or  
Biology 261
4. Mathematics/Quantitative Reasoning (3 units) to be satisfied by:  
Biology 215 (3 units)  
Economics 201 (3 units)  
Political Science 201 (3 units)  
Psychology 280 (4 units)  
Sociology 201 (3 units)  
Statistics 119 (3 units)  
Statistics 250 (3 units)

You may **not** use Credit/No Credit grades.

- B. Social and Behavioral Sciences (6 units) to be satisfied by:  
Psychology 101 (3 units)  
Sociology 101 (3 units)

- C. Humanities (12 units)

Refer to General Education course offerings in the Graduation Requirements section of the catalog.

**III. American Institutions:** Three units of the six units of coursework which meet the American Institutions graduation requirement may be used in General Education, excluding courses numbered 500 and above.

**IV. Explorations of Human Experience: Courses in this area must not be taken sooner than the semester in which you achieve upper division standing (60 units passed). Upper division courses in the major department may not be used to satisfy General Education.** Nine units to include Psychology 351 and six upper division units in Humanities **OR** three upper division units in Humanities and three upper division units in Social and Behavioral Sciences **OR** three upper division units in Humanities and three

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upper division units in Natural Sciences. Three units must be selected from a course of cultural diversity. Refer to General Education course offerings in the Graduation Requirements section of the catalog.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Nursing Major

**With the B.S. Degree in Applied Arts and Sciences**  
(Major Code: 12031) (SIMS Code: 554603)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

Nursing majors may be part-time students in the curriculum. Consultation with the undergraduate adviser is mandatory.

**Preparation for the Major.** Prerequisite courses needed for admission to the nursing program include: Biology 100, 211, 211L, 212, 261; Chemistry 102 or 130\*; Communication 103; Psychology 101; Sociology 101. (27 units)

Upon acceptance into the program, Nursing 200, 202, 206, 208; three units in statistics selected from General Education requirements in Foundations of Learning II.A., Mathematics/Quantitative Reasoning; and three units in growth and development.

\* Chemistry 100 is prerequisite to Chemistry 130.

**NOTE:** A grade of C (2.0) or better is *required* in all nursing courses. No nursing course may be repeated more than once. A grade of C (2.0) or better or Credit (Cr) is required in prerequisite courses (Psychology 351, growth and development, and statistics).

Child and Family Development 270 or Psychology 230 is required prior to the third semester in the nursing program. Psychology 351 is also required prior to the fourth semester in the nursing program.

Progress in the nursing program is dependent upon completion of nursing courses in the prescribed sequence as outlined above. Students will not be permitted to progress to the next semester until nursing courses are completed from the previous semester.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** Nursing majors (excluding Accelerated Bachelor of Science in Nursing) are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found on the college Web site at <http://www.chhs.sdsu.edu/international>.

**Major.** A minimum of 52 upper division units in nursing to include Nursing 300, 302, 304, 307, 354, 356, 358, 400, 400L, 410, 415, 415L, 416, 458, 458L.

## Registered Nurse – Major in Nursing Program

**With the B.S. Degree in Applied Arts and Sciences**  
(Major Code: 12032) (SIMS Code: 554604)

A Registered Nurse - Bachelor of Science nursing program is available for registered nurses with either an Associate Degree in nursing or a Diploma in nursing. This program gives credit for previous coursework. Students eligible for this option should contact the School of Nursing for special advising and program planning.

**Standards for Admission.** See Standards of Admission for Professional Program in Nursing. All Standards, except # 4, apply.

**Additional Requirements.** The following documents are also required for admission to the RN-BS Program:

1. Copy of current California RN license.
2. Official transcript showing AD Degree or Diploma.
3. Official transcripts from all colleges/universities attended to date.
4. CPR certification – "Healthcare Provider" or "Professional Rescuer" level.

**General Education Requirements.** See General Education Requirements for nursing major.

**International Experience.** Nursing majors (excluding Accelerated Bachelor of Science in Nursing) are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found on the college Web site at <http://www.chhs.sdsu.edu/international>.

**Curriculum Plan.** A total of 120 units are required for the degree. Transfer credit for 27 or more nursing units is granted. Upon admission to the university and the School of Nursing, students will receive 15 units of upper division credit (credit by examination) in lieu of the following courses: NURS 354, Nursing Care of the Childbearing Family; NURS 356, Parent-Child Nursing; NURS 416, Psychiatric-Mental Health Nursing.

### Program

The following upper division nursing courses are required of all RN-BS candidates:

	<i>Units</i>
NURS 307 Nursing Research .....	3
NURS 312 Concepts of Professional Nursing .....	3
NURS 358 Basic Electrocardiography .....	1
NURS 400 Nursing Care of Complex, High Acuity, or Critically Ill Patients .....	3.5*
AND	
NURS 400L Nursing Care of Complex, High Acuity, or Critically Ill Patients Laboratory .....	2.5*
OR	
NURS 499 Special Study .....	3-3
NURS 415 Community Health Nursing .....	3
NURS 415L Community Health Nursing Laboratory .....	2
NURS 458 Nursing Management and Leadership .....	3
NURS 458L Nursing Management and Leadership Laboratory .....	2
NURS 501 Advanced Health Assessment and Health Promotion .....	3
NURS 501L Advanced Health Assessment and Health Promotion Laboratory .....	1

\*NURS 610, Pathophysiology of Adults and Elderly, and a NURS 499 clinical experience may be substituted for NURS 400, 400L with consent of the instructor.

## Accelerated Bachelor of Science in Nursing

With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 12031) (SIMS Code: 554615)

(Offered through the College of Extended Studies)

San Diego State University will not be offering the  
Accelerated Bachelor of Science in Nursing (ABSN).

## School Nurse Services Credential

(Credential Code: 00600)

San Diego State University offers curricula leading to the School Nurse Services Credential. This authorizes the holder to serve as a School Nurse. For information concerning the credential, the student is referred to the School of Nursing office, HT-58, or the School of Nursing Web site.

The School Nurse Services Credential has been approved by the Commission on Teacher Credentialing.

All applicants seeking admission to the School Nurse Services Credential program **must** be admitted to the university and accepted as a classified post-baccalaureate student.

### Standards for Admission

1. Baccalaureate degree in nursing or related field (including community health nursing).
2. Current California Registered Nurse License.
3. Required admission and planning interview with program adviser.
4. Have a minimum cumulative grade point average of 3.0 on a 4.0 scale in undergraduate upper division courses.
5. One year experience as a registered nurse within five years of application.
6. Undergraduate community health nursing course.

### Program

The following program elements are required of all school nurse credential candidates: (31 units)

	<i>Units</i>
NURS 601 Assessment and Health Promotion of Children and Adolescents.....	4
NURS 630 Community Health Nursing Theory .....	3
NURS 631 Community Health Nursing Practicum .....	3
NURS 670 School Nursing Management Practices .....	3
NURS 672 Primary Health Care of the School-Aged Child ...	3
NURS 674 Health Education for School Nurses .....	3
SPED 500 Human Exceptionality .....	3
SPED 526 Characteristics and Education of Students with Physical, Health, and Sensory Impairments ...	3
Electives: Three units to be selected with approval of adviser.	

NURS



## Courses (NURS)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### NURS 200. Informatics for the Nurse (1)

Prerequisite: Admission to nursing major.  
Basics of informatics, electronic health records, ethics and legal aspects. Electronic communication. Database searches.

#### NURS 202. Client Assessment (4)

Two lectures and six hours of laboratory.  
Prerequisites: Admission to nursing program and concurrent registration in Nursing 206.  
Determining and measuring variables relevant to assessment of psychosocial and physical functioning.

#### NURS 206. Fundamentals of Nursing Practice (5)

Three lectures and six hours of laboratory.  
Prerequisites: Admission to nursing program and concurrent registration in Nursing 202.  
Basic nursing skills and integration of diagnosis, planning, and implementation of nursing care. Application of nursing process.

#### NURS 208. Pathophysiology (3)

Prerequisites: Biology 212 and 261.  
Pathophysiologic processes as they apply to nursing care of patients.

#### NURS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### NURS 300. Nursing Care of the Acutely Ill Adult (8)

Three lectures and 15 hours clinical per week.  
Prerequisites: Nursing 200, 202, 206, 208. Concurrent registration in Nursing 304.  
Psychological, social, and biological stressors affecting adult health and appropriate nursing interventions. Not open to students with credit in Nursing 252.

#### NURS 302. Nurse-Client Relationships: Cultural and Mental Health Concepts (3)

Prerequisite: Nursing 206.  
Nurse-client communication and application to clinical nursing practice. Origins of a variety of communication styles. Cultural and mental health concepts related to communication. (Formerly numbered Nursing 254.)

#### NURS 304. Clinical Pharmacology in Nursing Practice (3)

Prerequisites: Nursing 202, 206, 208.  
Major classifications of drugs; pharmacological and toxicological activity; clinical applications. Role of nurse in assessment, intervention, and patient education.

#### NURS 307. Research and Evidence-Based Practice (3)

Prerequisites: Mathematics/Quantitative Reasoning General Education; Nursing 300.  
Nursing research process. Emphasis on identification of researchable questions and beginning critiquing ability.

#### NURS 312. Concepts in Professional Nursing (3)

Prerequisite: Admission to the RN to BS program.  
Concepts in professional nursing. Differentiation of professional practice with emphasis on stress theory, therapeutic communication, values clarification, and legal aspects. Not open to generic students.

#### NURS 350. Women's Health Across the Lifespan (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A. Natural Sciences and Quantitative Reasoning.  
Explores health issues women face across their lives. Focus on developing knowledgeable users of research on causes of and risk factors for health problems. Not applicable to nursing majors.

#### NURS 354. Nursing Care of the Childbearing Family (5)

Two lectures, one hour of discussion, and six hours of laboratory.  
Prerequisites: Nursing 300, 302, 304.  
Family-centered focus encompassing adaptive and maladaptive responses to stressors in the maternity cycle and their effect on the neonate. Clinical laboratory focuses on the application of nursing theory and process in providing preventive, supportive, and restorative care to mothers and neonates.

#### NURS 356. Pediatric Nursing (5)

Two lectures, one hour of discussion, and six hours of laboratory.  
Prerequisites: Nursing 300, 302, 304; Child and Family Development 270 or Psychology 230.  
Stressors affecting the child on health-illness continuum. Nursing theory and laboratory focuses on application of nursing process in providing preventive, supportive and restorative therapeutic modalities in a variety of settings. Emphasis on the child in the family and the necessary intervention to promote adaptation of the child to attain, maintain or regain an optimum level of health.

#### NURS 358. Basic Electrocardiography (1) Cr/NC

Prerequisite: Nursing 300.  
Basic electrophysiological and interpretive concepts necessary for identification and management of supraventricular and ventricular rhythms. (Formerly numbered Nursing 453.)

#### NURS 397. Preparation for Clinical Practice (1) Cr/NC

Two hours per week of supervised practice.  
Prerequisite: Admission to the School of Nursing.  
Supervised practice of nursing skills and techniques. Course is elective for students. Credit earned in this course not applicable to bachelor's degree.

#### NURS 400. Nursing Care of Complex, High Acuity, or Critically Ill Patients (3.5)

Prerequisites: Nursing 410, 415, 415L, 416; concurrent registration in Nursing 400L.  
Theory in care of patients with complex, high acuity, and life-threatening health problems. Not open to students with credit in Nursing 452 or 454.

#### NURS 400L. Nursing Care of Complex, High Acuity, or Critically Ill Patients Laboratory (2.5)

Nine hours of clinical practice.  
Prerequisites: Nursing 410, 415, 415L, 416; concurrent registration in Nursing 400.  
Laboratory experience in care of patients with complex, high acuity, and life-threatening health problems. Not open to students with credit in Nursing 452 or 454.

#### NURS 410. Gerontological Nursing (3)

Two lectures and three hours of laboratory.  
Prerequisites: Nursing 300, 304.  
Theory and selected laboratory experience focusing on stressors affecting elderly on health-illness continuum. Gerontologic nursing in a variety of settings. (Formerly numbered Nursing 314.)

#### NURS 415. Community Health Nursing (3)

Prerequisites: Nursing 307, 354, 356. Nursing 501, 501L for RN-BS students; concurrent registration in Nursing 415L.  
Assessment and utilization of community health care concepts and delivery with emphasis on promotion of health, prevention of illness and individual and group teaching techniques. Consideration given to cultural aspects of health care. Same course as lecture portion of Nursing 414. (Nursing 415 and 415L formerly numbered Nursing 414.)

**NURS 415L. Community Health Nursing Laboratory (2)**

Six hours of laboratory.

Prerequisite: Concurrent registration in Nursing 415.

Laboratory experience in care of clients in the community and nursing of community as client. Same course as laboratory portion of Nursing 414. (Nursing 415 and 415L formerly numbered Nursing 414.)

**NURS 416. Psychiatric-Mental Health Nursing (5)**

Three lectures and six hours of laboratory.

Prerequisites: Nursing 307, 354, 356; Psychology 351.

Theory and clinical laboratory in application of nursing process to care of clients evidencing maladaptive responses to psychosocial stressors. Presentation of theories describing and explaining maladaptive behaviors and application of nursing interventions in a variety of treatment modalities.

**NURS 458. Nursing Management and Leadership (3)**

Prerequisites: Nursing 415, 415L, 416; concurrent registration in Nursing 458L.

Theories and functions of nursing management and leadership within health care system. Economics of health care. Not open to students with credit in Nursing 460.

**NURS 458L. Nursing Management and Leadership Laboratory (2)**

Six hours of laboratory.

Prerequisite: Concurrent registration in Nursing 458.

Laboratory experience in nursing management and leadership.

**NURS 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**NURS 498. Cooperative Education Supervised Practice (2-6) Cr/NC**

Seminar: Two hours biweekly. Clinical hours arranged by student and employer.

Prerequisite: Nursing 300.

Supervised practice in application of previously learned knowledge and skills in selected clinical agencies. Professional interaction with other health care workers to strengthen professional nursing identity. Work under supervision of registered nurse preceptor and faculty coordinator. May be repeated. Maximum credit two units applicable to a bachelor's degree.

**NURS 499. Special Study (1-3)**

Prerequisites: Nursing 300 and consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**

(Also Acceptable for Advanced Degrees)

**NURS 501. Advanced Health Assessment and Health Promotion (3)**

Prerequisites: Consent of School of Nursing Student Service Adviser; concurrent registration in Nursing 501L.

Physical and psychosocial assessment techniques, health promotion strategies for select populations. (Nursing 501 and 501L formerly numbered Nursing 500.)

**NURS 501L. Advanced Health Assessment and Health Promotion Laboratory (1)**

Three hours of laboratory.

Prerequisites: Consent of School of Nursing Student Service Adviser; concurrent registration in Nursing 501.

Laboratory experience in advanced health assessment and health promotion. (Nursing 501 and 501L formerly numbered Nursing 500.)

**NURS 596. Special Topics in Nursing (1-3)**

Prerequisites: Completion of 30 upper division units in nursing or graduate status; 3.0 grade point average.

Selected topics in the practice of nursing. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

Refer to the *Graduate Bulletin*.

NURS

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# Nutrition

In the College of Professional Studies and Fine Arts

**OFFICE: Exercise and Nutritional Sciences 351**

**TELEPHONE: 619-594-5541**

**<http://ens.sdsu.edu>**

Didactic Program in Dietetics is accredited by the Commission on Accreditation for Dietetics Education – American Dietetic Association.

## Faculty

Emeritus: Boggs, Cooke, Dickerson, Gunning, Josephson, Spindler

Director: Harris

Professor: Kern

Associate Professor: Beshgetoor

Assistant Professors: D'Ovidio, Hong

## Offered by the School of Exercise and Nutritional Sciences

Master of Science degree in nutritional sciences.

Master of Science degree in nutritional science and Master of Science degree in exercise physiology (concurrent program).

Major in foods and nutrition with the B.S. degree in applied arts and sciences.

## The Major

The major in foods and nutrition offers a comprehensive multidisciplinary study of the nature and quality of the food supply and the nutritional requirements for health in people. Students take core sequences of coursework in the areas of nutrition, food science, and food management founded on prerequisite courses in chemistry, biology, biochemistry, physiology, accounting, management, and the behavioral and social sciences. Course emphasis in the major is placed upon the composition, properties, quality, and safety of foods and food ingredients; the relationships of metabolism and utilization of nutrients in food by the human body to health and disease states; influences of exercise and fitness; the physiological basis for diet therapy; nutrition problems in the community; and organization, management and operation of food service facilities.

This major is planned for students interested in qualifying professionally for diverse careers in the fields of dietetics, food service management, and food industries. The accredited didactic program in foods and nutrition allows students eligibility for membership in the American Dietetic Association (ADA) and for post-baccalaureate dietetic internships or preprofessional practice programs. Students must be admitted to and complete satisfactorily a post-baccalaureate program and pass the ADA Registration Examination prior to qualifying for registration as dietitians.

Professional careers in dietetics include administrative, therapeutic, teaching, research, and public service positions in hospitals, schools, clinics, and other public and private organizations and institutions. Graduates may also qualify as food science technical specialists within food companies, governmental agencies, and laboratories; as food service managers; and as specialists in advertising, sales, or marketing of foods and nutritional products and services.

## Impacted Program

The foods and nutrition major is an impacted program. To be admitted to the foods and nutrition major, students must meet the following criteria:

- Complete the following courses (or their equivalents): Nutrition 201, 203, 205; Accountancy 201; Biology 100, 100L, 211, 211L; Chemistry 100, 130, 160; Economics 201 (or Statistics 250); Psychology 101; Sociology 101. A grade of C or higher must be earned in Chemistry 100 and 130. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.70 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Foods and Nutrition Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 13061) (SIMS Code: 662931)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Nutrition 201, 203, 205; Accountancy 201; Biology 100, 100L, 211, 211L; Chemistry 100, 130, 160; Economics 201 (or Statistics 250); Psychology 101; Sociology 101. (41 units)

These prerequisite courses may not be taken Cr/NC. A grade of C or higher must be earned in Chemistry 100 and 130.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 40 upper division units to include Nutrition 301, 302, 302L, 303, 304, 404, 405, 406, 408; Biology 336; Exercise and Nutritional Sciences 304; and nine units selected with the approval of adviser from Nutrition 309, 312, 407, 409, 499, 510; Biology 315, 326, 336; Communication 307\*, 371; Counseling and School Psychology 310\*, 320, 400; Management 350\*, 352\*; Nursing 350; Psychology 319\*; Public Health 301\*, 302\*, 303\*, 305\*, 362. Biology 336 will also satisfy three units of the General Education requirement in Explorations of Human Experience I.V.A. Natural Sciences.

\* Additional prerequisites required.

## Courses (NUTR)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### NUTR 101. Professional Issues: Foods and Nutrition (1)

Prerequisite: Rhetoric and Writing Studies 100.

Philosophical basis of foods and nutrition and relations of its specialties to the field as a whole.

#### NUTR 107. Nutrition Today (3)

Obtaining nutritional needs from a varied food supply. Not open to foods and nutrition majors or students with credit in Nutrition 201.

#### NUTR 201. Fundamentals of Nutrition (3)

Prerequisites: Biology 100; Chemistry 100 or 200. **Proof of completion of prerequisites required:** Copy of transcript.

Role of nutrition in health promotion and disease prevention. Current concepts, controversies, and dietary recommendations from a scientific perspective. (Formerly numbered Nutrition 204.)

**NUTR 203. Cultural Aspects of Food and Nutrition (3)**

Prerequisite: Completion of a General Education course in 1) Oral Communication, 2) Composition, or 3) Intermediate Composition and Critical Thinking.

Food habits and health beliefs about foods and nutrition. Regional and ethnic influences.

**NUTR 205. Introduction to Science of Food (5)**

Three lectures and six hours of laboratory.

Prerequisites: Grade of C or better in Chemistry 100 and 130 (or concurrent registration in Chemistry 232). **Proof of completion of prerequisites required:** Copy of transcript.

Composition, preparation, preservation, sensory and consumer evaluation of foods.

**NUTR 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**NUTR 301. Advanced Science of Food (3)**

Prerequisites: Nutrition 205 and Biology 211, 211L. **Proof of completion of prerequisites required:** Copy of transcript.

Physical, chemical, nutritional, and functional properties and quality attributes of foods and food additives; food handling, changes and interactions of food components induced by processing and storage; food laws, regulations, legislation, and food safety issues.

**NUTR 302. Advanced Nutrition (3)**

Prerequisites: Nutrition 201, Biology 336, and one course in biochemistry. Concurrent registration in Nutrition 302L. **Proof of completion of prerequisites required:** Copy of transcript.

Integration of cellular, physiological, and biochemical relationships with human nutrient requirements.

**NUTR 302L. Advanced Nutrition Laboratory (2)**

Six hours of laboratory.

Prerequisites: Nutrition 201, Biology 336, and one course in biochemistry. Concurrent registration in Nutrition 302. **Proof of completion of prerequisites required:** Copy of transcript.

Application and evaluation of techniques used to assess nutritional status, including basic methods, experimental animal and human studies.

**NUTR 303. Quantity Food Production (2)**

Prerequisite: Nutrition 205 or Information and Decision Systems 302.

Quantity food production service delivery systems. Skills for food safety, recipe standardization, menu planning, purchasing, production operations, and quality standards. Intended for majors in foods and nutrition and hospitality and tourism management.

**NUTR 303L. Quantity Food Production (1)**

Three hours of laboratory.

Prerequisites: Nutrition 205 or Information and Decision Systems 302. Concurrent registration in Nutrition 303.

Practical applications of quantity food production systems and methods with emphasis on food safety (HACCP), menu planning, purchasing, facilities and equipment, and food quality. Intended for majors in foods and nutrition and hospitality and tourism management.

**NUTR 304. Nutrition Throughout the Life Span (3)**

Prerequisite: Nutrition 201.

Factors affecting nutrient needs and ways to meet nutrient requirements across the life span. Not open to students with credit in Nutrition 208.

**NUTR 309. Eating Disorders and Weight Control (2)**

Prerequisites: Nutrition 201 and Psychology 101.

Obesity and other eating disorders. Review of etiology, incidence, socioeconomic influences, pathogenesis and treatments. Treatment techniques practiced include modification of diet, activity and behavior. Of interest to those wishing to do weight control counseling.

**NUTR 312. Nutrition for Athletes (3)**

Prerequisite: Nutrition 201.

Influence of exercise on nutritional status and dietary requirements. Current theories and practices related to nutrition and athletic performance. (Formerly numbered Nutrition 202.)

**NUTR 398. Supervised Field Experience (1-3)**

Three hours per week for 15 weeks per unit of course credit.

Prerequisites: Upper division standing; limited to foods and nutrition majors.

Supervised practical experience in areas of food and nutrition. Maximum credit six units.

**NUTR 404. Food Systems Management (3)**

Prerequisite: Nutrition 303.

Managerial functions in food service systems.

**NUTR 405. Experimental Food Science and Technology (3)**

One lecture and six hours of laboratory.

Prerequisite: Nutrition 301. **Proof of completion of prerequisite required:** Copy of transcript.

Application of principles and methods of physical and sensory evaluation and food component analysis to conventional and fabricated foods; effects of additives and ingredient variations; project studies; data interpretation and report writing.

**NUTR 406. Medical Nutrition Therapy I (3)**

Prerequisites: Nutrition 302 and 302L. **Proof of completion of prerequisite required:** Copy of transcript.

Nutrition assessment, diagnosis, pathophysiology, and medical nutrition therapy for chronic diseases.

**NUTR 407. Medical Nutrition Therapy I Laboratory (1)**

Two hours of laboratory.

Prerequisites: Admission to SDSU Didactic Program in Dietetics, Nutrition 302, 302L, and concurrent registration in Nutrition 406.

Required for Didactic Program in Dietetics competencies established by the American Dietetic Association. Builds multi-level skills for dietetic practice to assess nutritional status and to develop care plans for patients.

**NUTR 408. Medical Nutrition Therapy II (3)**

Prerequisite: Nutrition 406.

Concepts and principles of disease pathophysiology, nutrition assessment and medical nutrition therapy for specific diseases and conditions.

**NUTR 409. Medical Nutrition Therapy II Laboratory (1)**

Two hours of laboratory.

Prerequisites: Admission to SDSU Didactic Program in Dietetics, Nutrition 406 and credit or concurrent registration in Nutrition 408.

Advanced practical experience in food service and medical nutrition therapy for future dietitians. (Formerly numbered Nutrition 488.)

**NUTR 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**NUTR 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**NUTR 510. Nutrition and Community Health (3)**

Two lectures and three hours of activity.

Prerequisites: Grade of C or better in Nutrition 302, 302L, Nutrition 203, 304, and consent of instructor.

Nutritional problems in the community with consideration of their resolution. Field placement experience required.

**NUTR 596. Advanced Studies in Nutrition (1-6)**

Prerequisite: Nine upper division units in nutrition.

Advanced study of selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596. No more than six units of 596 may be applied to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

NUTR

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# Oceanography

Administered by the  
Department of Geological Sciences

**OFFICE: Geology/Mathematics/Computer Science 237**  
**TELEPHONE: 619-594-5586**

San Diego State University provides preparation for ocean-oriented careers by offering marine-related coursework and oceanographic experience within regular degree programs in the Departments of Biology, Chemistry and Biochemistry, Economics, Civil, Construction, and Environmental Engineering, Geography, Geological Sciences, Mechanical Engineering, and Physics. Master's degrees with specialization in marine problems may also be earned in these departments. The Ph.D. degree is offered in biology, chemistry, and ecology, jointly with the University of California. Degrees in general oceanography or marine studies are not offered by the university. The Coastal and Marine Institute coordinates work in the area of marine studies and provides special supporting services to the faculty, staff and students, including student advising, assistance in research and publication, operation of the university's marine laboratory at San Diego Bay, and a boat operations program.

Courses in general oceanography are offered by faculty from the Departments of Biology and Geological Sciences. Advanced coursework and research in geological and physical oceanography are conducted in the Geological Sciences Department. An option in marine geology is offered as part of the undergraduate major in geological sciences. Advanced courses and research in biological oceanography, marine biology, marine botany, and marine zoology are conducted in the Department of Biology. Similar marine-related coursework and research are offered in the Departments of Economics and Geography and in the College of Engineering. Students who require advising in these areas should inquire at one of the departments listed above or the Coastal and Marine Institute. (See section of this catalog on Colleges, College of Sciences Research Centers and Institutes.)

## Oceanography Minor

**(Minor Code: 19191) (SIMS Code: 775379)**

Offered for undergraduate science students by the Department of Geological Sciences, the minor in oceanography consists of a minimum of 16 upper division units to include Biology 515 or 517; Geological Sciences 540, 545; and six additional units selected with the approval of the adviser. Additional prerequisite courses are required.

The oceanography minor is intended for students with extensive background in the sciences. Oceanography 320 is not applicable toward the oceanography minor.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (OCEAN)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSE

#### **OCEAN 100. The Ocean Planet (4) [GE]**

Three lectures and three hours of laboratory.

Physical, chemical, geological, and biological foundations of the global ocean system, with emphasis on science as a process and its role in environmental issues from global climate change to local pollution.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### **OCEAN 320. The Oceans (3) [GE]**

Prerequisites: One introductory college course in a life science and one in a physical science, and completion of the General Education requirement in Foundations of Learning II.A., Natural Sciences and Quantitative Reasoning.

Exploration of scientific, socioeconomic, and geopolitical perspectives on human impacts upon global ocean system, to include global ocean warming and acidification, regional fisheries depletion, and local coastal issues.

#### **OCEAN 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **For additional courses in Marine Studies see:**

Biology 305. Scientific Scuba Diving  
Biology 306. Scientific Scuba Diving for Certified Divers  
Biology 515. Marine Invertebrate Biology  
Biology 517. Marine Ecology  
Economics 454. Economics of the Ocean  
Geography 504. Coastal and Submarine Physiography  
Geography 588. Intermediate Remote Sensing of Environment  
Geological Sciences 540. Marine Geology  
Geological Sciences 545. Descriptive Physical Oceanography

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# Persian

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 334  
**TELEPHONE:** 619-594-5268 / **FAX:** 619-594-4877  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Courses in Persian.

Major or minor work in Persian is not offered.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Persian to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Persian 201 or the equivalent level of achievement. The usual sequence of coursework is Persian 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.
2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.
3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (PERS)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Persian will not receive credit for taking lower division courses in Persian except with advance approval from the department.**

**No credit will be given for Persian 101, 102, 201, and 202 taken out of sequence.**

#### PERS 101. Elementary Modern Persian I (4) [GE]

Introduction to modern Persian and Persian writing system. Development of speaking, listening, and reading skills using multimedia materials. Vocabulary for everyday topics and develop culturally appropriate discourse strategies for everyday situations. Not open to students who have completed three years of high school Persian unless the third course was completed five or more years ago. Not open to students with credit in Persian 102, 201, 202, 301, or a higher-numbered Persian course.

#### PERS 102. Elementary Modern Persian II (4) [GE]

Prerequisite: Persian 101 or two years of high school Persian.

Continuation of Persian 101. Development of speaking, listening, and reading skills using multimedia materials. Vocabulary for everyday topics and develop culturally appropriate discourse strategies for everyday situations. Not open to students who have completed four years of high school Persian unless the fourth course was completed five or more years ago. Not open to students with credit in Persian 201, 202, 301, or a higher-numbered Persian course.

#### PERS 201. Intermediate Persian I (4) [GE]

Prerequisite: Persian 102.

Further development of speaking, reading, listening, and writing skills, with emphasis on language of everyday conversation. Integrated approach to learning Persian to include awareness and appreciation of Persian culture. Not open to students who have completed five years of high school Persian unless the fifth course was completed five or more years ago. Not open to students with credit in Persian 202, 301, or a higher-numbered Persian course.

#### PERS 202. Intermediate Persian II (4) [GE]

Prerequisite: Persian 201.

Intermediate level students achieve further proficiency in speaking, listening, reading, and writing; produce language needed for daily routines and work related discourse. Not open to students with credit in Persian 301 or a higher-numbered Persian course.

#### PERS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Persian are taught in Persian unless otherwise stated.**

**No credit will be given for Persian 301 and 302 taken out of sequence.**

#### PERS 301. Advanced Persian I (4) [GE]

Prerequisites: Persian 202 and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Oral expression and writing for practical purposes; exposure to various dialects through newspaper and media; elements of literary and classical language.

#### PERS 302. Advanced Persian II (4) [GE]

Prerequisites: Persian 301 and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Writing complex literary and expository texts. Reading modern and classical texts to include complicated media. Producing, understanding debates and speeches.

#### PERS 496. Topics in Persian Studies (1-4)

Topics in Persian language, literature, culture, and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit eight units. May be taught in English.

PERS

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# Philosophy

In the College of Arts and Letters

**OFFICE: Arts and Letters 446**

**TELEPHONE: 619-594-5263**

**<http://philosophy.sdsu.edu>**

## Faculty

Emeritus: Feenberg, Friedman, Nelson, O'Reilly, Rosenstein, Shields, Snyder, Troxell, Warren, Weissman

Chair: Francescotti

Professors: Corlett, Francescotti, Moellendorf, Weber, Weston

Associate Professors: Atterton, Barbone, Chaffin, Wawrytko, Wheeler

Lecturers: Anderson, Freeman, Penafuerte-Neuner, Reyes, Schlesinger

## Offered by the Department

Master of Arts degree in philosophy.

Major in philosophy with the B.A. degree in liberal arts and sciences.

Minor in philosophy.

## The Major

The philosophy major explores and seeks to understand values and the nature of reality. Through the study of philosophy, questions are asked about existence and experience: What is truth? What is morally right? What kind of life is best? What kind of society? Is there an ultimate reality? Philosophy studies the types of questions that most other subject areas are unable to address fully.

There are three different ways these questions are characteristically investigated in the philosophy major at San Diego State University. They are approached historically, by studying the history of philosophy from the ancient Greeks to the present; analytically, by carefully examining the meanings and interrelationships of ideas; and critically, by training students in the art of evaluating various claims and the arguments for and against them.

While the analytical and critical approach are part of every course in philosophy, the philosophy curriculum at San Diego State University emphasizes the historical approach. The aim is to provide the philosophy major with a thorough grounding in the development of philosophy so that the student is well prepared to participate in the discussion of contemporary issues.

The education of a philosophy major, along with providing the satisfaction of dealing with fundamental issues which have concerned serious thinkers for many centuries, also provides the student with skills that may be used in a variety of careers. Some students begin graduate work after their B.A., either in philosophy, with the expectation of teaching or writing in the field, or in law, education, or other professional programs. Some enter new fields of research, working on computer problems or artificial intelligence. Other students find that the special skills they have developed as philosophy majors - the ability to read complex material with comprehension, to analyze problems, to find relevant sources, to evaluate evidence, to propose solutions and to examine them self-critically, and to report the results of their inquiries with clarity and coherence - are valued by employers in many different fields. Such students may find career opportunities in government, industry, finance, and social services.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Philosophy Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 15091) (SIMS Code: 115301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in philosophy courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Six lower division units in philosophy to include Philosophy 110 or 120. Philosophy 120 is preferred as preparation for Philosophy 521.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in philosophy to include Philosophy 521; at least nine units selected from Philosophy 411, 412, 413, 414; and no more than six units of 300-level courses. During the last semester, all seniors shall submit to the department a portfolio of their scholarly work in philosophy.

## Philosophy Minor

**(SIMS Code: 115301)**

The minor in philosophy consists of 24 units in philosophy: Six lower division units to include Philosophy 110 or 120, and 18 upper division units to include no more than six units of 300-level courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (PHIL)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### PHIL 101. Introduction to Philosophy: Ethics (3) [GE]

Philosophical inquiry, with emphasis on problems of moral value. Students are encouraged to think independently and formulate their own tentative conclusions concerning a variety of vital contemporary issues facing individuals and society.

#### PHIL 102. Introduction to Philosophy: Knowledge and Reality (3) [GE]

Introduction to philosophical inquiry with emphasis on problems of knowledge and reality. Students are encouraged to think independently and formulate their own tentative conclusions.

#### PHIL 103. Historical Introduction to Philosophy (3) [GE]

Introduction to philosophical inquiry through study of the works of major philosophers in their historical contexts.

**PHIL 110. Critical Thinking and Composition (3) [GE]**

Prerequisites: Satisfaction of the English Placement Test and Writing Competency requirements and Africana Studies 120 or American Indian Studies 120 or Chicana or Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100 or Rhetoric and Writing Studies 100 or 101. **Proof of completion of prerequisites required:** Test scores or verification of exemption; grade report or copy of transcript.

Introduction to critical thinking and writing. Evaluation and development of correct reasoning and effective style and organization in argumentative writing. Correct deductive and inductive reasoning. Fallacies. Critical appraisal of evidence. Construction of rebuttals and counter-arguments.

**PHIL 120. Introduction to Logic (3) [GE]**

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Introduction to deductive and inductive logic. Logic and language. Analysis of fallacies. Uses of logic in science and in daily life.

**PHIL 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**PHIL 305. Classics of Western Philosophy (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Analysis of major texts selected from diverse historical periods in western philosophy. Texts will illustrate different world views (e.g., Platonism, Stoicism, Skepticism) and their relationship to other disciplines and to present world views.

**PHIL 310. Philosophy and Human Nature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Concept of human nature. Descriptive and normative aspects of major theories of human nature.

**PHIL 329. Social Ethics (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Ethical issues of contemporary life. Individualism vs. collectivism; democracy vs. dictatorship; ethical problems arising in law, medicine, business, government and interpersonal relationships.

**PHIL 330. Medical Ethics (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Value judgments upon which medicine is based and the ethical issues which medicine faces.

**PHIL 332. Environmental Ethics (3) [GE]**

Prerequisite: Completion of General Education requirement in Foundations of Learning II.C., Humanities.

Development of traditional values concerning the natural environment. Reasons for altering values in light of modern changes in relationship of human beings to the environment. Application of ethical principles to actions affecting the environment.

**PHIL 334. Philosophy and Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Study of literature of philosophical significance and of philosophical problems of literature.

**PHIL 340. Morality of War and Peace (3) [GE]**

Prerequisite: Completion of General Education requirement in Foundations of Learning II.C., Humanities.

Historical and contemporary arguments regarding morality of war, pacifism, and terrorism, with contemporary applications.

**PHIL 351. Chinese Philosophy (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Philosophical traditions which have shaped the intellectual life and culture of China. Emphasis on foundational texts surviving from pre-Han China.

**PHIL 353. Buddhist Philosophy (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Intellectual traditions within Buddhism, both ancient and contemporary, including key areas of metaphysics, epistemology, and axiology.

**PHIL 375. Symposium in Philosophy (3)**

Prerequisite: Three units in philosophy.

Different philosophers from different areas in philosophy (e.g. metaphysics, ethics, aesthetics) present series of 13 to 15 lectures on one particular issue (e.g. Darwinism, free will, war and peace). May be repeated with new content. Maximum credit six units.

**PHIL 411. Ancient Western Philosophy (3)**

Prerequisite: Three units in philosophy.

Ancient western philosophy through the third century A.D.

**PHIL 412. Medieval Philosophy (3)**

Prerequisite: Three units in philosophy.

European, Arabic, and Jewish philosophies from the fourth to the fifteenth centuries.

**PHIL 413. Renaissance and Early Modern Philosophy (3)**

Prerequisite: Three units in philosophy.

European philosophy from the sixteenth to eighteenth centuries.

**PHIL 414. Nineteenth Century European Philosophy (3)**

Prerequisite: Three units in philosophy.

European philosophy in the nineteenth century.

**PHIL 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**PHIL 499. Special Study (1-3)**

Prerequisites: Six upper division units in philosophy and prior arrangements with a supervising instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**PHIL 506. Twentieth Century Continental Philosophy (3)**

Prerequisite: Six upper division units in philosophy.

Major figures and movements in European philosophy from Husserl to the present.

**PHIL 507. Twentieth Century Anglo-American Philosophy (3)**

Prerequisite: Six upper division units in philosophy.

Major movements, issues, or figures of twentieth century Anglo-American philosophy. Course may be repeated with new content. Maximum credit six units.

**PHIL 508. Existentialism (3)**

Prerequisite: Six units in philosophy.

The philosophical aspects of existentialism. Major emphasis is on the diversity of thought within a common approach as this is shown in individual thinkers.

**PHIL 510. Philosophy of Law (3)**

Prerequisites: Three units from Philosophy 101, 102, or 103; and three units from philosophy or political science.

Philosophical and ethical investigation into nature of law, rights, liberty, responsibility, and punishment.

PHIL



**PHIL 512. Political Philosophy (3)**

Prerequisites: Philosophy 101, 102 or 103.

Selected aspects of the political structures within which we live, such as law, power, sovereignty, justice, liberty, welfare.

**PHIL 521. Deductive Logic (3)**

Prerequisite: Philosophy 110 or 120. Recommended: Philosophy 120.

Principles of inference for symbolic deductive systems; connectives, quantifiers, relations and sets. Interpretations of deductive systems in mathematics, science and ordinary language. Not open to students with credit in Mathematics 523.

**PHIL 523. Theory of Knowledge (3)**

Prerequisite: Six units in philosophy.

Philosophical analysis of knowledge, including conceptions of belief, justification, and truth.

**PHIL 525. Metaphysics (3)**

Prerequisite: Six units in philosophy.

Prominent theories of reality, e.g., realism and nominalism, materialism and idealism, teleology and determinism.

**PHIL 528. Theory of Ethics (3)**

Prerequisite: Six units in philosophy.

Advanced topics in ethical theory, including normative ethics and meta-ethics. May include historical or contemporary readings or both. Issues may include content of moral value, nature of moral judgment, and accounts of virtue and right action.

**PHIL 531. Philosophy of Language (3)**

Prerequisite: Six units in philosophy.

An introduction to theories of meaning for natural languages and formal systems; concepts of truth, synonymy and analyticity; related epistemological and ontological problems.

**PHIL 532. Philosophy of History (3)**

Prerequisite: Six units in philosophy.

Accounts of historical development, historical change, and nature of historical explanation.

**PHIL 535. Philosophy of Religion (3)**

Prerequisite: Six units in philosophy.

Philosophical examination of issues raised by the religious impulse in man.

**PHIL 536. Philosophy of Mind (3)**

Prerequisite: Three upper division units in philosophy.

Prominent theories and arguments regarding relation between mind and body. Varieties of dualism considered along with major materialist rivals.

**PHIL 537. Philosophy of Science (3)**

Prerequisite: Six units in philosophy.

The basic concepts and methods underlying contemporary scientific thought. Contributions of the special sciences to a view of the universe as a whole.

**PHIL 541. History of Aesthetics (3)**

Prerequisites: Philosophy 101, 102 or 103.

Major documents in the history of aesthetics.

**PHIL 542. Philosophy of Art (3)**

Prerequisite: Six units in philosophy.

The nature of aesthetic experience. Principal contemporary theories of art in relation to actual artistic production and to the function of art in society.

**PHIL 543. Philosophy and Literary Theory (3)**

Prerequisites: Three upper division units in philosophy and three upper division units in literature.

Relations between philosophy and literary discourse. Strategies of interpretation offered by major contemporary thinkers.

**PHIL 565. Asian Philosophies (3)**

Prerequisite: Philosophy 351 or Philosophy 353.

Dimensions of Asian philosophies, past and present. Encounter between Buddhism and post-modern science, contemporary Asian philosophers ("global gurus") and their impact on non-Asian cultures, enigmatic notion of emptiness (sunya, wu). See *Class Schedule* for specific topic. May be repeated with new content. Maximum credit six units.

**PHIL 575. A Major Philosopher (3)**

Prerequisite: Six upper division units in philosophy.

The writings of one major philosopher. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units applicable to the major. Maximum credit six units applicable to a master's degree.

**PHIL 596. Selected Topics (3)**

Prerequisite: Six upper division units in philosophy.

A critical analysis of a major problem or movement in philosophy. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of nine units of 596 applicable to the major in philosophy. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**PHIL 599. Special Study (1-3)**

Prerequisites: Upper division or graduate standing and consent of instructor.

Directed individual study in philosophy on a theme or topic chosen in consultation with the instructor. Maximum credit six units. Maximum combined credit six units of Philosophy 599 and 798 applicable to the M.A. degree in Philosophy.

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**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Physics

## In the College of Sciences

### OFFICE: Physics 131

**TELEPHONE: 619-594-6240 / FAX: 619-594-5485**

**E-MAIL: [physdept@sciences.sdsu.edu](mailto:physdept@sciences.sdsu.edu)**

**<http://www.physics.sdsu.edu>**

### Faculty

Emeritus: Burnett, Cottrell, Day, Feher, Lilly, Nichols, Oseroff, Piserchio, Rehfuess, Roeder, S., Shackelford, Shore, Smith, Teasdale, Templin, Wallace, Wolter

Chair: Sinha

Professors: Davis, Goldberg, Johnson, Morris, Papin, Sweedler, Torikachvili, Weber

Associate Professors: Anderson, Baljon, Bromley

Lecturers: DiMauro, Nelson, Roeder, P.

Adjunct: Bendall, Jani, Mueller

### Offered by the Department

Master of Arts degree in physics.

Master of Science degree in physics.

Master of Science degree in radiological health physics.

Major in physics with the B.A. degree in liberal arts and sciences.

Major in physics with the B.S. degree in applied arts and sciences.

Major in chemical physics with the B.S. degree in applied arts and sciences.

Teaching major in physical science for the single subject teaching credential in science/physical science.

Minor in physics.

## The Major

The study of physics is considered the foundation of modern science. It has fascinated the finest minds of every age – from Newton to Maxwell, Einstein, Bohr, Schroedinger, Oppenheimer and Schwinger. The study of this diverse field encompasses such areas as optics, electricity, magnetism, the properties of the solid state, atomic structure, nuclear structure, motion, relativity, space and time. Physics also plays a significant role in chemistry, biology, astronomy, and geology, and in the applied sciences of engineering and technology.

Students who become physics majors will be selecting a rewarding and vital career. The great burst of activity during the last 20 years has instilled a new excitement in physics. For example, the invention of the laser in the late 1950s revolutionized the field of optics. These advances stimulated whole new areas in physics applications. Superconductivity has led to the search for a high-temperature superconductor so that electrical power might be transmitted without loss; quantum mechanical tunneling has led to the tunnel diode; and solid state physics brought about the transistor and its successors.

The career opportunities for physics graduates are as diverse as the field itself. They include research and development; management or administration in industrial laboratories or government agencies; technical sales; electronic design; laser instrument research; and secondary teaching.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Physics Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 19021) (SIMS Code: 777702)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans for

each student are filed with both the physics undergraduate adviser and the Office of Advising and Evaluations. No more than 48 units in physics courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200; Mathematics 150, 151, 252. (29 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include Physics 311, 317, 350, 354, 357, 360, 400A-400B, 410; Mathematics 342A, 342B.

## Physics Major

**With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 19021)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans for each student are filed with both the physics undergraduate adviser and the Office of Advising and Evaluations.

A minor is not required with this major.

### Basic Requirements for all Students

**Preparation for the Major.** Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200; Mathematics 150, 151, 252. (29 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 45 upper division units to include Physics 311, 317, 350, 354, 357, 360, 400A-400B, 410, 498A, 498B; Mathematics 342A, 342B. In addition, the student must complete the requirements for either one of the following areas:

#### (a) General Physics (SIMS Code: 777701)

Nine units of elective coursework in physics or related areas. Electives must be approved by the Physics department undergraduate adviser.

#### (b) Modern Optics (SIMS Code: 777728)

*Required:* Physics 406, 552, 553.

*Recommended:* Physics 516, 532, 554.

## Chemical Physics Major

**With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 19081) (SIMS Code: 772801)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." Individual master plans for each student are filed with the physics and chemistry undergraduate advisers and the Office of Advising and Evaluations.

A minor is not required with this major.

PHYS

**Preparation for the Major.** Physics 195, 195L, 196, 196L, 197, 197L; Chemistry 200, 201, 232, 232L, 251; Mathematics 150, 151, 252. (43 units)

Recommended: A course in computer programming.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Physics 311, 350, 400A, 410; Chemistry 410A-410B, 417, 550; Mathematics 342A, 342B; three units selected from Physics 357, 360, 400B, Chemistry 432, 432L, 457, 510, Physics 538 or Chemistry 538; and Research Project: Chemistry 497 (3 units) or Chemistry 498 (3 units) or Physics 498A and 498B (3 units).

## Physical Science Major

**In preparation for the Single Subject Teaching Credential in Science/Physical Science**

**With the B.A. Degree in Applied Arts and Sciences**

**(Major Code: 19011) (SIMS Code: 777303)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of the catalog on "Graduation Requirements." Candidates may complete one of their two American Institutions courses at the upper division level or satisfy the California state and local government portion of American Institutions by passing the California Government examination available through the Student Testing, Assessment and Research Office.

A minor is not required for this major.

**Preparation for the Major.** Africana Studies 140 or Chicana and Chicano Studies 111A or Communication 103; Astronomy 109, 201; Biology 203, 203L, 204, 204L; Chemistry 200, 201; Mathematics 150, 151, 252; Physics 195, 195L, 196, 196L, 197, 197L; Teacher Education 211 (1 unit). (50 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 31 upper division units to include Geological Sciences 412; Mathematics 342A; Natural Science 315; Physics 311, 317, 350, 354, 357, 360, 400A.

## Additional Requirements for Subject Matter Preparation Certification

**Satisfactory Grades.** At most one course with a C- or lower among the courses listed under Preparation for the Major, and at most one course with a C- or lower among the courses listed under the Major. If a course is repeated, the highest grade will count.

**Formative Assessment.** Completion of a satisfactory, preliminary portfolio two semesters prior to graduation. Contact the subject matter preparation adviser for information.

**Summative Assessment.** Completion of a satisfactory, final portfolio and a positive recommendation from the instructor of Physics 357.

## Physics Minor

**(Minor Code: 19021) (SIMS Code: 777701)**

The following courses are prerequisites to the physics minor and do not count toward the 15 units required for the minor. Physics 195, 195L, 196, 196L, 197, 197L; Mathematics 150, 151, 252.

The minor in physics consists of a minimum of 15 units to include Physics 350, 354, 360, 400A; Mathematics 342A.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (PHYS)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**NOTE: Maximum credit 12 units for any combination of Physics 107, 180A-180B, 182A-182B, 195, 195L, 196, 196L, 197, 197L.**

#### PHYS 107. Introductory Physics with Laboratory (4) [GE]

Three lectures and three hours of laboratory.

How physics concepts describe everyday events, and frontier phenomena. Classical mechanics, thermodynamics, electromagnetism, and selected topics from atomic, relativistic, and radioactivity physics. Not open to students with credit in Physics 180A or 195.

#### PHYS 149. Special Study (1-2) Cr/Nc

Prerequisite: Consent of supervising instructor.

Individual study and laboratory work in area of student's major interest. Students will be assigned a member of the staff who will supervise their work. Maximum credit two units.

#### PHYS 180A-180B. Fundamentals of Physics (3-3)

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and qualification on the Mathematics Departmental Placement Examination, Part IA.

Recommended: For Physics 180A, concurrent registration in Physics 182A; for Physics 180B, concurrent registration in Physics 182B.

Semester I: Mechanics, wave motion, sound, and fluids. Semester II: Electricity, magnetism, optics, and modern physics. Presented in a two-semester algebra/trigonometry based sequence. Physics 180A not open to students with credit in Physics 195. Physics 180B not open to students with credit in Physics 196. Biological sciences majors must complete entire sequence of Physics 180A-180B or Physics 195, 196, 197.

#### PHYS 182A-182B. Physical Measurements (1-1)

Three hours of laboratory.

Prerequisite for 182A: Credit or concurrent registration in Physics 180A.

Prerequisite for 182B: Credit or concurrent registration in Physics 180B.

A laboratory course to accompany Physics 180A-180B. Semester I: Properties of matter, mechanics, sound, and wave motion. Semester II: Electricity, DC circuits, oscilloscope measurement techniques, electric and magnetic fields, and optics. 182A: Not open to students with credit in Physics 195L. 182B: Not open to students with credit in Physics 196L.

#### PHYS 195. Principles of Physics (3)

Prerequisites: High school physics or Physics 107. Mathematics 150.

Fundamental principles of physics in areas of mechanics and oscillatory motion. Designed for students requiring calculus-based physics.

#### PHYS 195L. Principles of Physics Laboratory (1)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Physics 195.

Experiments in mechanics, wave motion, resonance phenomena using precision air tracks. Not open to students with credit in Physics 182A.

#### PHYS 196. Principles of Physics (3)

Prerequisites: Physics 195 and Mathematics 151.

Fundamental principles of physics in areas of electricity and magnetism. Designed for students requiring calculus-based physics.

#### PHYS 196L. Principles of Physics Laboratory (1)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Physics 196.

Experiments in DC circuits, AC circuits, electrical resonance, oscilloscope measurement techniques, and electric and magnetic fields. Not open to students with credit in Physics 182B.

**PHYS 197. Principles of Physics (3)**

Prerequisite: Physics 196.

Fundamental principles of physics in areas of wave motion, sound, electromagnetic waves, optics, relativity, and modern physics. Designed for students requiring calculus-based physics.

**PHYS 197L. Principles of Physics Laboratory (1)**

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Physics 197.

Experiments in optics, lasers, holography, and nuclear counting.

**PHYS 242. Application of Mathematics to Physics (3)**

Prerequisites: Mathematics 151, Physics 195, 196 with a minimum grade of C or better. Credit or concurrent registration in Mathematics 252.

Mathematical concepts needed to understand language of physics. Applications to physics problems in areas of mechanics, electromagnetism, and modern physics.

**PHYS 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**PHYS 311. Electronics for Scientists (4)**

Three lectures and three hours of laboratory.

Prerequisites: Physics 180B and 182B, or 196 and 196L.

AC and DC circuits, diodes, transistors, conventional and operational amplifiers, analog to digital conversion, pulse and digital electronics. Introduce science majors to modern electronic devices and their utilization in scientific instrumentation.

**PHYS 317. Introduction to Computational Physics (2)**

Six hours of laboratory.

Prerequisites: Physics 197 and Mathematics 342A.

Numerical methods applied to a variety of physics topics. Use of computers to solve and plot problems involving differential equations, matrices, root finding, numerical integration.

**PHYS 333. Physics Perspectives (3)**

Prerequisite: Physics 180B or 197.

Theoretical physics emphasizing basic themes cutting across separate traditional subject divisions. Visualize three-dimensional vector fields, forces and torques. Balance between derivations, conceptual understanding, numerical problem-solving, estimations, and proportional reasoning.

**PHYS 350. Classical Mechanics (3)**

Prerequisites: Physics 195 with a minimum grade of C and Physics 197. Credit or concurrent registration in Mathematics 342A.

Newtonian mechanics, gravitation, small oscillations, collisions, motion of rigid bodies, Lagrangian mechanics.

**PHYS 354. Modern Physics (3)**

Prerequisites: Physics 197 with a minimum grade of C. Credit or concurrent registration in Mathematics 342A.

Special theory of relativity. Particle properties of electromagnetic radiation, and wave properties of particles. Introduction to quantum theory with applications to atomic structure.

**PHYS 357. Advanced Physical Measurements (3)**

One lecture and six hours of laboratory.

Prerequisites: Physics 311, 354 and Chemistry 200.

Stresses both laboratory experiments and techniques of data and error analysis. Experiments are taken from major areas of physics.

**PHYS 360. Thermal Physics (3)**

Prerequisites: Physics 350, Mathematics 342A, Physics 354 or Chemistry 410A.

Classical thermodynamics and statistical mechanics. Applications of equilibrium thermodynamics. Statistical mechanics, including concepts from probability and statistics. Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Applications of statistical mechanics in calculating macroscopic properties of simple systems.

**PHYS 400A-400B. Classical Electromagnetism (3-3)**

Prerequisites for Physics 400A: Physics 196 with a minimum grade of C; Physics 197 and Mathematics 342A. Physics 400A is prerequisite to Physics 400B.

Electrostatics, magnetostatics, electromagnetic induction, Maxwell's equations, radiation and wave propagation.

**PHYS 406. Optics (3)**

Prerequisites: Physics 197, 197L, Mathematics 342B.

Reflection, refraction, matrix methods, dispersion, polarization, double refraction, interference, diffraction, Fourier optics, coherence theory, lasers, and holography with applications to optical instruments, wave propagation, and the nature of light.

**PHYS 410. Quantum Mechanics (3)**

Prerequisites: Physics 350, Mathematics 342B, Physics 354 or Chemistry 410A.

Mathematical and physical foundations of quantum theory in terms of wave and matrix mechanics. Applications to properties of atoms and solids.

**PHYS 496. Selected Topics in Physics (1-4)**

Prerequisite: Consent of instructor.

Selected topics in classical and modern physics. May be repeated with consent of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**PHYS 498A. Senior Research (1) Cr/NC**

One discussion period and two additional hours per week to be arranged.

Prerequisites: Physics 357 and consent of instructor.

Selection and design of individual research project. Oral and written progress reports.

**PHYS 498B. Senior Research (2)**

Two discussion periods and four additional hours per week to be arranged.

Prerequisite: Physics 498A.

Laboratory work, progress reports, oral and written final reports.

**PHYS 499. Special Study (1-3)**

Individual study or laboratory work on a special problem in physics selected by the student. Each student will be assigned a member of the staff who will supervise his/her work. Credit, hours and topics to be arranged in each case. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**PHYS 516. Theory of Scientific Instrumentation (3)**

Prerequisites: Physics 311, Mathematics 342B.

Fourier analysis with applications to scientific instrumentation, spectroscopy, and image processing; Z transforms and digital filtering; detection systems and their optimization of the signal-to-noise ratio.

**PHYS 532. Condensed Matter Physics (3)**

Prerequisite: Credit or concurrent registration in Physics 410.

Elastic, thermal, electric, magnetic and optical properties of solids. Introduction to the energy band theory of solids, with applications to semiconductors and metals.

**PHYS 533. Experimental Techniques in Condensed Matter Physics (3)**

One lecture and six hours of laboratory.

Prerequisites: Physics 357 and credit or concurrent registration in Physics 532.

Experiments in various fields of condensed matter such as x-ray diffraction, Hall effect, superconductivity, and electron paramagnetic resonance.

**PHYS 534. Colloquium in Condensed Matter Physics (1) Cr/NC**

Prerequisite: Credit or concurrent registration in Physics 532.

Student and faculty research project presentations. Maximum credit three units.

PHYS

**PHYS 538. Polymer Science (3)**  
**(Same course as Chemistry 538)**

Prerequisites: Chemistry 200 or 202; and Chemistry 410B or Physics 360 or Mechanical Engineering 350 or 352.

Structure, synthesis, physical properties, and utilities of polymers.

**PHYS 552. Modern Optics and Lasers (3)**

Prerequisites: Physics 406 with minimum grade of C; credit or concurrent registration in Physics 400B.

Electromagnetic theory, matrix methods of optics, propagation of Gaussian beams, optical resonators, interaction of radiation and atomic systems, theory of laser oscillation, nonlinear optics, specific laser systems, optical detectors, applications of lasers in physics.

**PHYS 553. Modern Optics Laboratory (3)**

One lecture and six hours of laboratory.

Prerequisites: Physics 357 with minimum grade of C; Physics 406 with minimum grade of C; credit or concurrent registration in Physics 552.

Experiments in various fields of modern optics such as holography, physics of lasers, Fourier transform spectroscopy, Raman spectroscopy, light modulation techniques, fiber optics, spatial filtering, diffraction grating spectroscopy, radiometry, and nonlinear optics.

**PHYS 554. Colloquium in Optics Research (1) Cr/NC**

Prerequisites: Concurrent registration in Physics 498A or 498B or 797 and consent of instructor.

Student and faculty research project presentations. Maximum credit three units.

**PHYS 560. Radiological Physics and Dosimetry (3)**

Prerequisite: Credit or concurrent registration in Physics 354.

Ionizing radiation fields, interactions of radiation with matter, cavity theory, external radiation dosimetry.

**PHYS 561. Nuclear Instrumentation (3)**

One lecture and six hours of laboratory.

Prerequisites: Physics 311 and 560.

Radiation detection, measurement, and spectroscopy. Ionization chambers, GM and proportional counters, scintillation and semiconductor detectors, and thermoluminescent dosimetry.

**PHYS 564. Nuclear Physics (3)**

Prerequisite: Credit or concurrent registration in Physics 410.

Nuclear and elementary particle phenomena including nuclear structure, decay, and radioactivity. Nuclear reactions and devices. Experimental methods and applications.

**PHYS 570. Relativity (3)**

Prerequisites: Physics 354 and 400B.

Relative coordinates, Lorentz transformation, covariant formulation of the laws of physics, applications of special relativity, introduction to curved space time, cosmology.

**PHYS 580. Computational Physics (3)**

Prerequisites: Physics 354; Computer Engineering 160 or Computer Science 106; and credit or concurrent registration in Physics 400A.

Computer programming for numerical solution of problems in classical mechanics, electromagnetism, optics, and quantum mechanics. Use of Fortran and C programming languages and the UNIX operating system. Incorporation of standard subroutines for linear algebra and differential equations into student written programs.

**PHYS 596. Special Topics in Physics (1-4)**

Prerequisite: Consent of instructor.

Selected topics in classical and modern physics. May be repeated with the consent of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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**GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Policy Studies in Language and Cross-Cultural Education

In the College of Education

**OFFICE: Education and Business Administration 248**

**TELEPHONE: 619-594-5155 / FAX: 619-594-1183**

Accredited by the California Commission on Teacher Credentialing.

## Faculty

Emeritus: Jones, Kuhlman, Ochoa, Pacheco

Chair: Cadiero-Kaplan

Professors: Espinosa, Rodriguez

Associate Professors: Alfaro, Cadiero-Kaplan

Assistant Professor: Billings

Lecturers: Sanz, Sparaco

## Offered by the Department

Master of Arts degree in education.

Multiple subject bilingual teaching credential.

Single subject bilingual teaching credential.

Bilingual multiple subject and special education credential  
(refer to the *Graduate Bulletin*).

Fifth year program for clear multiple or single subject credential.

Academic literacy development for English language learners  
certificate (refer to the *Graduate Bulletin*).

Dual language biliteracy certificate (refer to the *Graduate Bulletin*).

## The Major

The Policy Studies Department offers programs leading toward the Bilingual Cross-Cultural Language and Academic Development (BCLAD) credential for single and multiple subject (secondary and elementary).

With the passage of Proposition 227, requiring all students in public schools be taught in English unless a school has received a waiver, the Policy Studies Department and the College of Education remains committed to the training of teachers for the BCLAD credentials. The BCLAD credential remains as the most desirable credential in California. Furthermore, the university is committed with developing leaders in cultural, economic, educational, scientific, social, and technical fields, as well as addressing the linguistic diversity of school communities. The university is primarily responsive to the people of California, as well as to the needs of the regional, national, and international communities it serves.

## Multiple Subject Bilingual (BCLAD) Teaching Credential (Elementary Education): Spanish Emphasis

**(Credential Code: 00200)**

The Multiple Subject Bilingual (Spanish) Teaching Credential (Elementary Education) is available to students interested in teaching in a bilingual credential elementary school classroom. This credential authorizes the holder to teach in any self-contained bilingual or regular classroom in which one teacher is responsible for all the subjects commonly taught in the elementary schools. Because courses on methods of teaching subject areas are taught in Spanish as well as English, candidates must pass the Spanish Language Proficiency and Cultural Awareness Examination given by the department.

Candidates who will pursue this credential need to specify “**Multiple Subject Instruction-BCLAD**” in the application for graduate admission to SDSU (Code: 00200). Students applying for admission should electronically submit the university application available at <http://www.csumentor.edu> along with the \$55 application fee.

All applicants must submit admissions materials separately to SDSU Graduate Admissions and to the Policy Studies in Language and Cross-Cultural Education Department.

## Graduate Admissions

The following materials should be submitted as a complete package directly to:

Graduate Admissions  
Enrollment Services  
San Diego State University  
San Diego, CA 92182-7416

- (1) Official transcripts (in sealed envelopes) from all postsecondary institutions attended;

Note:

- Students who attended SDSU need only submit transcripts for work completed since last attendance.
- Students with international coursework must submit both the official transcript and proof of degree. If documents are in a language other than English, they must be accompanied by a certified English translation.

- (2) TOEFL score, if medium of instruction was in a language other than English (<http://www.ets.org>, SDSU institution code 4682).

## Policy Studies in Language and Cross-Cultural Education Department

The following materials should be mailed or delivered to:

Policy Studies in Language and Cross-Cultural  
Education Department  
San Diego State University  
San Diego, CA 92182-1152

- (1) Complete department application (available at the department Web site);
- (2) Copy of scores for CBEST/Spanish Proficiency Examination/ CSET;
- (3) TB test results;
- (4) Three letters of recommendation, one of which must be from an elementary teacher if multiple subject or from a secondary teacher if single subject;
- (5) Verification of early field experience (30 hours for multiple subject);
- (6) Certificate of clearance (live scan);
- (7) CPR that includes infant/child/adult;
- (8) A written three pages (1-1/2 each) of essays on goals and philosophy in education and an autobiography;
- (9) \$25 application processing fee;
- (10) Entrance interview will be conducted by one or more PLC faculty members.

PLC

## Standards for Admission

1. **CBEST.** Students must pass the California Basic Educational Skills Test prior to admission to the B/CLAD credential program. This examination is required by the Commission on Teacher Credentialing. Booklets containing registration forms and test information are available at <http://www.cbest.nesinc.com>.
2. **Subject Matter Competency.** Students must verify completion of subject matter competency in diversified subjects commonly taught in self-contained classrooms prior to admission to the Multiple Subject Credential Program. To be admitted to the BCLAD multiple subject credential program, a candidate shall have achieved a passing score on the California Subject Examination for Teachers (CSET) that is required for the credential sought. Registration information and materials for the CSET are available at <http://www.cset.nesinc.com>.

- 3. Prerequisite Courses.** The following courses must be completed with a grade of "C" or better prior to admission to the program, but may be in progress at the time of application or taken in the term immediately prior to the program start date.

**Liberal Studies Majors.**

PLC 515	Theories and Practices in Multilingual Education .....	3 units
ED 451	Introduction to Multicultural Education .....	3 units
HHS 280 or		
TE 296	Health Education for Teachers.....	1 unit
SPED 450	Classroom Adaptations for Special Populations.....	2 units

**Non-Liberal Studies Majors (must take the above and below prerequisites).**

LING 420*	Linguistics and English.....	3 units
or 520	Fundamentals of Linguistics.....	3 units
LING 452*	Language Acquisition.....	3 units
MATH 210**	Number Systems in Elementary Education....	3 units

\*Linguistics 420 and 452 are requirements for the Liberal Studies major. Department may waive linguistics courses for non-Liberal Studies majors, see Policy Studies adviser.

\*\*With approval of the mathematics adviser, any of the following mathematics courses may be substituted for Mathematics 210: Mathematics 121, 150, 312.

- 4. Grade Point Average.** Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates' majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Policy Studies in Language and Cross-Cultural Education Department (PLC), EBA-248. Candidates are required to submit two sets of official transcripts from all colleges and universities attended and unofficial SDSU transcripts for GPA calculations.

- 5. Letter of Recommendation.** Two professional references and one letter of recommendation must be submitted attesting to the applicants following characteristics: (a) attitude, aptitude and ability to teach children; (b) personality and character; (c) academic ability. At least one letter should be from an elementary school teacher the student has worked with and the others may be from faculty and administrators.

- 6. Tuberculin Clearance.** Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMOs, or public health agencies.

- 7. Early Field Experience.** Applicants must provide evidence of a minimum of 30 hours of experience with students in typical elementary classroom settings within the last three years. Evidence must be documented.

- 8. Oral English and Written Statement of Professional Goals and Philosophy.** Have an interview with the admissions and retention committee of the PLC Department.

- 9. California Certificate of Clearance.** This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. Candidates must submit the application directly to the California Commission on Teacher Credentialing. A copy of the application must be provided to the PLC Department.

- 10. Credential Advising Appointment.** Each applicant must meet with a faculty adviser to plan an appropriate program, which includes a minimum of 31 units as defined by the California Commission on Teacher Credentialing. Make appointment in EBA-248, telephone 619-594-5155.

- 11. Language and Culture Examination.** All candidates must take and meet the minimum PLC Department Spanish Language Proficiency and Cultural Awareness Examination prior to entering the credential program. Please call 619-594-1160.

- 12. Reading Instruction Competence Assessment (RICA).** California Education Code Section 44283 requires that candidates for the preliminary or clear credential multiple subject pass this RICA requirement. The purpose of this assessment is to ensure that the candidate possess the knowledge and skills important for the provision of effective reading instruction to students. The RICA requirement applies to candidates who did not complete all credential requirements prior to October 1, 1998. Candidates must have passed the RICA in order to be able to file for the credential.

- 13. Appeals Process.** Candidates who do not meet all the admission requirements may petition the PLC Department Admissions and Retention Committee for individual consideration; petition letters must be submitted concurrently with the application packets.

- 14. Application.** Applicants should complete application procedures the semester prior to beginning the credential program. Call the department for Policy Studies application deadline.

In addition to the minimum admissions standards identified above, the PLC Department Admissions and Retention Committee may also consider qualifications such as previous teaching experience and relevant working experience with children. Due to the number of applicants, application to the program does not ensure admission.

**Multiple Subject Bilingual Program**

	Units
PLC 902 Professional Portfolio II (Cr/NC) .....	1
PLC 910 Teaching Mathematics to Bilingual Elementary Students .....	3
PLC 911 Teaching Social Studies to Bilingual Elementary Students .....	3
PLC 912 Teaching Science to Bilingual Elementary Students .....	3
PLC 915A Teaching and Learning in the Content Area: English Language Development/SDAIE: Multiple Subjects .....	3
PLC 923 Psychological Foundations of Education and Bilingual Students .....	3
PLC 931 Skills in Teaching Reading to Bilingual Elementary Students .....	3
PLC 932 Teaching Spanish Language Arts to Bilingual Elementary Students .....	3
PLC 960 Student Teaching Seminar for Bilingual Elementary Students .....	6
PLC 961 Student Teaching for Bilingual Elementary Students .....	8
PLC 962 Student Teaching for Elementary Bilingual Students II .....	8
ED 970 Teaching Event Assessment (Cr/NC).....	3
EDTEC 470 Technologies for Teaching .....	3

**Preliminary Credential Requirements**

1. A bachelor's degree (or higher) with any major other than education.
2. Completion of an approved program of professional education. (See Department of Policy Studies in Language and Cross-Cultural Education for further information.)
3. Passage of Multiple Subject/CSET.
4. Passage of the Spanish Language Proficiency and Cultural Awareness Examination.
5. Demonstrated knowledge of principles and provisions of United States Constitution through successful completion of three-unit college level course or examination. Courses are listed in *General Catalog* section on "Graduation Requirements," IV. American Institutions Requirement.
6. Passage of California Basic Educational Skills Test (CBEST).
7. Passage of Reading Instruction Competence Assessment (RICA) Test.
8. Completion of an approved fifth year program (a minimum of 30 upper division or graduate-level post-baccalaureate units).

9. Demonstrated knowledge of the needs of and methods of providing educational opportunities to individuals with exceptional needs: Special Education 450.
10. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): Educational Technology 470.
11. Knowledge of health education in California, including substance abuse and nutrition: Health and Human Services 280 or Teacher Education 296 – Health Education for Teachers (1 unit) and verification of CPR competency.
12. Successful completion of the Performance Assessment for California Teachers (PACT).

**NOTE:** Undergraduate students in their final semester prior to obtaining a baccalaureate degree may sign up for concurrent post-baccalaureate credit as explained in the section of this catalog on “General Regulations.”

According to SB 2042 legislation, teachers will be able to earn Professional Clear Credentials upon successful completion of induction programs sponsored by their employers and approved by the California Commission on Teacher Credentialing.

## Single Subject Bilingual (BCLAD) Teaching Credential (Secondary Education): Spanish Emphasis (Credential Code: 00100)

The Single Subject Bilingual (Spanish) Teaching Credential (Secondary Education) is available for students interested in teaching in a bilingual credential secondary school classroom. This credential authorizes the holder to teach in any self-contained bilingual or regular classroom in which one teacher is responsible for teaching the given subject area.

Candidates who will pursue this credential need to specify “**Single Subject Instruction–BCLAD**” in the application for graduate admission to SDSU (Code: 00100). Students applying for admission should electronically submit the university application available at <http://www.csumentor.edu> along with the \$55 application fee.

All applicants must submit admissions materials separately to SDSU Graduate Admissions and to the Policy Studies in Language and Cross-Cultural Education Department.

### Graduate Admissions

The following materials should be submitted as a complete package directly to:

Graduate Admissions  
Enrollment Services  
San Diego State University  
San Diego, CA 92182-7416

- (1) Official transcripts (in sealed envelopes) from all postsecondary institutions attended;  
Note:
  - Students who attended SDSU need only submit transcripts for work completed since last attendance.
  - Students with international coursework must submit both the official transcript and proof of degree. If documents are in a language other than English, they must be accompanied by a certified English translation.
- (2) TOEFL score, if medium of instruction was in a language other than English (<http://www.ets.org>, SDSU institution code 4682).

## Policy Studies in Language and Cross-Cultural Education Department

The following materials should be mailed or delivered to:  
Policy Studies in Language and Cross-Cultural  
Education Department  
San Diego State University  
San Diego, CA 92182-1152

- (1) Complete department application (available at the department Web site);
- (2) California Subject Examination for Teachers (CSET) scores or adviser recommendation;
- (3) California Basic Educational Skills Test (CBEST) scores;
- (4) Spanish Language Proficiency Examination;
- (5) TB verification;
- (6) Three letters of recommendation, one of which must be from an elementary teacher if multiple subject or from a secondary teacher if single subject;
- (7) Verification of early field experience (45 hours for single subject);
- (8) Certificate of clearance (live scan);
- (9) CPR that includes infant/child/adult;
- (10) A written three pages (1-1/2 each) of essays on goals and philosophy in education and an autobiography;
- (11) \$25 application processing fee;
- (12) Entrance interview will be conducted by one or more PLC faculty members.

### Standards for Admission

1. **CBEST.** Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Single Subject Bilingual Emphasis credential program. Candidates are urged to take this examination as early as possible. This examination is required by the California Commission on Teacher Credentialing. Booklets containing registration forms and test information are available at <http://www.cbtest.nesinc.com>.
2. **Subject Matter Competency.** Students must verify competency in a specified single subject area through a university assessment process which consists of reviewing coursework for completion of an approved teaching major or its equivalent at San Diego State University or another approved California teacher-training institution or through California Subject Examinations for Teachers (CSET). Competency will be assessed and verified by subject matter departments at SDSU. Requirements for the various single subject majors are listed with the academic majors in the *General Catalog*. Test scores submitted for verification of subject matter competency are valid for five years from the date of the examination. Information and registration materials are available at <http://www.cset.nesinc.com>.
3. **Prerequisite Courses:**

PLC 515	Theories and Practices in Multilingual Education .....	3 units
ED 451	Introduction to Multicultural Education .....	3 units
HHS 280 or		
TE 296	Health Education for Teachers .....	1 unit
SPED 450	Classroom Adaptations for Special Populations .....	2 units
4. **Grade Point Average.** Candidates must have cumulative grade point averages (GPAs) within the upper one-half of undergraduate students in the candidates' majors. GPAs vary according to discipline and graduating institution. GPA requirements are available in the Policy Studies in Language and Cross-Cultural Education Department (PLC), EBA-248. Candidates are required to submit two sets of official transcripts from all colleges and universities attended and unofficial SDSU transcripts for GPA calculations.

PLC



5. **Letter of Recommendation.** Two professional references and one letter of recommendation must be submitted attesting to the applicant's following characteristics: (a) attitude, aptitude and ability to teach children; (b) personality and character; (c) academic ability. Letter of recommendation should be from a school teacher with whom the student has worked and the others may be from faculty and administrators.
6. **Tuberculin Clearance.** Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMOs, or public health agencies.
7. **Early Field Experience.** Applicants must provide evidence of a minimum of 45 hours of experience with adolescent students in typical classroom settings within the three years. Evidence must be documented.
8. **Oral English and Written Statement of Professional Goals and Philosophy.** Have an interview with the admissions and retention committee of the PLC Department.
9. **California Certificate of Clearance.** This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. Candidates must submit the application directly to the California Commission on Teacher Credentialing. A copy of the application must be provided to the PLC Department.
10. **Credential Advising Appointment.** Each applicant must meet with a faculty adviser to plan an appropriate program, which includes a minimum of 31 units as defined by the Commission on Teacher Credentialing. Appointments can be made in EBA-248, telephone 619-594-5155.
11. **Language and Culture Examination.** All candidates must take and meet the minimum Spanish Language Proficiency and Cultural Awareness Examination prior to entering the credential program. Please call 619-594-1160.
12. **Appeals Process.** Candidates who do not meet all the admission requirements may petition the PLC Department Admissions and Retention Committee for individual consideration; petition letters must be submitted concurrently with the application packets.
13. **Application.** Applicants should complete application procedures the semester prior to beginning the credential program. Call the department for PLC application deadline.

In addition to the minimum admissions standards identified above, the PLC Department Admissions and Retention Committee may also consider qualifications such as previous teaching experience and relevant working experience with children. Due to the number of applicants, application to the program does not ensure admission.

#### **Single Subject Bilingual Program**

Prerequisites		Units
ED 451	Introduction to Multicultural Education.....	3
PLC 515	Theories and Practices in Multilingual Education .....	3
HHS 280 or		
TE 296	Health Education for Teachers .....	1
SPED 450	Classroom Adaptations for Special Populations.....	2
<b>First Semester</b>		
PLC 400	The Secondary School and Bilingual Education .....	3
PLC 924	Behavioral and Psychological Aspects of Teaching in the Bilingual Classroom .....	3
PLC 933	Skills in Teaching Reading to Bilingual Secondary Students.....	3
PLC 953	Language Development in Bilingual Secondary Classrooms .....	3

PLC 954	Humanistic and Social Aspects of Teaching in the Bilingual Classroom .....	3
PLC 963	Student Teaching for Bilingual Secondary Students I .....	4
TE 914	Teaching and Learning in the Content Area: Major .....	3

#### **Second Semester**

PLC 903	Bilingual Secondary Student Teaching Seminar ....	4
PLC 915B	Teaching and Learning in the Content Area: English Language Development/Specially Designed Academic Instruction.....	3
PLC 964	Student Teaching for Bilingual Secondary Students II .....	9-12
ED 970	Teaching Event Assessment (Cr/NC) .....	3
EDTEC 470	Technologies for Teaching .....	3

#### **Preliminary Credential Requirements**

1. A bachelor's degree with one of the approved single subject majors listed in the School of Teacher Education single subject teaching credential catalog section. Credentials can be granted only in the designated single subject credential areas.
2. Completion of an approved program of professional education. (See Department of Policy Studies in Language and Cross-Cultural Education for further information about the approved programs.)
3. MAJOR ADVISER'S RECOMMENDATION. Passage of subject matter examination(s) or waiver thereof through completion of one of the approved single subject credential majors with a written recommendation from the Ryan major adviser.

Candidates applying for the Single Subject Credential program after August 31, 1995 who have not satisfied subject matter competency through coursework or PRAXIS examination(s), must take and pass a new set of examinations for the Single Subject Credential in seven areas: biology<sup>#</sup>, chemistry<sup>#</sup>, English language arts, geoscience<sup>#</sup>, mathematics, physics<sup>#</sup>, and social science. Candidates for the science authorizations (noted with #) must also take and pass a general science examination. Candidates should check with the Policy Studies in Language and Cross-Cultural Education Department (PLC), EBA-248, to clarify the appropriate means for satisfaction of the subject matter competency requirement.

4. Passage of the Spanish Language Proficiency and Cultural Awareness Examination.
5. Demonstrated knowledge of principles and provisions of United States Constitution through successful completion of three-unit college level course or examination. Courses are listed in *General Catalog* section on "Graduation Requirements," IV. American Institutions Requirement.
6. Passage of California Basic Educational Skills Test (CBEST).
7. Completion of an approved fifth year program (a minimum of 30 upper division or graduate-level postbaccalaureate units).
8. Demonstrate knowledge of the needs of and methods of providing educational opportunities to individuals with exceptional needs: Special Education 450.
9. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): Educational Technology 470.
10. Knowledge of health education in California, including substance abuse and nutrition, Health and Human Services 280 or Teacher Education 296 and verification of current CPR competency.
11. Successful completion of the Performance Assessment for California Teachers (PACT).

**NOTE:** Undergraduate students in their final semester prior to obtaining a baccalaureate degree may sign up for concurrent post-baccalaureate credit as explained in this catalog.

#### **Fifth Year Program for Clear Multiple or Single Subject Credential**

Refer to Teacher Education in this section of the catalog.

## **Courses (PLC)**

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### **UPPER DIVISION COURSES (Intended for Undergraduates)**

#### **PLC 400. The Secondary School and Bilingual Education (3)**

Prerequisite: Upper division standing.

Bilingual education at the secondary levels, including roles, curricular models, organization, and legal justification. Must demonstrate bilingual competencies before conclusion of course and admission to program. Taught in Spanish.

#### **PLC 415. Fieldwork in Bilingual Community Context (3)**

Two lectures and two hours of activity.

Prerequisite: Upper division standing.

Analysis of culturally and linguistically diverse school communities. Participation in bilingual classrooms/schools in preparation for entering BCLAD credential program.

#### **PLC 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### **PLC 499. Special Study (1-3)**

Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

#### **PLC 515. Theories and Practices in Multilingual Education (3)**

Theoretical, legal, and historical context for multilingual education; policies and practices in bilingual programs; school and community profiles. Fieldwork required. Some sections taught in Spanish.

#### **PLC 553. Language Assessment and Evaluation in Multicultural Settings (3)**

Theories and methods of assessment and evaluation of diverse student populations including authentic and traditional models. Procedures for identification, placement, and monitoring of linguistically diverse students. Theories, models, and methods for program evaluation, achievement, and decision making.

#### **PLC 596. Special Topics in Bilingual and Multicultural Education (1-3)**

Prerequisite: Consent of instructor.

Selected topics in bilingual, cross-cultural education and policy studies. May be repeated with new content. See *Class Schedule* for specific content. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### **GRADUATE COURSES Refer to the *Graduate Bulletin*.**

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# Political Science

In the College of Arts and Letters

**OFFICE: Nasatir Hall 103**

**TELEPHONE: 619-594-6244 / FAX: 619-594-7302**

## Faculty

Emeritus: Andrain, Fairlie, Feierabend, Gripp, Heck, Hobbs, Hofstetter, Janssen, Johns, Kahng, Keiser, Lewin, Little, Loveman, Miles, Schultze, Soule, Strand, Terrell

Chair: King

Professors: Alexseev, Carruthers, Guang, Gupta, King

Associate Professors: Abdel-Nour, Adams, Graubart, Kennedy, McCall, Maher, Schreiber

Assistant Professors: Branch, Kuru, Saccarelli, Varadarajan

Lecturers: Bee, Binder, Epps, Gastelum, Ingram, Mercurio, Samstad, Smith, Speckmann, Stoddard, Sullivan

## Offered by the Department

Master of Arts degree in political science.

Major in political science with the B.A. degree in liberal arts and sciences.

Minor in political science.

## The Major

Political science is the study of governments. Its concerns, however, are not limited to formal governmental institutions such as the executive and legislative branches or the justice systems. Political science is also interested in other organizations and activities which are part of the process of government, including political parties, interest groups, and the press.

Students who become political science majors will learn about who creates the rules by which people are governed, the attitude and behavior of leaders and members of the public which cause certain decisions to be made, and how these decisions affect such values as liberty, equality, welfare, and justice. Political science is concerned with contemporary public affairs, problems in other political systems and contemporary international politics, as well as with historical growth, evolution, and decline of various types of governments.

The many career opportunities which might be available to political science graduates include teaching at the secondary level; positions with the federal government in areas such as intelligence, foreign affairs, environmental protection, and budget and computer administration; positions with state and local governments, including administrative aide for a city manager, staff assistant for a county supervisor, and assistant to the registrar of voters; administrative positions on the staffs of national, state, and local legislators; claims adjuster or claims representative; statistical technician; marketing researcher; lobbyist for a business or trade organization; political reporter; and title office trainee.

## Impacted Program

The political science major is an impacted program. To be admitted to the political science major, students must meet the following criteria:

- Complete with a grade of C or higher: Political Science 101, 102 (or 320), 103, 201 (one of the following equivalent courses can be taken in place of Political Science 201: Economics 201, Psychology 280, Sociology 201, Statistics 119 or 250, or logic course Philosophy 120). These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser in order to declare or change the major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Political Science Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22071) (SIMS Code: 115501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." A total of 40 upper division units must be taken, of which 27 must be selected as described in the major. No more than 48 units in political science courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Political Science 101, 102, 103, and three units of either statistics or logic (Political Science 201; Economics 201; Psychology 280; Sociology 201; Statistics 119, 250; Philosophy 120). (12 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or History 450W, or Linguistics 305W, or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** The department encourages international experience for its majors. It will facilitate the transfer of political science credits for appropriate study abroad, student exchange, or other overseas programs. International internships may also receive political science credit, if approved in advance by a department adviser.

**Major.** A minimum of 27 upper division units to include (a) 24 upper division units in political science (students are permitted to take up to six units selected from Africana Studies 321, 322, American Indian Studies 485, Women's Studies 375), provided that at least three units are taken in each field; and (b) a three unit capstone requirement, fulfilled by Political Science 495, 497, 498, or any 500-level political science course excluding Political Science 515 and 516.

**Field I. Political Theory:** Political Science 301A-301B, 302, 305, 406, 507, 510.

**Field II. American Politics:** Political Science 321, 322, 331, 333, 334, 335, 336, 338, 346, 347A-347B, 348, 422, 425, 426, 428, 430, 435, 436, 530, 531, 533, 535, 541.

**Field III. Comparative Politics:** Political Science 356, 357, 359, 361, 362, 363, 364, 366, 370, 555, 560, 562, 564, 565, 566, 567, 568.

**Field IV. International Politics:** Political Science 375, 380, 393, 478, 479, 482, 485, 575, 577.

## Political Science Minor

(SIMS Code: 115501)

The minor in political science consists of a minimum of 21 units in political science to include Political Science 101, 102, and 103. Twelve of the 21 units must be in upper division courses and at least nine of these units must be selected from one of the following subject matter areas (a or b or c) as listed in the major.

- Political Theory (Field I)
- American Politics (Field II)
- Comparative Politics and International Politics (Fields III and IV)

**International Experience.** The department encourages international experience for students in the political science minor. It will facilitate the transfer of political science credits for appropriate study abroad, student exchange, or other overseas programs. International internships may also receive political science credit, if approved in advance by a department adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (POL S)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### POL S 101. Introduction to American Politics in Global Perspective (3) [AI]

Politics and basic political concepts as applied to the American political system. American political system as a constitutional democracy viewed in comparative perspective and within context of the global system. When taken with Political Science 102 will satisfy graduation requirement in American Institutions.

#### POL S 102. Introduction to American and California Government and Politics (3) [AI]

Political processes and institutions in the United States and California. Considers a variety of public policy issues such as environmental quality, health, education, relation between government and business, taxation, and foreign affairs as reflected in the dynamics of national and state politics. When taken with Political Science 101 will satisfy graduation requirement in American Institutions. Credit will not be allowed for both Political Science 102 and 320.

#### POL S 103. Introduction to Comparative Politics (3) [GE]

Analytical models and techniques for examination of problems of decision making and control in various political systems. Emphasis on patterns of political action in various cultural contexts.

#### POL S 201. Elementary Statistics for Political Science (3) [GE]

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement; course in intermediate algebra; Political Science 101 and 102.

Quantitative methods in political science. Tabular and graphic presentation, measures of central tendency, simple correlation and sampling techniques. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Political Science 201; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Psychology 280; Sociology 201; Statistics 119, 250.

#### POL S 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### Field I: Political Theory

#### UPPER DIVISION COURSES (Intended for Undergraduates)

#### POL S 301A-301B. History of Western Political Thought (3-3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Development of political ideas from the Golden Age of Greece until the French Revolution. Relevance of theory to a critical understanding of concrete political and social problems involving power, freedom, equality, justice and action. Political Science 301A emphasizes Plato, Aristotle, Augustine, Aquinas, and Marsilius of Padua. Political Science 301B stresses major political theorists such as Machiavelli, Hobbes, Locke, and Rousseau.

#### POL S 302. Modern Political Thought (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Major writers of political thought in the last two centuries, including Burke, J.S. Mill, Freud, Marx, Weber and Sartre. The following topics may be covered: conservatism, liberalism, utilitarianism, socialism, fascism, positivism and existentialism.

#### POL S 305. American Political Thought (3) [AI]

Origin and development of American political ideas from colonial times to the present. Meets the graduation requirement in the United States Constitution. When taken with Political Science 320, 321 or 422, will also satisfy graduation requirements in American Institutions.

#### POL S 406. Democracy and Mass Society (3)

Origin and development of theories of democracy and application of democratic ideas to contemporary political life.

#### UPPER DIVISION COURSES (Intended for Senior and Graduate Students) (Also Acceptable for Advanced Degrees)

#### POL S 507. Marx and Marxism (3)

Prerequisite: Three units in political theory.

Marxism as an important tradition in political theory and with its history as a political movement. Theoretical and political debates in development of Marxism.

#### POL S 510. Contemporary Political Thought (3)

Prerequisite: Political Science 301B or 302 or 305 or 406.

Contemporary political questions and theoretical attempts to address them. Debates about justice, citizenship, and multiculturalism; as well as controversies over nature and scope of politics. (Formerly numbered Political Science 410.)

### Field II: American Politics

#### UPPER DIVISION COURSES (Intended for Undergraduates)

#### POL S 321. State Politics (3) [AI]

Politics and policy making at the state and local levels, relations among national, state, and local governments. Emphasis on California problems and politics. Meets the graduation requirement in California government. When taken with Political Science 305 or 320, will also satisfy graduation requirements in American Institutions.

#### POL S 322. Politics and Conflict (3)

Prerequisite: Political Science 102.

Nature of interpersonal, group, and societal conflict and mechanisms that can facilitate conflict resolution and bargained agreement.

#### POL S 331. American Indian Political Experience (3)

(Same course as American Indian Studies 331)

Prerequisite: Political Science 102 or American Indian Studies 110.

Social and political responses to dominant group policies by American Indian as compared to other minority groups.

POL S

### **POL S 333. Politics of Race and Ethnicity (3)**

Prerequisite: Political Science 102.

Complexity of identity politics, addressing issues as discrimination, integration, immigration, and fair political representation.

### **POL S 334. Politics of the Environment (3)**

Analysis of political process as it shapes environmental policy in a world characterized by finite resources. Emphasis on expanding national and international claims made upon these resources. May include a substantial amount of material about foreign political systems.

### **POL S 335. Public Policy (3)**

Prerequisites: Political Science 101 and 102.

Theory and practice of process of formulating public policy; roles of administrators, legislators, courts, interest groups, and political parties; public agencies and public interest; case studies in formulating public policies. May include a substantial amount of material about foreign political systems.

### **POL S 336. Women's Issues in the American Political Process (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

American politics and public policy debates around women participating in politics, including support of and restrictions to feminism, legal strategies, and new understandings of public and private issues.

### **POL S 338. The Legislative Process (3)**

Detailed analysis of legislatures. Special attention devoted to impact of dynamic factors on formal procedures. May include a substantial amount of material about foreign political systems.

### **POL S 346. Law and the Political System (3)**

Forces influencing the making of law; relationship between social and legal change; nature and limits of the judicial function.

### **POL S 347A-347B. American Constitutional Law (3-3)**

Substantive principles of American constitutional law. Rights and liberties protected by the Constitution against action of federal and state governments. May include problems of judicial review, federal system, separation of powers, nature of selected congressional-presidential powers. Satisfies graduation requirement in United States Constitution. (Formerly numbered Political Science 547A-547B.)

### **POL S 348. The Supreme Court and Contemporary Issues (3)**

Recent decisions of the Supreme Court of the United States and their relationship to contemporary political and social issues. Not open to students with credit in both Political Science 347A and 347B.

### **POL S 422. Urban Politics (3) [AI]**

Prerequisite: Political Science 101 or 102.

The processes by which social conflicts in American urban areas are represented and regulated. Urban political culture; ecology; group development and activity; power structures; and reform movements are surveyed. The character of the urban political "problem" and proposed solutions are evaluated. Meets graduation requirement in California state and local government. When taken with Political Science 305 or 320, will also satisfy all requirements in American Institutions.

### **POL S 425. Political Behavior (3)**

Prerequisite: Political Science 102.

Social and attitudinal variables in political behavior. Quantitative research data as used in electoral studies. May include a substantial amount of material about foreign political systems.

### **POL S 426. Political Communication (3)**

Communication as a political process; the effects of political communication on individuals and groups. May include a substantial amount of material about foreign political systems.

### **POL S 428. Campaigns and Elections (3)**

Prerequisite: Political Science 102.

Campaigns and elections are essential to proper functioning of democracy. Theories concerning decision-making processes of individual voters, actors who seek to influence electoral outcomes, and the strategies used by organized political campaigns in attempt to affect voting behavior.

### **POL S 430. Immigration and Border Politics (3)**

(Same course as Latin American Studies 430)

Prerequisite: Completion of the American Institutions requirement.

U.S. immigration and border politics within a global and historical perspective. Transformations of sovereignty, communities, identity, and rights within an era of mass migration and economic interdependence. Policy and popular debates about admission, border control, and the incorporation of migrants.

### **POL S 435. Power and Poverty in the United States (3)**

Prerequisites: Political Science 101 and 102.

Impact of government upon income inequality and poverty in the United States. Examines programs of U.S. welfare state in comparative perspective and their successes and failures. Minimum standards for distributional justice and inquiries into obligations we have toward our fellow citizens.

### **POL S 436. The American Presidency (3)**

Prerequisites: Political Science 101 and 102.

Analysis of principal institutions, functions and problems of the presidency and federal executive branch. Attention given to presidential leadership, staffing, executive-legislative relations and policy formation.

## **UPPER DIVISION COURSES (Intended for Senior and Graduate Students) (Also Acceptable for Advanced Degrees)**

### **POL S 530. Political Parties (3)**

Prerequisite: Political Science 102 or 320.

The political party as a part of the process of government; party organization and activities; nominating and campaign methods; theories and functions of the party system; party responsibility. The functioning of political parties in the American political system. May include a substantial amount of material about foreign political systems.

### **POL S 531. Interest Groups and Political Movements (3)**

Prerequisite: Political Science 101 or 102.

Pressure group activity, lobbies, mass movements; factors which explain origins and motivations of group behavior; votes, money, information, protest as political resources; theories of pluralism, power elite and mass society; class and ethnic politics. May include a substantial amount of material about foreign political systems.

### **POL S 533. Democracy in America (3)**

Prerequisite: Political Science 102 or 320.

Quality and quantity of democratic experience in contemporary America. Construction of American regime, arrangement of power within that regime, expansion and contraction of citizen participation, and principles that Americans generally espouse.

### **POL S 535. Gender and Politics (3)**

Prerequisites: Political Science 101 and 102.

How gender matters in understanding key political science concepts including democracy, public/private participation and representation. Women involved in political institutions as elected officials, activists, and policy makers from U.S. and comparative perspectives.

### **POL S 541. Special Problems in Public Law (3)**

Prerequisite: Three units selected from Political Science 346, 347A, 347B, or 348.

Issues of contemporary relevance in field of public law, examining legal, moral, and political implications. (Formerly numbered Political Science 454.)

## **Field III: Comparative Politics**

## **UPPER DIVISION COURSES (Intended for Undergraduates)**

### **POL S 356. Governments of Continental Europe (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

The political systems of countries of western continental Europe.

### **POL S 357. Politics of England (3)**

The structure and functioning of the English parliamentary system with emphasis on present-day political principles and parties.

**POL S 359. Government and Politics of Russia and the Commonwealth (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Contemporary developments in Russia and states of former Soviet Union. Focus on Gorbachev era and post-Gorbachev transformations of political, economic, and social systems.

**POL S 361. Governments and Politics of the Developing Areas (3) [GE]**

Prerequisites: Political Science 101 or 103; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Internal political systems, governmental structures and the foreign policies of developing nations.

**POL S 362. Governments and Politics of East Asia (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

The internal political structure and foreign policies of China, Japan, and Korea.

**POL S 363. Governments and Politics of the Middle East (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

The governmental and political structures of representative states in the Middle East including Turkey, Israel, and the Arab states.

**POL S 364. Political Change in Modern Africa (3)**

Dynamics of social and political change in modern Africa.

**POL S 366. Latin American Politics (3)  
(Same course as Latin American Studies 366)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Introduction to Latin American politics. Knowledge of political change and political systems in Latin America, viewed historically and comparatively, using concepts and theories applicable to more general political analysis.

**POL S 370. Political Violence (3) [GE]**

Prerequisites: Political Science 101, 102 or 103; and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for non-majors.

Underlying conditions, expressions, and consequences of violence within political systems.

**UPPER DIVISION COURSES  
(Intended for Senior and Graduate Students)  
(Also Acceptable for Advanced Degrees)**

**POL S 555. Comparative Political Systems (3)**

Prerequisite: Political Science 103.

An examination of selected political and governmental systems for purposes of comparative study and analysis to determine similarities, differences and general patterns and universals among political systems.

**POL S 560. Comparative Public Policy (3)**

Prerequisite: Political Science 103 or 335.

How political, social, and economic forces shape public policy in selected countries. Focus on policies related to minority and immigrant populations, environment, or poverty.

**POL S 562. Religion and Politics in Comparative Perspective (3)**

Prerequisite: Political Science 103.

Various types of relationships between contemporary states and religious institutions. Concepts and theories on religion and politics. Cases of state-religion interaction.

**POL S 564. Environmental Politics in Global Perspective (3)**

Prerequisite: Upper division or graduate standing.

Comparative examination of environmental politics and policy in major world regions. Considers environmental politics with related policy challenges of economic growth, equity, and social justice. Course content varies with regional focus.

**POL S 565. Nations and Nationalism (3)**

Prerequisite: Upper division or graduate standing.

Debates surrounding origins, meaning and future of nationalism, and its most common embodiment, the nation-state form. Theoretical analyses of phenomenon and empirical case studies. (Formerly numbered Political Science 408, 468.)

**POL S 566. Political Change in Latin America (3)**

Prerequisite: Political Science 101 or 103.

General pattern of politics and political development in Latin America with an emphasis on those features which condition domestic and foreign policy making.

**POL S 567. Political Systems of Latin America (3)**

Prerequisite: Political Science 566.

Domestic and international politics of selected Latin American states.

**POL S 568. Mexican Politics (3)**

Prerequisite: Political Science 101 or 103.

Principal factors in Mexican governmental decision making. Ideology, political groups, tactics of leaders and governmental structure.

**Field IV: International Politics**

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**POL S 375. International Relations (3)**

Dynamics of conflict and cooperation among national, international and transnational actors; contributing political, economic, and social factors.

**POL S 380. Human Rights in a Global Perspective (3)**

Historical development of international human rights standards and global, political, moral, and legal debates concerning when and how to implement human rights standards.

**POL S 393. Institute on World Affairs (3)**

Weekly lectures by visiting experts on contemporary international relations. Speakers may include scholars, diplomats, government officials, journalists, military officers and international business executives.

**POL S 478. Conduct of American Foreign Relations (3)**

Institutional arrangements by which American foreign policy decisions are formulated and implemented. Issues confronted by American foreign policy decision makers.

**POL S 479. National Security Policy (3)**

Objectives, instruments, and consequences of national security policy.

**POL S 482. International Relations of the Latin American States (3)**

Foreign policies of Latin American states; the Organization of American States; relationships with the United Nations and the United States.

**POL S 485. Politics of Globalization (3)**

Prerequisite: Political Science 103 or six units of political science.

Ideas and practice of globalization since end of World War II, focusing on political debate around contemporary changes in trade, production, and global social relations, and on impact of globalization on political institutions such as state, civil society, social movements, and democracy.

POL S

**UPPER DIVISION COURSES**  
**(Intended for Senior and Graduate Students)**  
**(Also Acceptable for Advanced Degrees)**

**POL S 575. International Relations of the Pacific Rim (3)**

Prerequisite: Political Science 362 or 375.

Dynamics of conflict and cooperation among nations of the Pacific Rim. Stress on political and economics factors that shape interstate relations.

**POL S 577. Principles of International Law (3)**

The function of law in the international community. The historical development of the ideas and rules of international law and their place in the modern diplomatic and legal structure.

**Elective Courses**

**UPPER DIVISION COURSES**  
**(Intended for Undergraduates)**

**POL S 320. American Institutions (3) [AI]**

The principles of the Constitution of the United States of America, and a survey of the political and social institutions which have developed under the Constitution. Meets the graduation requirement in the United States Constitution and California state and local government. When taken with Political Science 305, 321 or 422, will also satisfy graduation requirements in American Institutions. Credit will not be allowed for both Political Science 102 and 320.

**POL S 495. Internship in Local Politics (3)**

Prerequisites: Limited to senior political science majors; three upper division units within Field II.

Seniors in the major choose internships within San Diego County in government agencies, offices of elected officials, or others approved by instructor. Requires 80 hours of fieldwork and periodic analytical essays.

**POL S 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content and used for field-specific credits for the major as approved by the department. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**POL S 497. Senior Thesis (3)**

Prerequisite: Limited to senior political science majors with a cumulative 3.0 in upper division political science courses.

Senior thesis. Analysis of special topics.

**POL S 498. Internship in National Politics (12)**

Prerequisite: Consent of instructor.

Students will be assigned to political agencies in Washington, D.C., such as congressional staffs, interest groups, executive agencies, legal/judicial offices and political party committees. For information on internship opportunities, especially state politics, refer to the internship section on the department Web site. Maximum credit six units applicable to the major in political science; maximum credit three units applicable to the minor in political science.

**POL S 499. Special Study (1-3)**

Prerequisites: Twelve upper division units in political science and consent of the instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
**(Also Acceptable for Advanced Degrees)**

**POL S 515. Research Design and Analysis in Political Science (3)**

Prerequisite: Political Science 201.

Does not fulfill undergraduate capstone major requirement. Modeling and design of formal research projects. Theoretical underpinnings and logic of social science analysis. Issues in measurement and scaling. Introduction to testing, including elementary statistical analysis of behavioral data.

**POL S 516. Statistics for Political Scientists (3)**

Prerequisite: Political Science 201.

Does not fulfill undergraduate capstone major requirement. Basic concepts, theories, and methods that are utilized by political and other social scientists using statistics and microcomputers. Intermediate level introduction to statistical methods in political science.

**POL S 596. Topics in Political Science (1-3)**

Prerequisites: Upper division or graduate standing.

Selected topics in political science. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Portuguese

In the College of Arts and Letters

**OFFICE: Arts and Letters 134**

**TELEPHONE: 619-594-6588 / FAX: 619-594-5293**

## Faculty

Chair: Blanco

Professor: Blanco

## Offered by the Department of Spanish and Portuguese Languages and Literatures

Major in European studies, with emphasis in Portuguese.

**See** European Studies.

Major in international business, with emphasis in Portuguese.

**See** International Business.

Minor in Portuguese.

## Portuguese Minor

**(Minor Code: 11079) (SIMS Code: 115701)**

The minor in Portuguese consists of a minimum of 15 units, nine of which must be approved upper division courses, to include at least six units of upper division courses taught in Portuguese. Any course taught in English needs department approval to apply to the minor requirements.

The following courses are acceptable for the Portuguese minor: Portuguese 101, 201, 299, 301, 307, 401, 443, 499, 535; Latin American Studies 307.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Portuguese to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Portuguese 301 or the equivalent level of achievement. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (PORT)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Portuguese will not receive credit for taking lower division courses in Portuguese except with advance approval from the department.**

**All lower division courses in Portuguese are taught in Portuguese.**

**No credit will be given for lower division courses taken after successfully completing any upper division Portuguese course. No credit will be given for Portuguese 101, 201, 301 taken out of sequence.**

#### PORT 101. Elementary / Intensive Portuguese I (5) [GE]

Five lectures and one hour of laboratory.

Prerequisite: Three years of high school Romance language or two semesters of college romance language.

Pronunciation, oral practice, reading on Luso-Brazilian culture and civilization, essentials of grammar. Not open to students who have completed three years of high school Portuguese unless the third course was completed five or more years ago. Not open to students with credit in Portuguese 201, 301, or higher-numbered Portuguese course.

#### PORT 201. Elementary/Intensive Portuguese II (5) [GE]

Prerequisite: Portuguese 101.

Continuation of Portuguese 101. Not open to students who have completed four years of high school Portuguese unless the fourth course was completed five or more years ago. Not open to students with credit in Portuguese 301 or higher-numbered Portuguese course.

#### PORT 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### PORT 299. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Portuguese are taught in Portuguese unless otherwise stated.**

**No credit will be given for lower division courses taken after successfully completing any upper division Portuguese course.**

#### PORT 301. Intermediate Portuguese Grammar and Composition (3) [GE]

Prerequisites: Portuguese 201; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Oral and written composition in Portuguese, based on models from modern Portuguese and Brazilian texts.

PORT



## Portuguese

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**PORT 307. Brazilian Music and Culture (3) [GE]**  
**(Same course as Latin American Studies 307)**

Prerequisites: Upper division standing; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Brazilian music and culture with emphasis on religious and cultural practices of candomble, capoeira, carnival, and notions of race and class in contemporary Brazilian funk and hip-hop. Taught in English.

**PORT 401. Advanced Portuguese Grammar and Composition (3) [GE]**

Prerequisites: Portuguese 301; and completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Oral and written composition in Portuguese, based on models from modern Portuguese and Brazilian texts.

**PORT 443. Contemporary Luso-Brazilian Civilization (3)**

Prerequisite: Portuguese 401.

Historical, cultural socioeconomic, ethnic, geographic, and political factors of modern Brazil and Portugal.

**PORT 496. Selected Studies in Portuguese (3)**

Topics in Lusophone language, literature, culture, and linguistics. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**PORT 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSE**  
**(Also Acceptable for Advanced Degrees)**

**PORT 535. Brazilian Literature (3)**

Prerequisite: Portuguese 401.

Important movements, authors, and works of the literature of Brazil from the colonial period to modern times.

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# Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 212**

**TELEPHONE: 619-594-5124 / FAX: 619-594-4987**

## Faculty

Faculty assigned to teach Professional Studies and Fine Arts courses are drawn from the School of Art, Design, and Art History, Communication, Exercise and Nutritional Sciences, Hospitality and Tourism Management, Journalism and Media Studies, Music and Dance, Public Affairs, and Theatre, Television, and Film.

## Professional Studies and Fine Arts International Studies Minor

**(Minor Code: 22997) (SIMS Code: 669000)**

The minor consists of 18 units to include Professional Studies and Fine Arts 350, 501, 502, 550; and six units selected from Art 357, Communication 371, Criminal Justice 570, Dance 382, Journalism and Media Studies 450, Music 345, Nutrition 203, Public Administration 580, Recreation and Tourism Management 404, and Television, Film and New Media 363 (maximum credit three units).

Courses in the major department or that are required for the major may not be used to satisfy requirements for the minor. A minimum of six upper division units must be completed in residence at San Diego State University.

Students must officially declare the minor before taking any upper division courses acceptable for the minor. Students must meet the prerequisites for the minor in effect at the time they declare the minor.

## Media Arts and Technology Minor

**(Minor Code: 06990) (SIMS Code: 660595)**

No new students are being admitted to this program during the 2010-2011 academic year.

To be admitted to the minor in Media Arts and Technology, the student must present a portfolio that includes work in the creative arts and/or creative digital technology.

The minor consists of 24 units to include Professional Studies and Fine Arts 320, 330; six units of Professional Studies and Fine Arts 430; three units selected from Art 157, Dance 181, Music 151, Television, Film and New Media 160, or Theatre 100; and nine lower division units selected from the following in two artistic disciplines: Art 101, 102, 103, 240, Dance 100, 171, 255, 290, Music 105, 110A, 110B, 160, 260, Theatre 115, 240.

Courses in the major department or required for the major may not be used to satisfy requirements for the minor. A minimum of six upper division units must be completed in residence at San Diego State University.

Students must officially declare the minor before taking any upper division courses acceptable for the minor. Students must meet the prerequisites for the minor in effect at the time they declare the minor.

Additional prerequisites may be required for the lower division courses in the minor.

## Courses (PSFA)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

## LOWER DIVISION COURSES

### PSFA 100. Sustainable Development (3) [GE]

Key concepts, definitions, and measures of sustainable development. Interrelationships between biodiversity and society. Integrated view of science of sustainable development.

### PSFA 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

## UPPER DIVISION COURSES (Intended for Undergraduates)

### PSFA 320. Creativity and Communication in the Arts (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities.

Common elements shared by various artistic forms. Focus on creativity and communication as exemplified in subject, form, function, medium, organization, and style. Attendance at dance, drama, film, music, television, and visual art events required.

### PSFA 330. Artistic Practice in the Digital Age (3)

Two lectures and two hours of activity.

Prerequisite: Upper division standing.

Multidisciplinary artistic practice related to digital technologies with emphasis on works that encourage new media collaboration and interaction with audiences. Critical issues pertinent to art and technology that seek to depict, question, and transform our cultural landscape.

### PSFA 350. International Studies (3)

Awareness of international surroundings and creation of global citizens in PSFA disciplines. Concepts of culture and self-awareness, dimensions of culture, theoretical perspectives, behavioral patterns, and applications in PSFA disciplines.

### PSFA 430. Art and Technology Workshop (3)

Six hours of activity

Prerequisite: Grade of C or better in Professional Studies and Fine Arts 330.

Collaborative and/or interdisciplinary practical experience in digital media using various approaches to the creative process in the arts. Maximum credit six units.

### PSFA 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### PSFA 499. Special Study (1-3)

Prerequisite: Professional Studies and Fine Arts 350.

Individual directed study on topics within context of PSFA international studies minor. Maximum credit six units.

## UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

### PSFA 501. Study Abroad I (3)

Prerequisites: Professional Studies and Fine Arts 350 and concurrent registration in Professional Studies and Fine Arts 502.

Study and practical applications of PSFA-related intercultural issues in a selected international setting. Areas of study within PSFA disciplines. Maximum credit six units.

### PSFA 502. Study Abroad II (3)

Prerequisites: Professional Studies and Fine Arts 350 and concurrent registration in Professional Studies and Fine Arts 501.

Study and practical applications of PSFA-related intercultural issues in a selected international setting. Areas of study within PSFA disciplines. Maximum credit six units.

### PSFA 550. International Studies Capstone (3)

Prerequisites: Professional Studies and Fine Arts 501 and 502.

Comparative exploration of the ways visited culture/society/nation addresses a problem or issue relative to approaches taken in US.

PSFA

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# Psychology

In the College of Sciences

**OFFICE: Life Sciences 110**

**TELEPHONE: 619-594-5358**

**UNDERGRADUATE ADVISING OFFICE: Life Sciences 105**

**TELEPHONE: 619-594-5412 / FAX: 619-594-1332**

**<http://www.psychology.sdsu.edu>**

## Faculty

Emeritus: Borges, Bryson, Defran, Dicken, Fenson, Franzini, Gallo, Graham, Graf, Harari, Hillix, Hornbeck, Hunrichs, Karen, Kass, Koppman, Leckart, Lee, Litrownik, Lynn, Martin, McCordick, McDonald, Mollenauer, Penn, Plotnik, Price (Judy), Psomas, Rodin, Rosenbaum, Sattler, Schulte, Scollay, Segal, Smith, Spinetta, Stevens

Chair: Matt

Resident Adviser: Ulloa

Professors: Atkins, Castañeda (IVC), Cronan, Dunn (IVC), Hattrup, Klonoff, Malcarne, Marlin, Marshall, Matt, Mattson Weller, McGivern, Mueller, Murphy, Price (Joseph), Prislín, Reed, Reilly, Riley, Saccuzzo, Sallis, Scott, Thomas, Twenge

Associate Professors: Amir, Conte, Devos, Ehrhart, Friend, Gallo, Gilbert, Roesch, Yeh

Assistant Professors: Brassier, Cordero (IVC), Kath, Marx, Moses, Sadler, Unsworth, Vaughn, Weersing

## Offered by the Department

Doctor of Philosophy degree in clinical psychology.

Master of Arts degree in psychology.

Master of Science degree in psychology.

Major in psychology with the B.A. degree in liberal arts and sciences.

Minor in psychology.

Certificate in industrial/organizational psychology.

## The Major

**What is psychology?** Psychology is the scientific discipline that studies human behavior and mental processes: how human beings develop, learn, think and feel. Psychologists study the relative influences of heredity and experience throughout the life span in a wide variety of environments, including the laboratory, home, school, workplace, jury room, hospital and hospice. Faculty of the Department of Psychology at SDSU focus on a number of areas of psychology. Among these are:

- the effects of prenatal environments, including the influence of hormones and drugs on brain development and later functioning,
- the effects of childhood experience on social-emotional and cognitive development,
- the functioning of adults and the elderly in response to biological and environmental challenges,
- the normal processes of learning, memory and cognition,
- the effectiveness of behavioral and cognitive intervention procedures for enhancing physical and mental well-being.

**What do psychology graduates do?** The majority of students who graduate with a B.A. in psychology enter the job market and find employment in a broad range of settings, including business, state and local government agencies, and health-care services. Because the B.A. in psychology provides a liberal arts education as opposed to technical training, psychology majors will need to acquire job-specific experience or expect additional on-the-job training.

**Does the B.A. in psychology prepare students for graduate work in applied areas?** Students who have maintained strong academic records in psychology often enter masters degree programs in counseling: Clinical Social Work; Marriage, Family and Child Counseling; and School Psychology. Others pursue graduate work in a number of related fields including Program Evaluation, Industrial and

Organizational Psychology, Public Health, Social Ecology, Education, Program Development, Criminal Justice, Law, Administrative Social Work, Human Resource Development, and Medicine.

**What is the Ph.D. in psychology?** Graduate work which leads to the Ph.D. trains one to be a scientific psychologist, to study human behavior and mental processes, and to teach at the university. The Ph.D. in clinical psychology also includes supervised training in clinical practice. The time commitment for earning a Ph.D. degree is considerable, and these programs are highly competitive. Only a small percentage of psychology graduates will in fact go on to earn the Ph.D. in psychology.

## Impacted Program

The psychology major is an impacted program. To be admitted to the psychology major, students must meet the following criteria:

- a. Complete with a grade of C or higher: Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203 and 203L). With the exception of Psychology 201, these courses cannot be taken for credit/no credit (Cr/NC). The minimum grade in each class is C or higher. *NOTE:* Psychology majors may use Psychology 280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. *NOTE ALSO:* A college level statistics course will be accepted from another department (Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280.
- b. Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All students planning to major in psychology are urged to make an appointment at the Psychology Undergraduate Advising Office (Life Sciences 105) during their first semester of residence at SDSU. Students who plan to transfer as psychology majors should make an appointment before registering. The Advising Office is open year round and the telephone number is 619-594-5412.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Psychology Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 20011) (SIMS Code: 778301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 50 units in psychology courses can apply to the degree.

**A minor is not required for this major.** However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, social work, statistics, and others.

## General Requirements for the Major

**Preparation for the Major.** Psychology 101, 201, 211, 230, 260, 280, and Biology 100 (or Biology 203 and 203L). (20 units) With the exception of Psychology 201, these prerequisite courses may not be taken for credit/no credit (Cr/NC). The minimum grade in each class is

C or higher. **NOTE:** Psychology majors may use Psychology 280 to satisfy Mathematics/Quantitative Reasoning General Education requirement. **NOTE ALSO:** A college level statistics course will be accepted from another department (Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Sociology 201; Statistics 119 or 250) combined with Psychology 281 in lieu of Psychology 280.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements." Psychology majors are urged to discuss scheduling the language requirement with an adviser in the Psychology Undergraduate Advising Office.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**The Major. Methods.** All majors must complete Psychology 301 or 410 or both. Psychology 301 is suitable for most psychology majors, including those planning to enter the job market after graduation, those undecided about career plans, and those planning to pursue graduate work in related fields such as counseling.

Students planning to pursue graduate work in psychology (research degrees) should take Psychology 370 and 410 as early as possible. **NOTE:** Students enrolling in these courses must have earned a B or better in Psychology 280 or its equivalent. Students unsure of their statistical or computer competence may wish to take Psychology 301 before enrolling in Psychology 370 or 410.

**Breadth.** All majors must complete 12 units selected from a list of content courses covering areas of biological, developmental, abnormal, social, personality, cognitive, and sensation/perception.

**Requirements for the Major.** A minimum of 31 upper division units in psychology to include Psychology 301 or 410 and 12 units, including at least three units from each of the following groups. The remaining three units are selected from Group II or Group III.

**Group I.** One of the following:

Psychology 340 or 344.

**Group II.** At least one of the following:

Psychology 319;

Psychology 331 or 332;

Psychology 333 or 350.

**Group III.** At least one of the following:

Psychology 360 or 361 or 362;

Psychology 380;

Psychology 388.

## Recommendations for Electives

**Employment with the B.A.** Electives should be selected in accord with general career goals. Students interested in health and human services may take courses that focus on psychological health and well-being or issues related to child development. Those interested in business may take courses that focus on industrial, organizational and consumer issues or that emphasize computer skills, measurement, data analysis, or some combination of these.

**Masters programs in counseling.** At SDSU, a Master of Science degree in Counseling is offered by the College of Education and a Master of Social Work degree is offered by the College of Health and Human Services. For these programs students have considerable latitude in the selection of psychology electives, but it is important to develop an appropriate profile of volunteer or work experience.

**Graduate programs in psychology.** Most masters or doctoral programs in psychology require students to have strong research profiles. SDSU psychology majors can accomplish this by completing Psychology 370, 410, and becoming involved as early as possible in faculty-sponsored research.

## Psychology Minor

The minor in psychology consists of 18-21 units selected from one of the following areas:

**Cognitive and Behavioral Neuroscience (SIMS Code: 778334):** Psychology 101 and 260; 12 units of upper division psychology courses selected from Psychology 360, 361, 362, 365, 380, and 388. (18 units)

**Industrial/Organizational (SIMS Code: 778336):** Psychology 101 and 280 or equivalent, and Psychology 319, 320, 321, 340. (19 units)

**Personality and Social (SIMS Code: 778360):** Psychology 101, 230 and 211 or 260; 12 units of upper division psychology courses of which nine must be selected from Psychology 331 or 332 or 333, 340, 350 and 351. (21 units)

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Industrial/Organizational (I/O) Psychology Certificate (Offered only in Extension)

Industrial/organizational (I/O) psychology is the scientific study of the workplace. Using psychological theory and methodology, I/O psychologists contribute to evidence based practice designed to improve understanding and management of human resources and organizational behavior. The certificate offers non-degree seeking students a rigorous introduction to theories, methods, and practice of I/O psychology; and how to apply theories and methods of psychology to issues of critical relevance to organizations to include:

1. Recruitment, assessment, and personnel selection;
2. Training needs assessment and design;
3. Performance measurement and talent management;
4. Coaching and individual development;
5. Organizational development and change management;
6. Employee satisfaction, morale, and work-life balance;
7. Leadership and motivation.

### Admission Requirements

To be admitted to the certificate program, students must have earned a high school diploma or equivalent and must demonstrate by previous coursework and/or work experience evidence of potential for completing the academic program. Previous courses in psychology taken at SDSU or at other universities will be considered for credit toward certification on an individual basis, but not to exceed seven units.

The Department of Psychology is responsible for the coordination of the certificate program in conjunction with the College of Extended Studies. Applications may be submitted prior to entering the program or before the completion of nine semester units of coursework.

Students are required to submit an Open University Registration Form each semester to the College of Extended Studies.

Students accepted into the program will be assigned an adviser by the Department of Psychology.

### Certificate Requirements

Complete 16 semester units of coursework to include Psychology 101, 280, 319, 320, 321. Students may transfer up to seven units earned in Psychology 101 or 280. PSY 319, 320, and 321 must be completed at San Diego State University.

Achieve a cumulative grade point average of 2.5 or better. Each course must be completed with a grade of C (2.0) or better.

Psychology 101 and 280 must be completed before taking Psychology 319, 320, 321.

Complete coursework within four years after admission to the program.

Petition the College of Extended Studies for the certificate upon completion of 16 semester units.

PSY

## Courses (PSY)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**NOTE:** Many psychology courses have enforced prerequisites, meaning the student must provide proof of having completed the prerequisite to the instructor in order to remain enrolled. Students who have not completed an enforced prerequisite and who fail to drop the class officially will be assigned the grade of "WU," which is equivalent to an "F." Before enrolling in psychology courses, students should consult the catalog to determine that they have completed any enforced prerequisites.

### LOWER DIVISION COURSES

#### PSY 101. Introductory Psychology (3) [GE]

Facts, principles, and concepts which are basic to understanding human behavior.

#### PSY 201. Academic and Career Opportunities in Psychology (1) Cr/NC

Prerequisites: Psychology 101 and completion of 30 units.

Information about careers in psychology. Includes identification of career-related strengths and interests and information on post-baccalaureate options in psychology and related fields. Introduction to resources in Psychology Undergraduate Advising and Career Services.

#### PSY 211. Learning (3)

Prerequisite: Psychology 101.

Basic principles and research in animal and human learning.

#### PSY 230. Developmental Psychology (3)

Prerequisite: Psychology 101. **Proof of completion of prerequisite required:** Copy of transcript.

Psychological development of normal individual from conception through childhood, adolescence, and maturity. Emphasis on interdependence of various periods of the individual's life. Not open to students with credit in Child and Family Development 170, 270, or Teacher Education 170.

#### PSY 250. Faculty Student Mentoring Program (1) Cr/NC

Provides upper class mentors for freshman and community college transfer students. Mentors assist students in locating campus resources, linking them with departmental advisers, identifying tutors in science courses and encouraging students to participate in workshops. Maximum credit two units.

#### PSY 260. Introduction to Physiological Psychology (3)

Prerequisites: Psychology 101 and Biology 100. **Proof of completion of prerequisites required:** Copy of transcript.

Elementary physiology of the nervous system. Physiological mechanisms underlying the psychological phenomena of sensation, perception, emotion, arousal, motivation, learning and memory, and cortical specialization.

#### PSY 280. Statistical Methods in Psychology (4) [GE]

Three lectures and two hours of laboratory.

Prerequisites: Psychology 101; satisfaction of the Entry-Level Mathematics requirement. **Proof of completion of prerequisites required:** Copy of ELM score or verification of exemption.

Quantitative methods in psychology for producing, analyzing, and interpreting data. Sampling, basic research designs, describing distributions, correlation, regression, applications of normal probability curve, confidence intervals, and tests of significance. Analysis and interpretation of data using statistical, spreadsheet, and word processing software. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Psychology 280; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Sociology 201; Statistics 119 and 250. (Formerly numbered Psychology 270 and 271.)

#### PSY 281. Data Analysis in Psychology (2)

One lecture and two hours of laboratory in computer laboratory.

Prerequisites: Satisfaction of the Entry-Level Mathematics requirement and credit in a three-unit statistics course without a computer laboratory component. **Proof of completion of prerequisites required:** Copy of transcript.

Statistical and graphic analysis and interpretation of psychological data using computer technology. Activities involve statistical, spreadsheet, and word processing software. Not open to students with credit in Psychology 280.

#### PSY 296. Experimental Topics (1-3)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**NOTE:** To declare the psychology major, students must report in person to the Psychology Undergraduate Advising Office and provide the Undergraduate Adviser with evidence of having completed the requirements. Informal transcripts may be used by the Psychology Undergraduate Office to determine declaration of the major. Students should declare the major as soon as they have completed the necessary requirements and should complete no more than 12 units of upper division psychology courses prior to declaring the major. Students who are planning to transfer to SDSU should visit the Psychology Undergraduate Office and develop a plan for declaring the major during the semester prior to enrolling.

#### PSY 301. Introduction to Research Methods in Psychology (4)

Three lectures and two hours of laboratory.

Prerequisites: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course. Psychology 101 and 280. **Proof of completion of prerequisites required:** Copy of transcript. Open only to psychology majors.

Methods used to answer questions in psychology, including case study, observation, survey, experimental, and field study procedures. Class projects using these methods, interpreting results and report writing; critically evaluating research findings.

#### PSY 316. Behavior Modification (3) (Offered only at IVC)

Prerequisite: Psychology 101. Recommended: Psychology 211.

Contingencies of reinforcement, stimulus control, response shaping, aversive control, and other basic principles of operant behavior applied to understanding and modification of human behavior.

#### PSY 319. Industrial and Organizational Psychology (3)

Prerequisites: Psychology 101 and 280. **Proof of completion of prerequisites required:** Copy of transcript.

Broad-based survey of various content areas of industrial (e.g. selection, appraisal) and organizational (e.g. motivation, leadership) psychology. Underlying psychological principles that influence human behavior in the workplace. Not open to students with credit in Psychology 320 or 321.

#### PSY 320. Personnel and Industrial Psychology (3)

Prerequisite: Psychology 319. **Proof of completion of prerequisite required:** Copy of transcript.

Psychological principles applied to industrial problems of selection, placement and training.

#### PSY 321. Organizational Psychology (3)

Prerequisite: Psychology 319. **Proof of completion of prerequisite required:** Copy of transcript.

Human behavior in context of organizational life. Factors related to effectiveness of individuals and groups within organizations, including organization design, leadership and control, motivation, cooperation, and conflict.

**PSY 331. Psychology of Infant and Child Development (3)**

Prerequisites: Psychology 101 and 230. **Proof of completion of prerequisite required for Psychology 230:** Copy of transcript.

Psychological development of normal child from infancy through childhood focusing on physical, social, cognitive, and linguistic aspects of development.

**PSY 332. Psychology of Adolescent and Early Adult Development (3)**

Prerequisites: Psychology 101 and 230. Proof of completion of prerequisite required for Psychology 230: Copy of transcript.

Psychological development of normal individual from adolescence through early adulthood focusing on physical, social, and cognitive aspects of development.

**PSY 333. Developmental Psychopathology (3)**

Prerequisites: Psychology 101 and 230. Proof of completion of prerequisite required for Psychology 230: Copy of transcript.

Cognitive, affective, and social aspects of abnormal development from childhood through adolescence. Consideration, within a developmental framework, of etiological theories and factors, problem expression and treatment issues.

**PSY 340. Social Psychology (3) [GE]**

Prerequisites: Psychology 101; completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Major problems and findings concerning group behavior and group membership, the socialization of the individual, and processes of social interaction.

**PSY 344. Psychology and Culture (3)**

Prerequisite: Psychology 101.

Impact of culture in each of psychology's major areas, theories, and empirical findings.

**PSY 345. Chicana and Chicano Psychology (3)**

Prerequisite: Psychology 101.

Evolution of psychology of Chicanos with emphasis on understanding underlying roots and foundations. Empirical research conducted with Chicanos in areas of psychology, psychiatry, and mental health.

**PSY 350. Abnormal Psychology (3)**

Prerequisites: Psychology 101; completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Causes and treatment of abnormal behavior with emphasis on major behavior disorders.

**PSY 351. Psychology of Personality (3) [GE]**

Prerequisites: Psychology 101; completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Major theoretical approaches to individual differences and the study of the person. Techniques of personality assessment. Selected research findings.

**PSY 355. Psychology of Human Sexual Behavior (3)**

Prerequisite: Psychology 101.

Evaluation of behavioral and physiological data of normal, aberrant, and dysfunctional human sexual behavior, including description of available treatment methods.

**PSY 360. Behavioral Neuroscience (3)**

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Biological and physiological underpinnings of behavior: genetics, hormones, transmitters, plasticity/regeneration, development, and metabolism/nutrition. Analysis of their role in normal behavior, psychopathology, neurological disorders, and treatment of behavioral disturbances.

**PSY 361. Neuropsychology (3)**

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Characterization of human brain-behavior relationships derived from neuropsychometric studies of healthy, neuropsychiatric and brain damaged populations. Emphasis on functional neuroanatomy and the effects of abnormal brain development and disease on processes such as cognition, memory, language, visual-spatial, and other functions.

**PSY 362. Cognitive Neuroscience (3)**

Prerequisites: Psychology 101 and 260. **Proof of completion of prerequisites required:** Copy of transcript.

Functional organization of the human brain, including sensorimotor and cognitive systems and their functional interactions; development and evolution; normal and pathological plasticity. Approaches applied to healthy human brain, such as neuroimaging and event-related potentials.

**PSY 365. Drugs and Behavior (3)**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences.

Fundamentals of regulation, administration, tolerance, dependence, and physiological activity of drugs. Effects of stimulants, depressants, opiates, psychedelics, and psychotherapeutic drugs on the nervous system and on cognitive, personality, and behavioral functioning.

**PSY 370. Psychological Testing and Measurement (3)**

Prerequisites: Grade of B or better in Psychology 280 or equivalent statistics course; grade of B or better in Psychology 301. **Proof of completion of prerequisites required:** Copy of transcript. **Note:** Students electing to take Psychology 410 for the methods requirement may petition waiver of the Psychology 301 prerequisite by permission of the undergraduate adviser. Open only to psychology majors.

Measurement theory and the basic principles of testing. Selection, construction and critical evaluation of group tests of intelligence, personality, aptitude, interest and achievement.

**PSY 380. Cognitive Psychology (3)**

Prerequisite: Psychology 101. Recommended: Psychology 211.

Theory and research on attention, learning, memory, thinking, understanding, and language.

**PSY 388. Sensation and Perception (3)**

Prerequisites: Psychology 101 and 260.

Theory and research in sensory and perceptual processes.

**PSY 407. Health Psychology (3)**

Prerequisites: Psychology 211 and 280. **Proof of completion of prerequisites required:** Copy of transcript.

Behavioral components of major illnesses and causes of death and disability. Primary prevention of health problems through behavior change and psychological features of the health care system.

**PSY 410. Advanced Research Methods Laboratory (5)**

Two lectures and six hours of activity.

Prerequisites: Completion of the Graduation Writing Assessment Requirement or the eligibility to enroll in an upper division writing course. Psychology 211, a grade of B or better in Psychology 280 or equivalent statistics course. **Proof of completion of prerequisites required:** Copy of transcript. Open only to psychology majors.

Use of research design, quantitative methods, and research reports as applied to all areas of psychology.

**PSY 412. Advanced Laboratory in Social Psychology (5)**

Two lectures and six hours of activity.

Prerequisite: Psychology 410. **Proof of completion of prerequisites required:** Copy of transcript.

Experimental literature, assigned and original laboratory projects in the field of social psychology.

**PSY 442. Prejudice and Stereotypes (3)**

Prerequisite: Psychology 340. **Proof of completion of prerequisites required:** Copy of transcript.

Classic and contemporary theories and research on prejudice and stereotyping to include origin and forms of phenomena, consequences, and approaches aimed at reducing them.

PSY

**PSY 446. Advanced Topics in Social Psychology (3)**

Prerequisite: Psychology 340. **Proof of completion of prerequisite required:** Copy of transcript.

Selected areas in social psychology. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**PSY 452. Introduction to Counseling and Therapy (3)**

Prerequisite: Psychology 350 or 351. **Proof of completion of prerequisite required:** Copy of transcript.

Theory, methods, and research in psychological approaches to personality and behavior change.

**PSY 456. Psychology of Death and Bereavement (3)**

Latest psychological research and clinical practice in the area of death and dying, geared to assisting the student in appropriate ways of aiding both the dying and the bereaved in coming to terms with death.

**PSY 470. Intermediate Statistics for Psychological Research (3)**

Prerequisites: Grade of B or better in Psychology 280; grade of B or better in Psychology 301 or 410.

Theoretical foundations of statistics including probability theory, distribution theory, and statistical inference. Model-based statistical comparisons. Application of statistical theory to psychological research questions.

**PSY 491. Academic or Psychological Counseling Experiences (3) Cr/NC**

Prerequisites: Upper division psychology major with a 3.0 minimum grade point average and consent of psychology undergraduate coordinator.

Individual supervision of academic or psychological counseling experiences, geared to acquisition of counseling and communication skills. May be repeated with approval of psychology undergraduate coordinator. Maximum credit six units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

**PSY 492. Responsible Conduct in Scientific Research (1) Cr/NC**

Prerequisite: At least one introductory level science course.

Responsible conduct in scientific research. Topics include conflict of interest, plagiarism, reporting of scientific results, authorship, responsible use and care of animals, responsible use of human subjects.

**PSY 494. Special Study: Techniques for Teaching and Tutoring in Psychology (2) Cr/NC**

Prerequisite: Consent of instructor.

Practical knowledge and experience in psychology instruction and advanced content in a specific area of psychology. May be repeated with new content. Maximum credit four units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

**PSY 495. Field Placement in Psychology (3) Cr/NC**

Prerequisites: Psychology 350 and three units from Psychology 230, 340, or 351. **Proof of completion of prerequisites required:** Copy of transcript.

Students will be assigned to various community agencies and work under joint supervision of an agency supervisor and course instructor, attend class meetings, and staff conferences. May be repeated with approval of psychology undergraduate coordinator. Maximum credit six units. No more than nine units of Psychology 491, 494, 495 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

**PSY 496. Selected Topics in Psychology (1-4)**

Prerequisite: Psychology 101.

Intensive study in specific areas of psychology. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**PSY 497. Senior Project (1-3)**

Prerequisites: Twelve units of psychology and consent of instructor.

Individual investigation and APA-style report on a research project. Maximum credit six units. No more than nine units of Psychology 497 and 499 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

**PSY 498. Undergraduate Honors Thesis (3-6)**

Prerequisites: Psychology 410, 3.5 overall GPA, 3.75 GPA in major, and consent of honors coordinator.

Directed research in psychology and completion of honors thesis. Required of students graduating with a Certificate of Recognition of Psychology Honors Thesis. May be repeated for a maximum of six units.

**PSY 499. Special Study (1-3) Cr/NC**

Individual study, including library or laboratory research and a written report. Maximum credit six units. No more than nine units of Psychology 497 and 499 may be counted toward the major and no more than 12 units of courses numbered Psychology 491, 494, 495, 497, 499 may be counted toward the major.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

**PSY 501. History of Psychology (3)**

Prerequisite: Limited to graduate students or psychology majors with senior standing.

Historical background of modern psychology.

**PSY 502. Philosophical Issues in Psychology (3)**

Prerequisite: Six units of psychology.

Mind-brain relationship and other topics at the interface of psychology and philosophy.

**PSY 561. Advanced Neuropsychology (3)**

Prerequisite: Psychology 360 or 361 or grade of B or better in Psychology 260.

Biological bases of neuropsychological function and dysfunction, relationships between brain structure and function, neuropsychological assessment tools.

**PSY 587. Advanced Principles of Learning and Cognition (3)**

Prerequisites: Psychology 211, 280, and 380. Limited to graduate students or psychology majors with senior standing.

Empirical data, basic principles and theoretical positions of major theorists in learning and cognitive psychology.

**PSY 596. Selected Topics in Psychology (1-3)**

Prerequisites: Psychology 101 and consent of instructor.

Intensive study in specific areas of psychology. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Public Administration

In the College of Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 100**

**TELEPHONE: 619-594-6224 / FAX: 619-594-1165**

A Member of the National Association of Schools of Public Affairs and Administration (NASPAA).

## Faculty

Emeritus: Boostrom, Calavita, Clapp, Coates, Dobbs, Gazell, Gilbreath, Gitchoff, Henderson, Kitchen, Kochanski, Lee, Ryan, R., Sparrow, Wilson

Director: Henry

Professors: Caves, Henry, Herzog, Pugh, Rea, Sutton

Associate Professors: McIlwain, Nurge, Sabbath, Stock, Ryan, S.

Assistant Professors: Antoninetti, Espinosa, Flanigan

## Offered by the School of Public Affairs

Master of City Planning degree.

Master of Public Administration degree.

Concentration in city planning.

Concentration in criminal justice administration.

Master of science degree in criminal justice and criminology. (Jointly with the College of Arts and Letters.)

Major in criminal justice with the B.S. degree in applied arts and sciences (refer to Criminal Justice).

Major in public administration with the B.A. degree in applied arts and sciences.

Emphasis in city planning.

Major in urban studies with the B.A. degree in liberal arts and sciences (refer to Interdisciplinary Programs).

Minor in public administration.

Certificate in public administration (available at Imperial Valley Campus only).

Certificate in transborder public administration and governance (refer to the *Graduate Bulletin*).

## The Major

In an increasingly complex world, the nation is in need of effective leadership and competence in the administration of public affairs. The growth of all levels of government and public service organizations and their increasing responsibilities in a complex society have led to the need for more capable public administrators.

The undergraduate public administration major is an interdisciplinary program. In addition to the courses taken within the department, students select additional courses in areas as diverse as economics, sociology, social welfare, political science, and psychology. Required preparatory courses for the major include classes in accountancy, economics, information and decision systems, political science, and statistics.

The primary purpose of the public administration major is to provide knowledge and skills for students who wish to prepare themselves for management careers in government, community agencies, private not-for-profit organizations, planning and consulting firms, and private sector organizations that work in partnership with the public sector. Career opportunities in public administration can be found throughout the public and private sectors, and the future is represented by an expanding job market. The Public Administration Center within the School of Public Affairs provides a comprehensive file of current job openings locally, throughout California, and across the country.

Upon graduation, students have secured a wide variety of administrative positions within government, the private sector, and community agencies. For example, graduating students have recently been placed with city personnel and finance departments, county operating departments, special districts, hospitals, and consulting firms.

## Impacted Program

The public administration major is an impacted program. To be admitted to the public administration major, students must meet the following criteria:

- Complete 18 units in the following courses with a grade of C or higher: Accountancy 201; Economics 101 and 102; Information and Decision Systems 180; Political Science 102; and a three-unit course in elementary statistics. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.40 or higher;

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Public Administration Major

**With the B.A. Degree in Applied Arts and Sciences**

**(Major Code: 21021) (SIMS Code: 666901)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Public Administration 200, Accountancy 201, Information and Decision Systems 180, Economics 101 and 102, Political Science 102, and a three-unit course in statistics. (21 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Public Administration 301, 310 or 312 or 315, 330, 340, 450, 460, 497 or 498, nine units of public administration electives, and six additional units selected with the approval of an adviser from the public administration faculty. Note: Students may only double count **one** elective course also taken to satisfy the university upper division Explorations of Human Experience requirement. Within this program, students may specialize in such areas as personnel and labor relations, urban management, urban planning, public finance and budgeting, information systems, and environmental management. Interested students must seek guidance from a public administration program faculty adviser.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by a public administration program faculty adviser and filed with the Office of Advising and Evaluations one semester before graduation.

### Emphasis in City Planning

**(Major Code: 21021) (SIMS Code: 666919)**

**Preparation for the Major.** Public Administration 200, Accountancy 201, Economics 101 and 102, Information and Decision Systems 180, Political Science 102, and a three-unit course in statistics. (21 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C.

PA



**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Public Administration 301, 310, 330, 340, 450, 460, 497 or 498; and Public Administration 320, 420, 525, and two courses selected from Public Administration 341, 350, 510, and 512.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by a city planning program faculty adviser and filed with the Office of Advising and Evaluations one semester before graduation.

## Public Administration Minor

(SIMS Code: 666901)

The minor in public administration consists of 21 units to include Public Administration 301, 310 or 312 or 315, 330, 450, Political Science 102, and two additional public administration courses with the consent of a public administration adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Public Administration Certificate

(Imperial Valley Campus)

(Certificate Code: 90033) (SIMS Code: 666930)

To receive the certificate a candidate must complete an approved program of 18 units with a minimum grade point average of 2.5. Up to two public administration courses taken at another institution may be included among the required courses with approval of the program adviser.

Requirements include Public Administration 301, 330; three units selected from Public Administration 340, 341, or 450; and nine units in an area of specialization selected with the approval of the adviser.

## Courses (P A)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSE

#### P A 200. The Urban Scene (3)

Key issues in public administration, social policy, and city planning. Emphasis on government structure and public decision-making process, organizational behavior, effectiveness of criminal justice policies, zoning, and land use considerations.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### P A 301. Concepts and Issues in Public Administration (3)

Theory and practice of governmental administration in differing environments, role of administrators in public policy, issues facing administrators, techniques of administration.

#### P A 310. Management of Urban Governments (3)

Problems of local units of government in the urban environment. Organization and function of local agencies. Emphasis on California.

#### P A 312. Management of State Governments (3)

Administrative and constitutional problems of state management in the American federal system. Emphasis on California.

#### P A 315. Management of the Federal Government (3)

Prerequisite: Public Administration 301.

Problems in the administration of the federal government. Leadership, specialization, unity of command, and oversight.

#### P A 320. Introduction to Urban Planning (3)

Introduction to community planning: regional, county, and city. Consideration of master plan including its purposes, contents, and method of adoption.

#### P A 330. Public Personnel Administration (3)

Analysis of personnel problems. Supervision and management of public employees and public organizations in an age of change.

#### P A 340. Administrative Behavior (3)

Social, psychological, and behavioral theories of organization; concepts of administrative leadership; organization and the individual; emphasis on governmental organizations. Not open to students with credit in Psychology 321.

#### P A 341. Administrative Management (3)

Areas and problems of administrative research. Management and operations in public organizations including forecasting, resource allocation, planning and administration of programs, preparation of administrative reports. Quantitative models of managerial decision making.

#### P A 350. Contemporary Urban Issues (3)

Focus on urban areas and urbanism from a public policy perspective; course examines and critiques the physical, economic, social and political dimensions of contemporary American cities utilizing a multidisciplinary approach.

#### P A 420. Methods of Analysis in City Planning (3)

Prerequisites: Public Administration 320 and basic statistics course.

Methods of primary data collection and analysis of secondary data sources for problem solving in city planning, techniques associated with urban design and urban development.

#### P A 440. Microcomputer Applications in Criminal Justice and Public Administration (3) (Offered only at IVC)

Two lectures and three hours of laboratory.

Prerequisite: Limited to criminal justice and public administration majors.

Operation and use of microcomputer hardware and software in criminal justice. Laboratory instruction focuses on applicability of programs to criminal justice operations.

#### P A 450. Fiscal and Budgetary Policy (3)

Prerequisite: Public Administration 301.

Policies of fiscal administration and budgeting; political implications of the governmental budget process; revenue, debt, and treasury management; the functions of accounting and financial reporting.

#### P A 460. Administration and Public Policy Development (3)

Process of formulating public policy with emphasis on the role of public agencies.

#### P A 480. Leadership and Public Sector (3)

Prerequisite: Public Administration 301.

Leaders as energizing forces for public administration. Analysis of leadership theories and case studies.

#### P A 485. Planning and Public Policy in U.S.-Mexico Border Region (3)

Prerequisite: Public Administration 301.

City planning, regional, and public policy issues in the binational Mexico-U.S. border region. Policy analysis: macro/regional and micro/urban.

#### P A 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### P A 497. Investigation and Report (3)

Prerequisite: Consent of instructor.

Analysis of special topics. Admission by permission of instructor.

**P A 498. Internship in Public Administration (2-6) Cr/NC**

Prerequisites: Public Administration 330, 340, 341, 450, and all lower division required courses; senior standing and a "B" (3.0) average in the major.

Students will be assigned to various government agencies and will work under joint supervision of agency heads and the course instructor. Participation in staff and internship conferences. Maximum credit six units.

**P A 499. Special Study (1-3)**

Prerequisite: Twelve upper division units in public administration. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**P A 501. Nonprofit Organizations and Government (3)**

Prerequisites: Public Administration 301 and 460.

How nonprofit organizations interact with government institutions, influence and pressure government through policy advocacy and activism, and partner with government in contracting, public service provision, and policymaking.

**P A 510. Intergovernmental Relations in the United States (3)**

Prerequisite: Public Administration 310 or 312 or 315.

Constitution, political and administrative characteristics of American federalism, including regionalism, interstate compacts, and grants-in-aid.

**P A 512. The Metropolitan Area (3)**

Prerequisite: Public Administration 310 or 312.

Problems of government and administration arising from population patterns and physical and social structures of metropolitan areas.

**P A 520. Decision Making in the Urban Community (3)**

Prerequisite: Public Administration 310.

Processes of decision making in the management of urban communities.

**P A 525. The U.S. City Planning Process (3)**

Prerequisite: Public Administration 320 or graduate standing.

Description and critique of traditional city planning process; styles and roles of city planner; city planning values and ethics.

**P A 530. Negotiation and Bargaining in the Public Service (3)**

Prerequisite: Public Administration 301.

Specific issues such as strategies, the effects of threat, the physical setting, use of a third-party observer and theories of advocacy. Emphasis on analyzing simulations of the bargaining process and developing effective negotiation skills.

**P A 531. Governmental Employer-Employee Relations (3)**

Prerequisite: Public Administration 330.

Historical development, legal basis, and organizational implications of governmental employer-employee relations; emphasis on California local government.

**P A 540. Public Administrative Systems Analysis (3)**

Prerequisites: Public Administration 301 and a statistics course.

Systems and organization analysis; work standards and units; procedures analysis; administrative planning.

**P A 550. Budgetary and Financial Administration in the Public Sector (3)**

Prerequisite: Public Administration 450.

Management trends in public sector financial administration; budgetary procedures and techniques; control and monitoring systems. Cash management, capital projects management, debt administration, disbursement, funds management, and auditing.

**P A 580. Comparative Public Administration (3)**

Prerequisite: Public Administration 301.

Administrative organization and process of selected foreign and American governments. Analysis of the cultural basis of administrative systems.

**P A 596. Experimental Topics (1-4)**

Selected current topics in public administration. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES IN**  
**PUBLIC ADMINISTRATION and CITY PLANNING**  
Refer to the *Graduate Bulletin*.

P A

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# Public Health

In the College of Health and Human Services

**OFFICE: Hardy Tower 119**

**TELEPHONE: 619-594-6317 / FAX: 619-594-6112**

**<http://publichealth.sdsu.edu>**

## Faculty

Emeritus: Barnes, Boskin, Burgess, Chang, Kitzinger, Mayer, McTaggart, Noto, Peddecord, Senn, Sorochan

Director: Stoskopf

Professors: Brodine, de Peyster, Elder, Gersberg, Hovell, Koch, Macera, Novotny, Shaffer, Slymen, Talavera, Yu

Associate Professors: Alcaraz, Ayala, Hofherr, Ji, Novotny, Quintana, Rudatsikira, Seidman, Usita

Assistant Professors: Arredondo, Baek, Chowdhury, Finlayson, Hoh, Lemus, Lindsay, Madanat

Undergraduate Adviser/Division Head: Kreisworth

## Offered by the Graduate School of Public Health

Doctor of Philosophy degree in public health.

Master of Public Health degree.

Master of Science degree in public health.

Master of Public Health and Master of Arts in Latin American studies degrees (concurrent program).

Master of Social Work and Master of Public Health degrees (concurrent program).

Major in health science with the B.S. degree in applied arts and sciences.

Emphasis in public health.

Minor in health science.

Certificate in preventive medicine residency (refer to the *Graduate Bulletin*).

## The Major

The health science major with an emphasis in public health, provides a broad educational opportunity and exposure of undergraduate students to the field of public health and its many disciplines. The major prepares students to develop, implement, and assess public health programs conducted in varied settings, with diverse populations and aimed at reducing threats to public health. The major prepares students for entry-level positions in a variety of settings, including government agencies, private/voluntary agencies, hospitals, clinics, and international programs. Students develop basic competencies in public health concepts, theories, and methods. Students are exposed to the disciplines of epidemiology, environmental health, occupational health, health services administration, and behavioral science. The program of study uses examples of public health problems from all of these disciplines.

## Impacted Program and Standards for Admission

The health science major with an emphasis in public health is an impacted program. To be admitted to the emphasis in public health, students must meet the following criteria:

- Complete at least 30 of the 37 lower division units that are required in preparation for the major with a minimum GPA of 2.50;
- Receive a grade of B or higher in Public Health 101 and 290. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Health Science Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 12011)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

### Emphasis in Public Health

**(SIMS Code: 552841)**

**Preparation for the Major.** Public Health 101, 290, 294; Biology 100, 100L, 211, 211L, 212; Chemistry 100; Nutrition 107; Psychology 101; Sociology 101; Statistics 119 or 250. (37 units)

Public Health 101 and 290 may not be taken Cr/NC. The minimum grade for Public Health 101 and 290 is B or higher.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or Rhetoric and Writing Studies 305W or Linguistics 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All health science majors are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found on the college Web site at <http://www.chhs.sdsu.edu/international>.

**Major.** A minimum of 42 upper division units to include Public Health 301, 302, 303, 304, 305, 402, 490A, 490B, 490C; Biology 336; and at least 12 units selected from the following:

- Six to nine units of electives from Public Health 331, 345, 353, 362, 450, General Studies 330, 340. Other electives as selected and offered by the Graduate School of Public Health, with approval of academic adviser.
- Three to six units from one of the following categories:

**Preprofessional.** Science courses selected with approval of Graduate School of Public Health undergraduate academic adviser.

**Research.** Public Health 499 (Special Study) and completion of a senior research paper under guidance of a faculty member.

**Practice.** Public Health 497 (Supervised Field Experience); internship from a list of selected public health agencies.

**Time Limitation.** All public health courses taken for the major must have been taken and completed within seven years of the granting of the undergraduate degree. Courses taken prior to the seven year rule must be repeated. This policy applies to courses taken at SDSU or transferred from another four-year college or university or appropriate courses from a community college. No exceptions will be made to this policy.

## Health Science Minor

(SIMS Code: 552801)

The minor in health science consists of a minimum of 18 units, to include 12 units of Public Health 101, 290, 301, 302, and six units selected from Public Health 303, 304, 305. Students may not enroll in the 300-level courses until Public Health 101 and 290 have been completed.

Public Health 101 and 290 may not be taken Cr/NC. The minimum grade for Public Health 101 and 290 is B or higher.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (P H)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

**NOTE: Students who are not pre-health science or health science majors may take the following public health courses with consent of instructor.**

### LOWER DIVISION COURSES

#### P H 101. Introduction to Public Health (3)

Epidemics, environment, and community health challenges, including educational, political, environmental, regulatory, and organizational factors that support health of population groups and communities.

#### P H 290. Health Professions and Organizations (3)

Prerequisite: Credit or concurrent registration in Public Health 101. Open only to pre-health science majors and minors.

Health organization and agencies, locally, regionally, nationally, and internationally. Types of public health settings, and responsibilities in different types of health careers and public health positions.

#### P H 294. Substance Abuse and Public Health (3)

Prerequisite: Public Health 290. Open only to pre-health science majors.

Threats to public health by use and abuse of psychoactive drugs including alcohol, nicotine, cannabis, hallucinogens, narcotics, designer and prescription drugs; trends in prevention, treatment and early intervention programs with legal, historical, and political aspects of addiction.

#### P H 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### P H 301. Foundations and Practice of Public Health (3)

Prerequisites: Public Health 101 and 290 with grades of B or better. Open to health science majors and minors.

Organization of public health field, role of government and voluntary agencies in protecting and promoting health of individuals, groups, and communities.

#### P H 302. Communicable and Chronic Disease (3)

Prerequisites: Credit or concurrent registration in Public Health 301. Open to health science majors and minors.

Impact of infectious and chronic diseases on health of the population. Epidemiologic methods, behavioral and biologic determinants, modes of transmission, and risk factors.

#### P H 303. Health Behavior in Community Settings (3)

Prerequisites: Public Health 301 and 302.

Behavior change theory, principles, predictive models, and their application to health behavior change programs. Review of research methods related to individuals and communities. Analysis of major health behavior change programs.

#### P H 304. Environment and Public Health (3)

Prerequisites: Public Health 301 and 302.

Environmental hazards of living and working in both industrialized and lesser developed societies. Chemical, biological, and physical agents in food, air, water, and soil.

#### P H 305. Medical Care Organization and Delivery (3)

Prerequisites: Public Health 301 and 302.

Organizational, economic, financial, political, and cultural factors affecting finance and delivery of health and medical services in the U.S. Topics include insurance, managed care, reimbursement, private and public programs, and regulation.

#### P H 331. Emergency Preparedness and Disaster Response (3)

Prerequisites: Public Health 301 and 302.

Roles and responsibilities of public health in disaster preparation, mitigation, planning, and response to epidemics, pandemics, natural disasters and bioterrorism, includes disaster assessment, surveillance, risk management, and principles of disaster planning.

#### P H 345. Injury Prevention (3)

Prerequisites: Public Health 301 and 302.

Epidemiology of traumatic injury within developmental, social, legislative, economic, and political contexts. Behavioral dilemmas in injury prevention and risk management.

#### P H 353. Human Sexuality and Disease (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Development of sexual values, attitudes, and behaviors across ages, including evolution and occurrence of sexually transmitted infections worldwide. Focus on biological, medical, psychological, sociocultural, and political factors. Not open to students with credit in Community Health Education 475.

#### P H 362. International Health (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Population dynamics, vital statistics, global disease patterns, and analysis of variations among nations and cultures with respect to health problems and health care services.

#### P H 402. Public Health Communications (3)

Prerequisites: Public Health 303. Open only to health science majors.

Effective communication techniques used in public health campaigns, social marketing, and risk communication. Use of technology to design and conduct public health campaigns which focus on recognizing and overcoming communication barriers, including cross-cultural issues.

#### P H 450. Public Health Policy (3)

Prerequisite: Public Health 302. Recommended: Public Health 305.

Political, economic, cultural, institutional, and social factors influencing development and implementation of policy. U.S. and international private and public health organizations and their roles in shaping health policy. Public health advocacy by organizations.

#### P H 490A. Health Data Analysis (3)

Prerequisite: Public Health 302.

Identifying, retrieving, and using health data, with emphasis on statistical applications and interpretation of results for changing policy and health programs.

#### P H 490B. Planning Public Health Programs (3)

Prerequisites: Public Health 303 and 490A.

Public health programming models, including community needs assessment, goals, objectives, and strategies for effective public health interventions. Preparation of grant proposals.

P H

## Public Health

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### **P H 490C. Public Health Program Evaluation (3)**

Prerequisite: Public Health 490B.

Quantitative and qualitative evaluation methods in public health programs.

### **P H 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### **P H 497. Supervised Specialization in Public Health (1-6)**

Prerequisites: Senior standing in public health and Public Health 304, 305, 402, 490B.

Tailored experience in one of three areas of specialization selected in consultation with major adviser: Preprofessional, Research, or Practice. Maximum credit six units.

### **P H 499. Special Study (1-3)**

Prerequisite: Consent of special study adviser.

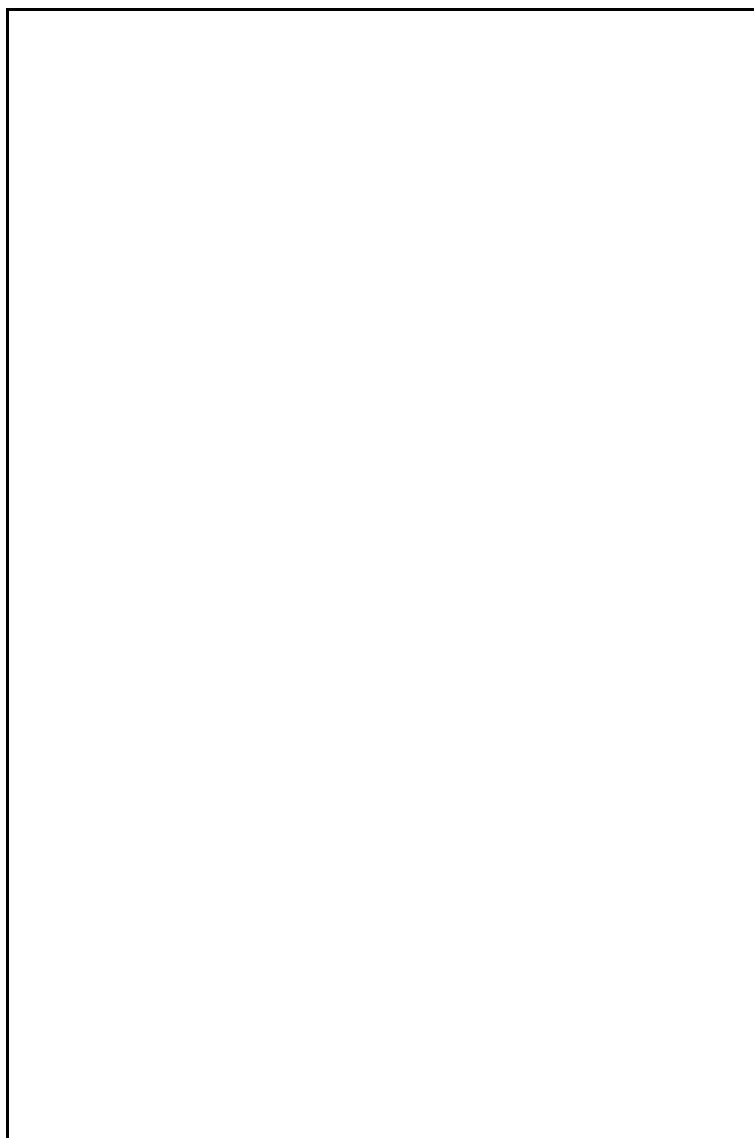
Individual study. Maximum credit six units.

### **GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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# Recreation and Tourism Management

In the School of Hospitality and Tourism Management  
In the College of Professional Studies and Fine Arts

**OFFICE: Professional Studies and Fine Arts 436**  
**TELEPHONE: 619-594-4964 / FAX: 619-594-4443**

Accredited by the National Recreation and Parks Association.

## Faculty

Emeritus: Duncan, Hanson, Hutchinson, Lamke, Peterson, Rankin  
Director: Winston  
Academic Program Coordinator: Sasidharan  
Professors: Beck, Dixon, Gattas  
Associate Professor: Sasidharan  
Assistant Professor: Ponting  
Lecturers: Hemmens, Lustig

## Offered by the School of Hospitality and Tourism Management

Major in recreation administration with the B.S. degree in applied arts and sciences.

- Emphasis in outdoor resource management.
- Emphasis in recreation systems management.
- Emphasis in sustainable tourism management.

Minor in recreation.

## The Major

A commitment to working with people to enhance the quality of their lives is important to a study of recreation and tourism.

Increasingly diverse opportunities are available in the recreation and tourism profession. The major offers a sufficiently wide range of courses for students who may wish to enter diverse recreation, tourism, or human services fields.

Students in this major elect one of three areas of emphasis. The outdoor resource management emphasis stresses conservation, natural science, ecology, and recreation/park administration. Society's efforts to sustain a balance between the environment and recreational use are studied. Graduates find employment as naturalists, outdoor education specialists, outdoor resource management planners, park interpreters, and park rangers.

Recreation systems management stresses the effective organization, administration, and supervision of recreation, park, and tourism agencies, both public and private. Graduates find employment as administrators and supervisors with public, private or commercial park and recreation agencies. They assume professional positions with youth and family serving agencies, private clubs and condominium associations, a variety of leisure related businesses including tourism agencies, and municipal, county, and state organizations.

Sustainable tourism management prepares students to work in tourism, recreation, cultural, natural resource, and sports settings. It stresses the cultural and ecological tourism leadership needs of new tourism professionals by emphasizing the linkages between the economic, environmental, and social (including cultural and political) spheres and involves an interdisciplinary approach. Students learn about assessment, programming, and evaluation for planning and management of sustainable tourism businesses. Graduates find employment as managers and directors with transportation agencies, destination management organizations, travel and tour companies, tourism attractions, leisure, recreation, and sports organizations, cultural industries, adventure and ecotourism services, and lodging enterprises.

The sustainable tourism management emphasis requires international experience. Refer to the international experience section under the requirements for the Emphasis in Sustainable Tourism Management.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Recreation Administration Major

**With the B.S. Degree in Applied Arts and Sciences**  
**(Major Code: 21031)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

The major in recreation administration must be planned with an emphasis in outdoor resource management, recreation systems management, or sustainable tourism management.

A minor is not required with this major.

### Emphasis in Outdoor Resource Management (SIMS Code: 667751)

**Preparation for the Major.** Recreation and Tourism Management 101, 107, 284; Biology 100 or 101; Geography 102, 104; Geological Sciences 100, 101; Oceanography 100. (27 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 57 upper division units to include Recreation and Tourism Management 304, 305, 351, 404, 469, 470, 485, 487, 489, 498 (12 units); Biology 315, 327; Geography 370; nine units selected from Geography 570, 572, 575; Geological Sciences 301; Recreation and Tourism Management 483, 484, 496 (other upper division courses may be substituted with approval of the adviser).

### Emphasis in Recreation Systems Management (SIMS Code: 667765)

**Preparation for the Major.** Recreation and Tourism Management 101, 107, 284; Information and Decision Systems 180; Psychology 101; Sociology 101; and six units selected from Economics 101, 102; Finance 240; Hospitality and Tourism Management 223. (25 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 51 upper division units to include Recreation and Tourism Management 304, 305, 404, 468, 469, 470, 498 (12 units); Psychology 340 or Sociology 355; nine units selected from Recreation and Tourism Management 340, 351, 483, 475, 489; Hospitality and Tourism Management 430, 433, 435; and nine units selected from Management 350, 352; Marketing 370; Public Administration 350; Sociology 444.

RTM

### Emphasis in Sustainable Tourism Management (SIMS Code: 667766)

**Preparation for the Major.** Recreation and Tourism Management 101, 284; Accountancy 201; Economics 101, 102; Geography 101, 101L, 102; Hospitality and Tourism Management 223. (25 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Recreation and Tourism Management 396W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All majors in the sustainable tourism management emphasis are required to complete an international experience requirement. To meet this requirement, majors must complete one of the following with the preapproved and written consent of the undergraduate adviser:

1. International Field Trip;
2. International Internship;
3. International Student Exchange;
4. CSU Study Abroad Program;
5. International Professional Engagement.

Scholarships are available for the International Experience. The International Experience should meet the student learning outcomes of the emphasis in sustainable tourism management.

**Major.** A minimum of 51 upper division units to include Recreation and Tourism Management 304, 404, 413, 470, 477, 487, 498 (12 units); and 21 units selected from five competency areas. At least three units must be selected from each of the following five competency areas:

- (1) *Environmental Sustainability:* Biology 315; Geography 370, 409.
- (2) *Social/Cultural Sustainability, Social Justice, and Equity:* Recreation and Tourism Management 351; Hospitality and Tourism Management 370; International Security and Conflict Resolution 301; Philosophy 332.
- (3) *Economic Sustainability:* Economics 452, 453; Hospitality and Tourism Management 450.
- (4) *Sustainable Development:* Environmental Engineering 320; Political Science 334.
- (5) *Field Application:* Recreation and Tourism Management 305, 469, 489.

### Recreation Minor (SIMS Code: 667701)

The minor in recreation consists of a minimum of 15 units to include Recreation and Tourism Management 101, 304, 305 or 487, 404, and three additional upper division units selected from Recreation and Tourism Management 351, 469, 470, 475, 484, 489, 499.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (RTM)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### RTM 101. Recreation and Tourism Management (3)

Role of recreation and tourism systems in contemporary society. History and philosophy, scope of services, facilities, programs, personnel, and evaluation. (Formerly numbered Recreation 101.)

#### RTM 107. Recreation Programming and Leadership (4)

Three lectures and three hours of laboratory.

Theories, principles, and techniques of group leadership, group dynamics, communication, problem-solving, creativity, program planning, and publicity as they relate to selected recreation systems. Student ePortfolio is initiated. (Formerly numbered Recreation 107.)

#### RTM 284. Supervised Field Work (3) Cr/NC

Prerequisites: Consent of instructor or department chair and 125 hours experience in recreation leadership.

Observation and participation in community recreation leadership. Practical experience in a variety of recreational settings. Eight hours per week at an agency. (Formerly numbered Recreation 284.)

#### RTM 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### RTM 304. Leisure and Tourism (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Study of leisure and its impact on contemporary life; issues affecting recreation in today's urbanized society. (Formerly numbered Recreation 204, 304.)

#### RTM 305. Wilderness and the Leisure Experience (3) [GE]

Prerequisites: Biology 100 or 101; and completion of the General Education requirement in Foundations of Learning II. B., Social and Behavioral Sciences.

Values of protected landscapes to individuals and society. Scientific, political, international, and ethical dimensions of natural landscapes. Implications for protection, visitor management, and sustainable tourism. (Formerly numbered Recreation 205, 305.)

#### RTM 340. Conduct of Recreational Sports (3)

Three lectures plus outside practical experience in the conduct of recreational sports programs.

Organization of competition, community sports programs, administration of intramural athletics, and techniques of officiating. (Formerly numbered Recreation 340.)

#### RTM 351. Recreation Therapy and Special Populations (3)

Sociopsychological aspects of special populations and their implications for leisure pursuits. Field trips may be included. (Formerly numbered Recreation 351.)

#### RTM 361. Scientific Foundations of Recreation Therapy (3)

Prerequisite: Recreation and Tourism Management 351 required for recreation majors; open to others with consent of instructor.

Theoretical principles of therapy and prevention. Survey of medical and psychiatric pathology and terminology. (Formerly numbered Recreation 361.)

#### RTM 371. Professional Foundations of Recreation Therapy (3)

Prerequisite: Recreation and Tourism Management 351 required for recreation majors; open to others with consent of instructor.

Analysis of present-day policies, programs, implementation and future aspects of professional principles of recreation therapy. (Formerly numbered Recreation 371.)

#### RTM 396W. Writing in Recreation Settings (3)

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Theory and practice of writing in the field of recreation and parks with application to various settings. (Formerly numbered Recreation 396W.)

#### RTM 404. Cross-Cultural Perspectives of Tourism (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences.

Concepts, definitions, and measures of essential cultural components of tourism. Integrated view of interrelated socio-cultural tourism issues with an understanding and appreciation of diverse cultures. (Formerly numbered Recreation 404.)

**RTM 413. Cultural Tourism (3)**

Two lectures and two hours of activity.

Prerequisite: Recreation and Tourism Management 470.

Concepts of cultural tourism and cultural heritage management. Strategies for planning of cultural tourism resources and for development of cultural tourism initiatives. Evaluating tourism potential of cultural or heritage assets. (Formerly numbered Hospitality and Tourism Management 413.)

**RTM 468. Marketing, Financing, and Assessment in Recreation and Tourism Management (3)**

Prerequisite: Recreation and Tourism Management 475.

Marketing, financing, and assessment specifically related to recreation and tourism management to include services development, pricing, promotion, distribution; budget development, revenue generation, assets management, controls; evaluation and research process as they relate to service development and delivery.

**RTM 469. Administration and Operation of Recreation and Tourism Agencies (3)**

Prerequisite: Recreation and Tourism Management 470 or 475.

Administrative and operational aspects of managing and leading in recreation and tourism agencies to include liability, risk management, administrative regulations; information/decision systems in organizations; strategic planning; operation of facilities/areas; human resource functions related to successful service delivery.

**RTM 470. Global Sustainable Tourism Management (3)**

Prerequisite: Recreation and Tourism Management 101 or Hospitality and Tourism Management 201.

Global tourism management, economics, development and sustainability. Social, cultural, and environmental impact indicators and management tools for sustainable development. (Formerly numbered Recreation 470.)

**RTM 475. Commercial Recreation and Attractions Management (3)**

Analysis of commercial recreation field, including design, development, programming and marketing aspects of various commercial recreation enterprises. (Formerly numbered Recreation 475.)

**RTM 477. Sustainable Tourism Planning (3)**

Prerequisite: Recreation and Tourism Management 101.

Nature and scope of sustainable tourism planning. Approaches, principles, and processes for creating sustainability value in tourism. Sustainability assessment and corporate social responsibility for tourism amenities, attractions, services, transportation and facilities. (Formerly numbered Recreation 477.)

**RTM 483. Outdoor Education and Camp Administration (3)**

Prerequisite: Recreation and Tourism Management 101.

Philosophy, theory, methods, application, and scope of outdoor education in recreation and ecotourism camp settings. Management of resident, day, and travel camps. (Formerly numbered Recreation 450.)

**RTM 484. Directed Leadership (3) Cr/NC**

One lecture and eight hours of supervised activity.

Prerequisite: Recreation and Tourism Management 284.

Supervised leadership experience in public and private recreation agencies. Maximum credit six units. (Formerly numbered Recreation 484.)

**RTM 485. Outdoor Recreation Planning and Policy (3)**

Nature and scope of recreation in nonurban areas. Public demand for recreation and its impact on natural resources. Management, planning, research and operation of regional and national park and recreation areas. (Formerly numbered Recreation 485.)

**RTM 487. Environmental and Cultural Interpretation (3)**

Prerequisite: Recreation and Tourism Management 101.

Philosophy, theory, methods, application, and scope of cultural interpretation in recreation and tourism settings. (Formerly numbered Recreation 487.)

**RTM 489. Outdoor Leadership and Adventure Programming (3)**

Prerequisite: Recreation and Tourism Management 305.

Theoretical principles and experience in leadership, judgment, and decision making in outdoor adventure programming. (Formerly numbered Recreation 489.)

**RTM 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**RTM 498. Internship in Recreation and Tourism Management (6 or 12) Cr/NC**

Twenty off-campus hours required per week for 6-unit program, or 40 off-campus hours required per week for 12-unit programs.

Prerequisites: Consent of instructor or department chair, completion of all required lower division recreation courses, and completion of both Standard or Multimedia First Aid certificate and CPR certificate by end of semester.

For six unit internship: 250 hours of professional work experience in recreation and tourism management. For 12 unit internship: 500 hours required Credit for course requires completion of ePortfolio. Maximum credit 12 units. (Formerly numbered Recreation 498.)

**RTM 499. Special Study (1-3)**

Prerequisite: Consent of special study adviser.

Individual study. Maximum credit six units.

RTM

**UPPER DIVISION COURSE  
(Also Acceptable for Advanced Degrees)**

**RTM 575. Designing Recreation and Park Areas and Facilities (3)**

Prerequisite: Recreation and Tourism Management 101.

Design principles and concepts applied to planning and development of park and recreation areas and facilities. (Formerly numbered Recreation 575.)



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# Regulatory Affairs

In the Center for Bio/Pharmaceutical and Biodevice Development  
and the College of Sciences

**OFFICE:** Physical Sciences 101  
**TELEPHONE:** 619-594-6030 / **FAX:** 619-594-6132  
**E-MAIL:** [cbdd@sciences.sdsu.edu](mailto:cbdd@sciences.sdsu.edu)  
**<http://interwork.sdsu.edu/cbdd/regaffairs/regaffairs.htm>**

## Faculty Members of the Center for Bio/Pharmaceutical and Biodevice Development

\*E. Dale Sevier, Ph.D., Director of the Center for Bio/Pharmaceutical  
and Biodevice Development

\*Serves on the Faculty Governing Board which makes recommendations on  
admissions and curriculum.

### Offered by Regulatory Affairs

Master of Science degree in regulatory affairs.

Certificate in regulatory affairs, advanced  
(refer to the *Graduate Bulletin*).

## Course (R A)

*Refer to Courses and Curricula and University Policies sections of  
this catalog for explanation of the course numbering system, unit or  
credit hour, prerequisites, and related information.*

### UPPER DIVISION COURSE (Intended for Undergraduates)

#### **R A 460. Healthcare Product Regulations (1)**

Healthcare product regulation of pharmaceutical, biotechnology,  
and biodevice industries. Foundational knowledge of U.S. Food and  
Drug Administration and laws and regulations they are responsible for  
enforcing.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Religious Studies

In the College of Arts and Letters

**OFFICE:** Arts and Letters 662

**TELEPHONE:** 619-594-5185 / **FAX:** 619-594-1004

**E-MAIL:** [mbolthou@mail.sdsu.edu](mailto:mbolthou@mail.sdsu.edu)

**<http://religion.sdsu.edu>**

## Faculty

Emeritus: Anderson, Downing, Friedman, Gefter, Jordan, Khalil, Sparks

Chair: Moore

Professors: Frost, Holler, Levitt, Moore

Associate Professors: Mohammed, Timalisina

Assistant Professor: Hansen

Lecturers: Kelly, Stewart, Swayd, Whitaker

## Offered by the Department

Major in religious studies with the B.A. degree in liberal arts and sciences.

Minor in religious studies.

## The Major

The academic study of religion is central to the creation of a community of world citizens. Our program is designed for students who live in a pluralistic society and who wish to investigate the role religions play in human life and society. Because religion has shaped the human story of almost every culture, it is difficult to understand human behavior or to interpret world events without grasping how religion has helped to determine them. As United States Supreme Court Justices Clark and Goldberg wrote in their decision allowing the study of religion in public schools, "one's education is not complete without a study of comparative religion or the history of religion and its relationship to the advancement of civilization." Part of the liberal arts, religious studies employs critical analysis and methods from a variety of disciplines to understand religious traditions as well as to question the dogmas, stereotypes, and prejudices that may surround those traditions. In addition to investigating religious symbols, texts, practices, and belief systems, the study of religion examines the relationship of religion to ethics, contemporary social issues, politics, history, psychology, science, literature, and the arts.

### Career Outlook

Religious studies prepares students for any career that requires critical thinking, analysis, oral and written communication skills, and the ability to reflect on questions of meaning and value. The study of religion is excellent pre-professional preparation for fields such as law, teaching, medicine, counseling, social work, conflict resolution, international business, foreign service, journalism, various ministries and other careers in non-profit organizations and public service. While some of our majors go on to do graduate work in religion or related academic fields, other graduates find themselves well prepared for careers requiring imagination, problem solving, communication, self-understanding, and awareness of human diversity.

### Double Majors and The Minor

Because religious studies is interdisciplinary and multicultural it is an excellent degree to complement many other majors. Double majors are easily accommodated within a well-designed four-year course of study, since the religious studies major has only a 36-unit requirement. Graduates from the program have had double majors with biology, communication, history, psychology, and other fields where the study of religion enhances or focuses the second major. The 15-unit minor is a less ambitious way to combine your major interests with the academic study of religion. Anyone who is interested in human beliefs, behavior, and values would benefit from a minor in religious studies.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/myrmap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Religious Studies Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 15101) (SIMS Code 116101)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in religious studies courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Religious Studies 101; Religious Studies 100 or 103. (6 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** The department encourages international experience for its majors. It will facilitate the transfer of religious studies credits for appropriate study abroad, student exchange, or other overseas programs. International internships may also receive religious studies credit, if approved in advance by a department adviser.

**Major.** A minimum of 30 upper division units in religious studies to include Religious Studies 400 and at least three units from Sacred Texts, nine units from World Traditions, nine units from Religion, Society, and Culture, three units from Religion in the Americas, and three additional units selected from any of the four areas.

**Area 1, Sacred Texts:** Religious Studies 301, 305, 310, 315. (3 units)

**Area 2, World Traditions:** Religious Studies 320, 325, 328, 335, 338, 339, 340, 342, 345, Philosophy 351, 412\*. (9 units)

**Area 3, Religion, Society, and Culture:** Religious Studies 330, 341, 350, 353, 358, 363, 364, 370, 373, 376, 379, Philosophy 535\*, Sociology 338\*, Women's Studies 515\*. (9 units)

**Area 4, Religion in the Americas:** Religious Studies 390A, 390B, 395, 530, American Indian Studies 470. (3 units)

Courses with variable content (496, 581, 582, 583, 596) may be used in the four areas of study when deemed relevant by the department adviser.

\* Additional prerequisites required.

## Religious Studies Minor

**(SIMS Code: 116101)**

The minor in religious studies consists of a minimum of 15 units taken in the Department of Religious Studies to include at least three lower division units and 12 upper division units.

REL S

**International Experience.** The department encourages international experience for students in the religious studies minor. It will facilitate the transfer of religious studies credits for appropriate study abroad, student exchange, or other overseas programs. International internships may also receive religious studies credit, if approved in advance by a department adviser.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (REL S)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### REL S 100. Exploring the Bible (3) [GE]

Basic content and themes of the Hebrew Bible and New Testament using methods of contemporary biblical studies. Attention to ancient Near Eastern and Greco-Roman cultural settings as well as the impact of the Bible on contemporary culture.

#### REL S 101. World Religions (3) [GE]

Major world and selected tribal traditions from primal times to present. Broad historical development and philosophical overview including founders, teachings, beliefs, practices, and interactions with culture, such as art, literature, politics.

#### REL S 103. American Religious Diversity (3) [GE]

Religious identities and traditions of diverse peoples living in the US. Major world religions in context of contemporary multicultural America. Religions of indigenous peoples and religious movements which have arisen in US.

#### REL S 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### Area 1: Sacred Texts

#### UPPER DIVISION COURSES (Intended for Undergraduates)

#### REL S 301. Hebrew Bible (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literature, history, major themes of Bible; methods and concerns of contemporary biblical studies. Situates folkloric, political, heroic, poetic, and religious meanings of texts among their original audiences.

#### REL S 305. The New Testament (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Structure, composition, meaning of New Testament; methods for interpreting Biblical texts. Focus on letters of Paul, post-Pauline writings, Gospel accounts of Jesus's life.

#### REL S 310. The Qur'an (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Major themes of Qur'an including cosmology, eschatology, good and evil, gender, God and monotheism, People of the Book (Jews and Christians), and role of religion in society. Attention to historical period in which the Qur'an was compiled.

#### REL S 315. Sacred Texts of South Asia (3)

Prerequisite: Three units of religious studies.

Primary texts from sacred literatures of Hinduism, Buddhism, Jainism, and Sikhism. Methods of interpretation, issues of translation, and placement of sacred texts in their social and historical contexts.

### Area 2: World Traditions

#### UPPER DIVISION COURSES (Intended for Undergraduates)

#### REL S 320. Judaism (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Jewish history, culture, theory, and practice. Biblical roots of modern Jewish beliefs, basic movements within modern Judaism; Jewish calendar and Jewish life cycle as seen in Hebrew Bible, short stories, and films.

#### REL S 325. Christianity (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Historical development of Christian traditions and major issues confronting Christianity today. Beliefs and practices important to Christian self-understanding, debates over authority of Bible, accommodations to modern science, and relationship with non-Christian religions.

#### REL S 328. Islam (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Islamic religion and culture in Asia, Africa, and Near East. History, doctrines, practices, literatures, social and intellectual movements, role of Mohammed, and gender relations within Islam as understood in global context.

#### REL S 335. Comparative Mysticism (3)

Prerequisite: Three units of religious studies.

Meaning, origin, and development of mysticism. Purgation, illumination, annihilation, separation, covenant, and union of soul with the Divine as found in world scriptures, writings of prominent mystics, and mystical movements such as Kabbalists, Sufis, and yogic traditions.

#### REL S 338. Buddhism (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Life and teachings of Buddha, foundational concepts of Theravada, Mahayana, and Vajrayana Buddhism. Buddhist psychology and soteriology, meditative techniques, ethical issues; contemporary Buddhism, particularly in America.

#### REL S 339. Religions of India (3) [GE]

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Religious pluralism of Indian sub-continent. Influences of Hinduism, Buddhism, Jainism, Islam, and Sikhism upon each other and social structures of gender, race, and caste. Karma and rebirth, liberation theories and practices, the interaction of mainstream religions with minority and indigenous tribal rituals and beliefs.

#### REL S 340. Daoism and Chinese Religions (3)

Prerequisite: Three units of religious studies.

Daoist tradition in context of Chinese popular religions. Early Daoist communities, texts, practices covered. Themes include body and cosmos, magical medicine, immortality practice, ritual, and relationship between classical and popular religious traditions.

#### REL S 342. Hinduism (3)

Prerequisite: Three units of religious studies.

Historical development of Hinduism from its Harappan and Vedic origins to contemporary times. Hindu myths and rituals, gods and goddesses, art, architecture and sacred geographies; Hindu philosophies and ascetic traditions, yogas and tantras; modern Hinduism, diaspora Hinduism and Indian nationalism.

**REL S 345. Religions of East Asia (3) [GE]**

Prerequisite: Three units of religious studies. Recommended: Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Confucianism, Taoism, and Buddhism in broad historical and cultural context. Focus on Chan (Zen) school of Buddhism, Confucius, neo-Confucianism of Ju Xi, and Taoist masters Lao Ze and Chuang Ze.

**Area 3: Religion, Society, and Culture**

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**REL S 330. Abrahamic Faiths: Shared Stories (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Theological, textual, and political relations among Judaism, Christianity, and Islam. Shared religious practices and stories such as creation, sacrifice, theories of evil and salvation, prophecy and Messianic expectations. Contemporary issues regarding gender, fundamentalism, and rise of nationalism.

**REL S 341. Religion in Japanese Culture (3)**

Prerequisite: Three units of religious studies.

Historical analysis of major components of classical, medieval, early modern and modern religious systems of Japan through texts, images, rituals, and institutions.

**REL S 350. Varieties of Religious Experience (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Nature and scope of religious experience; transformations of consciousness and self through altered modes of human awareness and mind-body relationships. Yogic and ascetic experience, Shamanic trance and spirit possession, ecstatic experience and mysticism. Techniques of compassion.

**REL S 353. Religion and Psychology (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Religious dimensions of psyche using insights from academic and transpersonal psychology. Construction of religious identities through spiritual practice and transformation. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units of which three units may be applicable to General Education.

**REL S 358. Death, Dying, and Afterlife (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Diverse ways religions deal with process of dying and rituals involved in transition of life to death. Grieving, end-of-life decisions, views on afterlife.

**REL S 363. Religion and the Sciences (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Views of science and religion as separate, conflicting, complementary, and overlapping. Galileo and the Church, the Scopes Trial, and twentieth century physics provide historical examples for study of assumptions about science and religion.

**REL S 364. Religion and Film (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Representations of religion in modern cinema and analysis of how religious themes and imagery in film reflect societal values, beliefs, and morals.

**REL S 370. Women in Religion (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Women's contributions to and transformations of mainstream and marginal religions, including ancient goddess worship and modern witchcraft, indigenous religions, and major world religions. Spiritual questions and quests of contemporary women.

**REL S 373. Women and the Bible (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Narrative, legal, and poetic material about women in Bible. How women are depicted by authors of Bible, lives of women in ancient world, how women and women's studies are transforming biblical studies.

**REL S 376. Nature, Spirituality, Ecology (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Cross-cultural religious views of nature. Attention to sacred texts, writings of naturalists, deep ecologists, and ecofeminists on place of nature in spirituality and role of spirituality in ecology.

**REL S 379. Religious Violence and Nonviolence (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Role of religion in terrorism, hate groups, scapegoating, domestic and ecological violence, versus role of religion in peacemaking and movements for social justice. Nonviolent philosophies of Gandhi, Martin Luther King, Jr., and pacifism in Jain, Buddhist, and Christian traditions.

**Area 4: Religion in the Americas**

REL S

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**REL S 390A-390B. Religion and American Institutions (3-3) [AI]**

Prerequisite: Three units of religious studies.

Major religious movements, events, and issues affecting development of US government and institutions. Religious Studies 390A: From time of Spanish contact to 1900. Religious Studies 390B: Religion's impact in twentieth century. This year-long course satisfies the graduation requirement in American Institutions.

**REL S 395. New Religions (3) [GE]**

Prerequisites: Three units of religious studies and completion of the General Education requirement in Foundations of Learning II. C., Humanities for nonmajors.

America's alternative religions, popularly called "cults" and why they attract spiritual seekers. New religions and transplanted Asian and African religions. Theoretical structures of belief systems and concrete specifics on different groups.

**Elective Courses**

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**REL S 400. Senior Seminar (3)**

Prerequisite: Religious studies major with more than 90 units; others with consent of department chair.

Senior capstone seminar in major. Discussion and research on topics in religious studies. Formal research paper and presentation.

**REL S 496. Experimental Topics (1-4)**

Prerequisite: Three units of religious studies.

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**REL S 499. Special Study (1-3)**

Prerequisite: Twelve upper division units in religious studies. Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**REL S 530. Religion and Revolution (3)**

Prerequisite: Three units of religious studies.

Twentieth century liberation movements in their religious expression, from 1960s Latin America through Black theology, feminist theology, eco-theology, and queer theology. International religious liberation movements, particularly in Africa and the Americas.

**REL S 580. Major Figure (3)**

Prerequisite: Three units of religious studies.

Life, works, and significance of one major figure in a religious tradition. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**REL S 581. Major Theme (3)**

Prerequisites: Three units of religious studies and upper division or graduate standing.

Advanced systematic study of a theme or motif selected from major religious traditions. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**REL S 582. Major Text (1-3)**

Prerequisites: Three units of religious studies and upper division or graduate standing.

Advanced systematic study of a selected scripture or classic text(s) selected from one of the major religious traditions. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**REL S 583. Major Tradition (3)**

Prerequisites: Three units of religious studies and upper division or graduate standing.

Advanced systematic study of the doctrines, practices, and development of a major religious tradition. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**REL S 596. Advanced Topics in Religious Studies (1-3)**

Prerequisite: Consent of instructor.

Advanced selected topics in religious studies. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

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# Rhetoric and Writing Studies

In the College of Arts and Letters

**OFFICE: Adams Humanities 3138**

**TELEPHONE: 619-594-6515 / FAX: 619-594-6530**

## Faculty

Emeritus: Hindman, Johns, Miller, Sweedler-Brown

Chair: McClish

Professors: McClish, Ornatowski

Associate Professors: Bekins, Bordelon, Boyd, Poole, Quandahl, Robinett, Werry

Assistant Professor: Miniffee

Lecturers: Annicchiarico, Barhoum, Bissegger, Boeck, Borgen, Brown, Brush, Bryson, Cavender, Copeland, Costello, Davies-Morris, Dill, Emery, Fielden, Fimbres, Finn, Fish, Goodman, Groza, Hoffman, Holslin, Kinkade, Kline, Linfor, Mack, Madden, Maggio, Manley, Merriam, Morgan, Nerhan, Owens, Renner, Sager, Sherman, Sigmon, Stagnaro, Taylor, Tempelton, Thompson, Towner, Underwood, Vanderpot, Williams, J., Williams, T.

## Offered by the Department

Master of Arts degree in rhetoric and writing studies.

Minor in rhetoric and writing studies.

Certificate in professional writing.

Certificate in advanced teaching of writing  
(refer to the *Graduate Bulletin*).

## General Information

The Department of Rhetoric and Writing Studies offers writing programs at all levels for university students. The department works cooperatively with other academic departments and campus groups to plan and develop a comprehensive writing program integrating writing and reading with critical thinking throughout the curriculum.

**Developmental Writing Program:** Developmental writing courses in this program prepare students to satisfy SDSU's competency requirements in written English. For more information, refer to "Writing Requirements" in the "Graduation Requirements" section of this catalog.

**General Education Program:** Completion of courses in this program fulfills the "Written Communication" requirements for the Communication and Critical Thinking portion of the SDSU General Education program.

**Upper Division Courses:** The department offers expository writing ("W") courses which satisfy the university's Graduation Writing Assessment Requirement. The department also offers a required course in the teaching of composition for students in the Single Subject Teaching Credential in English degree program.

## Rhetoric and Writing Studies Minor

**(Minor Code: 15013) (SIMS Code: 112220)**

Designed for students from across the disciplines, the minor in Rhetoric and Writing Studies provides students with an enhanced awareness of the central role of language and textual practices in every discipline. Thus, both students who want to improve their critical reading, writing, and thinking skills, as well as students interested in pursuing graduate work or entering more writing-intensive professions, will benefit from the minor. The minor includes three core courses intended to introduce students to the study of rhetoric, which incorporates a broad range of topics, including rhetorical theory, cultural rhetoric, and literacy and technology. The minor is also interdisciplinary in nature and includes coursework in rhetoric, communication, linguistics, and education. Students select the courses that best suit their future career and educational goals.

While virtually all professions are enhanced by skills in writing, critical reading, and analytical thinking, the minor is particularly beneficial to students seeking careers in areas such as law, politics, journalism, business, science, engineering, public administration, and education.

The minor in rhetoric and writing studies consists of a minimum of 15 upper division units. The first two strands, *Literacies and the Teaching of Writing* and *Rhetoric*, require Rhetoric and Writing Studies 500W, 510, 511 as the core courses and six units selected from one of two strands. The *Professional Writing* strand requires two of the three core courses (Rhetoric and Writing Studies 500W, 510, 511) and nine units selected from the *Professional Writing* strand.

**Literacies and the Teaching of Writing:** Rhetoric and Writing Studies 509, Education 451, Linguistics 430\*, 530\*, or 550\*.

**Rhetoric (Limited to majors and minors within the School of Communication):** Communication 441\*, 446\*, 450\*, 470\*, 482\*, 492\*, 508\*, Journalism and Media Studies 589\*.

**Professional Writing:** Rhetoric and Writing Studies 305W, 501, 503W, 504, 505, 506, 507, or 508W.

A minimum of six upper division units must be completed in residence at San Diego State University. In designing the minor, students may not include courses drawn from their major department.

\* Additional prerequisites required.

## Certificate in Professional Writing

**(Certificate Code: 90053) (SIMS Code: 112298)**

The purpose of this certificate program is to prepare students for careers in professional writing, or for other careers where advanced writing and document design skills are desirable. The program is designed both for students working on degrees in technical or non-technical fields and for professionals seeking career advancement or change.

Applicants to the program must have excellent general writing skills (in specific cases, applicants may be required to take additional coursework to improve writing proficiency) and basic computer literacy.

Students in the program complete 21 units of coursework approved by the director of the program. A minimum grade point average of 3.0 or better must be maintained in certificate coursework, with no less than a C grade in any course. All courses completed with a grade of B or better are applicable to the Master of Arts degree in rhetoric and writing studies with a specialization in technical and professional writing. For further information, contact the Department of Rhetoric and Writing Studies.

**Required courses** (9 units):

RWS 503W Professional Writing (3)  
RWS 504 Advanced Professional Writing (3)  
RWS 505 Writing Project Management (3)

**Recommended Electives:** (12 units)

RWS 501 Editing (3)  
RWS 506 Writing Internship (3) Cr/NC  
RWS 507 Professional Communication in Nonprofit Organizations (3)  
RWS 508W Scientific Writing (3)  
RWS 511 Literacy, Rhetoric, and Technology (3)

Other electives may be selected with the approval of the program director. A maximum of six units of transfer credit may be applied to the program. Students should consult with the program director before selecting any courses so that an individualized program of study can be developed.

RWS

### Courses (RWS)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSES (Non-Baccalaureate Credit)

**NOTE:** Rhetoric and writing studies courses numbered below 100 may not be used to satisfy graduation requirements.

#### RWS 92A. Developmental Writing: Fundamentals of Writing (3) Cr/NC/RP

Prerequisite: A score of 142-150 on the EPT.

Academic prose, emphasizing purpose, structure, and style of academic essays. Designed to improve student skills in planning, drafting, revising, editing essays. Open to students who have scored between 142-150 on the EPT and who have not satisfied the SDSU lower division writing competency requirement. Students attaining a score of 8 or better on the final examination will earn a grade of "Cr" and satisfy the SDSU writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of "RP" (Report in Progress). Students receiving an "RP" grade should enroll in Rhetoric and Writing Studies 92B. Not open to students with credit in Rhetoric and Writing Studies 97. Rhetoric and Writing Studies 92A is equivalent to Rhetoric and Writing Studies 97.

#### RWS 92B. Developmental Writing: Intermediate (3) Cr/NC

Prerequisite: Open only to students who have earned "RP" (report in progress) in Rhetoric and Writing Studies 92A but have not satisfied the Writing Competency requirement.

Evaluation based on student writing portfolio. Credit in Rhetoric and Writing Studies 92B satisfies the SDSU writing competency requirement.

#### RWS 94. Developmental Writing for International or Bilingual Students (3) Cr/NC/RP (Same course as Linguistics 94)

Intermediate written English with emphasis on problems of nonnative speakers; discussion of sentence, paragraph, and essay writing skills. Open only to ESL students who have not satisfied the SDSU Writing Competency requirement. Students attaining a score of 8 or better on the final examination earn a grade of "Cr" and satisfy the SDSU writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of "RP" (Report in progress). Students receiving an "RP" should re-enroll in Rhetoric and Writing Studies 94 or Linguistics 94.

#### RWS 97. Developmental Reading and Writing (Learning in Communities) (3) Cr/NC/RP

Prerequisite: A score of 141 and below on the EPT.

Follows prescribed Rhetoric and Writing Studies 92A curriculum. Students must be concurrently enrolled in the Learning in Communities program, which integrates instruction in the reading process with the contents of a General Education course. Students attaining a score of 8 or better on the final examination will earn a grade of Cr and satisfy the SDSU writing competency requirement. Students attaining a score of 7 or less with completion of all course requirements earn a grade of RP (Report in Progress). Students receiving an RP grade should enroll in Rhetoric and Writing Studies 92B. Rhetoric and Writing Studies 97 is equivalent to Rhetoric and Writing Studies 92A.

#### RWS 98. Mini-Course: Selected Topics (1) Cr/NC

Assorted short courses which will meet three hours a week for five weeks and will cover a variety of academic skills through intensive - lectures and laboratory work. Evaluation based on student writing portfolio.

Suggested topics: Research paper, communication skills, research tools, vocabulary development, learning skills, spelling, grammar, and speed reading. See *Class Schedule* for specific content. Credit earned in courses from this series is not applicable to a bachelor's degree.

- A. Learning Skills
- C. Tutorial

#### LOWER DIVISION COURSES (Acceptable for Baccalaureate Credit)

#### RWS 100. Rhetoric of Written Argument (3) [GE] (Same course as English 100)

Prerequisite: Satisfaction of the SDSU writing competency requirement. (See Graduation Requirements section of catalog.) **Proof of completion of prerequisite required:** Copy of EPT or competency scores or verification of exemption; proof of credit (Cr) in Rhetoric and Writing Studies 92A or 92B or 97.

International students are advised to take Linguistics 100. Writing and reading as critical inquiry, designed to help students undertake university-level writing projects. Focus on rhetoric of written arguments. Students learn to use sources in their writing and make appropriate decisions about structure, cohesion, and rhetorical conventions. Not open to students with credit in a higher-numbered composition course or Rhetoric and Writing Studies 101 or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100.

#### RWS 101. Rhetoric of Written Argument (3) [GE]

Prerequisites: A score of 146-150 on EPT and a score of 4 or better on EPT essay. Only for students who have not passed EPT.

Follows the prescribed Rhetoric and Writing Studies 100 curriculum. In addition, students are required to attend eight individual tutoring sessions throughout the semester. Students must be concurrently enrolled in Rhetoric and Writing Studies 98A or 98C. Not open to students with credit in a higher-numbered composition course or Rhetoric and Writing Studies 100 or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100.

#### RWS 102. Critical Reading (1) (Same course as English 102)

Two hours of activity.

Prerequisite: Passage of EPT. For first-semester freshmen in Yococa Learning Communities through Thomas B. Day Student Success Program.

Cognitive and critical reading skills essential to general education courses across the curriculum.

#### RWS 200. Rhetoric of Written Arguments in Context (3) [GE] (Same course as English 200)

Prerequisites: Satisfaction of the SDSU writing competency requirement and Rhetoric and Writing Studies 100 or 101 or Africana Studies 120 or American Indian Studies 120 or Chicana and Chicano Studies 111B or English 100 or General Studies 260A or Linguistics 100. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

International students are advised to take Linguistics 200. Further practice in writing, reading, and critical thinking. Emphasis on rhetoric of written arguments in context and using multiple sources in writing. Continued attention to structure, cohesion, and rhetorical conventions. Not open to students with credit in Africana Studies 200, Chicana and Chicano Studies 200, English 200, General Studies 260D, or Linguistics 200. Completion of Rhetoric and Writing Studies 200 may require completion of the library workbook assignment.

#### RWS 253. Grammar and Usage for Writers (3) (Same course as Linguistics 253)

Prerequisite: Passage of EPT or transfer writing assessment.

Instruction in sentence structure with attention to integrating sentences into their logical and rhetorical contexts. Identifying and understanding source of sentence-level writing problems.

#### RWS 279. Introduction to Academic Reading and Writing (3) (Offered only at IVC)

Prerequisite: Open only to students who have score of 4 or less on the Writing Placement Assessment and whose examinations have been formally reviewed.

University-level reading and writing, with emphasis on argumentation, analysis, and learning to write through revision process. Designed for U.S.-resident language minority students.

**RWS 280. Academic Reading and Writing (3)**

Prerequisite: Score of 7 or below on Writing Placement Assessment (WPA).

Academic prose, emphasizing purposes, structures, and styles of academic writing, with particular emphasis on elements of argument. Designed to improve students' ability to plan, draft, revise, and edit essays, as well as to improve their ability to read and analyze complex academic texts.

**RWS 281. Academic Reading and Writing for Second Language Learners and International Students (3)  
(Same course as Linguistics 281)**

Prerequisite: Open only to students who qualify for Rhetoric and Writing Studies 280 and whose first language is not English.

Academic prose, emphasizing purposes, structures, and styles of academic English writing. Designed to improve students' ability to plan, draft, revise, and edit essays, as well as to read and analyze complex academic texts. Additional emphasis on grammatical features of English relevant to the second language population.

**RWS 296. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**RWS 299. Special Study (3)**

Prerequisites: Consent of department chair and instructor. Individual Study.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**RWS 305W. Writing in Various Settings (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

International students are advised to take Linguistics 305W. Composing effective texts for a wide range of situations in and out of the university. Learning to adjust textual elements for specific purposes, audiences, and settings. Enhances critical reading and writing skills by exploring how content contributes to meaning and effectiveness.

**RWS 496. Topics in Rhetoric and Writing Studies (1-3)**

Selected topics. May be repeated once with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**RWS 499. Directed Study (1-3)**

Prerequisites: Consent of instructor and approval of department chair.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**RWS 500W. Advanced Writing Strategies (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Advanced writing course focusing on how meaning is negotiated and claims are argued in academic and public discourse.

**RWS 501. Editing (3)**

Prerequisite: Rhetoric and Writing Studies 305W or 500W.

Fundamentals of professional editing. Functions of an editor. Document development, style, and style guides. Editing tools and technologies. Preparing text for publication and production.

**RWS 503W. Professional Writing (3)**

Prerequisite: Rhetoric and Writing Studies 305W or 500W.

Principles and practices of professional writing, including clear and concise style and rhetorical strategies of designing effective workplace documents. Practice composing memos, reports, proposals. (Formerly numbered Rhetoric and Writing Studies 503.)

**RWS 504. Advanced Professional Writing (3)**

Prerequisite: Rhetoric and Writing Studies 503W. Recommended: Graphics or drawing course.

Advanced principles in professional writing, including user and task analysis for interface design; document design and typography; collaboration and interpersonal communication; ethical and cultural issues; usability testing; and small group management.

**RWS 505. Writing Project Management (3)**

Prerequisite: Rhetoric and Writing Studies 504.

Managing technical documentation projects. Collaborative writing. Managing writing teams. Conducting task analysis, estimating cost and schedule, preparing document plans, gathering information, testing documents, and managing project documentation. (Formerly numbered Rhetoric and Writing Studies 605.)

**RWS 506. Writing Internship (3) Cr/NC**

Prerequisites: Consent of instructor and successful completion of a 500-level writing course with a grade of B or better.

Intensive experience in writing and editing documents while student is under the joint supervision of an academic instructor and a professional coordinator.

**RWS 507. Professional Communication in Nonprofit Organizations (3)**

Prerequisite: Rhetoric and Writing Studies 503W.

Developing specific technical communication skills for nonprofit organizations. Learning nonprofit documentation: proposals, mission statements, advertising, member surveys, capital campaigns. Promoting volunteerism. Interacting with nonprofit boards. Adhering to requisite state and federal regulations.

**RWS 508W. Scientific Writing (3)**

Prerequisites: Satisfies Graduation Writing Assessment Requirement for students who have completed 60 units; completed Writing Placement Assessment with a score of 8 or higher (or earned a C or higher in RWS 280, 281, or LING 281 if score on WPA was 7 or lower); and completed General Education requirements in Composition and Critical Thinking. **Proof of completion of prerequisites required:** Test scores or verification of exemption; copy of transcript.

Developing specific writing skills for scientific research and communication. Learning scientific documentation: research paper, case report, review, abstract, proposal, conference presentation. Adhering to standards and regulations. (Formerly numbered Rhetoric and Writing Studies 508.)

**RWS 509. Teaching Composition in Secondary Schools (3)**

Prerequisite: Consent of instructor based on writing sample and/or test.

Theory and practice of teaching and assessing composition in secondary schools and comparable contexts.

**RWS 510. Rhetoric and Culture (3)**

Interplay of rhetoric, writing, and culture, including race/ethnicity, gender, class, and other cultural considerations. Role of texts in shaping and shifting community knowledge, identity, norms, and values.

**RWS 511. Literacy, Rhetoric, and Technology (3)**

Role that technologies of communication have played in concepts of language, literacy, and cognition. Histories and theories of literacy (with emphasis on rhetorical tradition), and their relevance to research on electronic text.

**RWS 512. Writing Tutor Theory and Practice (3)**

Prerequisite: Satisfaction of Graduation Writing Assessment Requirement.

Theory, practice, and methods of tutoring written composition in post-secondary settings, to include various approaches to one-on-one student conferencing and responding to student writing. Maximum credit six units.

RWS



## ***Rhetoric and Writing Studies***

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### **RWS 596. Special Topics in Rhetoric and Writing Studies (1-3)**

Prerequisite: Consent of instructor.

Selected topics in rhetoric and writing studies. May be repeated with new content and consent of instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

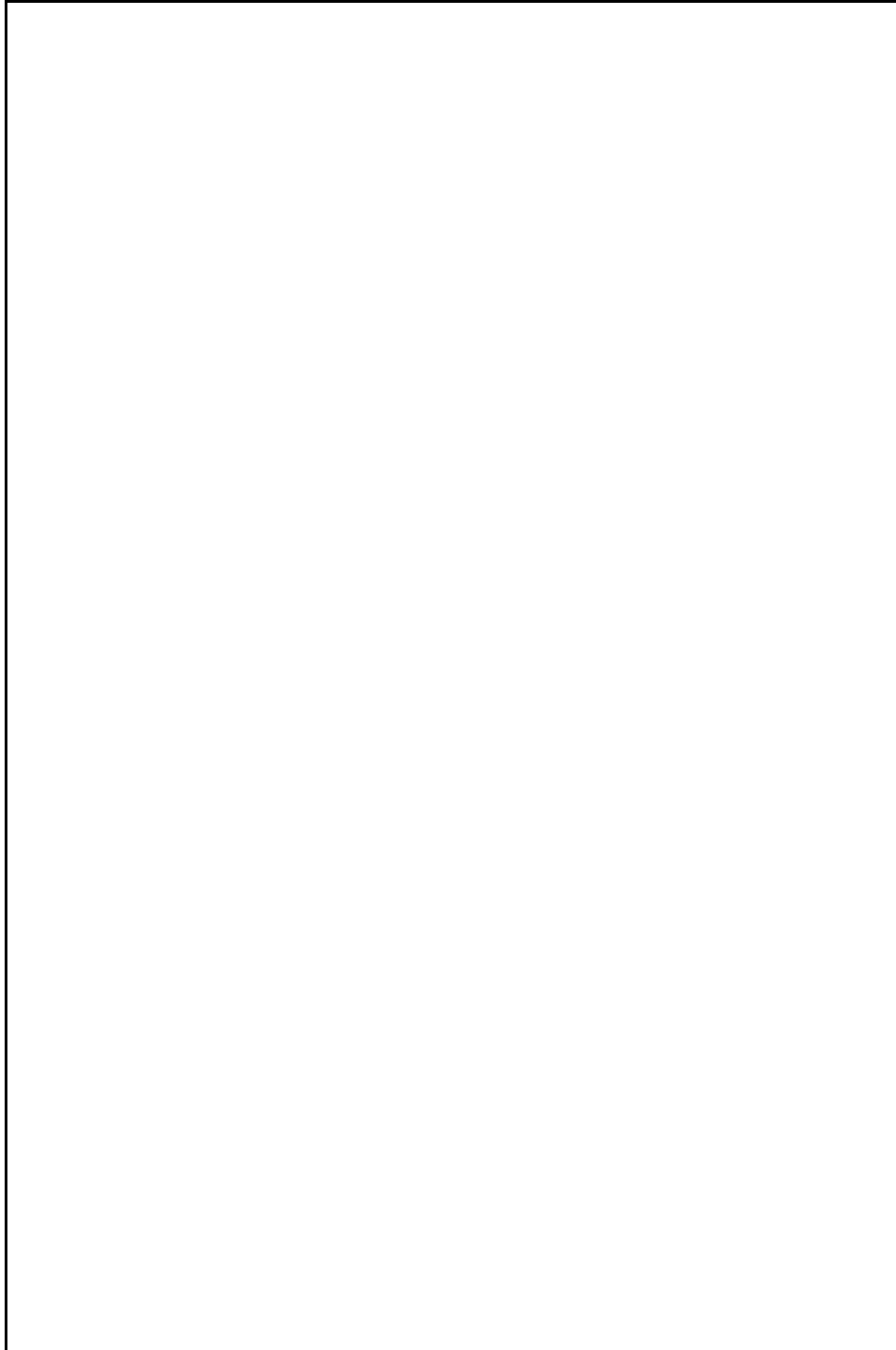
### **RWS 599. Special Study (1-3) Cr/NC**

Directed individual study. Maximum credit six units.

**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Russian

In the Department of European Studies  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 304  
**TELEPHONE:** 619-594-5111 / **FAX:** 619-594-8006  
**E-MAIL:** [russian.coord@sdsu.edu](mailto:russian.coord@sdsu.edu)  
**<http://www-rohan.sdsu.edu/~russian>**

## Faculty

Emeritus: Dukas, Fetzer  
Chair: Benkov  
Professor: Shapovalov  
Lecturer: Shembel

## Offered by the Department of European Studies

Major in Russian with the B.A. degree in liberal arts and sciences.  
Teaching major in Russian for the single subject teaching credential in foreign languages.  
Major in European studies, with emphasis in Russian.  
**See** European Studies.  
Major in international business, with emphasis in Russian.  
**See** International Business.  
Minor in Russian.

## The Major

Russian is one of the most widely used languages in the world today. About one-third of all scientific articles are published in Russian. Some of the world's great literature has been produced by Russian writers such as Tolstoy, Chekhov, and Solzhenitsyn. The political impact of the Commonwealth of Independent States is felt internationally. Knowledge of Russian will provide students with a better understanding of one of the world's important and influential countries.

The Russian program offers a wide range of courses, including specialized courses in literature and linguistics. This major is useful preparation for graduate programs in international trade, international law, librarianship, public administration, and journalism. This program requires intensive scholarly investigation and may prepare students for careers in which fluency in Russian is essential.

Knowledge of Russian, particularly when combined with business related courses, is becoming a valuable asset. Many American firms have opened offices in Moscow and St. Petersburg, and the volume of American trade with Russia has been growing at a rapid pace. As a result, there are indications of an expanding interest in Russian graduates by American business organizations with employment possibilities in the United States and Russia. Moreover, students may consider the option of pursuing a double major in another European language.

Other career possibilities include Russian specialists, generally employed by the federal government: high school teachers, librarians, translators, and interpreters.

Russian majors and minors are encouraged to explore the opportunities for study in Russia that are now becoming available.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Russian Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 11061) (SIMS Code: 116301)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 53 units in Russian courses can apply to the degree.

Students majoring in Russian must complete a minor in another field to be approved by the departmental adviser in Russian.

**International Experience Requirement.** All Russian majors are required to complete a study abroad program in Russia or any other Slavic-language speaking country, consisting of a minimum of six units (90 hours). However, all majors are strongly encouraged to complete a more extensive abroad experience by participating in a semester or academic year program. To fulfill the study abroad requirement, Russian majors must enroll in an approved program. Unapproved study abroad programs will not meet the international experience requirement for the major.

**Preparation for the Major.** Russian 100A, 100B, 110 or 120, 200A, 200B. (23 units)

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units in Russian to include Russian 301, 305A or 305B, 310, 311, 430, 441, 501; and nine units of upper division electives in Russian.

## Russian Major

**In preparation for the Single Subject Teaching Credential in Foreign Languages**

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 11061) (SIMS Code: 116303)**

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 48 units in Russian courses can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences. A minor in another field approved by the departmental adviser in Russian is required for the degree.

**Preparation for the Major.** Russian 100A, 100B, 200A, 200B. (20 units)

RUSSN

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units in Russian to include 301, 303, 305A, 305B, 430, 501; and six units in 400- or 500-level courses in Russian.

**Proficiency Examination.** Before taking a student teaching assignment in Russian, the candidate for the credential may be required to pass an oral and written proficiency examination in the language, administered by the Department of European Studies. The candidate must consult with the chair of the department concerning this examination.

## Russian Minor

(SIMS Code: 116301)

The minor in Russian consists of a minimum of 22 units to include Russian 110, 200A, 200B, Russian 301 or 311, and six units of upper division Russian courses. Any course taught in English, except Russian 110, needs department approval to apply to the minor requirements.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Russian to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Russian 200A or the equivalent level of achievement. The usual sequence of coursework is Russian 100A, 100B, and 200A. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (RUSSN)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Russian will not receive credit for taking lower division courses in Russian except with advance approval from the department.**

**All lower division courses in Russian are taught in Russian unless otherwise stated.**

**No credit will be given for lower division courses taken after successfully completing any upper division Russian course taught in Russian.**

**No credit will be given for Russian 100A, 100B, 200A, 200B, 301 taken out of sequence.**

#### RUSSN 100A. Beginning Russian 1 (5) [GE]

Pronunciation, oral practice, reading, essentials of grammar. Not open to students who have completed three years of high school Russian unless the third course was completed five or more years ago.

#### RUSSN 100B. Beginning Russian 2 (5) [GE]

Prerequisite: Russian 100A or two years of high school Russian. Continuation of Russian 100A. Not open to students who have completed four years of high school Russian unless the fourth course was completed five or more years ago.

#### RUSSN 110. Slavic Legends and Tales (3) [GE]

Introduces fairy tales, folk epics and legends and examines aesthetic, social, and psychological values they reflect. Cultural influence of Slavic folklore in literature, music, painting, film. Taught in English.

#### RUSSN 120. Russia Today: Russian Culture and People (3) [GE]

Political, cultural, and historical events and trends that have been instrumental in forming contemporary Russian national cultural identity. Taught in English.

#### RUSSN 200A. Intermediate Russian 1 (5) [GE]

Prerequisite: Russian 100B or three years of high school Russian. Practical application and review of the basic principles of Russian. Oral practice, reading of cultural material in Russian. Not open to students who have completed five years of high school Russian unless the fifth course was completed five or more years ago. (Formerly numbered Russian 201.)

#### RUSSN 200B. Intermediate Russian 2 (5) [GE]

Prerequisite: Russian 200A.  
Continuation of Russian 200A.

### UPPER DIVISION COURSES (Intended for Undergraduates)

**All upper division courses in Russian are taught in Russian unless otherwise stated.**

#### RUSSN 301. Advanced Grammar and Composition (3) [GE]

Prerequisites: Russian 200B; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors. **Proof of completion of prerequisites required:** Copy of transcript. Not open to students who graduated from schools where Russian is the primary language of instruction.

Advanced grammar and stylistics; intensive writing practice; reports based on outside reading.

**RUSSN 303. Political and Business Russian (3)**

Prerequisite: Russian 301.

Commercial and political Russian, with emphasis on international relations and socioeconomic aspects of contemporary Russia.

**RUSSN 305A. Russian Literature of the Nineteenth Century (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Nineteenth century Russian prose fiction with particular consideration of the works by Pushkin, Turgenev, Tolstoy, Dostoevsky, and Chekhov. Taught in English with readings in English.

**RUSSN 305B. Russian Literature of the Twentieth Century (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Twentieth century Russian literature including works by Zamyatin, Pasternak, Akhmatova, and Solzhenitsyn. Taught in English with readings in English.

**RUSSN 310. Russian and East European Cinema (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Through study of films from 1950s to post-Soviet times, major concerns of East Europeans are addressed through cinema. Interrelationships among cinematic traditions of Russia, Poland, Hungary, Czechoslovakia, and former Yugoslavia/Balkans. Taught in English.

**RUSSN 311. Russian Through Media (3)**

Two lectures and two hours of activity.

Prerequisite: Russian 200B.

Russian stylistics and discourse grammar in context. Emphasis on communicative skills: listening, speaking, reading, and writing. Students work with Internet materials, newspapers, magazines, and excerpts from Russian and Soviet films.

**RUSSN 430. Russian Civilization (3) [GE]**

Prerequisites: Russian 200B; upper division standing for majors; completion of the General Education requirement in Foundations of Learning II.C, Humanities required for nonmajors. **Proof of completion of prerequisites required:** Copy of transcript.

Russian civilization through literary texts, visual art, music, and film. Relationships between art and politics, art and national identity, art of the fantastic and doublespeak, art of postcommunism and post-modernism.

**RUSSN 435. Russian and East European Jewish Literature (3) [GE]**

Prerequisite: Upper division standing for majors; completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Russian and East European Jewish culture from 1900s to present. How literature written in Russian, Polish, Czech, Lithuanian, German by writers of Jewish origin as well as visual arts and cinema reflect changing problem of Jewish national identity. Taught in English.

**RUSSN 441. Structure of Modern Russian (3)**

Two lectures and two hours of activity.

Prerequisite: Russian 301.

Linguistic structure of current standard Russian. Topics include Russian phonology, phonetics and intonation, verbal and nominal morphology, syntax.

**RUSSN 495. Russian Internship (3) Cr/NC**

Prerequisites: Upper division standing in major and consent of instructor.

Practical work experience in a field related to Russian studies. Work done under joint direction of activity sponsor and instructor. Approved international internships may count towards international experience requirement for major.

**RUSSN 499. Special Study (1-3)**

Prerequisites: Fifteen upper division units in the major with an average of B (3.0) or better and consent of instructor. **Proof of completion of prerequisites required:** Copy of transcript.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**RUSSN 501. Translation (3)**

Prerequisite: Russian 301.

Comparison of Russian and English through translation of a variety of texts from Russian to English and from English to Russian.

**RUSSN 570. Issues in Russian Literary and Cultural Studies (3)**

Prerequisites: Russian 301 and 305A or 305B.

Themes within literary, intellectual, and cultural movements in Russian literature of the nineteenth to twenty-first centuries. May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**RUSSN 596. Topics in Russian Studies (3)**

Prerequisite: Russian 305B (for literary topics). **Proof of completion of prerequisite required:** Copy of transcript.

Topics in Russian language, literature, or linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

RUSSN

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

# Social Science

In the College of Arts and Letters

**OFFICE: Arts and Letters 588**

**TELEPHONE: 619-594-5304**

## Offered by Social Science

Major in social science with the B.A. degree in liberal arts and sciences.

Emphasis in environmental studies.

Emphasis in Islamic and Arabic studies.

Teaching major in social science for the single subject teaching credential.

## The Major

Social science is a multidisciplinary program, encompassing the faculties and courses of 12 departments—Africana Studies, American Indian Studies, Anthropology, Chicana and Chicano Studies, Economics, Geography, History, Political Science, Psychology, Religious Studies, Sociology, and Women's Studies. The major aims are to promote an appreciation for the interrelatedness of these disciplines by exposing students to their varied methodologies. This program, therefore, is especially appropriate for students who wish to be liberally educated in a broad spectrum of understandings, insights, and appreciations. Students may devise their own focus or select either the emphasis outlined in Environmental Studies or Islamic and Arabic Studies.

The social science major is appropriate for many beginning positions in government and, when supplemented with a business administration minor, for careers in business. For students who continue in graduate study after receiving their bachelor's degrees, it is an excellent preparation for graduate and professional programs in law, social work, public administration, librarianship, counseling, business, and the ministry. Students who complete the Single Subject Teaching Credential in Social Science are prepared to teach world history, United States history, geography, government, and economics in high school.

The social science major with an emphasis in environmental studies provides an opportunity for the student to gain an interdisciplinary perspective on the complex relationship between humans and the natural world. Students in the emphasis will take courses in the humanities, social sciences, and natural sciences, and will identify a topic or theme for their individualized program of study.

Graduates majoring in social science with an emphasis in environmental studies are well prepared for positions in state and local government in the area of public lands, parks, and natural resource management. The major is also good preparation for a career or further education in private consulting firms, energy, and environmental advocacy and depending upon the courses chosen, the emphasis may provide a broad background useful in graduate programs in natural resource management, law, social science, history, and the humanities.

The social science major with an emphasis in Islamic and Arabic studies is a multidisciplinary program which is designed to enable students to achieve fuller understanding and deeper insight and appreciation of non-western cultures. Students who specialize in Islamic studies choose from specific courses in Arabic, history, political science, religious studies, and women's studies. Students who wish to specialize in Arabic studies must also choose from specific courses in Arabic, history, political science, religious studies, and women's studies as indicated.

The social science major in preparation for the single subject teaching credential may be used by students in policy studies or teacher education or as an undergraduate major for the B.A. degree in Liberal Arts and Sciences. With regard to teacher education, the major provides academic preparation for a career teaching history and the social sciences in California public schools. Courses match the junior high coverage of world history from the middle ages to recent times and of early American history, ninth grade subjects such as ancient religions and global cultures, later high school electives in politics and economics, and core high school classes on modern world history

## Social Science Single Subject Credential

Faculty adviser: Dr. Carole Putko

Office: Arts and Letters 580

Telephone: 619-594-5304

and modern US history. In addition to taking the lower and upper division courses on these topics, you may choose upper division courses in the major according to your own interests. Possible choices range from third world politics to Italian renaissance history to aspects of the experience of African-American, American Indians, or Chicanas and Chicanos in contemporary California.

Completion of the social science major provides excellent academic training for your teaching career. It also prepares you to take the State of California examination for history and social science teachers, the history/social science CSET.

In addition to demonstrating subject matter competence by completing the major, and passing the CSET, you will have to meet other specific requirements in order to teach history and the social sciences in California public schools. Requirements for entry into any California fifth year program in teacher education are detailed in this catalog under Policy Studies and Teacher Education.

You are encouraged to see the social science adviser as soon as possible for further orientation. Upon declaring the major you will need to see the social science adviser each semester.

## Impacted Program

The social science major in preparation for the single subject teaching credential is an impacted program. To be admitted to the social science major in preparation for the single subject teaching credential, refer to the program description for specific impacted criteria.

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Social Science Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 22011) (SIMS Code: 116701)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

**Preparation for the Major.** Three units of statistics selected from Economics 201, Political Science 201, Psychology 280, Sociology 201, or Statistics 119 or 250. A six-unit sequence in each of three of the following departments selected from: (1) Anthropology 101, 102; (2) Chicana and Chicano Studies 120A-120B; (3) Economics 101, 102; (4) Geography 101, 102; (5) History 105, 106; 109, 110; (6) Political Science 101, 102, 103; (7) Sociology 101, 102. Statistics courses taken in a social science department may not be used in fulfillment of that department's six-unit sequence. (21 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements." Spanish is recommended for those planning to work in this part of the United States.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include a 15-unit specialization in one department and the remaining 18 units from among three additional departments. Students may specialize in anthropology, economics, geography, history, political science, sociology, or, under certain conditions listed below, Chicana and Chicano studies. The remaining 18 units must be taken from three separate departments other than the department of specialization. Students who specialize in anthropology, economics, geography, history, political science or sociology may take a maximum of six units in Africana studies or American Indian studies or Chicana and Chicano studies or psychology or religious studies or women's studies from courses listed below.

Students specializing in Chicana and Chicano studies must select courses from Chicana and Chicano Studies 301, 303, 320, 350A-350B, 480 and take the remaining 18 upper division units in anthropology, economics, geography, history, political science, or sociology.

Only students with a specialization in anthropology, economics, geography, history, political science or sociology may take a maximum of six units in the major from Africana studies or American Indian studies or Chicana and Chicano studies or psychology or religious studies or women's studies. These six units can only be selected from the following courses:

Africana Studies 331, 445, 470, 471.  
 American Indian Studies 320, 331, 440.  
 Chicana and Chicano Studies 301, 303, 320, 350A-350B, 480.  
 Psychology 320, 321, 340, 350, 351, 355, 452.  
 Religious Studies 301, 305, 328, 339, 345, 353, 363.  
 Women's Studies 310, 320, 325, 340, 341A-341B, 360, 370, 375, 530, 580.

**Master Plan.** A master plan of courses taken to fulfill the major must be approved by the social science faculty adviser and filed with the Office of Advising and Evaluations at least one semester prior to graduation.

### Emphasis in Environmental Studies

(SIMS Code: 116727)

The adviser for this emphasis is Dr. Sarah S. Elkind, Department of History.

**Preparation for the Major.** Environmental Sciences 100. Optional substitution for Environmental Sciences 100: Oceanography 100 and three to four units selected from Geological Sciences 100, 104, 205, or Geography 104. (3-7 units)

Recommended: A college-level biology course; completion of General Education Foundations of Learning II.A. Natural Sciences and Quantitative Reasoning; and completion of General Education Foundations of Learning II.C. Humanities.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 33 upper division units to include Biology 315, History 441, Philosophy 332; and a minimum of three units in *Field A, Humanities*, three units in *Field B, Social Sciences*, and three units in *Field C, Natural Sciences*. At least 15 of these upper division units must be from a single department or must share a single, interdisciplinary focus. Students are encouraged to discuss their interdisciplinary specializations with the adviser.

*Field A, Humanities:* History 540, 584; Natural Science 315; Religious Studies 376.

*Field B, Social Sciences:* Economics 452, 453, 454, 458; Geography 354, 370, 378, 409, 483, 511, 570, 572, 573, 574, 575; International Security and Conflict Resolution 310; Latin American Studies 540; Political Science 334, 564; Recreation and Tourism Management 305, 485, 487; Sociology 350; Women's Studies 540, 580, 582.

*Field C, Natural Sciences:* Biology 324, 327, 354, 354L, 517, 537, 538, 540, 541; Chemistry 571; Environmental Engineering 320; Environmental Science 301; Geological Sciences 303, 305; Oceanography 320; Public Health 304.

### Emphasis in Islamic and Arabic Studies

(SIMS Code: 116706)

The adviser for this emphasis is Dr. Hisham S. Foad, Department of Economics.

**Preparation for the Major.** (18 units)

1. Language: Arabic 101, 102, 201 (12 units) or Persian 101, 102, 201 (12 units).

2. Six units selected from History 100, 101, Religious Studies 101.

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 30 upper division units. Students who specialize in Islamic studies must take Religious Studies 310, 328, History 473, 474, and Women's Studies 560 (15 units), and an additional 15 units from Arabic 301, 302, 330, 350, History 574, Political Science 363, Religious Studies 330, 379, and Women's Studies 331. Students who specialize in Arabic studies must take Arabic 301, 302, 330, Political Science 363 (14 units), and an additional 16 units from Arabic 350, History 473, 474, 574, Religious Studies 310, 328, 330, 379, Women's Studies 331 and 560.

Up to six units, with appropriate content, can be applied to either area of specialization from Arabic, History, Political Science, Religious Studies 496, 499, and 596.

## Social Science Major

In preparation for the Single Subject Teaching Credential

With the B.A. Degree in Liberal Arts and Sciences

(Major Code: 22011) (SIMS Code: 116703)

All candidates for a teaching credential must take and pass the CSET and complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education.

This major may be used by students in policy studies or teacher education or as undergraduate for the B.A. degree in liberal arts and sciences.

**Impacted Program.** The social science major in preparation for the single subject teaching credential is designated as an impacted program. To be admitted to the major, students must meet the following criteria:

- Complete with a grade of C or higher: Economics 101, 102; Geography 102; History 100, 101, 109, 110; Political Science 102; Religious Studies 101. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.50 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Preparation for the Major.** Economics 101, 102; Geography 102; History 100, 101, 109, 110; Political Science 102; Religious Studies 101. (27 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements." Spanish is recommended for those planning to work in this part of the United States.

SOCSI

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 42 upper division units to include: Teacher Education 362 (must be taken upon entering the major).

**United States and California History:** History 409, 410, 445, and three units selected from any 500-level United States history course

**American Government and Politics:** Three units selected from Political Science 305, 321, 347A, 348, 406, 436.

**United States Geography:** Geography 321.

**Ethnic and Women's Studies:** Six units from two departments selected from Africana Studies 322, American Indian Studies 331, 440, Asian Studies 310, Chicana and Chicano Studies 301, 350B, 375, History 422, Women's Studies 310, 331, 341B, 375.

**World History:** Nine units distributed as follows:

History 412 and six additional units selected from two of the following areas:

**Middle East:** History 473, 474, 574.

**Asia:** History 420, 564, 567, 570.

**Latin America:** Chicana and Chicano Studies 350A; History 415, 416, 550, 551.

**Europe:** History 407, 408, 418, 440, 502, 503, 505, 506; Women's Studies 340.

**International Politics:** Three units selected from International Security and Conflict Resolution 300; Political Science 356, 359, 362, 363, 364, 366, 375, 478, 479.

**Economics:** Three units selected from Economics 330, 338, 349, 382, 458, 490.

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# Social Work

In the College of Health and Human Services

**OFFICE:** Hepner Hall 119  
**TELEPHONE:** 619-594-6865

Accredited by the Council on Social Work Education.

## Faculty

Emeritus: Ajemian, Baily, Brennen, Butler, Carrilio, Davis, Dean, DeGennaro, Griffin, Guidry, Harbert, Haworth, Hughes, Ishikawa, Kahn, Kelley, Kukkonen, Landsverk, Raymer, Riehlman, Sardinas, Siman, Stanford, Sucato, Valle, Zuniga

Director: Reilly

Associate Director: Finnegan

Professors: Clapp, Harbert, Hohman, Jones, Reilly, Shillington, Woodruff

Associate Professors: Engstrom, Finnegan, Harris, Mathiesen, Min, Packard, Rasmussen

Assistant Professors: Ko, Li, Reed

Lecturers: Archuleta, Dudley, Eichler, Keith, Letourneau, Maruchau, Newell, Osuyos, Ryan, Segars, Siegel

## Offered by the School

Master of Social Work degree.

Master of Social Work and juris doctor degrees (concurrent program).

Master of Social Work and Master of Public Health degrees (concurrent program).

Major in social work with the B.A. degree in liberal arts and sciences.

Minor in social work.

## The Major

The profession of social work is deeply committed to the relief of human distress and inequality, and to the assistance of people in the meeting of their social, psychological, and economic needs. The social work major prepares graduates who function effectively as entry-level professionals in beginning social work practice with client systems of various sizes and types; who demonstrate sensitivity to the diverse racial, ethnic, and cultural mix of the Southern California border region and are able to work effectively in a variety of roles in a range of agencies to meet the needs of the region's varied communities; who understand and use social work values and ethics throughout their professional practice; who can identify, evaluate and apply existing research evidence to guide their practice decision-making; who understand the contexts and purposes of social work practice, the changing nature of those contexts, and the nature and the dynamics of organizational behavior; and who are committed to lifelong professional growth and learning.

The social work major is designed to apply to a wide variety of social work practice settings. Preparatory coursework for the major includes a basis in the liberal arts and sciences. The upper division curriculum is intensive, encompassing coursework in cultural pluralism, human behavior, social policy, social work practice, and social work research. Required field experience is an integral part of the program.

The B.A. degree prepares students for immediate employment in those social work positions which do not require graduate level preparation, as well as providing the foundation for graduate study.

## Impacted Program

The social work major is an impacted program. To be admitted to the social work major, students must meet the following criteria:

- Complete 24 to 25 units with a minimum GPA of 2.40 and a grade of C or higher: Social Work 110, 120; Biology 100 or any three units in a human biology course; Economics 101 or three units of any economics course; Psychology 101; Public Health 101; Sociology 101; Psychology 280 or Sociology 201 or Statistics 250. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a minimum of 60 transferable semester units;
- Have a cumulative GPA of 2.40 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Social Work Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 21041) (SIMS Code: 558201)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog entitled "Graduation Requirements." No more than 50 units in social work courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Social Work 110, 120; Biology 100 or any three units in a human biology course; Economics 101 or three units of any economics course; Psychology 101; Public Health 101; Sociology 101; Psychology 280 or Sociology 201 or Statistics 250. (24-25 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All social work majors are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found on the college Web site at

<http://www.chhs.sdsu.edu/international>.

**SWORK**



**Major.** A minimum of 44 upper division units, in a prescribed course sequence, to include Social Work 350, 360, 361, 370, 381, 382, 391, 483A-483B, 489A (4 units), 489B (4 units), and nine units of upper division electives in social work (3 units may be taken from another department).

**Time Limitation:** All social work courses taken for the major must have been taken and completed within seven years of the granting of the undergraduate degree. Courses taken prior to the seven year rule must be repeated. This policy applies to courses taken at SDSU or transferred from another four-year college or university or appropriate courses from a community college. No exceptions will be made to this policy.

**Life Experience:** No social work premajor or major courses can be waived or credit given towards the undergraduate degree for life experience including but not limited to employment, time spent in the military, training or workshops or volunteer experiences.

**Transfer Credit:** Transfer credit students may transfer 18 nonsocial work courses in the premajor and six units of Social Work 110 and 120 from a California community college or four year institution with a signed articulation agreement with SDSU. Students from outside the state must have transcripts evaluated to determine if their courses meet SDSU criteria to be accepted for the premajor. The 44 units in the major can only be transferred from a Council on Social Work Education (CSWE) accredited or candidacy status social work undergraduate program.

**Prescribed Course Sequence:** Students must complete all 300-level social work courses (21 units) before they will be allowed to enroll in Social Work 483A and 489A. There is no required order of the 300-level courses with the exception that Social Work 382 must be taken prior to Social Work 381.

JUNIOR YEAR (21 units)		SENIOR YEAR (23 units)	
SWORK 350	SWORK 360	SWORK 483A	SWORK 483B
SWORK 361	SWORK 370	SWORK 489A	SWORK 489B
SWORK 381	SWORK 382	Three Electives	
	SWORK 391		

**Field Practicum.** All students must enroll in field practicum. This is a 16-hour per week internship at a School of Social Work arranged and supervised social work community agency (students are not permitted to locate their own agencies). Students begin field practicum during the fall semester only and must concurrently enroll in Social Work 483A and 489A. The continuation of field practicum is offered in spring semester only when students must concurrently enroll in Social Work 483B and 489B. These courses are sequential and students must complete both "A" courses before going on to the two "B" courses. During the spring semester, preceding enrollment in field practicum, students attend a field orientation meeting and obtain the field application packet from the SDSU Bookstore. Specific date and time is posted on the field bulletin board outside Hepner Hall 119 and announced in class. In addition, students should read the appropriate section in the current student handbook. The section outlines all requirements and processes the student is expected to follow. The coordinator of field instruction evaluates each application to determine whether the student has met all requirements for admission to field practicum (Social Work GPA of 2.40 and senior status) and assigns the student to an agency for internship. Students who do not file a field application by the deadline date will not be able to enter field practicum. Specific times and days of field practicum are arranged between the student and the assigned agency, but most agencies

require daytime availability. Evening and weekend placements are not available. Students should arrange their schedules appropriately to meet these criteria.

### Specialization in Community Corrections Case Management (SIMS Code: 558202)

With the increased emphasis on rehabilitation in criminal justice work, this specialization prepares social work students to provide case management and other services in community corrections settings including probation, corrections, and re-entry programs. To be admitted to the specialization, students must have an overall GPA of 3.0, pass a background check, and an application to the undergraduate coordinator.

**Requirements for specialization.** A minimum of nine units in the criminal justice major in lieu of social work electives. Required courses are Criminal Justice 300, 330; and Criminal Justice 531 or 543. Students in this specialization will also be assigned to a criminal justice setting for their social work field practicum: Social Work 489A-489B (8 units). Recommended: Criminal Justice 430 and/or 431.

## Student Handbook

The School of Social Work has a student handbook for under-graduate majors. The handbook contains policies and procedures not specified in the catalog in addition to information to aid students in completing the social work major. Students must purchase a revised handbook at the beginning of fall semester as long as they are enrolled in a social work program at SDSU. Handbooks are on sale at the SDSU Bookstore under Social Work.

## Social Work Minor

(SIMS Code: 558201)

The minor in social work consists of 24 units to include Psychology 101, Sociology 101, Social Work 110, 120, 350, 360, 370, and three units selected from Social Work 400, 410, 420, 430, or 496.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Courses (SWORK)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

#### SWORK 110. Social Work Fields of Service (3)

Fields of services in which social workers perform professional roles. Focus on social work approach to intervention in practice and policy arenas.

#### SWORK 120. Introduction to Social Work and Social Welfare (3)

Two lectures and three hours of fieldwork.

Orientation to field of social work. Develop understanding of social work principles, goals, values, and methods through readings and class discussion. An unpaid assignment in an agency setting is required. Scheduling is flexible.

#### SWORK 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

**SWORK 350. Cultural Pluralism (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Understanding of the American society as a culturally pluralistic social process and an understanding of social work as a culturally directed profession with emphasis on the concept of cultural identities created by one's values, ideologies, knowledge and behavior.

**SWORK 360. Perspectives on Human Behavior and the Social Environment (3) [GE]**

Prerequisite: Completion of General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Interdisciplinary, comparative, and critical approach to explanatory theories of human behavior. Focus on interrelatedness of factors that affect the nature and quality of human life with linkage to the social welfare of individuals, families and communities.

**SWORK 361. Human Behavior Across the Life Span (3)**

Prerequisites: Social work major and junior standing.

Psycho-social, biological, cultural and environmental influences on individual growth and development and how knowledge is utilized by social work generalist practitioners in assessment and intervention.

**SWORK 370. Social Policies and Social Issues (3)**

Prerequisites: Social Work 110 and 120.

Major social forces and institutions as they relate to and determine social policy emphasizing social welfare services in an industrialized society.

**SWORK 381. Practice Skills Micro (3)**

Prerequisites: Completion of social work preparation for the major. Junior standing.

Micro skills within overall generalist practice framework. Written and verbal communication, interviewing, assessment with individuals and small groups.

**SWORK 382. Practice Skills Macro (3)**

Prerequisites: Completion of social work preparation for the major. Junior standing.

Development of social work practice skills at macro level. Written and verbal communication needs assessment and resource development with organizations and communities.

**SWORK 391. Methods of Social Work Research (3)**

Definition and purpose of research in social welfare and social work. Formulation of research problems, selecting a design and methodology; techniques of collecting, organizing, interpreting, and analyzing data. (Formerly numbered Social Work 491.)

**SWORK 400. Social Work Practice: Child Welfare (3)**

Prerequisite: Social Work 370.

Problems of children and supportive, supplementary and substitute social services which have been developed to meet these needs.

**SWORK 410. Social Work Practice: Family Issues (3)**

Prerequisite: Social Work 370.

Issues relative to social work intervention with families, including major social work and interpersonal family problem situations. Family practice methods and social service provisions, and social policy issues around family needs.

**SWORK 420. Aging and the Social Services (3)**

Prerequisite: Social Work 370.

Contemporary status, social problems and needs, and developmental theories of the elderly population. Social services delivery system which serves the elderly.

**SWORK 430. Alcohol and Other Drug Problems: Prevention and Intervention (3)**

Prerequisite: Upper division standing.

Alcohol and other drug issues related to individuals, groups, and society. Concepts include preventive methods, secondary prevention, self-help groups, models of treatment, prevention strategies in communities, and overview of alcohol and drug policies.

**SWORK 483A. Generalist Social Work Practice I (3)**

Prerequisites: Completion of social preparation for the major, 300-level courses required for major, and concurrent registration in Social Work 489A.

Integration of social work theory, principles, and practice techniques.

**SWORK 483B. Generalist Social Work Practice II (3)**

Prerequisites: Social Work 483A, 489A, and concurrent registration in Social Work 489B.

Integrating seminar with emphasis on macro generalist practice theory, principles, and methods.

**SWORK 489A-489B. Field Experience in Social Work (3-9, 3-9) Cr/NC**

Prerequisites: Completion of all 300-level social work courses; Social Work 381 and 382 with a grade of C or better and consent of instructor; concurrent registration in Social Work 483A; arrangements made during prior semester with coordinator of field instruction.

A minimum of eight units (four in Social Work 489A and four in Social Work 489B) is required. Students spend 16 hours per week per semester in practice field assignments in selected social work agencies or settings.

**SWORK 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**SWORK 497. Investigation and Report (3)**

Prerequisite: Consent of instructor.

Analysis of special topics in social welfare.

**SWORK 499. Special Study (1-3) Cr/NC**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

SWORK

**UPPER DIVISION COURSE**  
(Also Acceptable for Advanced Degrees)

**SWORK 596. Experimental Topics (1-4)**

Selected topics in social work. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

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# Sociology

In the College of Arts and Letters

**OFFICE:** Nasatir Hall 203

**TELEPHONE:** 619-594-4826 / **FAX:** 619-594-1325

**E-MAIL:** [sociology@sdsu.edu](mailto:sociology@sdsu.edu)

**<http://www-rohan.sdsu.edu/dept/sdsusoci/sociology.html>**

## Faculty

Emeritus: Bloomberg, Buck, Chandler, Cottrell, DeLora, El-Assal, Emerick, Gay, Gillette, Hough, Ima, Kolody, Pershing, Preston, Sandlin, Scheck, Schulze, Sorensen, Stephenson, Wendling, Werner, Winslow

Chair: Zhang

Professors: Finch, Liu, Ojeda, Zhang

Associate Professors: Choi, Esbenschade, Johnston, Marcelli, McCall, Sargent

Assistant Professors: Greene, Roberts

## Offered by the Department

Master of Arts degree in sociology.

Master of Science degree in criminal justice and criminology. (Jointly with the College of Professional Studies and Fine Arts.)

Major in sociology with the B.A. degree in liberal arts and sciences.

Minor in sociology.

## The Major

Sociology is the study of human social behavior. Among other things, it includes the study of intimate personal relationships to large-scale social institutions which constitute societies and world systems; the shared cultural beliefs which hold societies together and make life meaningful; the cleavages of race, class, gender, and ethnicity and the inequalities and conflicts associated with them; and the causes and consequences of crime and other forms of social deviance.

While the sociology department offers a wide variety of courses, the focus of its curriculum is community issues. Communities consist of networks of personal relationships that underlie the large scale organizational and institutional structures that constitute societies. These social ties constitute the power resources – or “social capital” – through which things get done. They provide a kind of interpersonal glue that creates social cohesion and enables people within organizations and institutions to form coalitions, initiate processes for social change, and consolidate power resources in seeking to change social structure.

A bachelor's degree in sociology provides an excellent liberal arts foundation for embarking on a wide range of career paths. A major in sociology provides the graduate with the skills necessary to work effectively with groups of people. Some possible areas of employment are public and private agencies, college settings, publishing, businesses, research facilities, human resources, human services, corrections, local/state/federal governments, health facilities. The degree also prepares students to enter graduate programs in sociology, teaching, law, and public health, to name a few.

## Impacted Program

The sociology major is an impacted program. To be admitted to the sociology major, students must meet the following criteria:

- Complete with a grade of C or higher: Sociology 101, 102, 201, and 250. (12 units) **Note:** Statistics 119 or 250, or Biology 215, will be accepted in lieu of Sociology 201. These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.50 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Sociology Major

**With the B.A. Degree in Liberal Arts and Sciences**  
**(Major Code: 22081) (SIMS Code: 116901)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on “Graduation Requirements.” No more than 48 units in sociology courses can apply to the degree.

A minor is not required with this major.

**Preparation for the Major.** Sociology 101, 102, 201, and 250. **Note:** Statistics 119 or 250, or Biology 215 will be accepted in lieu of Sociology 201. (12 units)

These prerequisite courses may not be taken Cr/NC. The minimum grade in each class is C or higher.

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on “Graduation Requirements.”

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See “Graduation Requirements” section for a complete listing of requirements.

**Major.** Complete 15 units of core requirements listed below and 12 units of upper division sociology electives. (27 units).

Core requirements (15 units) should be completed before upper division sociology electives (12 units):

Sociology 401 and 403  
Sociology 406 or 407 or 408  
Sociology 410 or 412  
Sociology 430 or 433

## Sociology Minor

**(SIMS Code: 116901)**

The minor in sociology consists of a minimum of 18 units to include Sociology 101 and either 102, 201, or 250; three units selected from Sociology 401, 403, 406, 407, 408, 410, 430, or 433; and nine units of electives from other upper division courses in the department. **Note:** Statistics 119 or 250, or Biology 215 will be accepted in lieu of Sociology 201.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

## Sociology Honors Thesis

The Department of Sociology offers undergraduates of superior achievement the opportunity to write a sociology honors thesis leading to special recognition upon graduation. Sociology 490, Senior Honors Thesis, is open to students who rank in the top twenty percent of senior sociology majors and who have successfully satisfied the Graduation Writing Assessment Requirement. Interested students should consult with the undergraduate adviser in the Sociology Department.

## Courses (soc)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### SOC 101. Introductory Sociology: The Study of Society (3) [GE]

This course is prerequisite to all upper division courses in sociology. Major ideas, concepts, and methods in the study of society to include socialization, culture, social structure, social stratification, deviance, social control, and social change.

#### SOC 102. Introduction to Social Problems (3) [GE]

Contemporary social problems. Topics may include poverty, inequality, unemployment, crime and deviance, population and ecological problems, health, family issues, and the role of ideology and interest groups in the definition of social problems. (Formerly numbered Sociology 150.)

#### SOC 201. Elementary Social Statistics (3) [GE]

Prerequisites: Course in intermediate algebra. Satisfaction of the Entry Level Mathematics requirement; and qualification on the Mathematics Departmental Placement Examination, Part IA.

Basic statistical techniques in sociology. Tables and graphs, measures of central tendency and variability, correlations, cross-classification, and introduction to multivariate analysis, sampling and statistical inference. Computer applications may be included. Students with credit or concurrent registration in the following lower division statistics courses will be awarded a total of four units for the two (or more) courses: Sociology 201; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Psychology 280; Statistics 119, 250.

#### SOC 250. Introduction to Social Research (3)

Prerequisite: Sociology 201 or a college level statistics course.

Methods of sociological analysis including surveys, participant observation, ethnography, comparative, historical, and content analysis. Methods are linked to sociological theory.

#### SOC 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### SOC 310. Love, Jealousy, and Envy: The Sociology of Emotions (3)

Prerequisite: Sociology 101.

Sociological understanding of human emotions developed through consideration of history of sex and love, social psychology of jealousy, and political implications of envy. Understanding and management of emotions analyzed in context of community and society.

#### SOC 320. Sex and Gender in Contemporary Society (3) [GE]

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Ways femininity and masculinity are constructed through social arrangements associated with interpersonal relations, family, education, occupations, and economic and political systems. How gender relations are portrayed in mass media and how they are accomplished in community life.

#### SOC 335. Mass Communication and Popular Culture (3) [GE]

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Development of popular culture as influenced by the growth of mass media of communication, including popular music, television, film, newspapers, and advertising. The power, functions, and effects of the mass media in society and in social change.

#### SOC 338. Sociology of Religion (3) [GE]

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Forms of religious belief, knowledge, practice, and experience tied to different social arrangements and historical periods. Consequences of religion for community and society. Secularization and conversion processes in modern industrial societies.

#### SOC 350. Population and Contemporary Issues (3) [GE]

Prerequisites: Sociology 201 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Population processes (fertility, mortality, and migration) as they affect and are affected by such contemporary issues as rapid world population growth, environment, urbanization, family, aging, US-Mexico border, and undocumented migration.

#### SOC 352. Contemporary Social Problems (3) [GE]

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Contemporary social problems in North America and other areas of the world.

#### SOC 355. Minority Group Relations (3) [GE]

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Historical and comparative analysis of race and ethnic relations. Origins and maintenance of ethnic stratification systems; discrimination and prejudice; the adaptation of minority communities; role of social movements and government policies in promoting civil rights and social change.

#### SOC 401. Social Theory (3)

Prerequisite: Sociology 101.

Theories of society; classical European and contemporary US theories of modernity and post modernity, and non-Western theories of cultural and economic hegemony. Evolution of modern world system. Practical understanding of sociological tradition.

#### SOC 403. Contemporary Sociological Theory (3)

Prerequisite: Sociology 401.

History and intellectual development of contemporary sociological theories.

#### SOC 406. Intermediate Social Statistics (3)

Prerequisite: Sociology 250 with a grade of C (2.0) or better.

Statistical techniques in the analysis of social research data and hypothesis testing, including analysis of variance, covariance, partial correlation, multiple and logistic regression, logic and log-linear models, discriminant and factor analysis. Practical application with the use of statistical packages.

#### SOC 407. Survey and Experimental Research Methods (3)

Prerequisite: Sociology 250 with a grade of C (2.0) or better.

Research process from research design through data processing, analysis, and interpretation. Quantitative research techniques including universe enumeration, sampling, questionnaire construction, scaling techniques, structured interviews, and experimental designs.

#### SOC 408. Qualitative Research Methods (3)

Prerequisites: Sociology 101 and 250 with a grade of C (2.0) or better.

Ethnographic research methods including interviewing, observation, participant observation, and case studies. Problems in research design; gaining and maintaining rapport; analysis, interpretation, and writing with qualitative data.

SOC

**SOC 410. Social Psychology: Mind, Self, and Society (3) [GE]**

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Major theories, problems, and findings concerning the relationship of the individual and society. Topics include consciousness and construction of meaning, self-concept and social identity, socialization and interaction, group behavior and group membership.

**SOC 412. Social Construction of Reality (3)**

Prerequisite: Sociology 101.

Analysis of reality as an ongoing social process. Creation and internalization of social worlds through language. Common sense and the multiple realities of everyday life. Dynamic emergence of social structure.

**SOC 420. Sexuality in Modern Society (3)**

Prerequisite: Sociology 101.

Current research on contemporary sexual attitudes and behaviors, including changing norms in premarital, marital, and extramarital relationships. Controversies and implications for the individual and society.

**SOC 421. American Families (3) [GE]**

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Changes in intimacy in American family. Selection of mating partners, spousal and parenting relationships, and alternatives to traditional family forms. Changing functions of the family viewed in historical perspective. Present diverse family arrangements and future prospects.

**SOC 430. Social Organization (3) [GE]**

Prerequisites: Sociology 250 with a grade of C (2.0) or better and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Social structure of societies. Historical examination of structure and development of social institutions, communities, and other large scale organizations.

**SOC 433. Wealth, Status, and Power (3)**

Prerequisite: Sociology 250 with a grade of C (2.0) or better.

Social inequality as an institutional process. Patterns of unequal distribution of wealth, power, privilege and prestige, their causes, and impact this has on communities and societies.

**SOC 436. Sociology of Health and Illness (3)**

Prerequisite: Sociology 101.

Social, cultural, and political factors in definitions of health, disease, healing, and provision of services. Comparative study of medical practices and organizational structures in America and selected international settings. Emphasis on change, socialization of practitioners, relationships between health related occupations.

**SOC 441. Sociology of Mental Illness (3)**

Prerequisite: Sociology 101.

Social, cultural, historical, and political factors involved in definition of "madness" and theories of mental illness in various societies. Review of research about incidence, prevalence, and social epidemiology of mental illness, as a community problem, and its distribution by social class, gender, age, geographical region, and country.

**SOC 442. Homicide in America (3)**

Prerequisite: Sociology 101.

Characteristics and distribution of murder, including historical and cross-cultural comparisons. Social psychological, structural, cultural and situational explanations of causes and consequences of juvenile, gang, domestic, mass, serial and sexual murders.

**SOC 443. Crime and Society (3)**

Prerequisite: Sociology 101.

Social origins, forms, and functions of criminal law. Sociological theories about causes and consequences of crime. Measurement and distribution of violent crimes, property crimes, victimless crimes, white collar crime, and their impact on communities and society.

**SOC 444. Juvenile Delinquency (3)**

Prerequisite: Sociology 101.

Sociological theories about causes and consequences of juvenile delinquency. Social origins of juvenile justice system, with attention to methods of control and prevention at community and national levels.

**SOC 445. Sociology of Deviance (3)**

Prerequisite: Sociology 101.

Conformity and nonconformity; the relationship between individual liberty and social control; stigma and the labeling of deviant behavior such as prostitution, alcoholism, drug addiction, and crime.

**SOC 446. Sociology of Criminal Organizations (3)**

Prerequisite: Sociology 101.

Major criminal organizations that operate in underworld across time, space, and socio-cultural context, including Mafia, Yakuza, Triads, and transnational drug traffickers and human smugglers. Explore their social organizations, operations, roles, and identities.

**SOC 450. Social Change (3) [GE]**

Prerequisites: Sociology 101 and completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Social change at the interpersonal, institutional, and societal levels of analysis. Major economic, political, technological, and demographic forces that have shaped the contemporary world. Topics may include modernization, industrialization, urbanization, revolution, and prospects of social change in rich and poor nations.

**SOC 456. Collective Behavior: Crowds, Cults, and Crazes (3)**

Prerequisite: Sociology 101.

Processes of social behavior in masses and groups, including crowd behavior, mass hysteria, riots, mobs, fads, fashions, crazes, panics, rumors, and scapegoating. Sects and cults; social movements; the effects of mass communications and propaganda.

**SOC 457. Protests, Reforms, and Revolutions (3)**

Prerequisite: Sociology 101.

Revolutionary and reform movements in relationship to the larger society. Conditions leading to development of social movements, emergence of leadership, ideologies, strategies, recruitment of members, and social consequences; case studies.

**SOC 480. Field Internship (3-6)**

Prerequisite: Sociology 101.

Supervised field placement of students in community agencies. Practical experiences related to studies within the sociology curriculum. Maximum credit six units.

**SOC 481. Community Poverty Workshop (3)**

Prerequisite: Sociology 480.

Poverty dynamics in San Diego area: labor market, location of jobs and location of poor people, needs of poor and delivery of social services. Working with poor single parent families.

**SOC 490. Senior Honors Thesis (3)**

Prerequisites: Satisfaction of the Graduation Writing Assessment Requirement. Open to sociology majors with senior standing and permission of the honors thesis adviser.

Directed research on a sociological topic chosen in consultation with the honors adviser, and completion of a senior honors thesis. Required of students wishing to graduate with a Certificate of Recognition in Sociology with Honors.

**SOC 496. Experimental Topics (1-4)**

Prerequisite: Consent of the instructor.

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**SOC 499. Special Study (1-6)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**SOC 522. The Family in Comparative and Cross-Cultural Perspectives (3)**

Prerequisite: Sociology 101. Recommended: Sociology 421.

Comparative study of selected family systems in the past and present. Comparative analysis of major social and demographic changes in marriage and family in post-industrial nations and less developed countries. Cross-cultural comparisons of family arrangements in contemporary America by social classes and racial-ethnic groups.

**SOC 531. Working and Society (3)**

Prerequisite: Sociology 101.

Structure and change in labor force, nationally and internationally. Social drama of work: self, roles, conflict, subcultures. Includes exploration of student work experiences, workers in the community, literacy, and film depictions of work worlds.

**SOC 537. Political Sociology (3)**

Prerequisite: Sociology 101.

Social organization of political processes. Power and authority, social class, primary groups, collective behavior, social change, and other sociological factors considered in their relationships to political processes.

**SOC 539. Sociology of Education (3)**

Prerequisite: Sociology 101.

Social organization of education in the United States and other societies. Structure and functions of educational institutions. Formal and informal education. Class, ethnic, and other social factors affecting the educational process. Implications of educational decision making and testing.

**SOC 543. Police, Courts, and Corrections: The Sociology of Crime and Punishment (3)**

Prerequisite: Sociology 101.

Historical sociology of the American criminal justice system. Development and functions of police, criminal courts, prisons, parole, and probation. Theories and ideologies of punishment and rehabilitation. Review of contemporary research.

**SOC 554. United States-Mexico Transborder Populations and Globalization (3)**  
(Same course as Chicana and Chicano Studies 554)

Prerequisite: Sociology 101. Recommended: Chicana and Chicano Studies 355 and/or Sociology 350.

Sociology of the population at the United States-Mexico border region. Demographic dynamics and social change in border communities. International migration and transmigration. Transborder families and transnational families. Gender systems and women's reproductive health in border communities.

**SOC 555. Immigrants and Refugees in Contemporary American Society (3)**

Prerequisite: Sociology 101.

Contemporary migration to the United States, especially from Latin America and Asia. Political and economic migration. Immigrant and refugee adaptation. Theoretical controversies, research applications, and policy implications.

**SOC 596. Current Topics in Sociology (1-3)**

Prerequisite: Sociology 101.

Selected specialized, controversial or currently relevant topics in sociology. Maximum opportunity provided for student initiative in determining course content and procedures. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**SOC 597. Investigation and Report (3)**

Prerequisites: Fifteen units in sociology and consent of instructor.

Analysis of special topics in sociology. Maximum credit six units.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

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# Spanish

In the College of Arts and Letters

**OFFICE: Arts and Letters 134**

**TELEPHONE: 619-594-6588 / FAX: 619-594-5293**

## Faculty

Emeritus: Barrera, Case, Castro (Castillo), Christensen, Head, Hidalgo, Jiménez-Vera, Kish, Lemus, O'Brien, Segade, Talamantes, Wilson, Young

Chair: Blanco

Professors: Angelelli, Blanco, Robinson

Associate Professors: Godoy, Martín-Flores

Assistant Professors: Ewald, Yanguas

## Offered by the Department of

### Spanish and Portuguese Languages and Literatures

Master of Arts degree in Spanish.

Major in Spanish with the B.A. degree in liberal arts and sciences.

Teaching major in Spanish for the single subject teaching credential in foreign languages.

Major in European studies, with emphasis in Spanish.

**See** European Studies.

Major in international business, with emphasis in Spanish.

**See** International Business.

Minor in Spanish.

Certificate in translation and interpretation studies.

Certificate in court interpreting

(available at Imperial Valley Campus only).

## The Major

Spanish is the fourth most widely spoken language in the world and the second most frequently used language in the Southwest. Because of San Diego's proximity to Mexico and other Spanish-speaking countries, many students here are interested in learning Spanish. Their reasons range from practical application in jobs, travel, reading or recreation to a curiosity about the culture or literature of Spanish-speaking countries. The Department of Spanish and Portuguese offers a wide range of courses and programs designed to satisfy the varied needs of students who enter the Spanish major.

## Impacted Programs

The majors in Spanish and Spanish in preparation for the single subject teaching credential are impacted programs. To be admitted to the Spanish major, students must meet the following criteria:

- Complete with a grade of C or higher: Spanish 202 and 212 (or 282). These courses cannot be taken for credit/no credit (Cr/NC). These courses are automatically waived for native speakers of Spanish who have a high school diploma or equivalent from a country whose language of instruction is Spanish. International Baccalaureate or Advanced Placement credit for Spanish 202 and 212, or Advanced Placement credit for Spanish 405A and 405B will satisfy this requirement;
- Have a cumulative GPA of 2.50 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Advising

All College of Arts and Letters majors are urged to consult with their department adviser as soon as possible; they are required to meet with their department adviser within the first two semesters after declaration or change of major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Spanish Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 11051) (SIMS Code: 117101)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 52 units in Spanish courses can apply to the degree.

Students majoring in Spanish must complete a minor in another field approved by the departmental adviser in Spanish.

**Preparation for the Major.** Spanish 101, 102, 201, 202, 211, and 212. Spanish 281 replaces 201 and 211 and Spanish 282 replaces 202 and 212 for U.S. Hispanics. Spanish 202 and 212 (or 282) must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). These courses are automatically waived for native speakers of Spanish who have a high school diploma or equivalent from a country whose language of instruction is Spanish. See adviser. (6-22 units)

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All Spanish majors are required to complete an approved study abroad program in a Spanish-speaking country consisting of a minimum of six units (90 hours). To fulfill the International Experience Requirement, Spanish majors must enroll in a study abroad program approved by the department. Participation in other study abroad programs without the written approval of the department will not meet the international experience requirement for the major.

**Major.** A minimum of 30 upper division units taught in Spanish to include Spanish 301\*, 302\*, 350, 448, 504 or another upper division Spanish course; Spanish 340 or 341 or 342; six units selected from Spanish 405A, 405B, 406A, 406B; and two electives\* selected from 300- to 500-level Spanish courses. At least 15 upper division units for the major must be taken in residence through coursework offered by or sponsored by the SDSU Spanish department or by the CSU International Programs. Students who have successfully completed courses for upper division credit may not receive credit for lower division courses.

\* Spanish 381 replaces 301 and 302 for Spanish speakers.

+ Three electives must be taken if Spanish 381 was taken in place of Spanish 301 and 302.

## Spanish Major

**In preparation for the Single Subject Teaching Credential in Foreign Languages**

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 11051) (SIMS Code: 117103)**

No new students will be accepted effective July 1, 2006. Students declared in this major prior to July 1, 2006, will have until June 2010 to complete the major to qualify for the subject matter waiver of the CSET examination. All other students may choose to complete this program of study, but must also take and pass the CSET examination. Contact the department for additional information.

All candidates for a teaching credential must complete all requirements as outlined in this section of the catalog under Policy Studies or Teacher Education. For students completing the single subject teaching credential program, no more than 52 units in Spanish courses can apply to the degree.

This major may be used by students in policy studies or teacher education as an undergraduate major for the B.A. degree in liberal arts and sciences. A minor in another field approved by the departmental adviser in Spanish is required for the degree.

**Preparation for the Major.** Spanish 101, 102, 201, 202, 211, and 212. Spanish 281 replaces 201 and 211 and Spanish 282 replaces 202 and 212 for U.S. Hispanics. Spanish 202 and 212 (or 282) must be completed with a grade of C or higher and cannot be taken for credit/no credit (Cr/NC). These courses are automatically waived for native speakers of Spanish who have a high school diploma or equivalent from a country whose language of instruction is Spanish. (0-22 units) See Spanish adviser.

**Language Requirement.** The language requirement for graduation is automatically fulfilled through coursework for preparation for the major.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience Requirement.** All Spanish majors are required to complete an approved study abroad program in a Spanish-speaking country consisting of a minimum of six units (90 hours). To fulfill the International Experience Requirement, Spanish majors must enroll in a study abroad program approved by the department. Participation in other study abroad programs without the written approval of the department will not meet the international experience requirement for the major.

**Major.** A minimum of 30 upper division units taught in Spanish to include Spanish 301\*, 302\*; six units selected from Spanish 405A, 405B, 406A, 406B; Spanish 340 or 341 or 342; Spanish 448; Spanish 350 and 561; two electives+ from 300- to 500-level Spanish courses. At least 15 upper division units for the major must be taken in residence through coursework offered by or sponsored by the SDSU Spanish department or by the CSU International Programs. Students who have successfully completed courses for upper division credit may not receive credit for lower division courses.

\* Spanish 381 replaces 301 and 302 for Spanish speakers.

+ Three electives must be taken if Spanish 381 was taken in place of Spanish 301 and 302.

## Spanish Minor

**(SIMS Code: 117101)**

The minor in Spanish consists of a minimum of 18-19 units taught in Spanish, at least 12 of which must be in upper division Spanish courses.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. At least six upper division units

for the minor must be taken in residence through coursework offered by or sponsored by the SDSU Spanish department or by the CSU International Programs.

## Certificate in Translation and Interpretation Studies

**(Certificate Code: 90008) (SIMS Code: 117155)**

The Department of Spanish and Portuguese Languages and Literatures offers a Certificate in Translation and Interpretation Studies. A prospective candidate for the certificate should possess a bilingual facility in Spanish and English. The student must demonstrate writing proficiency in both Spanish and English either by completing with a grade of B or better Rhetoric and Writing Studies 305W (or pass the Writing Placement Assessment with a score of 10 or above, and Spanish 301, 302, and 350) or by demonstrating similar written language proficiency prior to starting work on the certificate. The student must complete an interpreting skills admission test with a grade of B or better (contact program director). The student may be advised to take Spanish 391 in preparation for the certificate.

After meeting the basic requirements for admission, the student must complete with a GPA of 3.0 or better 15 units to include Spanish 491, 492, 493, 594A, 594B.

Upon completing 15 units of coursework, the student must take a departmental examination for the certificate. Upon successful completion of the examination, the student will be awarded the certificate. Up to nine units in the certificate program may be counted toward the major in Spanish and six units may be counted toward the minor in Spanish.

## Certificate in Court Interpreting

**(Imperial Valley Campus)**

**(Certificate Code: 90007) (SIMS Code: 117150)**

The Imperial Valley Campus offers a Certificate in Court Interpreting. The certificate requires 12 units in Spanish dealing with problems of court interpreting and includes interpreting from Spanish to English and from English to Spanish.

A prospective candidate for the certificate should possess a bilingual ability in Spanish and English. The student must complete with a grade of B or better Rhetoric and Writing Studies 305W (or pass the Writing Placement Assessment with a score of 10 or above), and Spanish 301, 302, and 350 prior to starting work on the certificate.

After meeting the basic requirements for admission, the student must complete with a GPA of 3.0 or better 12 units to include Spanish 491, 492, 493, and 499 (when offered as a translation-court interpreting practicum).

Upon completing the 12 units of coursework, the student must take a departmental examination for the certificate. Upon successful completion of the examination, the student will be awarded the certificate. Courses in the certificate may not be counted toward the major or minor in Spanish.

SPAN

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Spanish to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Spanish 201 or the equivalent level of achievement. The usual sequence of coursework is Spanish 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

*Secondary school language courses can be used as follows:*

1. The first *two years* of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.



2. The first *three years* of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. *Four years* of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

Students entering San Diego State University with five or six years of high school Spanish may enroll in Spanish 202; the department recommends, however, that they take Spanish 301.

## Advanced Placement in Spanish\*

1. Students scoring a 3 on the Spanish *Language* Advanced Placement Examination will receive 6 units of academic credit for Spanish 201 and 211. The continuation placement level with this score is Spanish 202 and/or 212. Credit will not be awarded for numbered Spanish courses (101, 102, 281).

2. Students scoring a 4 or 5 on the Spanish *Language* Advanced Placement Examination will receive 6 units of academic credit for Spanish 202 and 212. The continuation placement level with these scores is Spanish 301 or 381. Credit will not be awarded for lower division Spanish courses (101, 102, 201, 211, 281, or 282).

3. Students scoring a 3, 4, or 5 on the Spanish *Literature* Advanced Placement Examination will receive 6 units of academic credit for Spanish 405A and 405B. The continuation placement level with these scores is Spanish 301 or 381. Credit will not be awarded for lower division Spanish courses.

\*AP credit automatically clears the language requirement.

## International Baccalaureate

Students with the International Baccalaureate in Spanish will be awarded six units of Spanish equal to credit in Spanish 202 and 212. International Baccalaureate students will not receive duplicate credit for Advanced Placement in Spanish scores nor for enrollment in any lower division Spanish courses.

## Courses (SPAN)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**Native speakers of Spanish will not receive credit for taking lower division courses in Spanish except with advance approval from the department.**

**All lower division courses in Spanish are taught in Spanish.**

**No credit will be given for lower division courses taken after successfully completing any upper division Spanish course.**

**No credit will be given for Spanish 101, 102, 201, 202, 301 taken out of sequence.**

#### SPAN 101. Introduction to Spanish I (4) [GE]

Four lectures plus laboratory.

Pronunciation, oral practice, readings on Hispanic culture and civilization, essentials of grammar. Not open to students who have completed three years of high school Spanish unless the third course was completed five or more years ago. Not open to students with credit in Spanish 102, 201, 202, 281, 282, 301, or a higher-numbered Spanish course.

#### SPAN 102. Introduction to Spanish II (4) [GE]

Four lectures plus laboratory.

Prerequisite: Spanish 101 or two years of high school Spanish.

Continuation of Spanish 101. Not open to students who have completed four years of high school Spanish unless the fourth course was completed five or more years ago. Not open to students with credit in Spanish 201, 202, 281, 282, 301, or a higher-numbered Spanish course.

#### SPAN 201. Intermediate Spanish I (4) [GE]

Four lectures plus laboratory.

Prerequisite: Spanish 102 or completion of the third year of high school Spanish.

First course in Spanish at intermediate level. Grammatical structures presented in beginning Spanish. Culture-centered oral and written language emphasized. Not open to students who have completed five years of high school Spanish unless the fifth course was completed five or more years ago. Not open to students with credit in Spanish 202, 281, 282, 301, or a higher-numbered Spanish course. See enrollment restrictions under AP credit in Spanish. May be taken concurrently with Spanish 211. It is recommended that heritage speakers of Spanish take Spanish 281 in place of Spanish 201 and 211. Taught in Spanish. (Formerly numbered Spanish 103.)

#### SPAN 202. Intermediate Spanish II (4) [GE]

Prerequisite: Spanish 201 or completion of the fourth year of high school Spanish.

Second course in Spanish at intermediate level. Selected grammatical structures supported by study of cultural materials. Written and spoken Spanish emphasized. Not open to students with credit in Spanish 282, 301, or a higher-numbered Spanish course. See enrollment restrictions under AP credit in Spanish. May be taken concurrently with Spanish 212. It is recommended that heritage speakers of Spanish take Spanish 282 in place of Spanish 202 and 212. Taught in Spanish.

#### SPAN 211. Intermediate Conversation and Reading (3) [GE]

Prerequisite: Spanish 102.

Emphasis on oral communication and reading comprehension through intermediate level cultural materials. Some writing will be adjunct to reading. Conducted in Spanish. May be taken concurrently with Spanish 201. Not open to students who have completed five years of high school Spanish unless the fifth course was completed five or more years ago. Not open to students after taking Spanish 281.

#### SPAN 212. Intermediate Conversation and Writing (3) [GE]

Prerequisites: Spanish 201 and 211.

Emphasis on oral communication and intermediate level writing in Spanish. Conducted in Spanish. May be taken concurrently with Spanish 202. Not open to students after taking Spanish 282.

#### SPAN 281. Intermediate Spanish for U.S. Hispanics (3) [GE]

Prerequisite: Exposure to Spanish in the home and neighborhood in the U.S.

Introduction to written Spanish: orthography, spelling, basic sentence construction, vocabulary enrichment, complex and compound sentence construction, basic principles of writing. Not open to students who have completed five years of high school Spanish unless the fifth course was completed five or more years ago. Not open to native speakers (with high school diploma from a Spanish speaking country) or students with credit in Spanish 201, 202, 211, 282, 301, or a higher-numbered Spanish course. Replaces Spanish 201 and 211 for Preparation for the Major.

#### SPAN 282. Intermediate Spanish for U.S. Hispanics (3) [GE]

Prerequisite: Spanish 281.

Continuation of Spanish 281. Not open to native speakers (with high school diploma from a Spanish speaking country) or students with credit in Spanish 202, 212, 301, or a higher-numbered Spanish course. Replaces Spanish 202 and 212 for Preparation for the Major.

#### SPAN 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### SPAN 299. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES**  
(Intended for Undergraduates)

All upper division courses in Spanish are taught in Spanish unless otherwise stated.

No credit will be given for lower division courses taken after successfully completing any upper division Spanish course.

**SPAN 301. Advanced Conversation and Reading (3)**

Prerequisites: Spanish 202 and 212.

Continued development of oral communication and reading comprehension. Review of selected grammatical structures through use of literary and cultural materials. Some writing will be adjunct to reading. Conducted in Spanish. May be taken concurrently with Spanish 302. Not open to students with credit in Spanish 381.

**SPAN 302. Advanced Conversation and Writing (3)**

Prerequisites: Spanish 202 and 212.

Advanced practice at oral communication through conversations and public speaking. Practice of written Spanish through advanced composition. Conducted in Spanish. May be taken concurrently with Spanish 301. Not open to students with credit in Spanish 381.

**SPAN 307. Introduction to Commercial Spanish (3)**

Prerequisites: Spanish 301, 302, or 381.

Terminology and forms of business correspondence and documents.

**SPAN 340. Spanish Civilization (3) [GE]**

Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Spanish culture of the past and present, with emphasis on literature, philosophy, and the arts.

**SPAN 341. Spanish American Civilization (3) [GE]**

Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Spanish American cultures, with emphasis on literature, philosophy, and the arts.

**SPAN 342. Mexican Civilization (3) [GE]**

Prerequisites: Spanish 301, 302, or 381; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

The major currents and characteristics of Mexican culture, as expressed through the centuries in literature, philosophy, and the arts.

**SPAN 350. Advanced Grammar (3)**

Prerequisites: Spanish 301 and 302 or 381.

Significant systematic features of modern Spanish grammar. Required for credential applicants.

**SPAN 381. Advanced Spanish for Spanish Speakers (3)**

Prerequisite: Spanish 282.

Advanced aspects of Spanish grammar (accentuation rules, intonation, and secondary stress), imperfect subjunctive in combination with other tenses, passive voice and impersonal constructions. Advanced composition of summaries, interpretive essays, and basic research papers. Replaces Spanish 301 and 302 for the Spanish major. Spanish 381 not open to students with credit in either Spanish 301 or 302.

**SPAN 391. Spanish Enhancement for Translation and Interpretations (3)**

Prerequisites: Spanish 301 and 302, or 381, and 350.

Bridges gap between Spanish for communication and Spanish for work. Acquisition of translation and interpretation skills (active listening, text analysis, anticipation, memory, public speaking).

**SPAN 405A-405B. Survey Course in Spanish Literature (3-3) [GE]**

Prerequisites: Spanish 301 and 302 or 381; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Important movements, authors and works in Spanish literature from the Middle Ages to the present.

**SPAN 406A-406B. Survey of Spanish American Literature (3-3) [GE]**

Prerequisites: Spanish 301 and 302 or 381; and completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Reading from representative Spanish American authors during colonial, revolutionary, and modern periods.

**SPAN 448. Spanish Linguistics (3)**

Prerequisite: Spanish 350.

Structural, historical, and applied Spanish linguistics.

**SPAN 491. Introduction to Translation Studies (3)**

Prerequisites: Spanish 350 and satisfaction of the Graduation Writing Assessment Requirement.

Theoretical grounding and practical problems of literary and nonliterary translation; linguistic and cultural obstacles; literary, legal, commercial, medical, social services lexicons in context.

**SPAN 492. Translation Theory (3)**

Prerequisite: Spanish 491.

Historical overview of translation theory. Translation types and conventions. Theoretical considerations of lexical, morphological, verbal, phonic, syntactic, and hermeneutic elements. Cross-language equivalence, fidelity, loss and gain in translation. Criteria for excellence and evaluation. Culture and commerce of translation.

**SPAN 493. Advanced Spanish-English / English-Spanish Translation (3)**

Prerequisites: Spanish 350 and 491.

Practicum involving methods and techniques in translation of legal or government papers, banking documents, and business contracts from Spanish into English and from English into Spanish. Practice in translation of old Spanish into English (deeds, surveys, baptismal records, manuscripts of books).

**SPAN 495. Internship in Translation and Interpretation (3)**

Prerequisites: Spanish 491 and consent of instructor.

Students selectively assigned to legal firms, medical facilities, commercial establishments or public offices that deal routinely with English and Spanish translation and interpretation. Students work 15 hours weekly under joint supervision of site coordinators and instructor. Maximum credit six units.

**SPAN 496. Selected Studies in Spanish (3)**

Topics in Spanish or Spanish American language, literature, culture, and linguistics. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

**SPAN 497. Advanced Commercial Spanish (3)**

Prerequisites: Six units from Spanish 301, 302, or 381 and Spanish 307.

Terminology and techniques used in commercial transactions, including interpretation and writing of business materials.

**SPAN 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units. This course is intended only for students who are currently enrolled in or who already have credit for all upper division courses in Spanish available in any given semester.

SPAN

**UPPER DIVISION COURSES**  
(Also Acceptable for Advanced Degrees)

**SPAN 501. Genre Studies in Spanish Literature (3)**

Prerequisites: Spanish 405A-405B.

A specific literary genre: overview of the genre's development in Spanish literature (Spanish novel, short story, theatre) or focus on a narrower period (contemporary narrative, modern poetry). May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**SPAN 502. Genre Studies in Spanish American Literature (3)**

Prerequisites: Spanish 406A-406B.

A specific literary genre: overview of the genre's development in Spanish American literature (the Spanish American novel, short story, theatre) or focus on a narrower period (vanguardista poetry, the "Boom"). May be repeated with new title and content. See *Class Schedule* for specific content. Maximum credit six units.

**SPAN 503. Literature of Baja California (3)**

Prerequisites: Spanish 406A-406B.

Diachronic overview of Baja California literature in its different genres. Cultural phenomenon of the border nation, in which the Californias are vital.

**SPAN 504. Don Quixote (3)**

Prerequisite: Spanish 405A.

A close reading of Cervantes' novel *Don Quixote*, Parts I and II.

**SPAN 515. Mexican Literature (3)**

Prerequisites: Spanish 406A-406B.

Mexican literature from the Romantic period to the present. Special emphasis placed on contemporary era.

**SPAN 520. Caribbean Area Countries Literature (3)**

Prerequisites: Spanish 406A-406B.

Literature of Caribbean Islands, Central America, Colombia and Venezuela, from colonial period to present. Special emphasis on contemporary era.

**SPAN 549. Spanish Phonetics and Phonology (3)**

Prerequisite: Spanish 448.

Sounds of Spanish: consonants, vowels, semivowels, syllabic structure, rhythm, stress. Sound system of Spanish: phonemes and allophones. Main differences between English and Spanish and between regional and social varieties of Spanish. Alternative analytical paradigms.

**SPAN 561. Methods in Teaching Spanish as a Second Language (3)**

Prerequisite: Spanish 350 or 448.

Teaching of Spanish as a second language: contemporary theory and methods.

**SPAN 572. Spanish American Theatre (3)**  
(Offered only at IVC)

Prerequisites: Spanish 406A-406B.

Principal Spanish American dramatists and movements. Special emphasis on contemporary era.

**SPAN 581. Mexican Sociolinguistics (3)**

Prerequisites: Spanish 350 and 448.

Sociolinguistic phenomena occurring in Mexico from pre-Columbian times to the present. Language diversity before 1521 and throughout the colony; language contact and bilingualism; language policy and loss of indigenous languages. Emergence of Spanish as the national standard code in the nineteenth century. Regional dialects of Mexican Spanish.

**SPAN 582. Sociolinguistics of U.S. Spanish (3)**

Prerequisites: Spanish 350 and 448.

Contact of Spanish and English in the U.S. Southwest from 1848 to the present. Spanish language loss in the nineteenth century. Bilingualism in urban and rural communities; language maintenance and shift in the twentieth century. Language attitudes and bilingual education. Varieties of Spanish in the Southwest, the Northeast, and Florida.

**SPAN 594A. Consecutive English/Spanish Interpretation (3)**

Prerequisite: Spanish 350 or 391.

Consecutive interpretation techniques focusing on current events to include notetaking technique for interpreters, preparation for meetings, language register, active listening, structure of a speech, abstracting meaning, sight translation in the booth.

**SPAN 594B. Simultaneous English/Spanish Interpretation (3)**

Prerequisite: Spanish 594A with a grade of B (3.0) or better.

Simultaneous interpretation techniques focusing on current events. Simultaneous, whispered, and relay interpretation, preparation for meetings, language register, listening, structure of a speech, abstracting, sight translation in the booth.

**SPAN 596. Selected Studies in Spanish (3)**

Prerequisite: Spanish 302 or 381.

Topics in Spanish or Spanish American language, literature, culture and linguistics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

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# Special Education

In the College of Education

**OFFICE: North Education 70**

**TELEPHONE: 619-594-6665**

**<http://edweb.sdsu.edu/sped/>**

Accredited by the California Commission on Teacher Credentialing.

## Faculty

Emeritus: Brady, Cegelka, Doorlag, Forbing, Kitano, Lewis, Lynch, McClard

Chair: Graves

Professors: Graves, Hall

Associate Professors: Alvarado, Johnson, Kraemer, McIntosh, Valles

Assistant Professors: Brandon, Duesbery, Naranjo, Qian

## Offered by the Department

Master of Arts degree in education.

Bilingual (Spanish) multiple subject and special education credential (refer to the *Graduate Bulletin*).

Education specialist credentials in special education.

Early childhood special education.

Mild/moderate disabilities.

Moderate/severe disabilities.

Certificate in behavior analysis

(refer to the *Graduate Bulletin*).

Certificate in developing gifted potential

(refer to the *Graduate Bulletin*).

Certificate in early childhood special education

(refer to the *Graduate Bulletin*).

## Courses (SPED)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### SPED 450. Classroom Adaptations for Special Populations (2)

Strategies for adapting curriculum, differentiating instruction, meeting social and behavioral needs, and modifying assessments for students with disabilities and/or gifted and talented students in general education classrooms. Meets Standard 14 requirements for preliminary multiple and single subject teaching credentials.

#### SPED 470. Special Education Applications (2 or 3) Cr/NC

One lecture and two or four hours of activity.

Prerequisite: Consent of instructor.

Procedural applications in educational and/or community programs for students with exceptionalities.

#### SPED 496. Selected Topics in Special Education (1-4)

Prerequisite: Consent of instructor.

Instructional sequences focusing on a single topic or competency dealing with special education. Topics differ each semester to adjust to current literature in the field, training needs, and resource availability. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### SPED 499. Special Study (1-3)

Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### SPED 500. Human Exceptionality (3)

Historical, philosophical, and legal aspects of special education that affect identification and programming for diverse learners with exceptionalities. Characteristics of individuals with special needs and implications for adapting living and learning environments. Meets special education mainstreaming requirement for all basic teaching credentials.

#### SPED 501. Typical and Atypical Learning Processes (3)

Prerequisites: Credit or concurrent registration in Special Education 500; concurrent registration in Special Education 502.

Theory, research, and processes in learning in relation to individuals with disabilities. Foundations of learning, development, and intervention.

#### SPED 502. Field Experiences in General and Special Education (1) Cr/NC

Three hours of observation/participation per week.

Prerequisite: Concurrent registration in Special Education 501.

Observation and participation in general and special education classrooms and related school activities for students with disabilities.

#### SPED 505. Educational Services for Students with Serious Emotional Disturbance (1)

Prerequisite: Admission to credential program.

Educational needs and services for students with serious emotional disturbance. Classroom interventions and procedures.

#### SPED 510. Adapting Communication Systems for Students with Severe Disabilities (1)

Prerequisite: Admission to credential program.

Adaptations of communications and communication systems for students with disabilities. Educational strategies that special education teachers can use to augment classroom communications. Alternative approaches to communication for students with moderate/severe disabilities.

#### SPED 524. Characteristics of Students with Mild/Moderate Disabilities (3)

Prerequisite: Special Education 500.

Historical and philosophical perspectives of programs related to students with mild/moderate disabilities. Research on educational programs, curricular approaches, and characteristics.

#### SPED 525. Characteristics of Students with Moderate/Severe Disabilities (3)

Prerequisite: Special Education 500.

Historical and philosophical perspectives of programs related to students with moderate/severe disabilities. Research on educational programs, curricular approaches, and characteristics with emphasis on services in context of school reform.

#### SPED 526. Characteristics and Education of Students with Physical, Health, and Sensory Impairments (3)

Prerequisite: Special Education 500.

Historical and philosophical perspectives, characteristics, needs, and supports for individuals with physical, health, and sensory impairments in educational, home, and community settings. Implications of health concerns for programming.

SPED

**SPED 527. Special Education in a Pluralistic Society (3)**

Prerequisite: Credit or concurrent registration in Special Education 500.

Historical and philosophical perspectives of cultural pluralism in special education and programs related to diverse students with disabilities. Research on curricular approaches and instructional needs. Sociocultural aspects related to disability, race, ethnicity, gender, and language.

**SPED 528. Young Children with Disabilities and Their Families (3)**

Prerequisite: Special Education 500.

Characteristics, needs, and educational programs and services for infants, toddlers, and preschoolers with disabilities and their families. Legislative requirements, models of service delivery, recommended practices, and family diversity.

**SPED 530. Issues in Autism (3)**

Definition, etiology, assessment, and instructional practices used to address autism. Historical and current issues.

**SPED 534. Classroom Assessment of Students with Mild/Moderate Disabilities (3)**

Prerequisite: Admission to credential program.

Classroom assessment in general and special education for students with mild/moderate disabilities. Curriculum-based data collection strategies. Influences of cultural and linguistic diversity, and implications for curricular and instructional adaptations.

**SPED 553. Behavioral Strategies and Supports for Students with Disabilities (3)**

Prerequisites: Special Education 500 and 501.

Positive behavioral supports for students with disabilities in general and special education settings. Current theories and programs in functional assessment and behavioral change. Applications in educational and community environments with diverse students.

**SPED 560. Applications of Technology for Individuals with Disabilities (3)**

Prerequisite: Special Education 500.

Educational applications of current technologies for learners with disabilities. Selection, modification, and classroom use of technologies to improve or bypass physical, sensory, communicative, learning, and social limitations.

**SPED 570. Individualized Special Education Program Plans (1)**

Prerequisite: Concurrent registration in Special Education 980.

Components of individualized education program plans, individualized family service plans, and individualized transition plans. Goals, objectives, and outcomes for program planning. Legal and ethical considerations.

**SPED 596. Selected Topics in Special Education (1-4)**

Specialized study of selected topics in special education. May be offered as either a workshop or lecture/discussion. May be repeated with new content. See *Class Schedule* for specific content. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

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**GRADUATE COURSES**  
**Refer to the *Graduate Bulletin*.**

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# Speech, Language, and Hearing Sciences

In the College of Health and Human Services

**OFFICE: Speech, Language, and Hearing 221**  
**TELEPHONE: 619-594-7746 / FAX: 619-594-7109**

Accredited in speech-language pathology and audiology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology and in the education of the deaf by the Council on Education of the Deaf.

## Faculty

Emeritus: Allen, Cheng, Christensen, Davies, Nichols, Riedman, Seitz, Thal, Thile, Williams

Director: Wulfeck

Professors: Barlow, Emmorey, Gutierrez-Ciellen, Kramer, Mackersie, Newhoff, Shapiro, Wulfeck

Associate Professors: Dreisbach Hawe, Evans, Love-Geffen, Torre, III  
Assistant Professors: Blumenfeld, Nip, Pruitt

Lecturers: Branch, Dorricott, Fischer, Forestal, Georgeson, Guthrie, Kotas, Lopes, Millsap, Scheer-Cohen, Schmitz, Sottak, Struxness, Turner, Vintinner

Adjunct: Singh

## Offered by the School

Doctor of Philosophy degree in language and communicative disorders.

Doctor of Audiology.

Master of Arts degree in speech, language, and hearing sciences.

Major in speech, language, and hearing sciences with the B.A. degree in liberal arts and sciences.

Certificate in bilingual speech-language pathology  
(refer to the *Graduate Bulletin*).

Speech language pathology credential.

## The Major

The School of Speech, Language, and Hearing Sciences is committed to preparing speech-language-hearing professionals to meet the challenges of a racially, ethnically, and linguistically diverse society. There are limited employment opportunities for holders of the bachelor's degree; the bachelor's degree in speech, language, and hearing sciences serves as the basis for graduate and professional study in speech, language, and hearing sciences. A master's or professional doctoral degree, national certification and/or state licensure or school credential are needed for professional practice in areas such as speech-language pathology, audiology, education of the deaf and hard-of-hearing, teaching American Sign Language (ASL) as a second language, ASL linguistics, and ASL interpreting. A research doctorate (Ph.D.) is required for individuals wishing a research and teaching career at the university level.

Speech-language pathology, audiology, and education of the deaf and hard-of-hearing are professions which identify, help, and study persons with communicative disorders. Those entering these professions should possess a strong motivation to help individuals with genetically, physically, or psychologically caused communication problems. Preparation involves acquiring the knowledge and skills necessary to assume responsibility for assessment, education and rehabilitation of persons with speech, language, and hearing disorders.

The master's degree is an advanced degree for those wanting to work professionally as a speech-language pathologist or educator of the deaf. A professional doctorate is required for those wanting to work professionally as an audiologist. Positions in speech, language, and

hearing sciences are available in many public and private settings working with persons with speech, language, hearing, and deaf-blind disorders. Graduates with certification or licensure work in rehabilitation centers, schools, hospitals, private agencies, private practice, industry, research, and university teaching and research centers. Career opportunities are particularly good for minority, bilingual or bicultural persons.

The undergraduate curriculum is broad, involving coursework on normal and disordered speech, language, and hearing, as well as clinical procedures. All speech, language, and hearing sciences majors cover a set of general studies in early coursework (23-35 units) before specialization (36-41 upper division units). Students interested in the speech, language, and hearing sciences program are advised to take college level courses in anatomy, biology, psychology, English, physiology, linguistics, physics, and mathematics. Studies leading to private practice, hospital work, industrial work, work in school settings, or preparation for graduate work are similar in many ways; it is the area of specialization that serves to differentiate courses of study.

## Speech, Language, and Hearing Sciences Major Honors

The School of Speech, Language, and Hearing Sciences formally recognizes exceptional undergraduate students in the program and encourages them to engage in research in the field. Students with a GPA of 3.5 or higher will be eligible to apply for admission to the school's honors program during the fall semester of their junior year.

**Application.** Interested students must complete an application that will be reviewed by the school's honors adviser who will make a recommendation to the admittance for each applicant. Once admitted to the program, honors students will begin their official program during the spring semester of their junior year. The program will take 1-1/2 years to complete. Each student will be required to maintain a GPA of 3.5 or higher and show evidence of progress through the honors program.

**Faculty Mentor.** Each student will select a research mentor (faculty sponsor) by the end of the junior year. The mentor will help the student select a program of study for the senior year. This will lead to a formal research prospectus for the honors project which will be due to the mentor and the honors adviser by October 1 of the student's senior year.

**Honors Project.** The student will conduct a research project and write up a formal honors report to be submitted to the research mentor and honors adviser at the end of the spring semester of the senior year. Each student will present the honors research at a school symposium at that time. The honors research must comply with all Human Subjects IRB regulations.

**Requirements.** Speech, Language, and Hearing Sciences 491 during the spring semester of the student's junior year and Speech, Language, and Hearing Sciences 492A and 492B during the fall and spring semesters of the senior year, respectively. No more than three units of honors courses may apply towards the required 29 units for the speech, language, and hearing sciences undergraduate major.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

SLHS

### Speech, Language, and Hearing Sciences Major

With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 12201)

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 68 units in speech, language, and hearing sciences courses can apply to the degree.

A minor is not required with the major.

**Preparation for the Major.** Speech, Language, and Hearing Sciences 101, 106, 150; Biology 100; Psychology 101 and 260; Psychology 280 (Sociology 201, Statistics 119 or 250 can be substituted for Psychology 280). Students in American Sign Language and deaf studies are required to take Speech, Language, and Hearing Sciences 102, 201, 202. (23-35 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All speech, language, and hearing sciences majors are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exceptions must be approved by the dean of the college for students who, because of serious and compelling life events or physical limitations, cannot meet this requirement). Specific details can be found on the college Web site at <http://www.chhs.sdsu.edu/international>.

**Major.** Students elect to follow one of three tracks for the major: (a) *Audiology*, (b) *American Sign Language and Deaf Studies*, or (c) *Speech-Language Pathology*. Within these three tracks, requirements for the speech, language, and hearing sciences major are as follows:

(a) **Audiology (SIMS Code: 550108).** Speech, Language, and Hearing Sciences 300, 305, 320, 321, 340, 340L, 511, 512, 513, 580, and six units selected from Speech, Language, and Hearing Sciences 350, 491 or 492A, 499, 514, 595; Biology 336; Counseling and School Psychology 400. (36 units)

(b) **American Sign Language and Deaf Studies (SIMS Code: 550109).**

No new students are currently being admitted to this track due to temporary budget cuts. Contact the undergraduate adviser in Speech, Language, and Hearing Sciences for additional information.

Speech, Language, and Hearing Sciences 300, 305, 320, 321, 340, 340L, 350, 357, 513, 550, 558; and nine units selected from Speech, Language, and Hearing Sciences 511, Linguistics 454, 520, 551, 553; Psychology 340, 344, 442; Special Education 500, 501, 502. (40 units)

(c) **Speech-Language Pathology (SIMS Code: 550110).** Speech, Language, and Hearing Sciences 300, 305, 320, 321, 340, 340L, 503, 511, 512, 513, 514, 580. (36 units)

Students pursuing a graduate degree should consult the *Graduate Bulletin* for required undergraduate preparation.

**Time Limitation.** All courses for the major must be completed within seven years for the granting of the undergraduate degree. Any course completed more than seven years prior to the date on which all requirements for the degree are completed cannot be used to satisfy unit requirements for the degree. Exceptions for individual courses must be approved by the department and filed with the Office of Advising and Evaluations.

### Credential

The School of Speech, Language, and Hearing Sciences offers academic and practica coursework applicable to the Speech Language Pathology (SLP) Credential (Credential Code: 00900), required for working in California public schools.

Applicants to a credential program are required to submit scores from the California Basic Education Skills Test (CBEST) as part of the application for admission to a credential program. Note that the CBEST is given only three or four times each year.

Credential candidates are required to have the Certificate of Clearance (finger printing) prior to beginning the school experience. Candidates should apply for the Certificate of Clearance several months prior to submitting an application to the school for public school practicum placement in order for the certificate to be processed in time for the placement.

#### Speech Language Pathology (SLP) Credential Language, Speech and Hearing (Credential Code: 00900)

Students desiring to work with pupils with speech-language and hearing impairments on an itinerant or pull-out basis must complete the Speech Language Pathology (SLP) Credential for Language, Speech and Hearing (LSH). A master's degree in speech, language, and hearing sciences is required of all candidates graduating with a SLP credential. Candidates for SLP credential in Language, Speech and Hearing (LSH) must complete the requirements for the Certificate of Clinical Competence (CCC) from the American Speech-Language Hearing Association and the requirements of California licensure in Language and Speech. See sections on Certificates and Licensure.

#### Admission Requirements:

1. Formal application to San Diego State University and to the School of Speech, Language, and Hearing Sciences. All applicants for the credential must satisfy the admission requirements of the university and of the school for classified graduate standing and be recommended by the school for admission to the credential program.
2. California Basic Education Skills Test (CBEST) results.
3. Interview with the coordinator of the Language, Speech and Hearing credential.

#### Program Requirements:

1. The credential program requires a master's degree in Speech-Language Pathology.
2. The following courses are also required: Speech, Language, and Hearing Sciences 525, 541, 546, 618A, 618B, 626A, 626B, 626C, 627, 929, 933. In addition, students must complete at least one of the following courses: Speech, Language, and Hearing Sciences 521, 522, 619, or 676.
3. The program of professional preparation for the SLP Credential in Language and Speech requires a minimum of 75 semester credit hours, including a minimum of 27 semester credit hours in basic sciences and a minimum of 36 semester credit hours in professional coursework. At least 30 of the 36 semester credit hours must be in courses for which graduate credit is received, and at least 21 of the 30 graduate semester credit hours must be in the professional area for which the credential is sought. The candidate must complete a minimum of 25 supervised observation hours and 350 clinical contact hours including 50 clock hours in each of three types of clinical setting. This credential also requires that a minimum of 100 clock hours be completed in the school setting. See the section on Certificates and the Credential Coordinator for additional information.

## Certificates and Licensure

### Preparation Leading to the Certificate of Clinical Competence in Speech-Language Pathology and Audiology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology

Students may complete the academic and clinical practice requirements leading to the Certificate of Clinical Competence in Speech-Language Pathology (CCC-Sp) or to the Certificate of Clinical Competence in Audiology (CCC-A) given by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. The certificate requires a professional doctorate in audiology (refer to *Graduate Bulletin*), a master's degree in speech-language pathology, and specialized clinical experiences. The applicant must pass a national examination in the area for which the certificate is sought and complete a Clinical Fellowship (following approval of academic coursework and clinical practica). Consult an adviser in the area in which certificate is desired.

### Preparation Leading to State Licensure in Speech Pathology or Audiology

Students may complete the academic and clinical practicum requirements leading to California State Licensure in Speech Pathology or in Audiology, a legal requirement for all individuals professionally employed in non-public school settings and some public school settings. The Speech Pathology and Audiology Examining Committee which operates within the California State Board of Medical Quality Assurance requires a master's degree or equivalent in speech, language, and hearing sciences in the area (Speech Pathology or Audiology) in which the license is to be granted, 300 clock hours of supervised clinical experience, a national examination, and nine months of full-time supervised work experience (Required Professional Experience). For audiology, the fourth year externship satisfies the Required Professional Experience. Most Licensure and ASHA Certification requirements may be fulfilled concurrently. Consult an adviser in the area in which licensure is desired for specific information.

## Courses (SLHS)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**No credit will be given for Speech, Language, and Hearing Sciences 101, 102, 201, and 202 taken out of sequence.**

#### SLHS 101. American Sign Language I (4) [GE]

American Sign Language structure, use, literature, and deaf culture. Introductory level communication competence in ASL. Not open to students who completed three years of high school American Sign Language classes unless the third course was completed five or more years ago. (Formerly numbered Speech, Language, and Hearing Sciences 159.)

#### SLHS 102. American Sign Language II (4) [GE]

Prerequisite: Speech, Language, and Hearing Sciences 101.

Continuation of Speech, Language, and Hearing Sciences 101. Beginning level communication competence in American Sign Language. Not open to students who completed four years of high school American Sign Language classes unless the fourth course was completed five or more years ago. (Formerly numbered Speech, Language, and Hearing Sciences 259.)

#### SLHS 106. Communicative Disorders (3)

Orientation to field of speech pathology and audiology. Survey of communicative disorders, covering all areas of exceptional, normal growth and development as it relates to speech and language.

#### SLHS 150. Sign Languages and Deaf Culture (3) [GE]

Introduction to sign languages, deafness and deaf culture. General issues of human language, language learning, and minority societies.

#### SLHS 201. American Sign Language III (4) [GE]

Prerequisite: Speech, Language, and Hearing Sciences 102.

Continuation of Speech, Language, and Hearing Sciences 102. Intermediate level communication competence in American Sign Language. Not open to students who completed five years of high school American Sign Language classes unless the fifth course was completed five or more years ago. (Formerly numbered Speech, Language, and Hearing Sciences 289.)

#### SLHS 202. American Sign Language IV (4) [GE]

Prerequisite: Speech, Language, and Hearing Sciences 201.

Continuation of Speech, Language, and Hearing Sciences 201. Practice of all language skills of American Sign Language at the intermediate to advanced level.

#### SLHS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### SLHS 300. Introduction to Language Science (3)

Structure, acquisition, processing, and neurological organization of language in typical and disordered communication.

#### SLHS 305. Hearing and Speech Sciences (4)

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106.

Concepts of hearing and speech science. Hearing science component to include physical acoustics, anatomy and physiology of auditory system, and psychoacoustics. Speech science component to include speech acoustics. Not open to students with credit in Speech, Language, and Hearing Sciences 205 and 323.

#### SLHS 320. Phonetics (3)

Two lectures and three hours of laboratory.

Principles of speech production and practical skills in discriminating and transcribing sounds of various dialects in English and other languages, as well as clinical populations. Competency in IPA broad and narrow transcription, classification of speech sounds, and patterns of speech.

#### SLHS 321. Anatomy, Neurology, and Physiology of Speech (4)

Three lectures and three hours of laboratory.

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106. Recommended: Psychology 260.

Anatomy and physiology of neural, respiratory, phonological, and articulatory systems related to speech.

#### SLHS 340. Principles of Audiology (3)

Prerequisites: Speech, Language, and Hearing Sciences 305, Psychology 260, concurrent registration in Speech, Language, and Hearing Sciences 340L.

Diagnostic audiology procedures: Pure-tone testing, masking, speech recognition testing and immittance. Integration and interpretation of results from the basic audiological test battery.

#### SLHS 340L. Techniques of Audiometry (1)

Three hours of laboratory.

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 340.

Laboratory experience with pure-tone, speech, and immittance audiometric tests.

#### SLHS 350. Advanced Topics in Deaf Studies (3)

Prerequisites: Speech, Language, and Hearing Sciences 150; credit or concurrent registration in Speech, Language, and Hearing Sciences 201.

Specialized topics in contemporary deaf culture. Topics in American Sign Language, literature, culture, and linguistics.

SLHS



## Speech, Language, and Hearing Sciences

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### **SLHS 357. Fieldwork with the Deaf (1) Cr/NC**

Two hours of activity per unit of credit and one hour of staffing.

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 201 or competency in American Sign Language.

Field observation and participation under supervision in school settings with small groups of hearing impaired youngsters. Maximum credit three units.

### **SLHS 491. Honors Special Study (2)**

Prerequisites: Junior standing and formal admission to speech, language, and hearing sciences honors program.

Current research and methodology in communicative sciences and disorders, with emphasis on faculty research programs in the School of Speech, Language, and Hearing Sciences.

### **SLHS 492A. Honors Project and Symposium (3) Cr/NC**

Prerequisites: Senior standing and admission to speech, language, and hearing sciences honors program.

Preparation of a research project for the honors program.

### **SLHS 492B. Honors Project and Symposium Extension (3) Cr/NC**

Prerequisite: Speech, Language, and Hearing Sciences 492A.

Completion and presentation of research project for the honors program.

### **SLHS 496. Topics in Speech, Language, and Hearing Sciences (1-4)**

Study of some problem in speech, language, and hearing sciences. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

### **SLHS 499. Special Study (1-3)**

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### **UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)**

### **SLHS 503. Low Incidence Communicative Disorders (3)**

Prerequisites: Speech, Language, and Hearing Sciences 320 and 321.

Characteristics, etiologies, assessment, and intervention strategies for fluency, voice, and craniofacial/cleft palate disorders.

### **SLHS 511. Pediatric Aural Rehabilitation (3)**

Prerequisites: Speech, Language, and Hearing Sciences 320, 340. Recommended: Speech, Language, and Hearing Sciences 300, 357, and 513.

Theoretical, methodological, and technical issues related to facilitating receptive and expressive communication in individuals who are deaf or hard-of-hearing. Emphasizes multidisciplinary case management of children.

### **SLHS 512. Phonological Acquisition and Disorders (3)**

Prerequisite: Speech, Language, and Hearing Sciences 320.

Phonology, phonological development, and phonological disorders as they relate to basic linguistic theory. Concepts considered through critical thinking and problem-solving.

### **SLHS 513. Language Development and Disorders in Early Childhood (3)**

Prerequisites: Speech, Language, and Hearing Sciences 300, 320, 321.

Language and communication development, delay, and disorders as they relate to theory and clinical practice in children from infancy through preschool age.

### **SLHS 514. Language Development and Disorders in School Age Children and Adolescents (3)**

Prerequisites: Speech, Language, and Hearing Sciences 300, 320, 321.

Language development, delay, and disorders as they relate to developmental theory and clinical practice for school-age children from 5 through 18 years of age.

### **SLHS 521. Speech-Language Screening of Children (1) Cr/NC**

Four hours of supervision.

Prerequisite: Clinic clearance.

Screening speech and language of children in various community facilities and settings.

### **SLHS 522. Speech-Language Screening of Adults (1)**

Four hours of supervision.

Prerequisite: Clinic clearance.

Screening speech and language of adults in various community facilities and settings.

### **SLHS 525. Clinical Processes (1-2)**

Prerequisite: Consent of instructor.

Clinical issues, policies, and methods in speech-language pathology. Experience in writing lesson plans and clinical reports. Clinical observation to partially fulfill requirements for certification. Maximum credit five units.

### **SLHS 541. Hearing Screening of Children (1) Cr/NC**

Three hours of laboratory screening per week.

Prerequisites: Speech, Language, and Hearing Sciences 340 and 340L.

Field experiences in audiometric and impedance screening of children to obtain contact hours in screening required by American Speech-Language-Hearing Association, California License, and Clinical-Rehabilitative Services credential.

### **SLHS 546. Clinical Practice with Aural Rehabilitation (0.5)**

Two hours of supervision.

Prerequisites: Grade of C or better in Speech, Language, and Hearing Sciences 511 and a minimum of two units in Speech, Language, and Hearing Sciences 525.

Supervised practicum in aural rehabilitation. One unit represents two hours of clinical contact and one hour of staffing per week.

### **SLHS 550. Deaf Studies and Education (3)**

Prerequisites: Speech, Language, and Hearing Sciences 150; and 201 or competency in American Sign Language.

History and current trends in deaf studies and education; contemporary issues; elementary, secondary and higher education programs for young deaf students; communication and visual technologies; federal laws and legal precedents; activism and leadership in deaf community; diverse career opportunities.

### **SLHS 558. ASL Structure and Acquisition (3)**

Prerequisites: Speech, Language, and Hearing Sciences 150; and 201 or competency in American Sign Language.

ASL phonology, morphology, syntax, and discourse structure, including simple and complex sentence structure, storytelling, and sociolinguistics. Analyzing language samples in ASL. Developing lesson plans to teach ASL to deaf and hard-of-hearing children.

### **SLHS 570. Dysphagia (3)**

Prerequisite: Consent of instructor.

Measurement techniques and research in dysphagia. Assessment and treatment of dysphagia and swallowing problems in children and adults.

### **SLHS 580. Communication Processes and Aging (3)**

Prerequisite: Twelve upper division units in an appropriate major.

Normal and disordered communication processes in the aging.

### **SLHS 595. Research Practicum (1-3)**

Prerequisites: Consent of instructor and approval of school chair.

Participation in a specific research activity under faculty supervision. Maximum combined credit of six units of Speech, Language, and Hearing Sciences 595 and 795.

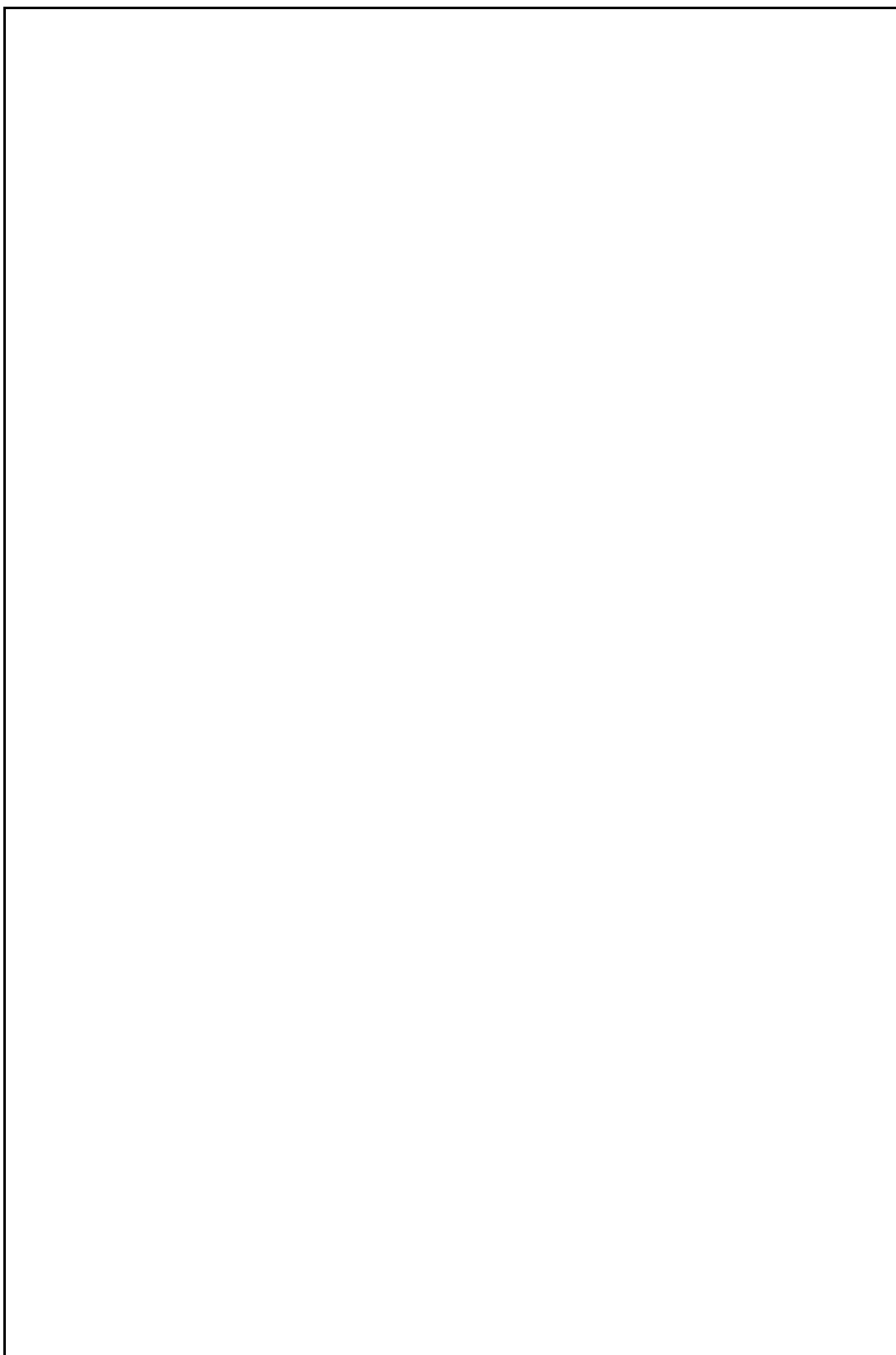
### **SLHS 596. Selected Topics in Speech, Language, and Hearing Sciences (1-4)**

Prerequisite: Twelve units in speech, language, and hearing sciences courses.

Specialized study of selected topics from the area of speech-language pathology, audiology, education of the hearing impaired, and speech and hearing science. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

### **GRADUATE COURSES Refer to the *Graduate Bulletin*.**

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# Statistics

In the College of Sciences

**OFFICE: Geology/Mathematics/Computer Science 413**  
**TELEPHONE: 619-594-6191**

## Faculty

Emeritus: Bell, Burdick, Macky, Moser, Park, Romano  
Chair: Shen  
Coordinator for Statistics: Lui  
Professors: Fan, Levine, Lui  
Associate Professor: Lin  
Assistant Professors: Bailey, Chen, Duncan  
Lecturers: Manchester, Noble

## Offered by the Department of Mathematics and Statistics

Master of Science degree in statistics.

Concentration in biostatistics.

Major in statistics with the B.S. degree in applied arts and sciences.

Emphasis in actuarial science.

Emphasis in statistical computing.

Minor in statistics.

## The Major

Statistics is the science which studies data – its collection, description, analysis, and interpretation. Almost all modern professions, from economists to engineers and from social scientists to medical scientists, rely on statistics. Statistical methods are used for studying relationships, predicting results, testing hypothesis, and a variety of other purposes.

The Bachelor of Science degree in statistics is designed to provide students with a fundamental understanding of probability and mathematical statistics, a complementary knowledge of basic methods for data collection and inference, and practical computing skills to carry out statistical analyses of problems in many different areas of application.

One option within the major allows students with a strong interest in statistical or biostatistical aspects of a particular science to apply courses in that science to their major. This option should provide the interested student with a good background for employment or graduate work in statistics, biostatistics, or in that science. Emphases in actuarial science and statistical computing enable students to pursue further specializations aligned with professional opportunities in these areas.

Statistics is the discipline at the heart of the scientific method of discovery. Statistical principles are used in designing experiments and surveys to collect information, and statistical procedures are applied to summarize information, draw conclusions, and make decisions.

Because of the broad applicability of their training in statistical reasoning and data analysis, undergraduate majors are prepared for careers in diverse fields – such as biotechnology, environmental science, insurance, industrial manufacturing, and market research – in which the need for professionally trained statisticians is great.

Graduates who seek to acquire additional skills in applied or theoretical statistics may also consider programs of advanced study at the master's or doctoral level. Statisticians with advanced degrees are sought for senior positions in industry and government, as well as teaching positions in secondary schools, community colleges, and universities.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Statistics Major

**With the B.S. Degree in Applied Arts and Sciences**

**(Major Code: 17021) (SIMS Code: 776371)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

Upon entry to the program, the student will be assigned to an undergraduate adviser in statistics. Thereafter, the student will meet with the adviser each semester and discuss his or her academic program. A program of study must be approved by the undergraduate adviser in statistics.

In addition to meeting the requirements for undergraduate standing and the basic requirements for the bachelor of science degree as described in this catalog, the student must complete a Graduation Writing Assessment Requirement and must complete a minimum of 60 units of coursework as described below.

**Preparation for the Major.** Statistics 119 or 250; Mathematics 150, 151, 245, 254. (17 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Additional Lower Division Coursework Required.** Mathematics 252, Computer Science 106 or 107. (7 units)

**Major.** A minimum of 36 upper division units to include Statistics 350A, 350B, 510, 551A, 551B, 560; six units selected (with the approval of the undergraduate adviser in statistics) from Statistics 325, 496, 520, 570, 575, 580, 596; 12 upper division units in statistics, mathematics (excluding Mathematics 302, 303, 312, 313, 414), computer science, or a science of application (selected with the approval of the undergraduate adviser in statistics).

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

### Emphasis in Actuarial Science

**(SIMS Code: 776372)**

This emphasis is designed to prepare students for careers in the actuarial profession, applying probability and statistical models to problems of insurance and finance. Actuaries improve financial decision making by evaluating the current financial implications of uncertain future events. Students completing this emphasis would also be well prepared for graduate study in actuarial science or statistics.

**Preparation for the Major.** Statistics 119 or 250; Accountancy 201; Computer Science 106 or 107; Economics 101, 102; Mathematics 150, 151, 245, 252, 254. (33 units) The student must complete these courses before being allowed to register for the upper division finance courses.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 36 upper division units to include Statistics 350A, 350B, 551A, 551B, 575; Economics 320, 321; Finance 323, 327; three units selected from Statistics 325, 496, 510, 560, 570, 596; six units selected from Finance 421, 427; Mathematics 544, 580, 581.

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

### Emphasis in Statistical Computing (SIMS Code: 776373)

Modern day statistics applications require heavy computing for manipulating massive data sets, mining immense databases, and implementing computationally intensive data analytic tools to solve complex scientific problems. This emphasis is designed to prepare students for careers in statistics by providing them with the data analytic and computational machinery needed to excel in all avenues of statistical science during an information age where statistical computing plays a crucial role. Students completing this emphasis would also be well prepared for graduate study in statistical computing and statistics.

**Preparation for the Major.** Statistics 250, Mathematics 150, 151, 245, 252, 254, Computer Science 107, 108, 205. (30 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units to include Statistics 325, 350A, 510, 551A, 551B, 580; Mathematics 541, Computer Science 310, 320; six units selected (with the approval of the undergraduate adviser in statistics) from Computer Science 501, 503, 505, 514, 520, 550, 553, 558, 559, 560; six upper division units in statistics, computer science, or a science of application with a heavy statistical computing component (selected with the approval of the undergraduate adviser in statistics).

**Master Plan.** A master plan of the courses taken to fulfill the major must be approved by the adviser and filed with the Office of Advising and Evaluations.

### Statistics Minor (SIMS Code: 776369)

The minor in statistics consists of a minimum of 15 units in statistics to include Statistics 250 (or equivalent), 350A, 350B or 510, and six units of upper division electives in statistics. For Statistics 550 and 551A, students must satisfy lower division calculus and linear algebra prerequisites (Mathematics 151, 252, and 254 as appropriate).

The minor program includes a combination of courses in applied statistical methods, computer-oriented data analysis, probability, and mathematical statistics, which can be tailored to the student's major, academic, or professional interests. For example, business students interested in actuarial science may wish to consider a minor comprising Statistics 350A, 350B, 551A, and 551B. Students in the social, behavioral, and natural sciences who are particularly interested in applications and data analysis may wish to consider a minor comprising Statistics 350A, 350B, 510, and 520.

Students considering a minor in statistics are encouraged to consult with their major adviser and with the minor adviser in statistics. Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

## Courses (STAT)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

**NOTE: Proof of completion of Entry-Level Mathematics requirement required for Statistics 119 and 250: Copy of ELM score or verification of exemption.**

#### STAT 119. Elementary Statistics for Business (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Measures of central tendency and variability, frequency distributions; probability, Bayes theorem, probability distributions (including binomial, hypergeometric, and normal), sampling distributions, confidence intervals, significance testing, regression and correlation. Not open to students with credit in Statistics 250. Students with credit or concurrent registration in the following lower division statistics courses other than Statistics 250 will be awarded a total of four units for the two (or more) courses: Statistics 119; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Psychology 280; Sociology 201.

#### STAT 250. Statistical Principles and Practices (3) [GE]

Prerequisite: Satisfaction of the Entry-Level Mathematics requirement.

Descriptive statistics, data displays, measures of central tendency and variability, random variables, sampling distribution. Estimation and hypothesis tests for means and proportions, linear regression and correlation. Not open to students with credit in Statistics 119. Students with credit or concurrent registration in the following lower division statistics courses other than Statistics 119 will be awarded a total of four units for the two (or more) courses: Statistics 250; Administration, Rehabilitation and Postsecondary Education 201; Biology 215; Civil Engineering 160; Economics 201; Political Science 201; Psychology 280; Sociology 201.

#### STAT 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### STAT 299. Special Study (1-3)

Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units.

STAT

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.**

**STAT 325. SAS Programming and Data Management (3)**

Prerequisite: Statistics 250 or comparable course in statistics.  
Entry, management, and summary of statistical data using SAS programming language. Data structures and manipulation, screen editing, visual displays, macros, related topics.

**STAT 350A. Statistical Methods (3)**

Prerequisite: Statistics 250 or comparable course in statistics.  
One- and two-sample hypothesis tests, paired difference tests, tests for variances, analysis of variance. Linear regression and correlation. Chi-square tests. Simple nonparametric tests. Power of hypothesis tests.

**STAT 350B. Statistical Methods (3)**

Prerequisite: Statistics 350A.  
Multiple regression, factorial models and nonparametric methods, all with emphasis on applications.

**STAT 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**STAT 499. Special Study (1-3)**

Prerequisite: Consent of instructor.  
Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**NOTE: Proof of completion of prerequisites required for all upper division courses: Copy of transcript.**

**STAT 510. Applied Regression Analysis (3)**

Prerequisite: Statistics 250 or comparable course in statistics.  
Methods for simple and multiple regression models, model fitting, variable selection, diagnostic tools, model validation, and matrix forms for multiple regression. Applications of these methods will be illustrated with SAS, SPSS, and/or S-Plus computer packages.

**STAT 520. Applied Multivariate Analysis (3)**

Prerequisite: Statistics 350A or comparable course in statistics.  
Multivariate normal distribution, multivariate analysis of variance, principal components, factor analysis, discriminant function analysis, classification, and clustering. Statistical packages will be adapted for data analysis.

**STAT 550. Applied Probability (3)**

Prerequisites: Mathematics 151 and 254.  
Computation of probabilities via enumeration and simulation, discrete and continuous distributions, moments of random variables. Markov chains, counting and queuing processes, and selected topics.

**STAT 551A. Probability and Mathematical Statistics (3)**

Prerequisite: Mathematics 252.  
Discrete and continuous random variables, probability mass functions and density functions, conditional probability and Bayes' theorem, moments, properties of expectation and variance, joint and marginal distributions, functions of random variables, moment generating functions. Special distributions and sampling distributions.

**STAT 551B. Probability and Mathematical Statistics (3)**

Prerequisite: Statistics 551A.  
Point and interval estimation and hypothesis testing in statistical models with applications to problems in various fields.

**STAT 560. Sample Surveys (3)**

Prerequisite: Statistics 550 or 551A.  
Methods for design and analysis of sample surveys with applications to social and biological sciences. Simple random sampling, stratification and clustering, ratio and regression estimators, subsampling, selected topics in survey methodology.

**STAT 570. Stochastic Processes (3)**

Prerequisite: Statistics 551A.  
Introduction to stochastic processes with selected applications.

**STAT 575. Actuarial Modeling (3)**

Prerequisite: Statistics 550 or 551A.  
Actuarial models and applications of probability and statistics to insurance and other financial risks. Utility theory; risk models, compound processes; survival distributions and life tables; life insurance, annuities and benefits.

**STAT 580. Statistical Computing (3)**

Prerequisite: Statistics 551B.  
Machine computation in development, application, and evaluation of advanced statistical techniques. Floating arithmetic and algorithm stability; numerical methods for parameter estimation (including maximum likelihood) and multivariate probability integration; simulation and other computer-intensive statistical techniques.

**STAT 596. Advanced Topics in Statistics (1-4)**

Prerequisite: Consent of instructor.  
Selected topics in statistics. May be repeated with the approval of the instructor. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES  
Refer to the *Graduate Bulletin*.**

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# Teacher Education

In the College of Education

## SCHOOL OF TEACHER EDUCATION:

**Education and Business Administration 255**

**TELEPHONE: 619-594-6131 / FAX: 619-594-7828**

A Member of the American Association of Colleges for Teacher Education. Accredited by the California Commission on Teacher Credentialing and the National Council for Accreditation of Teacher Education.

## Faculty

Emeritus: Ackerly, Altamura, Bee, Berg, Blanc, Botkin, Burnside, Campbell, Charles, Cornejo, Curry, Duckworth, Elliott, Erickson, Fearn, Ford, Garrison, Gast, Gates, Gega, Goodson, Groff, Hill, Ingmanson, Inskeep, Kaatz, Kelly, Kendall, Lapp, Lujan, McCormack, McCoy, Mehaffy, Mora, Moreno, Murphy, Nagel, A., Nagel, T., Pehrson, Person, Platz, Reel, Retson, Riggs, Rixman, Ross, P., Ross, R., Shaw, Stautland, Strom, Tossas, Tran, Treadway, Wilding, Yesselman

Director: Farnan

Professors: Bezuk, Evans, Farnan, Fisher, Frey, Gallego, Hovda, Mason, Mathison, Mikitka-Gomez, Moss, Neumann (IVC), Pang, Park, Philipp

Associate Professors: Branch, Cappello, Chizhik, A., Chizhik, E., Gibson, Jacobs, Lamb, Nieto, Ross, D., Santa Cruz, Zozakiewicz

Assistant Professors: Alger, Houle, Pierson

Lecturers: Holowach, Littrell, Prime, Telfer, Treger

## Offered by the School

Master of Arts degree in education.

Master of Arts degree in mathematics education (K-8).

Master of Arts degree in reading education.

Master of Arts in Teaching degree.

Multiple subject preliminary teaching credential.

Reading/language arts specialist credential.

Single subject preliminary teaching credential.

Fifth year program for clear multiple or single subject credential (Teacher induction certificate: fifth year).

Algebra specialist certificate (refer to the *Graduate Bulletin*).

Mathematics specialist certificate (refer to the *Graduate Bulletin*).

Primary grade writing instruction certificate

(refer to the *Graduate Bulletin*).

Reading certificate (refer to the *Graduate Bulletin*).

## The Credentials

Students in California's public schools reflect a wide variety of ethnic, linguistic, and cultural backgrounds. The School of Teacher Education is committed to preparing teachers to ensure the academic success of all students. Candidates from underrepresented groups are strongly encouraged to apply.

**The Multiple Subject Credential** qualifies graduates to teach in any K-12 self-contained classroom (a classroom where one teacher is responsible for teaching in all subject fields). For most, this means an elementary or middle school setting but does not preclude an alternative school or school-within-a-school (e.g., pregnant teen) setting. The credential programs includes a study of educational psychology plus a variety of methods courses in subjects commonly taught in elementary schools.

A variety of program options are available to credential candidates. Daytime commitments are required for student teaching placements. Examinations and/or coursework prerequisite to program admission, if not completed within the undergraduate degree program, may extend the total time commitment for credential issuance.

**The Single Subject Credential** qualifies graduates to teach in grades K-12 in a specific subject area. Most candidates prepare to teach in grades 7-12 (usually junior or senior high school) or in a middle

school setting (usually grades 6-8). Students in the program follow a sequence of courses which normally takes two semesters to complete. The first semester of the program emphasizes curriculum theory and development, educational research, and foundations of education and includes a part-time student teaching experience. The second semester focuses on a full-time student teaching experience and accompanying seminar. The program requires a daytime commitment. A part time program is also available. This program provides more flexibility for students who have additional responsibilities. Coursework in this program is offered in the late afternoon and evenings. Examinations and/or coursework prerequisite to program admission, if not completed within the undergraduate degree program, may extend the total time commitment for credential issuance by one or more semesters.

## Multiple Subject (SB 2042) Credential (Elementary Education)

(Credential Code: 00200)

### Multiple Subject-Preliminary Credential

Persons interested in teaching in the traditional elementary school will typically pursue the Multiple Subject credential which authorizes teaching service in self-contained classrooms in preschools, grades K-12, and in classes organized primarily for adults (classrooms in which one teacher is responsible for all the subjects commonly taught). Recommendation for this credential requires:

1. A baccalaureate or higher degree.
2. Completion of an approved program of professional education, including student teaching and coursework in reading methods with a grade point average of 3.0 or higher.
3. Basic skills competency as demonstrated through passing scores on the California Basic Educational Skills Test (CBEST).
4. Demonstrated subject matter competency by passing the Multiple Subjects examination of the California Subject Examinations for Teachers (CSET). Must have scores taken within five years prior to recommendation.
5. Successful completion of the Performance Assessment for California Teachers (PACT).
6. Passing scores on the Reading Instruction Competence Assessment (RICA).
7. Demonstrated knowledge of the principles and provisions of the United States Constitution through successful completion of a three-unit collegiate-level course or examination. Courses are listed in the section of this catalog on "Graduation Requirements," IV. American Institutions Requirement.
8. Knowledge of health education, including substance abuse and nutrition: Public Health 101 or Health and Human Services 280 or approved equivalent.
9. Demonstrated knowledge of the needs of and methods of providing educational opportunities to individuals with exceptional needs: Special Education 450 or 496.
10. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): Educational Technology 470.
11. Verify current training in cardiopulmonary resuscitation (CPR). All candidates for the preliminary credential are required to verify current training in cardiopulmonary resuscitation (CPR). Verification of the CPR training is made through submission of a photocopy of the card issued by the training agency. While many agencies provide CPR training, verification must be made at levels identified by the American Heart Association (AHA) or the American Red Cross (ARC). Candidates pursuing training through agencies other than these will be required to verify the level of training relative to either the AHA or ARC standards either from the data provided directly on their card or on a supplementary letter on letterhead stationery from their training agency (no phone call verifications).

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**NOTE:** Undergraduate students in the Multiple Subject credential program may register for concurrent post-baccalaureate credit in their final semester prior to obtaining a baccalaureate degree as explained in the section of this catalog on "General Regulations."

According to SB 2042 legislation, teachers will be able to earn Professional Clear Credentials upon successful completion of induction programs sponsored by their employers and approved by the California Commission on Teacher Credentialing.

### Admission Standards and Qualifications for the Multiple Subject Credential Program

Candidates for the Multiple Subject Credential Program must satisfy the standards and qualifications listed below and submit complete application packets to the School of Teacher Education, EBA-255. Contact the School of Teacher Education for application dates.

Completed application packets will include items verifying satisfaction of the following:

1. **CBEST Examination.** Students must pass the California Basic Educational Skills Test (CBEST) *prior to admission* to the Multiple Subject credential program. Registration information and materials for the CBEST are available in the lobby of the Education building. Candidates are urged to take this examination as early as possible. Candidates are required to submit a photocopy of the individual score reports.
2. **Subject Matter Competency.** Students must submit passing scores on the California Subject Examination for Teachers-Multiple Subjects (CSET-MS) in order to verify subject matter competency in diversified subjects commonly taught in self-contained classrooms. For the traditional, post-baccalaureate program (see below), test scores must be submitted prior to admission to the program. Test scores submitted for verification of subject matter competency are valid for only five years from the date the first subtest was passed and must be valid at the time of recommendation for the credential. Registration information and registration materials are available at <http://www.cset.nesinc.com>.
3. **Prerequisite Courses.** These courses or approved equivalents must be completed with grades of "C," "CR," or higher no more than seven years prior to admission to the Multiple Subject Credential Program. The courses may be in progress at the time of program application. Proof of registration is required to be considered for admission.
  - a. **Education 451, "Introduction to Multicultural Education."** This course provides an introduction to ethnicity, language, and culture in education, particularly the ways in which those factors differentially affect educational outcomes for children. The course assists in preparing teacher applicants to work with students from diverse backgrounds by examining both societal and personal belief systems and the ways that those beliefs are expressed in public school classrooms.
  - b. **Health and Human Services 280 or Teacher Education 296, "Health Education for Teachers."** This course is a prerequisite for applicants.
  - c. **Mathematics 210, "Number Systems in Elementary Mathematics."** In lieu of Mathematics 210, candidates may substitute any calculus course taken at the college or university with a grade of credit, "C," or higher.
  - d. **Special Education 450, "Classroom Adaptations for Special Populations."** This course is a prerequisite for applicants.

Candidates are required to submit unofficial transcripts from SDSU and official transcripts from all other colleges and universities attended including any current coursework-in-progress to verify completion of or enrollment in these courses.

4. **Grade Point Average.** Candidates must have attained a grade point average of at least 2.67 in all baccalaureate and post-baccalaureate coursework or a minimum 2.67 overall or 2.75 in the last 60 semester units attempted. Candidates are required to submit official transcripts from all colleges and universities attended and unofficial transcripts for SDSU coursework for GPA calculations.

5. **Letters of Recommendation.** Candidates must submit two letters of recommendation from individuals who know the candidate well (but are not related by blood or marriage) and who can comment directly on factors such as the candidate's qualifications for a teaching career in a multicultural setting, work or educational experiences, experience teaching or supervising students or other groups of individuals, personal character, and/or potential for success as a teacher. The signed letters may be hand carried and do not need to be confidential or in sealed envelopes, but must be on letterhead stationery (name, address, and phone number of sender included.) If the letters are not on letterhead, the name, address, and phone number of the sender must be typed on the letter.

6. **TB Clearance.** Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMOs, or public health agencies.

7. **California Certificate of Clearance.** This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turnaround time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. Candidates must submit the application directly to the California Commission on Teacher Credentialing. A copy of the certificate prior to admission must be provided to the School of Teacher Education.

8. **Early Field Experience.** Candidate must successfully complete a minimum of 30 hours of observation and participation in a "regular" classroom in public elementary schools. This is documented through the *Early Field Experience Guide – Multiple Subject* available for downloading from the School of Teacher Education Web site at <http://edweb.sdsu.edu/stel/>.

Either the original or a photocopy of the Early Field Experience Guide must be turned in as part of the application to the credential program.

9. **Personal Narrative.** The narrative (two copies submitted in application) should address the following items:

- a. The candidate's interest in and motivation for a teaching career in a multicultural setting;
- b. The candidate's personal background and experience in working with children in multicultural settings;
- c. Other experiences personally considered important in the teacher preparation process;
- d. Any abilities, knowledge, skills, or experience that will enhance the candidate's effectiveness as a teacher (e.g., ability to speak another language, play a musical instrument, use technologies, or experience working with individuals with disabilities or special needs).

10. **Appeals Process.** Candidates who do not meet all the admission requirements may petition the Multiple Subject Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

In addition to the minimum admissions standards identified above, the Multiple Subject Admissions and Retention Committee also may consider qualifications such as previous teaching experience, relevant working experience with children, and second language ability. Due to the number of applicants, application to the program does not ensure admission.

**NOTE:** Appointments for discussion of individual concerns relative to the credential program may be made with the Multiple Subject Credential Program Adviser during the academic year through the School of Teacher Education, EBA-259, 619-594-6320. All candidates are urged to attend one of the regularly scheduled group advising sessions prior to making an individual appointment.

### Post-Baccalaureate Multiple Subject Preparation Program

To qualify for admission, candidates must have completed (1) a baccalaureate or higher degree and (2) the Admission Standards and Qualifications for the Multiple Subject Credential Program listed above. Each student completes student teaching in two different grade levels; one assignment is at the primary level (in grades K-3) and another is at the intermediate level (in grades 4-6). All students enrolled in the traditional Multiple Subject Teacher Preparation Program will take the following courses.

#### Multiple Subject Required Courses

	Units
TE 902 Classroom Management Skills .....	1
TE 910A Teaching Mathematics in the Elementary School.....	3
TE 910B Teaching Social Studies in the Elementary School.....	3
TE 910C Teaching Science in the Elementary School .....	3
TE 923 Psychological Foundations of Education .....	3
TE 930 Teaching Reading and Language Arts in the Elementary School.....	6
TE 960 Basic Student Teaching Seminar (Cr/NC).....	2
TE 961 Advanced Student Teaching Seminar (Cr/NC).....	2
TE 965 Basic Student Teaching in Elementary Schools (Cr/NC).....	8
TE 966 Advanced Student Teaching in Elementary Schools (Cr/NC).....	8
ED 970 Teaching Event Assessment (Cr/NC) .....	3
EDTEC 470 Technologies for Teaching.....	3
PLC 915A Teaching and Learning in the Content Area: English Language Development/SDAIE .....	3
Total Units	48

### Integrated Multiple Subject Preparation Program

This program is not currently offered due to the suspension of SDSU spring admission. If the ability for spring admission returns, this program may be offered again.

To qualify for admission, students must have completed (1) the Liberal Studies part of the nine-semester Integrated Program (see Liberal Studies) and (2) the Admission Standards and Qualifications for the Multiple Subject Credential Program listed above. Applications for admission are completed during the seventh semester of this nine-semester program. During the "eighth" semester, each student completes classroom observations at a minimum of two different grade levels. During the "ninth" semester, each student completes student teaching either at the primary level (in grades K-3) or at the intermediate level (in grades 4-6). These experiences build upon the extensive experiences already completed in the Liberal Studies part of the Integrated program.

All students enrolled in the Integrated Multiple Subject Teacher Preparation Program will take the following courses in the eighth and ninth semesters of the program.

	Units
TE 910A Teaching Mathematics in the Elementary School.....	3
TE 910B Teaching Social Studies in the Elementary School.....	3
TE 910C Teaching Science in the Elementary School .....	3
TE 923 Psychological Foundations of Education .....	3
TE 930 Teaching Reading and Language Arts in the Elementary School.....	6
TE 961 Advanced Student Teaching Seminar (Cr/NC).....	2
TE 966 Advanced Student Teaching in Elementary Schools (Cr/NC).....	8
ED 970 Teaching Event Assessment (Cr/NC) .....	3
EDTEC 470 Technologies for Teaching.....	3
PLC 915A Teaching and Learning in the Content Area: English Language Development/SDAIE .....	3
Total Units	37

For information on the Blended Integrated Program offered by the Imperial Valley campus, see the *Imperial Valley Campus Bulletin*.

### Single Subject (SB 2042) Credential (Secondary Education)

(Credential Code: 00100)

#### Single Subject–Preliminary Credential

Persons interested in teaching in the traditional secondary school will typically pursue the Single Subject credential which authorizes teaching service in departmentalized, subject matter classrooms in preschools, grades K-12, and in classes organized primarily for adults (classes where instruction is provided in only one subject). Candidates must verify subject matter competency in one of the following subject fields:

#### ACCEPTABLE SINGLE SUBJECT CREDENTIAL AREAS AND APPLICABLE MAJORS

**English language arts:** Comparative Literature, English

**Science:** Biology, Chemistry, Physical Science

**Mathematics:** Mathematics

**Music:** Music

**Physical education:** Kinesiology (Specialization in Physical Education)

**Social science:** Social Science

Recommendation for this credential requires:

1. A baccalaureate or higher degree.
2. Completion of an approved program of professional education, including student teaching with a grade point average of 3.0 or higher.
3. Basic skills competency as demonstrated through passing scores on the California Basic Educational Skills Test (CBEST).
4. Demonstrated subject matter competency through completion of an approved waiver program in one of the California Single Subject areas, through a combination of coursework and competency examinations, or through California Subject Examinations for Teachers (CSET). Candidates should check with the School of Teacher Education, EBA-255, to clarify the appropriate means for satisfaction of the subject matter competency requirement in their subject matter area(s). Competency must be verified and assessed by a designated departmental adviser regardless of the means of establishing knowledge proficiency.
5. Demonstrated knowledge of the principles and provisions of the United States Constitution through successful completion of a three-unit collegiate-level course or examination. Courses are listed in the section of this catalog on "Graduation Requirements," IV. American Institutions Requirement.
6. Current certification in cardiopulmonary resuscitation (CPR).
7. Successful completion of the Performance Assessment for California Teachers (PACT).
8. Knowledge of health education, to include substance abuse and nutrition: Health and Human Services 280 or Teacher Education 296 – Health Education for Teachers (1 unit) or approved equivalent.
9. Demonstrated knowledge of the needs and methods of providing educational opportunities to individuals with exceptional needs: Special Education 450 or 496.
10. Demonstrated knowledge of computer hardware, software, and applications to educational/classroom use (computer literacy): Educational Technology 470.

**NOTE:** Undergraduate students in the Single Subject credential program may register for concurrent post-baccalaureate credit in their final semester prior to obtaining a baccalaureate degree as explained in the section of this catalog on "General Regulations."

#### Admission Standards and Qualifications for the Single Subject Credential Program

Candidates for the Single Subject Credential Program must satisfy the standards and qualifications listed below and submit complete application packets to the School of Teacher Education, EBA-255. Contact the School of Teacher Education for application dates.

Completed application packets will include items verifying satisfaction of the following:

1. **CBEST Examination.** Students must pass the California Basic Educational Skills Test (CBEST) prior to admission to the Single Subject Credential Program. Information may be obtained from the Student Testing, Assessment and Research Office, SS-2549.



Candidates are urged to take this examination as early as possible. Candidates are required to submit a photocopy of the individual score reports.

2. **Subject Matter Competency.** Students must verify competency in a specified single subject area through a university assessment process which consists of reviewing coursework for completion of an approved teaching major or its equivalent at San Diego State University or another approved California teacher-training institution, passing scores on the appropriate CSET examinations. Competency will be assessed and verified by subject matter departments at SDSU. Requirements for the various single subject majors are listed with the academic majors in this catalog. Early submission of completed application packets is encouraged to facilitate enrollment and preference in block placement. Applicants submitting materials late in the term may be considered on a "space available basis" only. Test scores submitted for verification of subject matter competency are valid for five years from the date of the examination. Information and registration materials for all current examinations are available at <http://www.cset.nesinc.com>.

3. **Prerequisite Courses.** These courses or approved equivalents must be completed with grades of "C," "CR," or higher no more than seven years prior to admission to the Single Subject Credential Program. The course may be in progress at the time of program application. Proof of registration is required to be considered for admission.

a. **Education 451, "Introduction to Multicultural Education."**

This course provides an introduction to ethnicity, language, and culture in education, particularly the ways in which those factors differentially affect educational outcomes for children. The course assists in preparing teacher applicants to work with students from diverse backgrounds by examining both societal and personal belief systems and the ways that those beliefs are expressed in public school classrooms.

- b. **Health and Human Services 280 or Teacher Education 296, "Health Education for Teachers."** This course provides topics designated in the Health Framework for California to include how to infuse health topics into the general curriculum.

- c. **Special Education 450, "Classroom Adaptations for Special Populations."** This course provides strategies for adapting curriculum, differentiating instruction, meeting social and behavioral needs, and modifying assessments for students with disabilities and/or gifted and talented students in general education classrooms.

4. **Grade Point Average.** Candidates must have attained a grade point average of at least 2.67 in all baccalaureate and post-baccalaureate coursework or a minimum 2.67 overall or 2.75 in the last 60 semester units attempted. Candidates are required to submit official transcripts from all colleges and universities attended and unofficial copies of transcripts for SDSU coursework for GPA calculations.

5. **Letters of Recommendation.** Candidates must submit two letters of recommendation from individuals who know the candidate well (but are not related by blood or marriage) and who can comment directly on factors such as the candidate's qualifications for a teaching career in a multicultural setting, work or educational experiences, experience teaching or supervising students or other groups of individuals, personal character, and/or potential for success as a teacher. The signed letters may be hand carried and do not need to be confidential or in sealed envelopes, but must be on letterhead stationery (name, address, and phone number of sender included.) If the letters are not on letterhead, the name, address, and phone number of the sender must be typed on the letter.

6. **TB Clearance.** Evidence of a negative tuberculosis test (these tests are valid for four years and must be in effect during the time that candidates are enrolled in the credential program). Clearance statements may be secured from Health Services, private physicians or HMOs, or public health agencies.

7. **California Certificate of Clearance.** This certificate represents a background clearance and check conducted by the State Department of Justice and Federal Bureau of Investigation. Turn-around time for the clearance can take as long as eight months. Possessors of K-12 California credentials may satisfy this requirement by submitting copies of those certificates. Candidates must submit the application directly to the California Commission on Teacher Credentialing. A copy of the certificate prior to admission must be provided to the School of Teacher Education.

8. **Early Field Experience.** Candidate must successfully complete a minimum of 30 hours of observation and participation in a "regular" classroom in public secondary schools. This is documented through the *Early Field Experience Guide – Single Subject* available for downloading from the School of Teacher Education Web site at <http://edweb.sdsu.edu/stel/>.

Either the original or a photocopy of the Early Field Experience Guide must be turned in as part of the application to the credential program.

9. **Personal Narrative.** The narrative should address the following items:

- a. The candidate's personal background and experience working with children in multicultural settings;
- b. The candidate's other experiences personally considered important in the teacher preparation process;
- c. The candidate's interest in and motivation for a teaching career in a multicultural setting and;
- d. Any abilities, knowledge, skills, or experience that will enhance the candidate's effectiveness as a teacher (e.g., ability to speak another language, use technologies, or experience working with individuals with disabilities or special needs).

10. **Appeals Process.** Candidates who do not meet all the admission requirements may petition the Single Subject Admissions and Retention Committee for individual consideration; petition forms must be submitted concurrently with the application packets.

In addition to the minimum admissions standards identified above, the Single Subject Admissions and Retention Committee also may consider qualifications such as previous teaching experience, relevant working experience with children, and second language ability. A personal interview may also be necessary. Due to the number of applicants, application to the program does not ensure admission.

**NOTE:** *Appointments for discussion of individual concerns relative to the credential program may be made with the Single Subject Credential Program Adviser during the academic year through the School of Teacher Education, EBA-259, 619-594-6320. All candidates are urged to attend one of the regularly scheduled group advising sessions prior to making an individual appointment.*

### Single Subject Required Courses

		Units
TE 903	Secondary School Student Teaching Seminar (Cr/NC) .....	2
TE 914	Teaching and Learning in the Content Area: Major .....	3
TE 922	Behavioral and Psychological Aspects of Teaching .....	3-4
TE 933	Teaching of Reading in the Secondary School .....	3
TE 954	Humanistic and Social Aspects of Teaching .....	4
TE 963	Secondary School Student Teaching I (Cr/NC/RP) .....	4
TE 964	Secondary School Student Teaching II (Cr/NC/RP) .....	12

ED 970	Teaching Event Assessment (Cr/NC)	3
EDTEC 470	Technologies for Teaching	3
PLC 915B	Teaching and Learning in the Content Area: English Language Development/SDAIE	3
Total Units		40-41

## Information Applicable to Both Multiple Subject and Single Subject Credentials

Departmental admission to either the Multiple Subject or Single Subject credential program does not constitute admission to the university. Candidates who are entering the university for the first time, or who have graduated or who are graduating, and are planning to re-enroll for the credential program must file a separate application for admission to the university during the regular university application period.

### Advanced Standing in Teacher Education

A student transferring into San Diego State University to complete requirements for either the Preliminary or Professional Clear Multiple Subject or Single Subject credential must complete a minimum of six units of professional education coursework in residence at SDSU in order to be recommended for certification regardless of the extent of education work completed at other institutions.

### Evaluation of Credits

After an interval of five years, courses in education are reevaluated and subject to reduction in credit, in light of new requirements and changes in educational procedures. All courses taken either at this university or elsewhere must be approved by an official adviser in order to be credited toward meeting credential requirements or pattern requirements for a degree.

### GPA Requirements For Continuation in Multiple Subject / Single Subject Credential Programs

A grade point average of 3.0 must be maintained each semester to permit a student to continue in the Multiple Subject and Single Subject credential programs.

### Supplementary Authorizations

With completion of additional units in certain curriculum areas, both Single and Multiple Subject teachers can be granted supplementary authorizations to teach in generalized areas in middle and junior high schools (e.g., Introductory English). Single subject teaching credential candidates can also be granted supplementary authorizations to teach in specialized areas K-12 (e.g., psychology). Information on requirements for these supplementary authorizations is available through the Credentials Processing Center, EBA-250.

## Description of Interdepartmental Major for Elementary Teaching

**Liberal Studies Major  
With the B.A. Degree in Applied Arts and Sciences  
(Major Code: 49015) (SIMS Code: 886453)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

A minor is not required with this major.

Refer to the section of the catalog on "Liberal Studies" for an outline of the requirements for this major.

The following coursework is required for acceptance into the education program and may be included in the Liberal Studies major unless otherwise noted:

Education 451  
Mathematics 210

General advising for the Liberal Studies major is available at the Academic Advising Center.

## Fifth Year Program for Clear Multiple or Single Subject Credential

The Teacher Induction Certificate: Fifth Year is approved by the Commission on Teacher Credentialing (CTC) to address the specific statutory coursework requirements for the Clear SB 2042 Multiple or Single Subject Credential for those teachers who do not have access to a district induction program. It may be used to meet specific statutory requirements in collaboration with districts that do provide an induction program. This coursework may be applied to advanced degree programs offered by the College of Education.

**Prerequisites:** A valid SB 2042 Preliminary Multiple or Single Subject Credential, or the equivalent, and verification by the employing school district or private school employer that an induction program is not available to the applicant. This coursework cannot be taken prior to issuance of the preliminary credential.

### Courses required for the Teacher Induction Certificate: Fifth Year (12 units)

	Units
TE 601	Schools and the Pedagogy of Health Education .....3
EDTEC 570	Advanced Teaching with Technologies .....3
PLC 651	Curriculum, Teaching, and Assessment: ELD and SDAIE .....3
SPED 600	Advanced Classroom Adaptations for Special Populations .....3

**Requirements for the Clear SB 2042 Credential:** Teachers may apply for the Clear SB 2042 Multiple or Single Subject Credential through the College of Education Office of Student Services with documentation of completion of the 12 units listed above plus 18 semester post-graduate units from one of the following options:

- Post-baccalaureate study undertaken to complete an approved program of professional preparation.
- Pursuit of an approved program for an advanced or specialized credential.
- Pursuit of a master's or higher degree in education or related areas.
- A program of in-service training for which college or university credit is awarded.

A minimum 3.0 grade point average is required in all coursework pursued for the clear credential with no less than a grade of C in any course.

For additional information, contact Lisa McCully, Director of the Office of Student Services, in the College of Education at:

[lmccully@mail.sdsu.edu](mailto:lmccully@mail.sdsu.edu)

TE

The Fifth Year Program is under review by the California Commission on Teacher Credentialing and subject to change. Contact Dr. Lozada-Santone for current information.

## Courses (TE)

Refer to *Courses and Curricula and University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

**Note to all Multiple Subject and Single Subject credential candidates: All credential courses are listed and described in the Graduate Bulletin under the 900-series courses.**

### LOWER DIVISION COURSES

#### TE 170. Child and Adolescent Development from a Cultural Perspective (3) [GE]

(Same course as Child and Family Development 170)

Theories of human development using a cultural/ecological framework applied to case studies and direct observations. Open only to liberal studies majors. Not open to students with credit in Child and Family Development 170, 270, or Psychology 230. (Formerly numbered General Studies 130.)

#### TE 211. Field Experience in Mathematics and Science (1) Cr/NC

Two hours of activity and 10 hours of fieldwork.

Prerequisite: Recommended for sophomore or higher level students.

Guided classroom observations for prospective single subject mathematics and science teachers. Current issues in mathematics and science education and strategies that promote professional development. Issues related to teaching in culturally and linguistically diverse school settings.

#### TE 284. Valuing Human Diversity (3)

Valuing human diversity that enriches societies. Bridges to valuing human diversity, such as race, gender, language, and spirituality, as well as barriers to valuing human diversity, such as classism, sexism, racism, and anti-semitism.

#### TE 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### TE 303. The Teaching Profession: First Clinical Experience (3-4) (Offered only at IVC)

Two or three lectures and three hours of laboratory.

Prerequisites: Requires clearance for all legally mandated fingerprint requirements, tuberculosis clearance, and others as required by state and/or school districts.

Social science concepts and theories for the teaching profession; guided student observation and participation in public school classrooms.

#### TE 362. Fieldwork in Community Settings (1-4)

One lecture and one to six hours of activity.

Prerequisites: Consent of instructor and intent to enroll in teaching credential programs.

Tutoring process and teaching strategies for the content being tutored. Maximum credit six units.

#### TE 397. Problems in Education (1-4) (Offered only in Extension)

Prerequisite: Consent of instructor.

Class study of specially selected problems in education. Does not apply to pattern requirements for credentials. Credit earned in this course not applicable to a bachelor's degree.

#### TE 402. Foundations of Education (3) (Offered only at IVC)

Prerequisite: Admission to multiple or single subject teaching credential program.

Combines disciplines of anthropology, economics, history, philosophy, political science, psychology, and sociology to introduce student to concepts and generalizations informing the teaching and learning process in modern classrooms.

#### TE 415. Methods and Materials of Instruction (3) (Offered only at IVC)

Prerequisite: Admission to single subject teaching credential program.

Teaching concerns, instructional planning and materials, classroom management, measurement and evaluation, effective discipline, curriculum, computer literacy, special problems encountered in teaching, career planning, school-community communication processes.

#### TE 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

#### TE 499. Special Study (1-3)

Prerequisite: Consent of instructor. Open only to senior and graduate students in education who have shown ability to work independently.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### TE 511. Assessment in Mathematics Education (3)

Techniques to assess and develop students' mathematical understanding. For use by elementary and secondary classroom teachers and mathematics education specialists.

#### TE 526. Teaching the Special Child in the Regular Classroom (3)

Prerequisite: Teaching credential or admission to multiple or single subject credential programs.

Prepares general education teachers to adapt curriculum and instruction, differentiate instruction, meet social and behavioral needs, modify instruction for students with disabilities and for students who are gifted and talented. Not for multiple or single subject credential candidates. Not open to students with credit in Special Education 450, Teaching the Special Child in the Regular Classroom.

#### TE 530. Children's/Adolescents' Literature (3)

Survey of children's/adolescents' literature and its incorporation into the classroom curriculum.

#### TE 596. Topics in Teacher Education (1-3 or 6) RP\*

Designed to meet the needs of individuals or groups of teachers who wish to develop or continue the study of some problem. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

\* Specified sections.

### GRADUATE COURSES Refer to the *Graduate Bulletin*.

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# Theatre, Television, and Film

In the College of Professional Studies and Fine Arts

**OFFICE: Dramatic Arts 201**

**TELEPHONE: 619-594-6363 / FAX: 619-594-7431**

**<http://tff.sdsu.edu>**

Accredited by the National Association of Schools of Theatre.

## Faculty

Emeritus: Anderson, Annas, Blue, Harvey, A.C., Harvey, M., Heighton, Howard, Jameson, Johnson, Jones, Lee, Madsen, Martin, McKerrow, Meador, O'Donnell, Ofield, Real, Reid, Salzer, Stephenson, Witherspoon, Wylie

Director: Reinholz

The Don W. Powell Chair in Scene Design: Funicello

Filmmaker in Residence: Ofield

Professors: Durbin, Freeman, Kalustian, Larlham, M., Larlham, P., Lauzen, Reinholz, Schreiber, Wolf

Associate Professors: Cirino, Hopkins, Morong, Powell

Assistant Professors: Bedau, Bliznakova, Stein

Lecturers: Katz, Keith, Marshall, Orr, Pierson, Sheehan, Simas

## Offered by the School

Master of Arts degree in theatre arts.

Master of Fine Arts degree in theatre arts.

Master of Arts degree in television, film and new media production.

Major in theatre arts with the B.A. degree in applied arts and sciences.

Emphasis in children's drama.

Emphasis in design and technology for the theatre.

Emphasis in design for television and film.

Emphasis in performance.

Major in television, film and new media with the B.S. degree in applied arts and sciences.

Emphasis in critical studies.

Emphasis in production.

Major in communication with the B.A. degree in liberal arts and sciences.

Emphasis in telecommunications and film.

Minor in theatre arts.

Minor in television, film and new media.

## The Don W. Powell Chair in Scene Design

The Don W. Powell Chair in Scene Design was established through a trust provided by the late professor emeritus. Professor Powell, who retired after 30 years with the theatre department, created the trust in order to enhance theatre education at SDSU. The current holder of The Don W. Powell Scene Design Chair is the nationally acclaimed designer Ralph Funicello.

## Filmmaker in Residence

The position of Filmmaker in Residence is unique in the CSU system. It was established to provide a professional link between the Television and Film program and the media industry in a rapidly evolving technological environment. The Filmmaker in Residence is the film and television producer Jack Ofield.

## Distinguished Visiting Artists

Through the generosity of the College of Professional Studies and Fine Arts, the School of Theatre, Television, and Film is fortunate to have Edward Albee and Marion Ross, two distinguished theatre artists, spend time with students and faculty each year. Edward Albee has for many years come to San Diego State University each spring. He is the recipient of many honors including three Pulitzer prizes and is best known for his play *Who's Afraid of Virginia Woolf*. Marion Ross is a graduate of our program and has had an illustrious career in theatre, television, and film. For many years, she played the mother on the TV

series "Happy Days." Both Mr. Albee and Ms. Ross generously share their insights and are examples for our students of the highest professional achievements.

## General Information

The School of Theatre, Television, and Film has a threefold mission: 1) to provide quality education on the undergraduate and graduate levels for students seeking careers in all areas of theatre and media; 2) to support the university's central mission to educate the whole person in the liberal arts tradition; and 3) to foster academic and creative interaction between established and emerging artists on campus and off. The School is specifically geared to assist students in their efforts to seek professional work in various fields of theatre and media, to seek teaching positions at all levels, and to contribute to the cultural life of the community.

A strong, accomplished faculty of teacher-scholar-artists and a broad cross-arts curriculum guide students toward an understanding of how the arts interact, as well as an appreciation of the significant role of the arts in civilized society and the pursuit of human happiness. Supervised internships with theatre companies, television stations, film companies, individual artists, schools and academies provide students with important practical experience for their future careers. The value of academic coursework or internships completed as part of an international experience is stressed.

The bachelor's degree in Theatre Arts prepares students for careers as actors, directors, playwrights, stage and theatre managers, designers, teachers, and more. Students may pursue a general emphasis in theatre arts or specialize in a single emphasis area (Performance, Children's Drama, Design and Technology, Design for Television and Film). The program encourages involvement in all aspects of production, from direction and performance to dramaturgy and design. In addition to a broad spectrum of courses, the School presents an annual six-play season, open to the San Diego community, affording students numerous design and performance opportunities. The study and public performance of musicals, classical and contemporary drama, and plays for young audiences are key components of the program. Further professional growth opportunities are provided through association with regional theatre companies as well as visits to campus by theatre professionals.

The bachelor's degree in Television, Film and New Media is designed to prepare students in the moving image arts for careers as producers, directors, writers, art directors, editors, sound and lighting designers, cinematographers, videographers, sound engineers, and animators, as well as careers in new media production. The program's professional focus on storytelling, both fiction and nonfiction, using sound and moving images, includes theory, philosophy, and technique. The integrated film-television program implicitly acknowledges that these media are a fundamental facet of contemporary culture, not only in terms of presenting fictional stories that help define our culture's values and problems, but also in terms of presenting news, politics, topical issues, and historic events in "documentary" form. State-of-the-art methods are a part of all of the film and media production courses, several of them heavily focused on new media and the infrastructure of the Information Age. The TFM program has been in the vanguard of the move to seamlessly combine film, television, and digital technologies to better prepare students for the challenging future. In addition to an array of courses, TFM provides annual industry screenings, festival screenings, and television exposure for outstanding student productions.

The School of Theatre, Television, and Film operates teaching facilities that include the 500-seat Don Powell Theatre, a 200-seat experimental theatre, and a 281-seat film screening theatre; scenic and costume construction facilities for both theatre and film; a large color television studio, computer labs, digital editing bays, and a Maya animation lab. Research facilities include a historical costume collection, a design research center, an extensive musical theatre archive, and the STAR Lab for technical theatre research.

THEA

## Impacted Programs

All programs in the School of Theatre, Television, and Film are impacted. To be admitted to the selected program, refer to the program description for specific impacted criteria.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Theatre Arts Major

**With the B.A. Degree in Applied Arts and Sciences**  
**(Major Code: 10071)**

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements."

Neither a minor nor a foreign language is required with this major.

**Impacted Program.** The theatre arts major is an impacted major. To be admitted to the theatre arts major, students must meet the following criteria:

- Complete with a grade of C or higher: Theatre 100, 120, 130 (or appropriate transfer equivalents). These courses cannot be taken for credit/no credit (Cr/NC);
- Have a cumulative GPA of 2.40 or higher.

The following program and emphases require coursework and GPA requirements in addition to those listed above. These courses cannot be taken for credit/no credit (Cr/NC).

- General Theatre Arts Program:** Television, Film and New Media 160 must be completed with a grade of C or higher.
- Emphasis in Performance:** Theatre 110 (or transfer equivalent of this course) and Theatre 332 with a GPA of 3.0 or higher.
- Emphasis in Design and Technology for the Theatre and Emphasis in Design for Television and Film:** Theatre 240 (or transfer equivalent of this course) with a GPA of 2.7 or higher.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### General Theatre Arts Program

**(SIMS Code: 662504)**

**Preparation for the Major.** Theatre 100, 110, 120, 130, 240, Television, Film and New Media 160 (18 units). Theatre 100, 120, 130, and Television, Film and New Media 160 must be completed with a grade of C or higher and cannot be taken credit/no credit (Cr/NC).

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 32-33 upper division units in theatre to include Theatre 325, 359, 446A (one unit), 446B (one unit), 460A, 460B, 465; and 15-16 units selected from the following sequences of which a minimum of three units must be selected from *Design* and six units from *Performance*:

**Design:** 3-6 units selected from Theatre 440, 447, 452, 548.

**Technical Theatre:** 4 units selected from Theatre 349, 448, 541, 545, 549, 554B.

**Performance:** 6-9 units selected from Theatre 310, 315, 332, 350, 351, 431, 459.

**Management:** 2-3 units selected from Theatre 345 or 475A or 476.

### Emphasis in Children's Drama

**(SIMS Code: 662527)**

**Preparation for the Major.** Theatre 100, 110, 120, 130, 240, Television, Film and New Media 160 (18 units). Theatre 100, 120, and 130 must be completed with a grade of C or higher and cannot be taken credit/no credit (Cr/NC).

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 29 upper division units to include Theatre 310, 315, 325, 359, 446A (one unit), 446B (one unit), 460A, 460B, 510; Teacher Education 530; and three units selected from Theatre 329A, 329B, 440, 447, 452, 459, 475A, 475B, 476.

### Emphasis in Design and Technology for the Theatre

**(SIMS Code: 662552)**

To declare an Emphasis in Design and Technology for the Theatre Arts major, in addition to the criteria for admission to the General Theatre Arts program, students must complete the following:

- Theatre 240 (or transfer equivalent of this course) with a GPA of 2.7;
- Submit portfolio of design work (see undergraduate design adviser for details). Transfer students should include a letter of support from previous school if no design work is available.

**Preparation for the Major.** Theatre 100, 120, 130, 240, Television, Film and New Media 160 (15 units). Theatre 100, 120, and 130 must be completed with a grade of C or higher and cannot be taken credit/no credit (Cr/NC). Theatre 240 must be completed with a minimum GPA of 2.7.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 35 upper division units in theatre to include Theatre 325, 359, 440, 442A or 442B, 446A (one unit), 446B (one unit), 447, 452, 460A, 460B, 530A or 530B; and three units selected from Theatre 540, 547, 548, 552; and four units selected from Theatre 349, 448, 539, 541, 545, 546, 549, 550, 554A, 554B. Additional electives: Theatre 345, 475A, 570A, 570B.

### Emphasis in Design for Television and Film

**(SIMS Code: 662564)**

To declare an Emphasis in Design for Television and Film, in addition to the criteria for admission to the General Theatre Arts program, students must complete the following:

- Theatre 240 (or transfer equivalent of this course) with a GPA of 2.7;
- Submit portfolio of design work (see undergraduate design adviser for details). Transfer students should include a letter of support from previous school if no design work is available.

**Preparation for the Major.** Theatre 100, 120, 130, 240, Television, Film and New Media 160 (15 units). Theatre 100, 120, and 130 must be completed with a grade of C or higher and cannot be taken credit/no credit (Cr/NC). Theatre 240 must be completed with a minimum GPA of 2.7.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units in theatre to include Television, Film and New Media 350, 550, Theatre 325, 359, 440, 442A or 442B, 446A (one unit), 446B (one unit), 447, 452, 460A, 460B, 530A or 530B; and three units selected from Television, Film and New Media 401, 551, Theatre 490, 540, 547, 548, 552; and two units selected from Theatre 448, 539, 541, 545, 546, 549, 550, 554A, 554B.

### Emphasis in Performance

**(SIMS Code: 662592)**

To declare an Emphasis in Performance, in addition to the criteria for admission to the General Theatre Arts program, students must complete the following:

- Theatre 110, 130 (or transfer equivalent of these courses) and Theatre 332;
- GPA of 3.0 or higher in the above courses;
- A written positive review of student's work by the instructor of Theatre 332.

**Preparation for the Major.** Theatre 100, 110, 120, 130, 240, Television, Film and New Media 160 (18 units). Theatre 100, 120, and 130 must be completed with a grade of C or higher and cannot be taken credit/no credit (Cr/NC). Theatre 110 and 332 must also be completed with a GPA of 3.0.

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Rhetoric and Writing Studies 305W or 500W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Study/Internship Abroad Requirement.** Completion of a study abroad or internship abroad selected from the CSU/SDSU Study Abroad Program; SDSU Exchange Program; SDSU Semester Abroad Program; SDSU Study Travel Program; SDSU approved Study Abroad Program offered by other accredited institutions, theatre internship, independent study, or experience offered by the school or university which offers significant intercultural content to the student (a significant experience in a culture other than one's own).

**Major.** A minimum of 29 upper division units in to include Theatre 325, 332, 355, 359, 446A (one unit), 446B (one unit), 446C (two units), 460A, 460B; and either Theatre 523, 555A or 555B; and six units selected from Theatre 350, 351, 430, 431, 434, 523, 532, 533A, 533B. Additional electives: Theatre 320A or 320B, 345, 349, 435, 459, 465, 475A, 475B. All performance emphasis, theatre majors are required to participate in general auditions each semester.

## Television, Film and New Media Major

With the B.S. Degree in Applied Arts and Sciences  
(Major Code: 06031)

All candidates for a degree in applied arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." To complete the television, film and new media major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

### Emphasis in Critical Studies (SIMS Code: 667308)

The emphasis in critical studies guides students in the study of the history, theory, aesthetics, and cultural significance of film, television and new media. This emphasis offers a degree, which can be used for many different career paths, including graduate study, media industry coordination and production, and museum and archival work.

**Impacted Program.** The emphasis in critical studies is designated as an impacted program. To be admitted to the television, film and new media major with an emphasis in critical studies, students must meet the following criteria:

- Have a cumulative grade point average of 3.00 or higher;
- Complete with a grade of B or higher: Theatre 100, 120, Television, Film and New Media 110, 160.

These courses cannot be taken for credit/no credit (Cr/NC).

**Preparation for the Major.** Theatre 100, 120; Television, Film and New Media 110, 160. (12 units)

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or Journalism and Media Studies 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 39 upper division units to include Television, Film and New Media 310, 330, 363, 364A, 364B, 462; nine units selected from Television, Film and New Media 470, 530, 571, 573; and 12 units selected from Africana Studies 465 or French 465, Anthropology 439, Chicana and Chicano Studies 400, Classics 350, European Studies 424, German 320, History 436, Journalism and Media Studies 408, 410, Religious Studies 364, Television, Film and New Media 470, 490, 499, 530, 571, 573, or Theatre 460A, 460B, 465, 530B. A minor is not required with this major.

### Emphasis in Production (SIMS Code: 667304)

The emphasis in production prepares students for professions in television, film and new media. The emphasis also serves those in occupations where extensive knowledge is required of message design for these media and their various distribution systems. This program focuses on skills required for careers as producers, directors, art directors, production assistants, and writers, as well as emerging careers in new media production.

**Impacted Program.** The emphasis in production is designated as an impacted program. To be admitted to the television, film and new media major with an emphasis in production, students must meet the following criteria:

- Complete with a grade of B or higher: Theatre 100 and Television, Film and New Media 160. These courses cannot be taken for credit/no credit (Cr/NC);
- Submit a personal statement to be evaluated by the faculty;
- Submit two letters of recommendation to be evaluated by the faculty;
- Complete a minimum of 15 transferable semester units;
- Have a cumulative grade point average of 3.00 or higher;
- Submit samples of visual creative work;
- Submit a treatment for a 1-3 minute production (fiction or non-fiction).

**Preparation for the Major.** Television, Film and New Media 110, 121, 122, 123, 160; Theatre 100, 120. (21 units) Television, Film and New Media 160 and Theatre 100 must be completed with a grade of B or higher and cannot be taken credit/no credit (Cr/NC).

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above, or Journalism and Media Studies 310W, or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 42 upper division units to include Television, Film and New Media 360, 361; six units selected from Television, Film and New Media 310, 470, 530, 571, 573; 12 units selected from Television, Film and New Media 322, 340, 510, 560, 561; 15 units selected from Television, Film and New Media 321, 322, 327, 330, 340, 350, 363, 364A, 364B, 401, 430, 462, 465, 490, 499, 510, 522, 550, 551, 560, 561, 565, 569, 590; and three units selected from Television, Film and New Media 341, History 435, Music 351, or Theatre 359. A minor is not required with this major.

## Communication Major

With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 06033)

THEA

### Emphasis in Telecommunications and Film With the B.A. Degree in Liberal Arts and Sciences

No new students will be admitted to this emphasis.

To complete the telecommunications and film emphasis, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

**Impacted Program.** The telecommunications and film emphasis is designated as an impacted program. To be admitted to the telecommunications and film major, students must meet the following criteria:

- Complete with a grade of B or higher: Television, Film and New Media 160 and Journalism and Media Studies 200. These courses cannot be taken for credit/no credit (Cr/NC);
- Complete a personal statement to be evaluated by the faculty;
- Submit two letters of recommendation to be evaluated by the faculty;
- Have a cumulative grade point average of 3.00 or higher.

**Preparation for the Major.** Television, Film and New media 110, 160; six units selected from Television, Film and New Media 121, 122, 123; and Journalism and Media Studies 200. (15 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to section of catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or Journalism and Media Studies 310W or Rhetoric and Writing Studies 305W with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 24 upper division units to include Communication 300; Journalism and Media Studies 440, 460, 480; and 12 units of upper division electives in the School of Communication approved by the adviser. Students selecting the telecommunications and film emphasis are required to complete a minor outside the School of Communication.

### Theatre Arts Minor

(Minor Code: 10071) (SIMS Code: 662504)

The minor in theatre arts consists of 20-21 units in theatre to include Theatre 100, 120, 130, 240, 460A or 460B; three units selected from Theatre 325, 431, 465, or 476; and two to three units selected from Theatre 315, 355, 442A, 442B, 475A, or 555A.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and General Education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

### Television, Film and New Media Minor

(Minor Code: 06031) (SIMS Code: 667306)

The minor in television, film and new media is designed for students in business, English, music, prelegal, theatre, or other majors related to the writing, production, and distribution of media. The minor consists of a minimum of 21 units to include Theatre 100; Television, Film and New Media 110, 160, 310; six units selected from Television, Film and New Media 363, 364A, 364B, 430, 462; and three units selected from Television, Film and New Media 330, 470, 530, 571, 573. Admission to the Television, Film and New Media minor requires completion of at least 30 units with a minimum grade point average of 3.0 overall and completion of Theatre 100 and Television, Film and New Media 160 with grades of B or better.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed at San Diego State University.

## Courses (THEA & TFM)

Refer to *Courses and Curricula* and *University Policies* sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES IN THEATRE (THEA)

#### THEA 100. Theatre and Civilization (3) [GE]

Introduction to theatre as a reflection of society and a contributor to development of civilization. Emphasis on theatre's continuing relevance to contemporary world. Attendance at selected theatre events required.

#### THEA 110. Fundamentals of Voice for Actors (3)

Kinesthetic exercises in vocal production leading to improved vocal function using the methods of leading exponents of voice-work for the theatre, to include: Alexander technique, Fitzmaurice voice-work, and Linklater technique. Development of vocal warmup.

#### THEA 115. Acting for Nonmajors (3)

Improvisational exercises (verbal and nonverbal) in sensory awareness, observation, concentration, listening, and response skills with application to other fields. Individual presentation techniques for the preprofessional in other disciplines.

#### THEA 120. Heritage of Storytelling (3) [GE]

Three lectures and attendance at selected performances.

Survey of significant concepts over a wide history of theatre, television, and film. Analysis of classical, contemporary, realistic, and avant-garde examples; exploring influence of historical narrative forms on contemporary storytelling.

#### THEA 130. Acting I (3)

Development of individual's ability to express thought and emotion through effective use of the voice and body. These fundamental concepts may be applied to stage, film, and television acting.

#### THEA 231. Acting II (3)

Prerequisites: Theatre 110 and 130.

Continuation of Theatre 130, emphasizing application of fundamental skills to problems of text analysis, subtext, playing action, characterization, and ensemble work.

#### THEA 240. Theatre Design and Technology I (3)

Two lectures and three hours of laboratory.

Prerequisite: Theatre 100. **Proof of completion of prerequisite required:** Copy of transcript.

Design, technical practices, and production organization for the theatre. Not open to students with credit in Theatre 240A, 240B, or 240C.

#### THEA 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES IN THEATRE (Intended for Undergraduates)

#### THEA 305. Production Aesthetics in Film and Stage (3)

Two lectures and two hours of activity.

Prerequisites: Theatre 100, 120; Television, Film and New Media 160. Theatre majors: Theatre 130, 240. Television, Film and New Media majors restricted to TFM premajors or majors.

Analysis and use of production aesthetics in theatre, television, and film.

#### THEA 310. Creative Drama I (3)

Current philosophies, principles, and techniques of creative drama. Development of the individual through use of dramatic play, imaging, improvisation, and theatre games. Applicable to classroom teaching, counseling, recreation, and senior citizen programs.

#### THEA 315. Theatre for Young Audiences (3)

Current philosophies and practices in theatre for young audiences. Techniques of selecting and producing plays for and with youth. Theatre styles, script analysis, and functions of the production team.

#### THEA 320. Advanced Voice and Text for Actors (3)

Prerequisites: Theatre 110, 130; or by audition.

Techniques of vocal expression in the theatre, primarily in plays with heightened and elevated speech, e.g. Shakespeare and classic Greek drama. Maximum credit six units for Theatre 320B.

A. Select Heightened Speech From the Greeks to Today

B. Performing Specific Character in Department Production

#### THEA 325. Script Analysis (3)

Prerequisites: Theatre 100 and completion of lower division writing competency requirement. **Proof of completion of prerequisites required:** Copy of transcript.

Analysis of representative plays with emphasis on plot and character development, dramatic structure, action, and style.

#### THEA 329. Practicum in Theatre for Young Audiences Cr/NC (329A: 2 units) (329B: 1 unit)

Two hours of activity per unit.

Prerequisite: Theatre 315.

Practical experience in department public performances of plays for young audiences.

A. Rehearsal

B. Performance

**THEA 332. Advanced Acting (3)**

Prerequisites: Theatre 130 and by audition.

Continuation of Theatre 130, emphasizing analysis of literary text in process of creating characters. Scene study and role preparation of significant texts by modern playwrights. May be repeated once with consent of instructor.

**THEA 345. Theatre Marketing and Publicity (3)**

One lecture and four hours of activity.

Prerequisite: Theatre 100.

Practical experience in marketing and publicity for theatres, including PSA's, press releases, layout-graphics for written materials, magazine and newspaper advertisements, marketing strategy and campaign development for a full theatre season.

**THEA 349. Theatrical Makeup (2)**

Two hours per unit.

Prerequisite: Theatre 240.

Planning and application of makeup for stage, film, and television. Classroom exercises and production-related activities.

**THEA 350. Musical Theatre Performance I (3)**

Two lectures and three hours of laboratory.

Prerequisites: Theatre 332 and by audition.

Basic performance techniques in musical theatre. Emphasis on application of acting theory to musical theatre literature. Maximum credit six units.

**THEA 351. Musical Theatre Performance II (3)**

Two lectures and three hours of laboratory.

Prerequisites: Theatre 332 and by audition.

Vocal selections and scenes in musical theatre. Emphasis on characteristics and performance styles. Maximum credit six units.

**THEA 355. Movement for the Theatre I (2)**

Two hours of activity per unit.

Prerequisites: Theatre 332 and by audition for majors. Theatre 115 for theatre minors.

Activities to develop physical skills of the performer. Links between imagination, movement, and body expression leading to character development.

**THEA 359. Directing I (3)**

Prerequisites: Theatre 130, 240, 325. **Proof of completion of pre-requisites required:** Copy of transcript.

Principles and techniques of directing for the stage: play selection, analysis, and interpretation; casting methods; stage composition and movement; and rehearsal procedures.

**THEA 430. Speech for Stage and Screen (3)**

Prerequisites: Theatre 320 and 332.

Exercises and drills to improve articulation in speech. Use of international phonetic alphabet and related media. Sociological issues connected to speech. Research, acquisition, and performance of accents and dialects of English. Maximum credit six units with consent of instructor.

**THEA 431. Workshop in Improvisational Acting (3)**

Prerequisites: Theatre 332 and by audition.

Theories and principles of improvisational acting.

**THEA 434. Audition Techniques for the Actor (3)**

Two lectures and two hours of activity.

Prerequisites: Theatre 320 and 355.

Techniques of auditioning and interviewing in the theatre, film, and television; selecting audition pieces, rehearsing, and performing auditions.

**THEA 435. Acting on Camera (3)**

Two lectures and two hours of activity.

Prerequisites: Theatre 100, 110, 120, 130; Television, Film and New Media 160.

Director-actor-camera collaborations in rehearsal and performance, using single or multi camera television technique. Techniques for preparing and performing monologues and scenes with practical experience in front and behind that camera.

**THEA 438. Shakespeare Touring Production (2)**

Four hours of activity.

Prerequisites: Theatre 100, 120; Television, Film and New Media 160.

Participate in high school outreach touring production.

**THEA 440. Scene Design I (3)**

Two lectures and three hours of laboratory.

Prerequisites: Theatre 240, 325.

Techniques and procedures in application of design, color, and perspective in designing scenery.

**THEA 442. Practicum in Theatrical Production (2)**

Two hours of activity per unit.

Prerequisite: Theatre 240.

Technical theatre production experience for departmental public performances.

**A.** Scenery Construction

**B.** Costume Construction

**THEA 446. Practicum in Performance (446A-446B: 1 unit) (446C: 1-3 units) Cr/NC**

Two hours per unit.

Prerequisite for 446A and 446B: Theatre 240. Prerequisite for 446C: Theatre 100.

Practical experience in departmental public performances. (Theatre 446C formerly numbered Theatre 445A; Theatre 446A and 446B formerly numbered Theatre 445B.)

**A.** Stage Crew. Maximum credit three units for Theatre 446A.

**B.** Costume Crew. Maximum credit three units for Theatre 446B.

**C.** Cast Member. Maximum credit six units for Theatre 446C.

**THEA 447. Lighting Design I (3)**

Two lectures and three hours of laboratory.

Prerequisites: Theatre 240, 325.

Concepts and technologies in lighting for theatre and related performance areas. Emphasis on mechanics of stage lighting, color, instruments, and control. Laboratory and production related activities.

**THEA 448. Theatre Technology (2)**

Two lectures and three hours of laboratory.

Prerequisite: Theatre 240.

Current materials and practices of theatre technology. Advanced construction techniques; stage machinery design and control; special effects; computer applications for stage operations; budget, research, and management procedures.

**THEA 452. Costume Design I (3)**

Two lectures and three hours of laboratory.

Prerequisites: Theatre 240, 325.

Theory and creative application of principles of costume design for various types of production. Emphasis on concept development, character interpretation, research methods, color organization, and fabric selection. Laboratory and production related activities.

**THEA 459. Directing II (3)**

Two lectures and two hours of activity.

Prerequisites: Theatre 359 and consent of instructor.

Experience and group evaluation in directing one-act plays before an audience. Attendance at selected public performances required. Maximum credit six units.

**THEA 460A-460B. History of the Theatre (3-3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Theatre from primitive times to the present. Special attention given to the theatre as a mirror of the social and cultural background of various countries and periods in which it is studied. Theatre 460A is not prerequisite to Theatre 460B.

**THEA 465. Theatre of Diversity (3) [GE]**

Prerequisites: Theatre 325 for theatre majors. Completion of the General Education requirement in Foundations of Learning II.C., Humanities for nonmajors.

Racial, ethnic, political, and social diversity of American landscape as reflected in works of major playwrights of diversity.

THEA



### THEA 475A. Stage Management-Theory (2)

Prerequisite: Theatre 240.

Development of the prompt script, organizational methods, and collaborative personnel interaction. Maximum credit four units.

### THEA 475B. Stage Management-Practicum (3)

Six hours of activity.

Prerequisite: Theatre 475A.

Practical experience in stage managing department productions. Maximum credit six units.

### THEA 476. Event Coordination and the Entertainment Industry (3)

Two lectures and two hours of activity.

Prerequisite: Theatre 240.

All aspects of producing special events, including venue designs and planning, managerial roles of entertainment industry, and how venue planning affects business decisions of these various managers.

### THEA 490. Theatre Internship (1-3) Cr/NC

Prerequisite: Theatre 325; internship contract must be completed prior to registration.

Work with approved theatre organizations off-campus under the combined supervision of theatre personnel and instructors. Maximum credit three units.

### THEA 496. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### THEA 499. Special Study (1-3)

Prerequisite: Consent of instructor.

Individual study. Maximum credit six units.

### UPPER DIVISION COURSES IN THEATRE (Also Acceptable for Advanced Degrees)

### THEA 510. Creative Drama and Language Arts (3)

Prerequisite: Theatre 310.

Advanced techniques in using creative drama to teach literature and language. Emphasis on use of drama in teaching of reading and world literature. Practical experience through fieldwork in elementary or middle school classrooms.

### THEA 523. Stage Combat (2)

Four hours of activity.

Prerequisites: Theatre 355 and by audition.

Skills and choreography of armed and unarmed stage combat. Performance application to selected scenes from world drama.

### THEA 525. Dramaturgy (3)

Prerequisite: Theatre 325 or graduate standing.

Theory and application of various aspects of dramaturgy and theatre literary management. Production-oriented synthesis of advanced text analysis, dramatic theory and criticism, historical research, and dramatic literature. Attendance at select plays required. May be repeated with new content. Maximum credit six units.

### THEA 530. Period Dress and Decor (3)

Prerequisite: Theatre 240 or graduate standing.

Visual survey of relationships and cultural significance of period dress, architecture, and decorative arts as applied to theatrical productions. Emphasis on significant historic periods in dramatic literature. Theatre 530A is not open to students with credit in Theatre 530.

A. Ancient World Through Eighteenth Century

B. NeoClassical Through Twentieth Century

### THEA 532. Advanced Acting and Directing (3)

Prerequisites: Theatre 332 and either Theatre 320 or 355.

Problems in characterization in contemporary drama, and in plays of Ibsen, Strindberg, Chekhov, and Shaw. Maximum credits six units.

### THEA 533A-533B. Theory and Styles in Acting and Directing I and II (3-3)

Prerequisites: Theatre 332 and either Theatre 320 or 355.

Acting and directing problems in theory and style related to the production of plays from great periods in theatre history, with attention to characterization, dramatic values, creative directing, and production approaches.

### THEA 539. Theatre Rendering (2)

Four hours of activity.

Prerequisite: Theatre 240.

Rendering for scenic, costume, and lighting designer. Techniques, media, and portfolio preparation. Maximum credit four units.

### THEA 540. Scene Design II (3)

Prerequisites: Theatre 440 and 530A or 530B.

History of scene design and application of contemporary styles to various types of dramatic production.

### THEA 541. Scene Painting (2)

Four hours of activity.

Prerequisite: Theatre 530A or 530B.

Theories and techniques of scene painting, including both historical backgrounds and modern procedures. Full-scale projects executed in scenery studio.

### THEA 545. Mechanical Drawing for the Theatre (2)

Four hours of activity.

Prerequisite: Theatre 240 or admission to MFA in Design.

Theatre drafting standards and techniques. Floor plans, sections, elevations, perspective drawings, and light plots.

### THEA 546. CADD for the Theatre (2)

Four hours of activity.

Prerequisite: Theatre 545.

Computer aided drafting applications for theatre designer.

### THEA 547. Lighting Design II (3)

Two lectures and three hours of laboratory.

Prerequisite: Theatre 447.

Advanced design theories and lighting practice for theatre and dance. Laboratory and production related activities.

### THEA 548. Sound Design for the Theatre (3)

Two lectures and two hours of activity.

Prerequisites: Theatre 240, 325.

Theories and techniques of sound design and reinforcement for theatrical performance. Laboratory experience in sound production.

### THEA 549. Lighting and Sound Technology (2)

One lecture and three hours of laboratory.

Prerequisite: Theatre 447.

Use of electrics for the stage. Lighting, sound, computer. Practical applications emphasized.

### THEA 550. Software for Theatrical Design (2)

Four hours of activity.

Prerequisites: Theatre 440, 447, 452, or 546.

Application of computer software for theatre, including scenery, costume, lighting, and sound design. Maximum credit four units.

### THEA 552. Costume Design II (3)

Prerequisites: Theatre 452 and 530A or 530B.

Advanced studies in costume design. Emphasis on theatrical style, rendering layout, design problems, materials, and budget.

### THEA 553. Technical Direction (3)

Two lectures and three hours of activity.

Prerequisites: Theatre 240, 442.

Modern technical direction including project management (budgeting and procurement, managing employees); design and engineering; automation, rigging, advanced stagecraft (metalcraft, CNC machinery, composite construction), and safety. Maximum credit six units.

### THEA 554A. Costume Design Technology I (2)

Four hours of activity.

Prerequisite: Theatre 240.

Current materials and practices of costume technology: advanced construction techniques, fabric selection and use, period pattern drafting, draping, and cutting. Maximum credit four units.

### THEA 554B. Costume Design Technology II (2)

Four hours of activity.

Prerequisite: Theatre 240.

Advanced costume craft construction techniques and management procedures for costume production: millinery, fabric dyeing and painting, jewelry, and related crafts. Maximum credit four units.

**THEA 555A. Movement for the Theatre II (2)**

Four hours of activity.  
Prerequisites: Theatre 332 and 355.  
Movement techniques for the theatre. Movement patterns, phrase development, and partnering leading to scene work. Maximum credit four units.

**THEA 555B. Movement for the Theatre II (2)**

Four hours of activity.  
Prerequisites: Admission to the MFA musical theatre program. Consent of instructor for undergraduates.  
Musical theatre movement and dance styles. Maximum credit eight units.

**THEA 570. Practicum in Theatrical Production (1-3)**

Prerequisite: Theatre 440, 447, or 452; or admission to MFA in Design.

Design projects in areas of scenery, costume, lighting, sound, or makeup. Maximum credit six units for Theatre 570A and six units for Theatre 570B.

**A.** Independent Study

**B.** Design for Department Public Performances

**THEA 580. Theatre in the Classroom (3)**

Prerequisites: Theatre 310 and 315.  
Methods of teaching theatre in elementary, middle, and secondary schools. Emphasis on pedagogy, organization of curriculum, play selection, and principles of producing plays in the classroom.

**THEA 596. Selected Topics in Theatre (1-3)**

Prerequisite: Twelve units in theatre.  
A specialized study of selected topics from the areas of theatre. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**LOWER DIVISION COURSES IN TELEVISION,  
FILM AND NEW MEDIA  
(TFM)**

**TFM 110. Writing for Television and Film (3)**

Prerequisites: Satisfaction of the English Placement Test. Ability to type. **Proof of completion of prerequisites required:** Copy of EPT or competency scores or verification of exemption; proof of Cr in Rhetoric and Writing Studies 97, or notification from the Department of Rhetoric and Writing Studies.

Theory and practice in writing for electronic and film media. Introduction to techniques of narrative and documentary writing and scripting.

**TFM 121. Audio Production (3)**

Two lectures and three hours of activity.  
Prerequisite: Credit or concurrent registration in Television, Film and New Media 110.  
Theory of audio production, use of digital recording, and editing equipment.

**TFM 122. Basic 16MM Film Production (3)**

Two lectures and three hours of activity.  
Prerequisite: Limited to television, film and new media production majors.  
16MM film production and non linear editing.

**TFM 123. Basic Video and TV Production (3)**

Two lectures and three hours of activity.  
Prerequisites: Credit or concurrent registration in Television, Film and New Media 110. Limited to television, film and new media production majors.  
Video and TV production including studio and electronic field production. Practical instruction in documentary practices and techniques.

**TFM 160. Cinema as Art (3) [GE]**

Cinema in its diverse forms. Historical and stylistic influences on aesthetic values and social implications of cinema.

**UPPER DIVISION COURSES IN TELEVISION,  
FILM AND NEW MEDIA  
(Intended for Undergraduates)**

**TFM 310. Film, Television, and New Media Criticism (3)**

Prerequisite: Television, Film and New Media 160.  
Critical approaches to study of film, television, and new media. Analyses of media perspectives, to include ideology, semiotics, genre, gender, and spectatorship.

**TFM 321. Sound Design for Video and Film (3)**

Two lectures and two hours of activity.  
Digital audio post-production for video, TV, and film. Includes field acquisition, Foley, editing, and assembling.

**TFM 322. Cinematography for Television and Film (3)**

Two lectures and three hours of laboratory.  
Prerequisites: Television, Film and New Media 122 and 123.  
Basic cinematography, including introduction to specialized studio and location equipment; lighting techniques for film and television; introduction to film labs. (Formerly numbered Television, Film and New Media 522.)

**TFM 327. Film and Video Editing (3)**

One lecture and four hours of activity.  
Prerequisites: Television, Film and New Media 122 and 123.  
Theory and practice of film and video editing.

**TFM 330. Cultural Aspects of Media (3)**

Prerequisite: Television, Film and New Media 160.  
Cultural dimensions of media. Media structures, uses, and effects at national and international levels in a context of humanities and conceptual arts.

**TFM 340. Documentary Production (3)**

Two lectures and two hours of activity.  
Prerequisites: Television, Film and New Media 110, 121, and 122 or 123 with a grade of C (2.0) or better.  
Documentary film production including research techniques, investigative procedures, and collection and analysis of data. Screenings of historical documentaries and their significance in development of non-fiction film. Hands-on field experiences in documentary production.

**TFM 341. Service Learning Video Production (3)**

Two lectures and more than three hours of activity.  
Prerequisites: Television, Film and New Media 110, 121, and 122 or 123 with a grade of C (2.0) or better.  
Service learning video production workshop emphasizing nonfiction field production.

**TFM 350. Staging and Art for Television and Film (3)**

One lecture and six hours of activity.  
Aesthetic considerations and technical practices in staging, lighting, and graphics for television and film. Practical experience in university sponsored productions.

**TFM 360. Intermediate Filmmaking (3)**

Two lectures and more than three hours of activity.  
Prerequisites: Open to television, film and new media majors only. Television, Film and New Media 110, 122, 123 with grade of B (3.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.  
Single camera techniques in production of narrative fiction. Crew-based location and studio production. Responsibilities of producer, director, and key creative production positions. (Formerly numbered Television, Film and New Media 260.)

**TFM 361. Intermediate Television Production (3)**

Two lectures and more than three hours of activity.  
Prerequisites: Television, Film and New Media 110, 121, and 122 or 123 with grade of B (3.0) or better. **Proof of completion of prerequisites required:** Copy of transcript.  
Multi-camera television production techniques for studio, sound stage, and remote multi-camera production. Responsibilities of producer, director, and production staff. (Formerly numbered Television, Film and New Media 261.)

TFM

### TFM 363. International Cinema (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Construction of foreign film to history and practice of cinema as an art. Film as an expression of national culture. Maximum credit six units of which three units may be applicable to General Education. May be repeated with new content. See *Class Schedule* for specific content.

### TFM 364. History of Film Classics (3-3)

Prerequisite: Upper division standing.

Viewing and analysis of American and foreign theatrical films which represent milestones in development of cinema. Maximum credit six units from Television, Film and New Media 364, 364A, and 364B.

A. Early Developments Through the 1950s

B. 1960s Through Today's Cinema

### TFM 401. Business Aspects of Television and Film Production (3)

Prerequisites: Television, Film and New Media 360 or 361. Usually taken concurrently with Television, Film and New Media 560 or 561.

**Proof of completion of prerequisites required:** Copy of transcript.

Financing, preproduction planning, postproduction, and distribution of television and film.

### TFM 430. History of Prime-Time Television (3) [GE]

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

History, trends, and dynamics in the programming of prime-time network television. External and internal forces that influence what we watch.

### TFM 462. Documentary: History and Theory (3) [GE]

Prerequisite: Television, Film and New Media 160 for majors. Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Persuasive concepts, techniques, and forms in documentary film and television programs. Major historical works and their impact on society.

### TFM 465. Compositing (3)

Two lectures and three hours of activity.

Prerequisite: Television, Film and New Media 360 or 361.

Computer-generated imagery and compositing techniques used in feature films and broadcast television.

### TFM 470. Critical Studies of Gender/Sexuality/Media (3)

Prerequisites: Television, Film and New Media 160 for Television, Film and New Media majors and upper division standing.

Critical approaches to representation, production, and reception of gender and sexuality in film, television and new media, including video games and the Internet.

### TFM 490. Internship (3)

Prerequisite: Internship contract must be completed prior to registration.

Work with approved agencies off-campus under the combined supervision of agency personnel and instructor. Maximum credit six units.

### TFM 496. Experimental Topics (1-3)

Prerequisites: Upper division standing and consent of instructor.

Experimental topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### TFM 499. Special Study (1-3)

Prerequisites: Upper division standing and consent of instructor.

Individual study or project, normally in a research area selected by the student. Maximum credit six units.

## UPPER DIVISION COURSES IN TELEVISION, FILM AND NEW MEDIA

(Also Acceptable for Advanced Degrees)

### TFM 510. Advanced Script Writing for Television and Film (3)

Prerequisites: Television, Film and New Media 110, 360 or 361; and satisfaction of the English Placement Test and Writing Competency requirements.

Scripting of dramatic original and adaptation forms, and documentary. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

### TFM 522. Advanced Film and Television Cinematography (3)

Two lectures and three hours of laboratory.

Prerequisites: Television, Film and New Media 322, and 360 or 361.

**Proof of completion of prerequisites required:** Copy of transcript.

Advanced theory and practice of cinematography for film and television production. Lighting for mood and character; camera movement for story telling; and new techniques in film, digital, and HD formats. Careers in the purely visual aspects of film making. (Not the same course as Television, Film and New Media 522 in the 2004-05 catalog and previous SDSU catalogs.)

### TFM 530. Selected Topics in Genre Studies for Television and Film (3)

Film and television genres (noir, western, comedy, musical, science fiction, soap opera, etc.) including key media texts, aesthetics, themes, history, and social context. May be repeated with new course content. See *Class Schedule* for specific content. Maximum credit six units.

### TFM 550. Art Direction for Television and Film (3)

One lecture and four hours of activity.

Prerequisites: Television, Film and New Media 350; 360 or 361 for television, film and new media majors, and Theatre 440 for theatre majors, and consent of instructor. **Proof of completion of prerequisites required:** Copy of transcript.

Aesthetic, technical, and practical aspects of design for television and film. Experience in scenic design, graphics, set decoration, budgeting, and scheduling.

### TFM 551. Production Design for Television and Film (3)

Prerequisites: Television, Film and New Media 350 and credit or concurrent registration in Television, Film and New Media 401.

Theory and analysis of production design concepts for television and film. Development of designs and analysis of technical requirements for fictional and nonfictional productions.

### TFM 560. Advanced Film (3)

Two lectures and more than three hours of activity.

Prerequisites: Television, Film and New Media 360, 361, and 510 with grade of B (3.0) or better in each and consent of instructor. **Proof of completion of prerequisites required:** Copy of transcript.

Practicum in direction and production of dramatic and non-dramatic film. Cameras, lighting, design, sound techniques, experience in university sponsored productions. Completion of a short film.

### TFM 561. Advanced Television (3)

Two lectures and more than three hours of activity.

Prerequisites: Television, Film and New Media 360, 361, 510 with grade of B (3.0) or better in each and consent of instructor.

Production processes and techniques to include producing, critical analysis, directing, digital cinematography, and editing of scripted projects. Experience in individual and university-sponsored productions.

### TFM 565. Animated Film and New Media Techniques (3)

Two lectures and more than three hours of activity.

Computer animation production and practical experience in digital postproduction technologies.

**TFM 569. Advanced Projects in Film and Video (3)**

Two lectures and more than three hours of activity.

Prerequisites: Television, Film and New Media 510, and 560 or 561.

Original and creative work demonstrating significant achievement in film and video production. Maximum credit six units.

**TFM 571. Selected Topics in Director Studies (3)**

Prerequisite: Television, Film and New Media 310.

Historical significance of and theoretical approaches to major media directors (Welles, Hitchcock, Spielberg, etc.) including breadth of work, cultural and generic contexts, aesthetic innovation, and recurring themes. May be repeated with new content. See *Class Schedule* for specific topic. Maximum credit six units.

**TFM 573. Selected Topics in History of Film, TV, and Media (3)**

Prerequisite: Television, Film and New Media 310.

Media history including cultural and generic developments, patterns of exhibition, technological influences, significant creative and industrial figures, commercial and social contexts. May be repeated with new content. See *Class Schedule* for specific topic. Maximum credit six units.

**TFM 590. Directing for Film and Television (3)**

One lecture and six hours of activity.

Prerequisites: Open to television, film and new media majors only. Television, Film and New Media 122 and 123.

Directing fundamentals and production to include script analysis, director's preparation and directing actors. (Formerly numbered Television, Film and New Media 390.)

**TFM 596. Selected Topics in Television, Film and New Media (1-4)**

Prerequisite: Twelve units in television, film and new media.

Specialized study of selected topics from the areas of television, film and new media. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit of six units of 596 applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**

**Refer to the *Graduate Bulletin*.**

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**Urban Studies**

Refer to "Interdisciplinary Programs"  
in this section of the catalog.

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# Vietnamese

In the Department of Linguistics and Asian/Middle Eastern Languages  
In the College of Arts and Letters

**OFFICE:** Education and Business Administration 327  
**TELEPHONE:** 619-594-5268 / **FAX:** 619-594-4877  
**<http://www-rohan.sdsu.edu/dept/linguist/index.html>**

## Faculty

Chair: Osman

## Offered by the Department of Linguistics and Asian/Middle Eastern Languages

Courses in Vietnamese.

Major or minor work in Vietnamese is not offered.

## Language Requirement for the B.A. Degree in Liberal Arts and Sciences

Students electing the study of Vietnamese to fulfill the language requirement for the Bachelor of Arts degree in liberal arts and sciences must successfully complete Vietnamese 201 or the equivalent level of achievement. The usual sequence of coursework is Vietnamese 101, 102, and 201. Refer to section of catalog on "Graduation Requirements" for additional ways to satisfy competency.

## High School Equivalents

High school foreign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

Secondary school language courses can be used as follows:

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course, although students with fewer than three years of high school level language may complete the first semester college course for graduation credit.

2. The first **three years** of high school level language count as the equivalent of the first two college semesters, although students with fewer than four years of high school level language may complete the second semester college course for graduation credit. Students who have completed three years of foreign language in high school will not receive credit for the first semester college course unless at least five years separate the last high school course and the first college course.

3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## Courses (VIET)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

### LOWER DIVISION COURSES

**Native speakers of Vietnamese will not receive credit for taking lower division courses in Vietnamese except with advance approval from the department.**

**No credit will be given for Vietnamese 101, 102, 201 taken out of sequence.**

#### VIET 101. Elementary Vietnamese I (4) [GE]

Introduction to Vietnamese language with emphasis on development of four basic language skills. Essential sentence structures for communication in everyday contexts. Not open to students who have completed three years of high school Vietnamese unless the third course was completed five or more years ago. Not open to students with credit in Vietnamese 102.

#### VIET 102. Elementary Vietnamese II (4) [GE]

Prerequisite: Vietnamese 101 or two years of high school Vietnamese.

Continuation of Elementary Vietnamese I with focus on development of four basic language skills. Emphasis on culturally appropriate conversation for everyday contexts. Not open to students who have completed four years of high school Vietnamese unless the fourth course was completed five or more years ago. Not open to students with credit in Vietnamese 201.

#### VIET 201. Intermediate Vietnamese I (4) [GE]

Prerequisite: Vietnamese 102.

Further development of speaking, reading, listening, and writing skills, with emphasis on language of everyday conversation. Integrated approach to learning Vietnamese to include awareness and appreciation of Vietnamese culture. Not open to students who have completed five years of high school Vietnamese unless the fifth course was completed five or more years ago.

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# Women's Studies

In the College of Arts and Letters

**OFFICE: Arts and Letters 346**

**TELEPHONE: 619-594-6524**

## Faculty

Emeritus: Espín, Huckle, Jones, Kohen, Watson

Chair: Scott

Professors: Cayleff, Donadey, Rothblum, Scott, Zimmerman

Associate Professors: Colwill, Ghosh, Lara, Mattingly

Assistant Professors: Hua, Price

## Offered by the Department

Master of Arts degree in women's studies.

Major in women's studies.

Minor in women's studies.

## The Major

Women's studies explores who women were, who women are, who they might be, and how their lives and human interactions are affected by society's values, traditions, and institutions. SDSU has offered courses in women's studies since 1969 and has one of the strongest academic programs in the nation. Its origins are in the women's movement, and its vision includes a world free of sexual, racial, age, and class distinctions and other inequalities.

Courses are designed to provide students with a coherent, integrated, and academically rigorous education. Content areas include concepts of self and family, theories of sex differences, history, cultural contributions, and the study of society's institutions. The emphasis is on increasing the awareness of objective conditions in women's lives throughout the world, and on developing critical analytical skills.

A degree in women's studies may be used as preparation for a wide range of careers. Professional opportunities exist in political and social agencies working with women and developing public policy on women's issues such as health care, employment, family violence, and education. Women's studies students prepare for careers in such fields as law, journalism, public administration, social services, personnel, and psychology. The skills that women's studies majors develop in critical thinking and analysis are highly valued in many additional occupations and professions today. A women's studies major may also go on to advanced academic work preparing for a career as a women's studies scholar.

Many women's studies majors plan double majors to enhance their career opportunities.

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs Web site was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Women's Studies Major

**With the B.A. Degree in Liberal Arts and Sciences  
(Major Code: 49991) (SIMS Code: 119501)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in women's studies courses can apply to the degree.

Students majoring in women's studies must complete a minor in another field to be approved by the chair or major adviser of the department.

**Preparation for the Major.** Women's Studies 101 and 102. (6 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or above or completing one of the upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**Major.** A minimum of 27 upper division units to include nine units from Group I; 12 units from Group II; and Women's Studies 536 and 590.

**Group I:** Women's Studies 310, 320, 325, 331, 336, 340, 341A-341B, 352, 360, 370, 375, 382, 385; Africana Studies 332\*, Chicana and Chicano Studies 340A\*, General Studies 321\*, 322\*, Political Science 336\*, Religious Studies 370\*.

**Group II:** Women's Studies 512, 515, 520, 522, 530, 535, 540, 545, 553, 560, 565, 572, 580, 581, 582, 595, 596, 598.

\*No more than three units may be applied to the major in women's studies.

## Women's Studies Minor

**(SIMS Code: 119501)**

The minor in women's studies consists of a minimum of 18 units in women's studies, of which 12 units must be upper division to include:

Women's Studies 101, 102, and six units selected from Women's Studies 310, 320, 325, 331, 336, 340, 341A-341B, 352, 360, 370, 375, 382, 385; Africana Studies 332\*, Chicana and Chicano Studies 340A\*, General Studies 321\*, 322\*, Political Science 336\*, Religious Studies 370\*.

Six units selected from Women's Studies 512, 515, 520, 522, 530, 535, 536, 540, 545, 553, 560, 565, 572, 580, 581, 582, 590, 595, 596, 598.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University.

\*No more than three units may be applied to the minor in women's studies.

## Courses (WMNST)

*Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.*

WMNST

### LOWER DIVISION COURSES

#### WMNST 101. Women: Self, Identity and Society (3) [GE]

Interdisciplinary introduction to women's studies thought and scholarship in the social sciences, to include such areas as gender-based language, personality development and self-concept, social evolution, family structures, and economic life.

#### WMNST 102. Women: Images and Ideas (3) [GE]

Major cultural representations of women in ancient through contemporary societies from perspectives in the humanities, including philosophy, religion, art, literature, and history.

#### WMNST 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**UPPER DIVISION COURSES  
(Intended for Undergraduates)**

**WMNST 310. Women in Cross-Cultural Perspective (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Comparative study of social, economic, political, and ideological aspects of women's position in local and global contexts. Women's status as impacted by modern, indigenous, transitional, and/or border cultures.

**WMNST 320. Socialization of Women (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Impact of formal and informal institutions on female development and roles across the life span.

**WMNST 325. Psychology of Women (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Theories of the psychological development of women; investigation of biological and cultural factors influencing personality and behavior.

**WMNST 331. Women in Asian Societies (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Socio-economic status of women in Asia. Feminism and the status of women in China, India, Japan, Korea, Philippines, and other countries. Feminist movements in Asia and women's status as affected by changing social, economic, and political orders in Asia.

**WMNST 336. Women of Color in the United States (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Experiences of U.S. women of color through study of personal essay/autobiography, oral history, plays/novels, poetry, performance/visual art, theory, and other genres. Themes may include identity, voice, representation, empowerment, oppression, and social change.

**WMNST 340. Women in Modern European History (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Social, cultural, economic, political and ideological aspects of women's history in the modern period. Impact of modernization on roles of women in family and society from the eighteenth to the mid-twentieth centuries in Europe.

**WMNST 341A-341B. Women in American History (3-3) [AI]**

History of American social, cultural, economic, political, and intellectual institutions, focusing on the role and perspective of women. Semester I: From colonization to 1860; Semester II: From 1860 to the present. Satisfies the graduation requirement in American Institutions.

**WMNST 352. Women in Literature (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Literature by and about women; appraisals of women's place in various literary genres; historical and contemporary themes; evolution of forms and techniques; relation to other art forms.

**WMNST 360. Women's Sexuality and the Body (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.C., Humanities required for nonmajors.

Social, cultural, and political aspects of women's sexualities and bodies; relationships among beliefs and practices, and among sexual behaviors and identities in historical context; role of popular culture, scientific, medical, and religious ideas.

**WMNST 370. Women, Law, and Policy (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Legal factors affecting women in employment, education, health and welfare, property ownership and criminal justice, including investigation of public policy issues which affect women's lives.

**WMNST 375. Sex, Power, and Politics (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Social, economic and political factors which explain women's political status and participation. Topics include institutional structures, leadership and ideology, power and authority, and the women's movement as a political movement.

**WMNST 382. Gender, Science, and Technology (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.A.2. Life Sciences required for nonmajors.

Feminist science studies to include women in science, scientific research on sex and gender differences, gender in relation to technology. Social and political impacts of science and technology and global contexts.

**WMNST 385. Women's Work (3) [GE]**

Prerequisite: Completion of the General Education requirement in Foundations of Learning II.B., Social and Behavioral Sciences required for nonmajors.

Conditions and factors affecting women's paid and unpaid work. Marriage, divorce, fertility, and childcare; women's occupations, earnings and education; economics of sex discrimination; government economic policies and women's welfare.

**WMNST 496. Experimental Topics (1-4)**

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

**WMNST 499. Special Study (1-3)**

Prerequisites: Three upper division units and consent of the department chair and instructor.

Individual study. Maximum credit six units.

**UPPER DIVISION COURSES  
(Also Acceptable for Advanced Degrees)**

**WMNST 512. Latinas in the Americas (3)**

Prerequisite: Three upper division units in women's studies.

How social and other factors impact the lives of Latin American women. Theoretical frameworks illuminate their situation. Sociocultural perspectives are offered on Latin American women's life narratives.

**WMNST 515. Women: Myth, Ritual, and the Sacred (3)**

Prerequisite: Three upper division units in women's studies.

Meanings and functions of myths and rituals in their sacred and secular aspects, emphasizing their impact on women's lives and relationships in differing cultural contexts, past and present.

**WMNST 520. Reproductive Rights and Justice (3)**

Prerequisite: Three upper division units in women's studies.

History, cultural attitudes, and politics of reproduction and sexual health to include abortion, contraception, sterilization, sexually transmitted diseases (STDs), HIV/AIDS, sex education, reproductive, and genetic technology.

**WMNST 522. Women: Madness and Sanity (3)**

Prerequisite: Three upper division units in women's studies.

Mental health and mental illness in literature, film, and psychological research. Clinical and feminist approaches to mental health issues in women's lives.

**WMNST 530. Women's Movements and Activism (3)**

Prerequisite: Three upper division units in women's studies.

Comparative study of women's movements worldwide, including organizations, issues and initiatives. Women's diverse social/political strategies within local, national, and global contexts. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**WMNST 535. Lesbian Lives and Cultures (3)**

Historical, cultural, and social exploration of lesbianism. Topics include myths and stereotypes, history and literature, social and political movements, theoretical explanations, and current conditions.

**WMNST 536. Gender, Race, and Class (3)**

Prerequisite: Three upper division units in women's studies.

Intersecting theories of gender, race and class in both local and global contexts. Major themes in history, culture, and contemporary lives of women analyzed through feminist and critical race theories.

**WMNST 540. Women and the Environment (3)**

Prerequisite: Three upper division units in women's studies.

Women environmental activists and authors including those in diverse communities, settings, and alliances (native American, British colonial, Asian, American environmental movements, urban environmental justice).

**WMNST 545. Women and Sports (3)**

Prerequisite: Three upper division units in women's studies.

Diverse women's creation of and involvement in recreational and competitive sports, mid-1800s to present to include impact of medical experts' views, homophobia, disability, individual elite athletes, team sports, economic viability, and changes since Title IX.

**WMNST 553. Women and the Creative Arts (3)**

Prerequisite: Three upper division units in women's studies.

Representations of women in literary, visual, and/or performing arts as well as crafts; artistic contributions of women across cultures; theories of creativity and gender. May be repeated with new content. See *Class Schedule* for specific content. Maximum credit six units.

**WMNST 560. Women in Muslim Societies (3)**

Prerequisite: Three upper division units in women's studies.

Socio-political status of women in Muslim societies in Middle East, North Africa, and Asia; women in the Quran; Muslim women's movements.

**WMNST 565. Women: Health, Healing, and Medicine (3)**

Prerequisite: Three upper division units in women's studies.

Relationship of women to "modern" and "traditional" health care/healing systems in historical and cultural perspective. Representations and practices regarding the politics of women's health and illness.

**WMNST 572. Women and Violence (3)**

Prerequisite: Three upper division units in women's studies.

Forms of violence against and by women. Processes which shape women's resistance to, and collusion in, social, economic, political, and sexual violence.

**WMNST 580. Women, Development, and the Global Economy (3)**

Prerequisite: Three upper division units in women's studies.

Women's roles as agents and recipients of global economic and political change focusing on women's empowerment, work, health, and the environment. Topics include women's movements worldwide and non-governmental organizations.

**WMNST 581. Women's Experiences of Migration (3)**

Prerequisite: Three upper division units in women's studies.

Gender analysis of impact of international migration on women's lives. Identity formation, trauma, language, gender roles, and sexuality in life narratives of immigrant and refugee women. Economic and legal issues affecting immigrant and refugee women.

**WMNST 582. Feminist Science Studies (3)**

Prerequisite: Three upper division units in women's studies.

Feminist philosophy of science, history of science, and social studies of science. Feminist critiques of science and technology to include patented life forms, reproductive technologies, genetic engineering and cyberfeminism.

**WMNST 590. Feminist Thought (3)**

Prerequisite: Six upper division units in women's studies.

Readings of feminist theory in historical perspective, with attention to contemporary debates in feminist scholarship.

**WMNST 595. Seminar in Women's Studies (3)**

Prerequisites: Six upper division units in women's studies and consent of instructor.

Directed research in women's studies. Field of investigation will vary with instructor. Methods of investigation, development of bibliography, presentation of paper based on original research. See *Class Schedule* for specific content.

**WMNST 596. Topics in Women's Studies (3)**

Prerequisite: Consent of instructor.

Advanced topics in women's studies. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**WMNST 597. Research Project (3)**

Prerequisites: Six upper division units in women's studies and consent of adviser.

Individual research project. May be taken in place of Women's Studies 595, Seminar in Women's Studies.

**WMNST 598. Women's Studies Internship (3) Cr/NC**

Prerequisites: Three upper division units in women's studies and consent of instructor.

Application of women's studies theories and scholarship to community service and activism. Internship includes 120 hours of work in local public and private agencies serving women and girls. Maximum credit six units.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

WMNST





# PART SIX

## University Policies

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# University Policies

## Student Responsibility for Catalog Information

Students are held individually responsible for the information contained in this catalog. The requirements listed in the Graduation Requirements section of the catalog are those requirements which the university will make every effort to preserve for students subject to this catalog. All other parts of the catalog, including this University Policies section, are subject to change from year to year as university rules, policies, and curricula change. Failure to keep informed of such changes will not exempt students from whatever penalties they may incur.

## Changes in Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the legislature, rules and policies adopted by the board of trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of San Diego State University. It is not possible in this publication to include all of the rules, policies, and other information that pertain to students, San Diego State University, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office. Each semester, the *Class Schedule* outlines changes in academic policy and procedure and current deadlines which are of importance to students.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the board of trustees of the California State University, the chancellor of the California State University, or the president of San Diego State University. The trustees, the chancellor, and the president are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and San Diego State University or the California State University. The relationship of the student to San Diego State University is one governed by statute, rules, and policy adopted by the legislature, the trustees, the chancellor, the president and their duly authorized designees.

## Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of such records. The law provides that the campus must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statutes and the regulations. Copies of these policies and procedures may be obtained through the SDSU Office of the Registrar Web site at <http://arweb.sdsu.edu/es/registrar/privacy.html>.

Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records maintained and the information they contain; (2) the official responsible for maintaining each type of record; (3) the location of access lists indicating persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) student access rights to their records; (6) the procedures for challenging the content of student records; (7) the cost to be charged for reproducing copies of records; and (8) the right of the student to file a complaint with the Department of Education. The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-5920.

The campus is authorized under the Act to release "directory information" concerning students. The Office of the Registrar releases the following: student's name, major field of study, dates of attendance, degrees, honors, and awards received. Although federal law allows for the release of address, telephone listing, e-mail address, photograph, place and date of birth, grade level, enrollment status, previous educational institution attended, and information related to participation in athletics, San Diego State University has a practice of not routinely releasing this information. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Students are given an opportunity to restrict the release of "directory information" about themselves by accessing <http://www.sdsu.edu/portal>.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus' academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records may also be disclosed to other persons or organizations under such conditions as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring.

## Nondiscrimination Policy

The Office of the Ombudsman, 619-594-6578, and the Office of Employee Relations and Compliance, 619-594-6464, have been designated to coordinate the efforts to comply with the following acts and their implementing regulations.

### Race, Color, Ethnicity, National Origin, Age, and Religion

The California State University complies with the requirements of Title VI and Title VII of the Civil Rights Act of 1964, as well as other applicable federal and state laws prohibiting discrimination. No person shall, on the basis of race, color, ethnicity, national origin, age, or religion be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in any program of the California State University.

### Disability

The California State University does not discriminate on the basis of disability in admission or access to, or treatment or employment in, its programs and activities. Federal laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, and various state laws prohibit such discrimination. Students should address inquiries concerning San Diego State University's compliance with all relevant disability laws to the director of Student Disability Services (SDS), Calpulli Center, Room 3101, San Diego State University, CA 92182, or call 619-594-6473 (TDD: 619-594-2929).

## Sex/Gender

San Diego State University does not discriminate on the basis of sex, gender, gender identity or expression, or sexual orientation in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972 and certain other federal and state laws prohibit discrimination on these bases, in education programs and activities. Such programs and activities include admission of students and employment. Inquiries concerning the application of these laws to programs and activities can be directed to the director, Office of Employee Relations and Compliance, 619-594-6464, or to the SDSU athletic director of compliance, 619-594-3395, or to the regional director of the Office for Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francisco, CA 94105.

The California State University is committed to providing equal opportunities to all CSU students in all campus programs, including intercollegiate athletics.

## Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure.

## Numbering of Courses

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor's degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses.

Courses numbered at the 900 level, except 997, are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the university with post-baccalaureate classified standing. Undergraduate students may enroll in these courses only if they are officially admitted to a blended or integrated program where undergraduate and credential coursework is included in the same program. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered 397 offered in regular sessions are professional advancement training or tutorial/discussion classes that accompany other credit courses and are not acceptable towards an undergraduate or graduate degree.

Courses numbered X-01 through X-79 and X-397 are Extension professional development units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

### Undergraduate Enrollment in 600-, 700-, and 800-Numbered Courses

1. You must obtain permission of the instructor.
2. You must be a senior in good standing and have a B (3.0) GPA average.
3. Undergraduate enrollments may not cause the exclusion of a qualified graduate student in a graduate course.
4. Undergraduate students must complete a petition for request to enroll which is available in the Division of Graduate Affairs.

## Grading System

### Definition of Grades for Undergraduate Students

Grades and grade points per unit used in reporting are as follows: Grade of **A** (outstanding achievement; available only for the highest accomplishment), 4 points; **B** (praiseworthy performance; definitely above average), 3 points; **C** (average; awarded for satisfactory performance; the most common undergraduate grade), 2 points; **D** (minimally passing; less than the typical undergraduate achievement), 1 point; **F** (failing), 0 points; **RP** (report in progress), not counted in the grade point average; **W** (withdrawal), not counted in the grade point average; **AU** (audit), no credit earned and not counted in the grade point average; **Cr** (credit), signifying units earned, but not counted in the grade point average; **NC** (no credit), no credit earned and not counted in the grade point average; **I** (incomplete authorized), no credit earned and not counted in the grade point average until one calendar year has expired at which time it will be changed to an **IC** (incomplete charged) and will count as an F for grade point average computation; **WU** (withdrawal unauthorized), will count as an F for grade point average computation.

### Definition of Grades for Graduate Students

Grades and grade points per unit used in reporting are as follows: Grade of **A** (outstanding achievement; available for the highest accomplishment), 4 points; **B** (average; awarded for satisfactory performance), 3 points; **C** (minimally passing), 2 points; **D** (unacceptable for graduate credit; course must be repeated), 1 point; **F** (failing), 0 points; **RP** (report in progress), not counted in the grade point average; **W** (withdrawal), not counted in the grade point average; **AU** (audit), no credit earned and not counted in the grade point average; **Cr** (credit), signifying units earned, but not counted in the grade point average; **NC** (no credit), no credit earned and not counted in the grade point average; **I** (incomplete authorized), no credit earned and not counted in the grade point average until one calendar year has expired at which time it will be changed to an **IC** (incomplete charged) and will count as an F for grade point average computation; **WU** (withdrawal unauthorized), will count as an F for grade point average computation.

### Plus/Minus Grading

A plus/minus grading system is utilized at San Diego State University. Plus/minus grading is not mandatory but is utilized at the discretion of the individual instructor. The grades of A+, F+ and F- are not issued. The decimal values of plus and/or minus grades are utilized in the calculation of grade point averages as follows:

A = 4.0	C+ = 2.3	D- = 0.7
A- = 3.7	C = 2.0	F = 0
B+ = 3.3	C- = 1.7	WU = 0
B = 3.0	D+ = 1.3	I = 0
B- = 2.7	D = 1.0	IC = 0

Faculty members use all grades from A through F to distinguish among levels of academic accomplishment. The grade for average undergraduate achievement is C.

### Computation of Grade Point Average

To compute the grade point average, the total number of grade points earned is divided by the number of units attempted. Units earned with a Cr (Credit) are not included in the computation. A grade of I (incomplete authorized) is not counted in the grade point computation until one calendar year has expired, at which time it will be charged as an IC (incomplete charged) grade and will count as an F. The minimum GPA for a bachelor's degree is 2.0 (C); in other words, you must have earned at least twice as many grade points as units attempted.

### Report in Progress Grade—RP

The RP symbol is used in connection with courses that extend beyond one academic term. It indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that assignment of a precise grade must await completion of additional work. Work

is to be completed within a stipulated time period not to exceed one year except for graduate thesis (799A) or dissertation (899). Graduate courses for which the RP symbol is appropriate are specifically designated in the departmental listings of the *Graduate Bulletin*.

Candidates for graduation whose record carries a grade of RP will be graduated provided they are otherwise eligible for graduation. However, the RP cannot be made up after the degree has been granted. If students do not wish to be graduated with the grade of RP on their record, they must officially cancel their application for graduation.

### Withdrawal Grade – W

The symbol "W" indicates that you were permitted to drop a course after the first 10 class days of the semester because of a verified serious and compelling reason, and you have obtained the signature of the instructor and the approval of the dean or designee of the college in which the class is located.

Dropping a class is not permitted after 6 p.m. on the 10th class day of the semester, except in cases such as accident or serious illness where the cause of dropping the class is due to circumstances clearly beyond your control, and the assignment of an incomplete is not practicable. All such requests must be accompanied by appropriate verification. Ordinarily, withdrawals in this category will involve total withdrawal from the university, except that credit, or an Incomplete, may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. Requests to withdraw under such circumstances must be signed by each instructor, who indicates your grade status in the class, and approved by the dean or designee of the college of your major.

After the last day of the semester, if you wish to change assigned grades to W grades you must request to withdraw from the full semester's work; no requests for individual classes will be accepted. Such requests may be granted only in verified cases such as accident or serious illness where the cause for substandard performance was due to circumstances clearly beyond your control. Only those retroactive changes from an assigned grade to a W which are approved by the instructor who assigned the original grade will be made, except that (a) the dean or designee of the college of your major may authorize the change of WU to W, and (b) department chairs shall act on behalf of instructors no longer affiliated with the university.

### Auditing – AU

Enrollment as an auditor is subject to permission of the instructor, provided that enrollment in a course as an auditor shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. Failure to meet required class attendance may result in an administrative drop of the course. Units taken for audit are not used in the calculation of enrollment status. To enroll as an auditor, obtain the **Change to Audit Grade** form from the Office of the Registrar. Obtain instructor approval and return the completed form by 6 p.m. on or before the 12th class day of instruction to the Office of the Registrar. Once enrolled as an auditor, you may not change to credit status unless such a change is requested by 6 p.m. prior to the end of the 12th class day of instruction. If you are enrolled for credit, you may not change to audit after 6 p.m. on the 12th class day of instruction.

### Credit/No Credit – Cr/NC (Undergraduate Student Option)

An undergraduate student may elect to be graded credit/no credit in particular courses, subject to the following conditions:

- Upper division courses graded credit/no credit (Cr/NC), whether taken at this or at another institution, may not be used to satisfy requirements for your major or minor except for those courses identified in the course listing as graded Cr/NC.
- Courses graded credit/no credit may not be used to satisfy I. Communication and Critical Thinking and II. Foundations of Learning A.4 Mathematics/Quantitative Reasoning sections of General Education.
- No more than 15 units graded credit/no credit may be offered in satisfaction of the total units required in a bachelor's degree program, except that all units accepted as transfer credit from another institution at the time of your admission may be used. If 15 or more units graded credit/no credit are transferred, you may not use additional courses graded credit/no credit to satisfy total units required for a bachelor's degree. Exceptions to this rule will be made only if you are required to take an SDSU course on a credit/no credit basis.
- Units for courses required for graduation which are offered for Cr/NC only will not be counted as part of the 15 elective units of Cr/NC allowed.
- If for any reason (change of major or minor or transfer from another institution) upper division courses graded credit/no credit are offered to satisfy requirements in the major, you may be required by the major department to pass competency examinations at an acceptable level or take prescribed alternate courses before being allowed to continue in the major.
- Change in grading basis may be made through the SDSU WebPortal on or before the 15th day of instruction by 6:00 p.m. No changes in grading basis are permitted after that date.
- A grade of Credit is awarded for work equivalent to all grades which earn 2.0 or more grade points (A through C). No Credit is awarded for work equivalent to all grades which earn less than 2.0 grade points (C– through F).
- The only courses which may be repeated with a credit/no credit option are those in which you previously received a grade of No Credit. If a course previously taken for a grade is repeated for a grade of Credit, the original grade will continue to be used in computation of the grade point average.

**NOTE:** NC is not calculated in the grade point average at San Diego State University. However, some institutions, particularly for graduate admissions, calculate an NC as an F.

### Incomplete Authorized Grade – I

The symbol I (incomplete authorized) indicates that a portion of required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons and that there is still a possibility of earning credit. It is your responsibility to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. The conditions for removal of the Incomplete shall be reduced to writing by the instructor and given to you with a copy placed on file with the department chair until the Incomplete is removed or the time limit for removal has passed. A final grade is assigned when the work agreed upon has been completed and evaluated. An Incomplete shall not be assigned when the only way you could make up the work would be to attend a major portion of the class when it is next offered. Contract forms for Incomplete grades are available at department offices or the Office of the Registrar Web site at <http://www.sdsu.edu/registrar>.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not you maintain continuous enrollment. Failure to complete the assigned work within one calendar year will result in an Incomplete being converted to an IC symbol, which would replace the I in the student's record at the end of the calendar year deadline. After one calendar year, the only way you may eliminate that grade from the grade point calculation is to repeat the course and file a petition for course forgiveness (see Repeated Courses below). In any case, because your record must provide an accurate and complete accounting of your academic history, the notation of Incomplete will remain on the record.

An incomplete may not be made up after you have graduated.

### Incomplete Charged Grade – IC

The symbol IC (incomplete charged) may be used when a student who received an authorized incomplete I has not completed the required coursework within the allowed time limit. The IC is posted to the record at the end of the one year time limit and is counted as a failing grade for grade point average and progress point computation.

### Withdrawal Unauthorized Grade – WU

The symbol WU indicates that you enrolled in a course, did not withdraw from the course, but failed to complete course requirements. It is used when, in the opinion of the instructor, the number of completed assignments or course activities or both were insufficient to make possible a normal evaluation of academic performance. For purposes of grade point average computation, this symbol is equivalent to an F. If the student attended a portion of a course and then, after receiving failing grades, stopped attending without officially withdrawing, a final grade of F not WU should be assigned.

### Good Standing

Academic standing for undergraduate students at San Diego State University is determined by the grade point average a student earns in university areas. At the undergraduate level, good academic standing means that the student has an overall cumulative GPA and an SDSU cumulative GPA of 2.0 or better. (Students should note that in order to graduate, they also need a GPA of 2.0 in the major.)

### Repeated Courses

Undergraduate students may repeat courses only if they earned grades lower than a C. A student who receives a grade of C- (fewer than 2.0 grade points per unit) or lower may request that the course repeat policy for grade forgiveness be applied to that course. *Students may request a maximum of 16 units for course forgiveness, with the constraint that no more than one course may be an upper division course. A course may be repeated once for course forgiveness. A 28 unit limit will be applied to repeated courses, including those in which course forgiveness has been approved.*

1. In the semester in which you are repeating a course for which you want an earlier grade forgiven, you must file a Course Forgiveness Form in the Office of the Registrar. While the original grade(s) will remain on your record, the grade earned in the repeat, whether higher or lower than the original grade, will be used in place of the earlier grade in the calculation of grade point averages.
2. The course forgiveness and course repeat policy applies only to repeats of the **same course** (same number, same title, and, for Experimental Topics courses, same subtitle). Exceptions will be made only in those cases where the course number changes and the change is documented in the *General Catalog*.
3. In some cases, admission to courses may have become restricted due to impaction, limitation by major code, enforcement of prerequisites, or sequence requirements (e.g., mathematics and foreign language). In those cases, you are prohibited from repeating those courses.
4. The only courses which may be repeated Credit/No Credit are those in which you previously received No Credit; if a course previously taken for a grade is repeated Credit/No Credit, the original grade will continue to be calculated in grade point averages. Repeating courses in which the original grade was No Credit (NC) does not require the filing of the Course Forgiveness form.
5. The course forgiveness policy may be extended to courses originally taken elsewhere and repeated at San Diego State University, in which case the original transfer grade will no longer be used in the calculation of the overall grade point average. However, the course forgiveness policy applies only to courses repeated at San Diego State University.
6. The course forgiveness policy applies to courses repeated at San Diego State University in summer terms and to courses repeated through Open University during the summer term, fall and/or spring semesters.
7. If courses with C- or lower grades are repeated without course forgiveness approval or in excess of course repeat limitations, all grades for those courses will be calculated in grade point averages. Units for a course will be counted only once toward graduation, regardless of the number of repeats.
8. Course forgiveness is only applicable to undergraduate students pursuing a first bachelor's degree.
9. Per University Senate policy, course forgiveness will not be granted if the Center for Student Rights and Responsibilities finds the student guilty of academic dishonesty in that particular course.

### Assignment of Grades and Grade Appeals

Faculty have the right and responsibility to provide evaluation and timely assignment of appropriate grades. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise.

If you believe that an appropriate grade has not been assigned you should first seek to resolve the matter with the instructor of record. If the matter cannot be resolved informally, you may present the case to the appropriate campus entity, have it reviewed and, where justified, receive a grade correction. It is your responsibility to attempt to resolve grade disputes in a timely manner, typically during the semester following the semester the questioned grade was received. If twelve or more months have elapsed since the grade was issued, or you have graduated, no grade change will be considered.

### Dean's List

The Dean's List recognizes academic achievement within a single fall semester or spring semester. To be eligible for the Dean's List, students must be in good academic standing, matriculated, and have a grade point average of at least 3.50 based on a minimum of 12 units of credit for courses in which letter grades were assigned. The computation of grade points will be made six weeks after the end of the semester to include students who complete Incomplete grades promptly.

Students will be recognized by the dean of their respective college; undeclared, interdisciplinary studies in three departments, and liberal studies majors will be listed by the dean of undergraduate studies.

### Graduation With Honors and Distinction

Graduation with honors is granted to undergraduate students who achieve high grade point averages. Excellence is recognized at three levels:

- *cum laude* (3.50-3.64)
- *magna cum laude* (3.65-3.79)
- *summa cum laude* (3.80-4.00)

For determination of eligibility, two grade point averages are computed; **both** must satisfy the minimum grade point average for appropriate honors designation. They are the GPA calculated on all units taken at this institution (a minimum of 24 graded units), and the overall (cumulative) grade point average (including both SDSU and transfer units).

Grades for the final semester's work are included in calculation of eligibility for graduation with honors. Students are tentatively designated as eligible for graduation with honors if both grade point averages meet required standards at the beginning of the fall semester for midyear graduates and at the end of the fall semester for May and summer term graduates. Notation of *cum laude*, *magna cum laude*, or *summa cum laude* on transcripts and diplomas is based on achievement when all courses for graduation are completed.

Upon recommendation of their major department, students doing superior work in their major field may be graduated with distinction in that field. To qualify for Distinction in the Major, a student must have a minimum 3.50 grade point average in the major (upper division courses) by the beginning of the fall semester for midyear graduates and by the end of the fall semester for May and summer term graduates. Departments may set a higher GPA or additional criteria.

To be considered for computation of the major grade point average, grades for removal of Incomplete and all other grade changes must be received in the Office of the Registrar no later than the end of the fifth week of the semester in which the student plans to graduate. All changes for summer term graduates must be received by the end of the fifth week of the spring semester prior to graduation.

## Final Examinations

No final examination shall be given to individual students before the regular time. If you find it impossible to take a final examination on the date scheduled you must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination within the time allowed for making up incomplete grades.

## Evaluation

An evaluation is a summary of college work completed and of requirements to be completed for a bachelor's degree. New transfer students will receive an evaluation prior to second semester registration. Transfer courses will be included, where applicable, to meet San Diego State University's degree requirements. Students admitted as freshmen will receive an evaluation at the end of the second semester of attendance. Continuing students may request updates to the evaluation at the Academic Advising Center, located in Student Services, Room 1551 or on the SDSU WebPortal at <http://www.sdsu.edu/portal>.

## Academic Credit Through Coursework

### Credit for Upper Division Courses

Normally, only juniors, seniors and graduate students enroll in upper division courses (numbered 300 through 599). However, a freshman or sophomore may enroll in an upper division course for upper division credit if the instructor consents. Article 40405.2 of Title 5, *California Code of Regulations* specifically limits upper division general education credit to students who have achieved upper division status.

### Community College Credit

A maximum of 70 semester units earned in a community college may be applied toward the degree, with the following limitations: (a) no upper division credit may be allowed for courses taken in a community college; (b) no credit may be allowed for professional courses in education taken in a community college, other than an introduction to education course.

### Concurrent Master's Degree Credit

The bachelor's degree must be completed at the end of the semester or term in which the concurrent credit is earned.

A senior who has met all of the required competencies in writing and mathematics and who is within 12 units of completing requirements for the bachelor's degree and whose grade point average in the last 60 semester units attempted is 3.0 or above may petition the Graduate Council to take for concurrent master's degree credit 500-numbered courses listed in the *Graduate Bulletin* as acceptable for master's degree programs, and certain 600- and 700-numbered courses approved by the department, with the remaining requirements for the bachelor's degree. Petitions may be obtained from the Division of Graduate Affairs and must be submitted to the Office of the Registrar by the end of the third week of classes of the semester or term in which the concurrent credit is earned, and you must have on file a current graduation application for the bachelor's degree. The maximum number of units which may be earned as concurrent master's degree credit is determined by the difference between the number of units remaining for the bachelor's degree and 15.

### Concurrent Post-Baccalaureate Credit

#### Applicable to the Fifth Year Credential Requirement

Concurrent post-baccalaureate credit may be earned during the final semester or summer term by seniors admitted to the College of Education who meet all of the following qualifications:

1. Have a minimum grade point average of 2.85 on the last 60 units attempted.
2. Complete coursework in excess of graduation requirements during the semester (or summer term) when graduation occurs.
3. Attempt no more than 21 units during the final undergraduate semester.

4. Request no more than a maximum of 12 units of 300, 400, 500, or 900-numbered courses for post-baccalaureate credit.
5. Petition the assistant dean of the College of Education.
6. Submit petition before the end of the first week of classes of the final undergraduate semester (or term) when graduation occurs.
7. Graduate at the end of the semester (or summer term) the petition is made.

Extension courses are not acceptable for concurrent post-baccalaureate credit. Concurrent post-baccalaureate credit will not be granted retroactively.

Petition forms are available in the Office of the Registrar, SS-1641.

### Credit for Extension Courses

The maximum amount of extension and correspondence credit which may be accepted toward the minimum requirements for the bachelor's degree is 24 semester units. Extension and correspondence credit are not counted in satisfaction of the minimum residence requirement. A maximum of nine units in extension courses at San Diego State University may be accepted as part of the requirements for the master's degree, subject to limitations described in the *Graduate Bulletin*.

Continuing education courses offered by departments are of two kinds. The first includes regular courses listed in the *General Catalog* which are available for use by students in meeting college and university credit requirements of various kinds, and are usually at the upper division level. A second kind is offered by some departments at the X-01 through X-79 and X-397 level and serves to meet the needs of specific community groups.

Courses numbered 80 through 99 are nonbaccalaureate level and are not acceptable for a bachelor's degree; those numbered 100 through 299 are in the lower division (freshman and sophomore years); those numbered 300 through 499 are in the upper division (junior and senior years) and intended for undergraduates; those numbered 500 through 599 are in the upper division and are also acceptable for advanced degrees when taken by students admitted to graduate standing; those numbered 600 through 799 are graduate courses; and those numbered 800 through 899 are doctoral courses. Courses numbered at the 900 level, except 997, are reserved for graduate courses in certain professional curricula as part of advanced certificate, credential, and licensure programs and are specifically intended for students admitted to the university with post-baccalaureate classified standing. Courses numbered at the 900 level are not applicable to other graduate programs.

Courses numbered X-01 through X-79 and X-397 are Extension professional development units offered only through Extension to meet specific academic needs of community groups and are not acceptable toward an undergraduate or graduate degree.

## Academic Credit Through Examination

San Diego State University grants credit for passing scores on The College Board Advanced Placement examinations, on certain College-Level Examination Program tests, and on International Baccalaureate higher level subjects. SDSU also grants credit for locally administered credit by examination tests. A total of 30 units will be allowed for credit earned through examination (excluding Advanced Placement). The details in each case are provided in the tables in this section of the catalog.

### Credit for Advanced Placement Examinations

San Diego State University grants credit toward its undergraduate degrees for successful completion of examinations of The College Board Advanced Placement Program. Students who present scores of 3 or better will be granted up to six semester units (nine quarter units) of college credit.

High school students who intend to participate in this program should make the necessary arrangements with their high schools and should indicate at the time they take the Advanced Placement examinations that their test scores be sent to San Diego State University. To obtain credit and advanced placement, you should contact the Office of Advising and Evaluations.

The Advanced Placement Credit table in this section of the catalog indicates the units granted for the score attained and the course equivalents for each of the examinations offered.

### Credit for College-Level Examination Program (CLEP)

The university grants credit on 33 CLEP Subject Examinations. See the Academic Credit Through Examination table in this section of the catalog.

### Credit for International Baccalaureate Certificates or Diplomas

San Diego State University normally grants six units of credit for each International Baccalaureate Higher Level subject examination passed with a score of 4 or better. To receive credit, you must request that your International Baccalaureate transcript of grades be sent to San Diego State University's Office of Advising and Evaluations.

The International Baccalaureate Credit table identifies established course equivalencies. Subject examinations not listed in the table will be evaluated for appropriate course credit by the departmental adviser.

### Credit by SDSU Examinations

Students may challenge courses by taking examinations developed at San Diego State University. Up to 30 units will be awarded to those who pass the examinations successfully, and the grade(s) earned, including F, will be used in San Diego State University grade point calculations. At the discretion of the department a grade of Cr/NC may be awarded instead of a letter grade; a maximum of 15 total Cr units may be applied toward an undergraduate degree.

If you are interested in applying for credit by examination you need to check with the appropriate department(s) since each department has the option of excluding any or all of its courses from credit by examination or of setting special conditions on the student requesting this option.

Approval to receive undergraduate credit by examination is granted at the discretion of the appropriate college authorities and under the following conditions:

1. You must be matriculated, in good standing (not on probation), be registered in at least one regular course (not Extension) at the time credit by examination is authorized, and pay for additional units if cost exceeds fees already paid.
2. You must register in the course for which credit by examination is being requested within the time limits for filing a change of program as listed in the academic calendar each semester.
3. Approval of the department chair and the dean of the college concerned is required prior to taking the examination. Forms for approval may be obtained from the Office of the Registrar.
4. Credit by examination is restricted to regular undergraduate courses listed in the *General Catalog*, does not include 600- and 700-numbered or Extension courses, and does not count toward the 30-unit minimum residency requirement.
5. Credit by examination is not treated as part of your study load and, therefore, is not considered by the Veterans Administration in the application of their regulations; and is not always accepted as transfer credit between collegiate institutions.
6. Credit by examination is restricted to the regular summer, fall, or spring semester.

## Academic Credit for Non-Collegiate Instruction

San Diego State University grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, that has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the *Guide to the Evaluation of Educational Experience in the Armed Services* and the *National Guide to Educational Credit for Training Programs*.

Credit will be considered to be elective units in most cases. Petitions for acceptance of credits toward specific requirements are available in the Office of the Registrar. Applicability to specific degree requirements (General Education, major, minor, etc.) is subject to approval of the appropriate campus authority.

## Academic Credit for Military Service

The university is guided by the recommendations of the American Council on Education in granting undergraduate credit toward the bachelor's degree for military service. Postgraduate credit is not granted.

To obtain credit for military service, you must be fully matriculated, be enrolled at the university, and submit a SMART or AARTS transcript, Form DD-214 or DD-295.

## Student Classification

A matriculated student is one who has complied with all requirements for admission to the university and has received an official notice of admission. All students taking courses in any regular semester must be matriculated students.

**Freshman.** A student who has earned a total of fewer than 30 semester units.

**Sophomore.** A student who has earned a total of 30 to 59 semester units, inclusive.

**Junior.** A student who has earned a total of 60 to 89 semester units, inclusive.

**Senior.** A student who has earned a total of 90 semester units or more.

**Graduate.** A student who has completed a four-year college course with an acceptable baccalaureate degree from an accredited institution and who has been admitted to the university with post-baccalaureate standing. For information on classification of graduate students, see the *Graduate Bulletin*.

## Transcripts of Record

### Official Transcripts

Official transcripts can be ordered online in your SDSU WebPortal at <http://www.sdsu.edu/portal> under the Official Transcript section. If all your coursework was completed prior to 1987 or if your transcript requires special handling (e.g. via United States Postal Service Priority or Express Mail only), you will need to order official transcripts by completing an Official Transcript Request form and submitting it to the University Cashiers Office. A fee is charged for all transcripts and must be paid in advance. An official transcript is usually mailed within five to seven business days after the request is processed by the Cashiers Office, unless a hold has been indicated. Transcripts from other schools or colleges become the property of this university and will not be released or copied.

### Unofficial Transcripts

You may print an unofficial SDSU transcript by accessing the SDSU WebPortal at <http://www.sdsu.edu/portal>. If all of your SDSU coursework has been taken since fall 1987, your entire record will be available on the Web. If you completed coursework at SDSU prior to fall 1987, you must contact the Office of the Registrar to obtain an unofficial transcript reflecting that portion of your record. Unofficial transcripts do not bear the seal of the university and are not suitable for transfer purposes.

### Full-Time Student Status

Full-time student status for undergraduates at SDSU is 12 units per semester. Full-time enrollment for a graduate student is nine units of coursework numbered 500 through 999. Units taken for audit are not used in the calculation of enrollment status. You can obtain verification of your enrollment from the Office of the Registrar by either of the following methods: (1) in person with proper photo identification in Student Services, Room 1641; (2) by mailing the request with your authorization and signature, and a stamped, self-addressed envelope to Office of the Registrar, San Diego State University, San Diego, CA 92182-7453. You may also view your enrollment status and/or print a verification form by accessing your SDSU WebPortal at <http://www.sdsu.edu/portal> and selecting the Enrollment Verification option which will link you to the National Student Clearinghouse.



### Schedule Adjustment

Schedule adjustment include: dropping a class, adding a class, adding or reducing units of a class for which the student is already registered, changing a section of the same class, withdrawing from the university, or changing grading options. Students should check their online schedules regularly and take necessary action to add or drop during the schedule adjustment period. Students who do not attend a class and who do not ensure that the course is officially dropped in the WebPortal at <http://www.sdsu.edu/portal>, will receive a failing grade. Schedule adjustments are accepted until 6 p.m. on the following dates:

#### Fall 2010 semester

Drop classes by 6 p.m. on September 13.

Add classes by 6 p.m. on September 15.

#### Spring 2011 semester

Drop classes by 6 p.m. on February 1.

Add classes by 6 p.m. on February 3.

Students are responsible for every course in which they are registered. If students do not attend the first class meeting of the semester and are not present at the start of the second meeting, the professor may give the place to another student. If this occurs, the student has forfeited the place and may be dropped from the course by the instructor within the first eight class days of the semester. The instructor may request that you personally take formal action to drop the class. **Not all instructors will drop students who miss the first class session and the beginning of the second class session.**

Students are not permitted to drop or add a class after the stated deadlines, except in cases such as accident or serious illness where the cause of dropping the class is due to circumstances clearly beyond the student's control and the assignment of an Incomplete is not practicable. All such requests must be accompanied by appropriate verification. Ordinarily, withdrawals in this category will involve total withdrawal from the university, except that credit, or an Incomplete, may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. Requests to withdraw under such circumstances must be signed by each instructor, who indicates your grade status in the class, and approved by the dean (or designee) of the college of the student's major.

### Study List Limits

A unit or credit hour represents 50 minutes of lecture or recitation combined with two hours of preparation per week throughout one semester of 16 weeks. Two hours of activity (as in exercise and nutritional sciences) or three hours of laboratory (as in the sciences) are equivalent to one hour of lecture.

During initial registration, students can enroll in a maximum of 18 units. During the add-drop period, this limit is removed. You are strongly advised to consider all aspects of your situation before adding additional courses. If you work or have family obligations that will limit the time you can devote to your studies, you are strongly urged to reduce the number of units you attempt each semester.

You should expect to spend a total of three hours per week, in class and study time, for each unit of college work attempted. A normal 16-unit load, therefore, represents a 48-hour week. You should also keep in mind that some courses require more than the average amount of time, and that your workload in all courses will vary throughout the semester as examinations and major papers or projects come due.

### Change of Major

Based on your application for admission, you are admitted to a premajor, major, or designated as an undeclared major. If, after registration, you wish to change your major, you should check with the department of your intended major for requirements and filing periods.

Change of Major forms are available at the Office of the Registrar and require approval of the change by the new major department. After approval, return the form to the Office of the Registrar. You will be required to meet the major and minor requirements stated in the *General Catalog* that are in effect when you submit your change or declaration.

If you are admitted to a premajor, you must complete specific requirements before you will be admitted to the major. Requirements are described in the section of this catalog on Courses and Curricula, or you may contact the major department for information. Requirements are also described in the specific major department section of this catalog. If you are a veteran using veteran benefits, you must obtain appropriate approval from the Veterans Administration for necessary changes in letters of eligibility.

### Academic Renewal

Under certain circumstances the campus may disregard up to two semesters or three quarters of previous undergraduate coursework taken at any college from all considerations associated with requirements for the baccalaureate degree. These circumstances are:

1. All degree requirements, except the earning of at least a C (2.0) grade point average, have or will soon have been met;
2. The student has formally requested such action and has presented evidence that work completed in the term(s) under consideration is substandard and not representative of present scholastic ability and level of performance; and
3. The level of performance represented by the term(s) under consideration was due to extenuating circumstances.

Final determination that one or more terms shall be disregarded shall be based upon a careful review of evidence by a committee appointed by the president which shall include designee of the chief academic officer and consist of at least three members. Such final determination shall be made only when:

1. Five years have elapsed since the most recent work to be disregarded was completed; and
2. The student has earned in residence at the campus since the most recent work being considered was completed, 15 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.5 GPA, or 45 semester units with at least a 2.0 GPA. Work completed at another institution cannot be used to satisfy this requirement.

When such action is taken, the student's permanent academic record shall be annotated so that it is readily evident to all users of the record that **NO** work taken during the disregarded term(s), even if satisfactory, has been applied towards the meeting of degree requirements. However, all work must remain legible on the record ensuring a true and complete academic history.

The procedure for filing for Academic Renewal is as follows:

1. Discuss the situation with the Assistant Dean in the Division of Undergraduate Studies.
2. Write a letter to the Academic Renewal Committee describing the extenuating circumstances.
3. Obtain statements from doctors, lawyers, employers, parents, professors, or other appropriate persons to substantiate your claim that the request is justified.
4. Return all materials to the Division of Undergraduate Studies, Administration, Room 101.

University policy regarding academic renewal is not intended to permit the improvement of a student's grade point average beyond what is required for graduation.

Advanced Placement Credit				
EXAMINATION	S C O R E	Semester units credit allowed toward degree	SDSU course equivalents*	REMARKS
Art History.....	3, 4, 5	6	Art 258 and 259	
Art, Studio:				
Drawing.....	3, 4, 5	3	Art 100	
2D Design.....	3, 4, 5	3	Art 101	
3D Design.....	3, 4, 5	3	Art 103	
Biology.....	3, 4, 5	6	Biology 100,100L and 2 units of Biology 299	
Chemistry.....	3, 4, 5	6	Chemistry 200, 201	
Chinese Language and Culture .....	3, 4, 5	6	Chinese 202 and 1 unit of Chinese 296	Satisfies the language requirement.
Classics:				
Latin Literature .....	3, 4	6	Classics 202L	If both examinations are passed with scores of 5, additional 3 units credit for Classics 304L will be provided.
	5	6	Classics 202L and 303L****	
Vergil .....	3, 4	5	Classics 202L	
	5	6	Classics 202L and 303L****	
Computer Science				
A**.....	3	3	Computer Science 299	
	4, 5	3	Computer Science 107	
AB**.....	3	6	Computer Science 107 and	
			3 units of Computer Science 299	
	4, 5	6	Computer Science 107 and 108	
Economics:				
Macro.....	3, 4, 5	3	Economics 101	
Micro.....	3, 4, 5	3	Economics 102	
English:				
Lang. and Comp.....	5	6	Rhetoric and Writing Studies 100 and 200	Exempts from CSU English Placement Test.
	3,4	6	Rhetoric and Writing Studies 100 and	
			3 units of Rhetoric and Writing Studies 299	
Lit. and Comp. ....	3, 4, 5	6	English 220 and Rhetoric and Writing Studies 100	
Environmental Science.....	3, 4, 5	6	Environmental Sciences 100 and	Satisfies Foundations of Learning Physical Sciences and Laboratory.
			3 units of Environmental Sciences 299	
French Language .....	3	6	French 201 and 210	Satisfies the language requirement.
	4, 5	6	French 220 and 221	
French Literature .....	3, 4, 5	6	French 305A and 305B	
Geography:				
Human Geography .....	3, 4, 5	3	Geography 102	
German Language .....	3	6	German 202	Satisfies the language requirement.
	4, 5	8	German 205A and 205B	
History:				
United States .....	3, 4, 5	6	History 109 and 110	Satisfies American History/Institutions and Ideals, and U.S. Constitution requirements. Does not satisfy California Government requirement.
European .....	3, 4, 5	6	History 106 and 3 units of History 299	
World History .....	3, 4, 5	6	History 101	
Italian Language and Culture	3	6	Italian 201	Satisfies the language requirement.
	4	6	Italian 201, 211	
	5	6	Italian 211, 212	
Japanese Language and Culture...	3	6	Japanese 111, 112	Satisfies the language requirement.
	4	6	Japanese 111, 112, 211	
	5	6	Japanese 111,112, 211, 212	
Mathematics:				
Calculus AB .....	3, 4, 5	4	Mathematics 150	Satisfies Foundations of Learning Mathematics/ Quantitative Reasoning. Exempts from CSU Entry Level Mathematics Test.
Calculus BC .....	3, 4, 5	6	Mathematics 150 and 151	
Calculus AB and BC .....	3, 4, 5	9	Mathematics 150 and 151	
Music Theory .....	3, 4, 5	6	Music 205A-205B***	
Physics:				
B.....	3, 4, 5	6	Physics 180A and 182A	Satisfies Foundations of Learning Physical Sciences and Laboratory.
C (Mechanics) .....	3, 4, 5	4	Physics 195 and 195L	
C (Electricity and Magnetism) ....	3, 4, 5	4	Physics 196 and 196L	
Political Science				
Govt./Politics: United States .....	3, 4, 5	6	Political Science 101 and 102	Satisfies American History/Institutions and Ideals, and U.S. Constitution requirements. Does not satisfy California Government requirement.
Govt./Politics: Comparative .....	3, 4, 5	6	Political Science 101 and 102	
Govt./Politics: United States and				
Comparative.....	3, 4, 5	12	Political Science 101, 102, 103, 296	
Psychology .....	3, 4, 5	3	Psychology 101	
Spanish Language .....	3	6	Spanish 201 and 211	Satisfies the language requirement.
	4, 5	6	Spanish 202 and 212	
Spanish Literature .....	3, 4, 5	6	Spanish 405A-405B	
Statistics.....	3, 4, 5	3	Statistics 250	Satisfies Foundations of Learning Mathematics/ Quantitative Reasoning. Exempts from CSU Entry Level Mathematics Test.

\* Credit may not be earned at SDSU for courses which duplicate credit already allowed for examinations as listed under SDSU course equivalents.

\*\* Maximum combined credit six units allowed for Computer Science A and AB examinations.

\*\*\* Student must also take Music Placement Examination.

\*\*\*\* Satisfies the language requirement.

College Level Examination Credit				
Examination	Passing Score	Credit Granted	SDSU Course Equivalency	General Education Credit
<b><u>Business</u></b>				
Accounting, Principles of	50	6	No	No
Business Law, Introductory	50	3	No	No
Information Systems and Computer Applications	50	3	No	No
<b><u>Composition and Literature</u></b>				
American Literature	50	6	No	No
Analyzing and Interpreting Literature	50	6	No	Foundations of Learning: Humanities, Literature
English Composition	50	6	No	No
English Literature	50	6	No	No
Freshman College Composition	50	6	No	No
Humanities	50	6	Humanities 101	Foundations of Learning: Humanities, Arts
<b><u>Foreign Language</u></b>				
French Language, Level 1	50	6	No	Foundations of Learning: Foreign Language
French Language, Level 2	62	12	No	Foundations of Learning: Foreign Language
German Language, Level 1	50	6	No	Foundations of Learning: Foreign Language
German Language, Level 2	63	12	No	Foundations of Learning: Foreign Language
Spanish Language, Level 1	50	6	No	Foundations of Learning: Foreign Language
Spanish Language, Level 2	66	12	No	Foundations of Learning: Foreign Language
<b><u>History and Social Science</u></b>				
# American Government	50	3	Pol S 102	U.S. Constitution
History of the United States I	50	3	History 109	American History
# History of the United States II	50	3	History 110	American History
Human Growth and Development	50	3	No	No
* Macroeconomics, Principles of	50	3	Economics 101	Foundations of Learning: Social and Behavioral Sciences
* Microeconomics, Principles of	50	3	Economics 102	Foundations of Learning: Social and Behavioral Sciences
Psychology, Introductory	50	3	No	Foundation of Learning: Social and Behavioral Sciences
Social Science and History	50	6	No	Foundations of Learning: Social and Behavioral Sciences Humanities, History
Sociology, Introductory	50	3	Sociology 101	Foundations of Learning: Social and Behavioral Sciences
Western Civilization I	50	3	History 105	Foundations of Learning: Social and Behavioral Sciences Humanities, History
Western Civilization II	50	3	History 106	Foundations of Learning: Social and Behavioral Sciences Humanities, History
<b><u>Science and Mathematics</u></b>				
Biology	50	6	No	Foundations of Learning: Life Sciences
Calculus	51	3	Mathematics 121	Foundations of Learning: Mathematics/Quantitative Reasoning
Chemistry	48	6	Chemistry 200	Foundations of Learning: Physical Sciences
College Algebra	50	3	No	Foundations of Learning: Mathematics/Quantitative Reasoning
College Mathematics	50	6	No	Foundations of Learning: Mathematics/Quantitative Reasoning
Natural Science	50	6	No	Foundations: Physical Sciences and Life Sciences
Precalculus	50	3	No	Foundations of Learning: Mathematics/Quantitative Reasoning

# Does not satisfy the American Institutions California Government requirement.

\* Only one of these examinations can be used in Foundations of Learning: Social and Behavioral Sciences.

International Baccalaureate Credit				
EXAMINATION	SCORE	Semester units credit allowed toward degree	SDSU course equivalents*	REMARKS
Visual Arts.....	Higher 4-7	6	See department.	
Biology.....	Higher 5-7	6	Biology 100 and 100L	Two additional units of Biology 299.
Economics.....	Higher 5-7	6	Economics 101 and 102	
English A1.....	Higher 4-7	6	English 220 and Rhetoric and Writing Studies 100	Exempts from CSU English Placement Test.
French A2.....	Higher 4-7	6	French 220 and 221	Satisfies language graduation requirement and lower division prerequisites.
French B.....	Higher 4-7	6	French 220 and 221	Satisfies language graduation requirement and lower division prerequisites.
Geography.....	Higher 5-7	6	Geography 101 and 102	
German A2.....	Higher 4-7	6	German 202 and 205B	Satisfies language graduation requirement and lower division prerequisites.
German B.....	Higher 4-7	6	German 202 and 205B	Satisfies language graduation requirement and lower division prerequisites.
History of the Americas.....	Higher 5-7	6	History 299	Satisfies American Institutions, except California Government requirement.
Spanish A2.....	Higher 4-7	6	Spanish 202 and 212	Satisfies language graduation requirement and lower division prerequisites.
Spanish B.....	Higher 4-7	6	Spanish 202 and 212	Satisfies language graduation requirement and lower division prerequisites.
Theatre Arts.....	Higher 4-7	6	See department adviser.	

\* Credit may not be earned at SDSU for courses which duplicate credit already allowed for examinations as listed under SDSU course equivalents.

## Withdrawals

### Official Withdrawal

Students who find it necessary to cancel their registration or to withdraw from the university after enrolling for any academic term must initiate action formally through the Office of the Registrar and follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Office of the Registrar.

A student who has not paid fees and is not enrolled in at least one class (other than for audit) by 6:00 p.m. on the 12th class day of the semester is no longer considered a continuing student and may be required to apply for readmission.

A course will not appear on the permanent record if withdrawal occurs before the end of the 10th class day of the semester by 6:00 p.m. After the 10th class day of the semester, withdrawals are not permitted except in cases where the cause of withdrawal is due to circumstances clearly beyond your control, such as accident or serious illness. All such requests must be accompanied by appropriate verification. Credit or an incomplete may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. Refer to the *Class Schedule* for appropriate dates for the deadlines indicated above.

### Withdraw Retroactively

After the last day of instruction for a term, if you wish to change assigned grades to W grades, you must request to withdraw from the full semester's work; no requests for individual classes will be accepted. Such requests may be granted only in verified cases such as accident or serious illness where the cause for substandard performance was due to circumstances clearly beyond your control.

Students who receive financial aid funds must consult with the Office of Financial Aid and Scholarships prior to withdrawing from the university regarding any required return or repayments of grant or loan assistance received for that academic term or payment period. If a recipient of student financial aid funds withdraws from the institution during an academic term or a payment period, the amount of grant or loan assistance received may be subject to return and/or repayment provisions.

### Unofficial Withdrawal

If you withdraw unofficially from classes or from the university, you will receive failing grades in all courses that you stop attending. An unofficial withdrawal is one in which you stop attending classes without filing official withdrawal forms within the established deadlines.

Veterans unofficially withdrawing will have veteran's allowances immediately suspended and will be subject to full repayment of allowances received after date of unofficial withdrawal.

## Leaves of Absence

### One-Semester Stop Out

With certain exceptions, matriculated undergraduate and graduate students may stop out of the university one semester in a calendar year and maintain their continuing student status. Continuing status includes the maintenance of catalog requirements for graduation. Disqualified students, students absent for more than one semester without an approved leave of absence, and those who attend another institution for more than one semester must apply for readmission should they wish to return to San Diego State University. Students who are disqualified are not eligible for a one-semester stop out.

### Educational Leave of Absence

Students are permitted to take up to four semesters of approved leave of absence. An educational leave of absence is appropriate in those cases where students will be engaged for the majority of the leave time in an activity, other than attending an accredited college or university, that is directly related to their formal academic careers or otherwise contributes to specific academic goals. Students must apply for the particular semester they wish to be absent from school. If they wish to take leave for additional semesters, they must do so on a semester-by-semester basis. Students may request a leave of absence at <http://www.sdsu.edu/portal>.

The academic calendar lists specific deadlines. For students participating in the CSU visitors' program, units completed at the visitor campus will be considered resident units; they will not, however, be calculated into the San Diego State University grade point average.

Approval for educational leaves of absence will be granted only to undergraduate students who have completed a minimum of one semester at San Diego State University, who are in good academic standing, and who are eligible to register. Leaves will not be granted to students on probation, students who are subject to disqualification or have been disqualified, students who qualify for a change from undergraduate to graduate status, or students who have a registration hold.

### Military Called to Compulsory Service

For information about the policy for Military Called to Compulsory Service, contact the SDSU Veterans Center at 619-594-5813.

## Readmission

Information on readmission is given in the section of this catalog on Admission and Registration, page 16.

## Probation and Disqualification

### Academic Probation

The purpose of probation is to warn students that their academic performance is below the state minimum required for graduation and to indicate that improvement is required before a degree can be granted.

An undergraduate student whose grade point average falls below a C average (2.0) for either all baccalaureate level college work attempted or all work attempted at San Diego State University will be placed on academic probation at the end of the semester.

Provided a student earns a C average (2.0) or better in San Diego State University work during the semester while on academic probation, academic probation may be continued up to a maximum of three semesters.

Academic probation will be lifted when the student has attained a C (2.0) average or better on all baccalaureate level college work attempted and on all work attempted at San Diego State University.

Summer term and Open University courses are included in the SDSU grade point average; Extension courses are calculated only in the overall grade point average.

Grade point average is computed by dividing the number of grade points accumulated by the number of graded units attempted (see chart under Plus/Minus Grading for number of grade points assigned per unit in each grade category.)

### Academic Disqualification

Students who are admitted to SDSU in good standing will not be disqualified at the end of their first semester of coursework at San Diego State University. After the first semester, students will be disqualified at the end of the fall or spring semesters if the following conditions exist:

1. A student on probation fails to earn at least a 2.0 grade point average (C average) in San Diego State University work for any semester while on probation, or

2. A student on academic probation still has less than a 2.0 grade point average in all work attempted at San Diego State University at the end of the third semester on probation.

Students who have been disqualified from SDSU will not be allowed to attend regular or Open University classes, or classes through the SDSU College of Extended Studies Special Sessions until one year from the date of their disqualification. Students must also reapply for admission to the university and gain acceptance before resuming enrollment in regular SDSU classes after that one year.

### Administrative-Academic Probation

An undergraduate or graduate student may be placed on administrative-academic probation by action of appropriate campus officials for any of the following reasons:

1. Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms.
2. Repeated failure to progress toward the stated degree or objective or other program objective, including that resulting from assignment of 15 units of No Credit (when such failure appears to be due to circumstances within the control of the student).
3. Failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students (examples: failure to list all colleges attended on the application for admission, failure to take placement tests, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program).

### Administrative-Academic Disqualification

A student who has been placed on administrative-academic probation may be disqualified from further attendance if:

1. The conditions for removal of administrative-academic probation are not met within the period specified.
2. The student becomes subject to administrative-academic probation while on administrative probation.
3. The student becomes subject to administrative-academic probation for same or similar reason for which the student has been placed on administrative-academic probation previously, although not currently in such status.

In addition, an appropriate campus administrator may disqualify a student who at any time during enrollment has demonstrated behavior so contrary to the standards of the professional for which the student is preparing as to render him/her unfit for the profession. In such cases, disqualification will occur immediately upon notice to the student, which shall include an explanation of the basis for the action, and the campus may require the student to discontinue enrollment as of the date of the notification.

Students who have been disqualified from SDSU will not be allowed to attend regular, or Open University, or classes through the SDSU College of Extended Studies Special Sessions until one year from the date of their disqualification. Students must also reapply for admission to the university and gain acceptance before resuming enrollment in regular SDSU classes after that one year.

## Student-Athlete Satisfactory Academic Progress Requirement

In order to remain eligible for intercollegiate competition, a student-athlete must be enrolled in an academic program leading to a recognized degree, and must be making satisfactory progress toward that degree under the rules of the institution and the NCAA.

## Student Conduct

Inappropriate conduct by students or by applicants for admission is subject to discipline on the San Diego State University campus. The Center for Student Rights and Responsibilities coordinates the discipline process and establishes standards and procedures in accordance with regulations contained in Sections 41301 through 41304 of Title 5, *California Code of Regulations*. These sections are as follows:

### 41301. Standards for Student Conduct.

#### (a) Campus Community Values

San Diego State University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community must choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

#### (b) Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. The following are grounds upon which student discipline can be based:

- (1) Dishonesty, including:
  - (A) Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
  - (B) Furnishing false information to a university official, faculty member, or campus office.
  - (C) Forgery, alteration, or misuse of a university document, key, or identification instrument.
  - (D) Misrepresenting oneself to be an authorized agent of the university or one of its auxiliaries.
- (2) Unauthorized entry into, presence in, use of, or misuse of university property.
- (3) Willful, material and substantial disruption or obstruction of a university-related activity, or any on-campus activity.
- (4) Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
- (5) Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus university related activity.
- (6) Disorderly, lewd, indecent, or obscene behavior at a university related activity, or directed toward a member of the university community.
- (7) Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
- (8) Hazing, or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university, or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university, or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.

Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.

- (9) Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
- (10) Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university related activity.
- (11) Theft of property or services from the university community, or misappropriation of university resources.
- (12) Unauthorized destruction, or damage to university property or other property in the university community.
- (13) Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a university related activity.
- (14) Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
- (15) Misuse of computer facilities or resources, including:
  - (A) Unauthorized entry into a file, for any purpose.
  - (B) Unauthorized transfer of a file.
  - (C) Use of another's identification or password.
  - (D) Use of computing facilities, campus network, or other resources to interfere with the work of another member of the university community.
  - (E) Use of computing facilities and resources to send obscene or intimidating and abusive messages.
  - (F) Use of computing facilities and resources to interfere with normal university operations.
  - (G) Use of computing facilities and resources in violation of copyright laws.
  - (H) Violation of a campus computer use policy.
- (16) Violation of any published university policy, rule, regulation or presidential order.
- (17) Failure to comply with directions of, or interference with, any university official or any public safety officer while acting in the performance of his/her duties.
- (18) Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the university community, to property within the university community or poses a significant threat of disruption or interference with university operations.
- (19) Violation of the Student Conduct Procedures, including:
  - (A) Falsification, distortion, or misrepresentation of information related to a student discipline matter.
  - (B) Disruption or interference with the orderly progress of a student discipline proceeding.
  - (C) Initiation of a student discipline proceeding in bad faith.
  - (D) Attempting to discourage another from participating in the student discipline matter.
  - (E) Attempting to influence the impartiality of any participant in a student discipline matter.
  - (F) Verbal or physical harassment or intimidation of any participant in a student discipline matter.
  - (G) Failure to comply with the sanction(s) imposed under a student discipline proceeding.

(20) Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

(c) Procedures for Enforcing this Code

The chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the university imposes any sanction for a violation of the Student Conduct Code.

### 41302. Disposition of Fees: Campus Emergency; Interim Suspension.

The president of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the president of the individual campus, the president may, after consultation with the chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The president may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the president or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

### 41303. Conduct by Applicants for Admission.

Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

### 41304. Student Disciplinary Procedures for the California State University.

The chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for the California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302; the authority of the campus president in such matters; conduct related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a hearing officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The chancellor shall report to the board actions taken under this section.

## Student Grievances

If a student believes that a professor's treatment is grossly unfair or that a professor's behavior is clearly unprofessional, the student may bring the complaint to the proper university authorities and official reviewing bodies by following the *Procedures for Handling Student Grievances Against Members of the Faculty*, adopted by the Faculty Senate. A copy of the procedures may be obtained from the Office of the Ombudsman in the Student Services building.

## Plagiarism

Plagiarism is formal work publicly misrepresented as original; it is any activity wherein one person knowingly, directly, and for lucre, status, recognition, or any public gain resorts to the published or unpublished work of another in order to represent it as one's own. Work shall be deemed plagiarism: (1) when prior work of another has been demonstrated as the accessible source; (2) when substantial or material parts of the source have been literally or evasively appropriated (substance denoting quantity; matter denoting qualitative format or style); and (3) when the work lacks sufficient or unequivocal citation so as to indicate or imply that the work was neither a copy nor an imitation. This definition comprises oral, written, and crafted pieces. In short, if one purports to present an original piece but copies ideas word for word or by paraphrase, those ideas should be duly noted.

Lindey, Alexander. *Plagiarism and Originality*, 1952.

San Diego State University is a publicly assisted institution legislatively empowered to certify competence and accomplishment in general and discrete categories of knowledge. The president and faculty of this university are therefore obligated not only to society at large but to the citizenry of the State of California to guarantee honest and substantive knowledge in those to whom they assign grades and whom they recommend for degrees. Wittingly or willfully to ignore or to allow students' ascription of others' work to themselves is to condone dishonesty, to deny the purpose of formal education, and to fail the public trust.

The objective of university endeavor is to advance humanity by increasing and refining knowledge and is, therefore, ill served by students who indulge in plagiarism. Accordingly, one who is suspected or accused of disregarding, concealing, aiding, or committing plagiarism must, because of the gravity of the offense, be assured of thorough, impartial, and conclusive investigation of any accusation. Likewise, one must be liable to an appropriate penalty, even severance from the university and in some cases revocation of an advanced degree, should the demonstrated plagiarism clearly call into question one's general competence or accomplishments.

## SDSU Alcohol and Substance Abuse Policies

**In accordance with the California Information Practices Act, the Vice President for Student Affairs or designee of San Diego State University may notify a student's parent(s) or legal guardian(s) in the event compelling circumstances exist affecting the student's health or safety, including circumstances involving alcohol or controlled substances.**

This statement is presented to students to provide information about (1) health risks associated with alcohol and other drugs, (2) prevention and treatment programs available on campus, and (3) applicable State laws and campus policies.

## Risks

Use and abuse of alcohol and other drugs can lead to accidents, injury, and other medical emergencies. Alcohol, especially in high doses, or when combined with medications or illegal drugs continues to claim the lives of college students across the nation. If you see someone unconscious, call 9-1-1; doing so may save his or her life.

Driving after consumption of even relatively small quantities of alcohol can substantially increase your risk of crash involvement. Even after just a drink or two, drinkers may experience some loss of their ability to think about complex problems or accomplish complex tasks. Drinkers may also lose some control over impulsive behavior.

To become dependent upon chemicals such as alcohol and/or illicit drugs is to put your health and life at risk. Chemical dependency is a condition in which the use of mood altering substances, such as drugs or alcohol, affect any area of life on a continuing basis. Medical research has established very strong evidence that alcohol abuse contributes significantly to cancer and heart disease. Many illicit drugs have also been demonstrated to lead to serious short and long-term health problems. There is clear evidence of serious negative effects on babies due to use of illicit drugs and alcohol by the mother during pregnancy.

## Campus Resources

Keeping yourself informed is an important step in developing a healthy lifestyle and in knowing how to cope with problems as they arise. SDSU provides useful and informative prevention education programs throughout the year. A variety of departments sponsor workshops and lectures on alcohol and drug related issues to support and encourage healthy, productive lifestyles. These programs are available through: Counseling and Psychological Services, 619-594-5220; Residential Education Office, 619-594-5742; Alcohol and Other Drug Initiatives, 619-594-4133; Athletic Department, 619-594-3019; Student Health Services, 619-594-5281; University Police, 619-594-1991.

For students with substance abuse problems or concerns, assistance is available at SDSU's Counseling and Psychological Services (CPS) located in Calpulli Center, Room 4401. Students who prefer an appointment with a health care provider (e.g. nurse or physician), may contact Student Health Services. If you are aware of problems with friends, roommates, or family members, we encourage you to act responsibly by consulting with Counseling and Psychological Services. Remaining silent or waiting until a situation has escalated is not responsible behavior. SDSU supports the notion of students helping one another to cooperatively solve alcohol and substance abuse problems as they occur.

## Laws and Campus Policy

With few exceptions, it is illegal for anyone under the age of 21 to purchase or possess alcohol. If you violate these laws you may face a fine of \$250 and suspension of your driving license. For more information about California laws visit the California State Bar Web site at [http://www.calbar.ca.gov/calbar/pdfs/cbj/kids\\_and\\_the\\_law.pdf](http://www.calbar.ca.gov/calbar/pdfs/cbj/kids_and_the_law.pdf) or the California Alcohol Beverage Control Web site at <http://www.abc.ca.gov/teencorner.html>.

Federal and State laws define a number of substances as "drugs" with sanctions related to their manufacture, sale, possession, and use varying by type of substance and quantity. See California State Bar Web site at

[http://www.calbar.ca.gov/calbar/pdfs/cbj/kids\\_and\\_the\\_law.pdf](http://www.calbar.ca.gov/calbar/pdfs/cbj/kids_and_the_law.pdf).

In addition to the Standards for Student Conduct in the California Code of Regulations, Title V, Article 2, Section 41301, SDSU's expectations of responsible student behavior prohibits the unlawful possession, use, or distribution of drugs and alcohol by students on university property or in surrounding neighborhoods, or as any part of the university's activities. Violators may face suspension or expulsion from the university. In addition, the university will cooperate with governmental authorities in criminal and civil actions. The university does not accept alcohol or substance abuse as an excuse, reason, or rationale for any act of abuse, harassment, intimidation, violence, or vandalism.

Possession or consumption of distilled liquor on university property is prohibited at all times. Possession, consumption, or sale of beer or wine by those 21 years of age or older is permitted at designated campus locations and events only with prior approval of the vice president for student affairs.

On campus property, the sale, distribution, knowing possession, and use of dangerous drugs or narcotics are prohibited. You are also forbidden by State and Federal laws to sell, distribute, possess, or use those drugs.

Student organizations, residence halls, athletics, and Greek Life have instituted additional policies regarding alcohol and drugs. Please contact relevant administration offices for more information. More information can also be found at <http://aod.sdsu.edu>.

As a student at SDSU, you are responsible for your behavior and are fully accountable for your actions. Violation of this policy statement will not go unchallenged within the SDSU community. Any university student may be expelled, suspended, or placed on probation for violating university regulations regarding alcohol or drugs. Additionally, using alcohol or drugs negatively affects your academic performance.

Students who possess, use, or distribute substances such as, but not limited to, marijuana, cocaine, methamphetamines, or other hallucinogens and narcotics, or who violate statutes regarding alcoholic beverages, are subject to arrest, imprisonment, or a fine according to State law. The University Police Department is empowered to enforce all State and Federal laws, including public drunkenness, driving under the influence, and possession of alcohol by a minor.

The university's commitment to exercising disciplinary powers in cases of illegal alcohol and drug use complements its full measure of support for students who seek help for themselves or their acquaintances. These two approaches, combined with an active prevention education program, provide a strong basis for maintaining university expectations for a safe, healthy, and productive campus community. We hope that you will take advantage of the programs and services available to you, and that you will join with us in creating a viable learning community.

## SDSU Smoke Free Policy

This policy implements CSU Executive Order 599, in accordance with Education Code 89031.

Smoking is prohibited in all San Diego State University buildings or leased spaces and motor pool vehicles.

Smoking is prohibited in those outdoor areas which are either connected to or in close proximity of SDSU buildings or leased space if the smoke can readily enter the building through open doors, windows, or ventilation system intakes.

Smoking is prohibited in outdoor areas immediately adjacent to SDSU owned or leased food establishments unless designated as a smoking area, consistent with the overall goals of this policy; smoking is prohibited in outdoor SDSU owned or leased constructed seating areas where people are likely to congregate, unless designated as a smoking area.

The success of this policy depends upon the thoughtfulness, consideration, and cooperation of everyone. Deans, directors, and department chairs are responsible for implementing this policy. The associate vice president for faculty affairs and the director of the Center for Human Resources are available to assist in the policy interpretation and to ensure its consistent application.

To aid persons desiring to stop smoking, the university offers smoking cessation programs for students through Student Health Services and for faculty and staff through the Center for Human Resources.

The SDSU auxiliary organizations shall operate in conformity with this campus policy.



## **Safety and Security Report**

In accordance with the requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, the San Diego State University Safety, Security and Fire Report and current annual crime statistics are available online at <http://www.police.sdsu.edu>. Call the University Police Crime Prevention Unit at 619-594-1985 for more information.

## **Availability of Information**

The following information concerning student financial assistance may be obtained from the Office of Financial Aid and Scholarships, Student Services, Room 3605, 619-594-6323, or at <http://www.sdsu.edu/financialaid>:

1. A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at San Diego State University;
2. For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
3. A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
4. The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The terms of any loan received as part of the student's financial aid package, sample loan repayment information, and the necessity for repaying loans;
7. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
8. The responsibility of San Diego State University for providing and collecting exit counseling information for all student borrowers under the federal student loan programs; and
9. The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service.

Information concerning the cost of attending San Diego State University is available from the Office of Financial Aid and Scholarships, Student Services, Room 3605, 619-594-6323, or at <http://www.sdsu.edu/financialaid>, and includes fees and tuition; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of San Diego State University for the return of unearned tuition and fees or other refundable portions of institutional charges is available from Student Account Services, Student Services 2536, 619-594-5253, or at <http://www.sdsu.edu/sas>.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation is available from the Office of Financial Aid and Scholarships, Student Services, Room 3605, 619-594-6323, or at <http://www.sdsu.edu/financialaid>.

Information regarding special facilities and services available to students with disabilities may be obtained from Student Disability Services, Calpulli Center, Room 3100, 619-594-6473 (TDD: 619-594-2929), or at <http://www.sa.sdsu.edu/sds>.

Information concerning San Diego State University policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from the Department of Public Safety, 619-594-1991, or at

<http://www.police.sdsu.edu>.

Information concerning San Diego State University annual campus security report may be obtained from the Department of Public Safety, 619-594-1991, or at <http://www.police.sdsu.edu>.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from Counseling and Psychological Services, Calpulli Center, Room 4401, 619-594-5220, or at <http://www.sa.sdsu.edu/cps>.

Information regarding student retention and graduation rates of students enrolled at San Diego State University and, if available, the number and percentage of students completing the program in which the student is enrolled or expresses interest may be obtained from Analytic Studies and Institutional Research, Manchester Hall, Room 3310, 619-594-6846, or at <http://asir.sdsu.edu>.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that San Diego State University dedicates to its men's and women's teams may be obtained from the director of Intercollegiate Athletics, Aztec Athletics Center, Room 3015, 619-594-6357, or at

<http://www.goaztecs.com>.

Information concerning teacher preparation programs at San Diego State University, including pass rate on teacher certification examinations, may be obtained from the Office of Advising and Recruitment, Education and Business Administration, Room 259, 619-594-6320.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from the ombudsman, Student Services, Room 1105, 619-594-6578, or at <http://www.sa.sdsu.edu/ombuds>.

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at <http://www.sss.gov>.

# ADDENDA

The California State University  
Faculty and Administration

Index

SDSU Campus Map

# The California State University

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972, the system became the California State University and Colleges, and in 1982 the system became the California State University. Today, the campuses of the CSU include comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus – San José State University – was founded in 1857 and became the first institution of public higher education in California. The newest – CSU Channel Islands – opened in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees, whose members are appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of the California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by the California State University through a distinguished faculty whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All campuses require for graduation a basic program of "General Education Requirements" regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,800 bachelor's and master's degree programs in some 357 subject areas. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time, late afternoon, and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California. In 2005, the CSU was authorized to independently offer educational doctorate (Ed.D.) programs, and a total of 10 CSU campuses currently have Ed.D. programs.

Enrollment in fall 2008 totaled almost 450,000 students, who were taught by some 24,000 faculty. The system awards about half of the bachelor's degrees and a third of the master's degrees granted in California. Nearly 2.5 million students have graduated from CSU campuses since 1961.

## Average Support Cost Per Full-time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of full-time equivalent students. The total CSU 2009/10 final budget amounts were \$2,337,952,000 from state General Fund appropriations (not including capital outlay funding), \$1,593,422,000 from State University Fee (SUF) revenue, \$300,342,000 from other fee revenues and reimbursements for a total of \$4,231,716,000. The number of projected 2009/10 full-time equivalent students (FTES) is 357,403. The number of full-time equivalent students is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The 2009/10 average support cost per full-time equivalent student based on General Fund appropriation and State University Fee revenue only is \$11,000 and when including all sources as indicated below is \$11,840. Of this amount, the average student fee support per FTES is \$5,298, which includes all fee revenue in the CSU Operating Fund (e.g. State University Fee, nonresident tuition, application fees, and other miscellaneous fees).

The average CSU 2009/10 academic year, resident, undergraduate student fees required to apply to, enroll in, or attend the university is \$4,893. However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

2009/10	Amount	Average Cost Per FTE	
		Student	Percentage
Total Support Cost	\$4,231,716,000	\$11,840	100%
–State Appropriation	2,337,952,000	6,542	55%
–Student Fee Support*	1,593,422,000	4,458	38%
–Other Income and Reimbursements**	300,342,000	840	7%

\* Student fee support represents campus 2009/10 final budget submitted State University Fee revenue.

\*\* The other income and reimbursements represent campus other fee 2009/10 final budget revenues submitted, as well as reimbursements in the CSU Operating Fund.

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The California State University		

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Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

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*Correspondence with Trustees should be sent to:*

c/o Trustees Secretariat  
The California State University  
401 Golden Shore  
Long Beach, CA 90802-4210

### Office of the Chancellor The California State University

401 Golden Shore  
Long Beach, CA 90802-4210  
Telephone: 562-951-4000

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Ms. Christine Helwick	General Counsel
Mr. Garrett Ashley	Vice Chancellor, University Relations and Advancement

## Campuses — The California State University

### CALIFORNIA STATE UNIVERSITY, BAKERSFIELD

9001 Stockdale Highway, Bakersfield, CA 93311-1022  
Dr. Horace Mitchell, President  
661-654-2782 • [www.csub.edu](http://www.csub.edu)

### CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS

One University Drive, Camarillo, CA 93012  
Dr. Richard Rush, President  
805-437-8400 • [www.csuci.edu](http://www.csuci.edu)

### CALIFORNIA STATE UNIVERSITY, CHICO

400 West First Street, Chico, CA 95929-0150  
Dr. Paul J. Zingg, President  
530-898-4636 • [www.csuchico.edu](http://www.csuchico.edu)

### CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

1000 East Victoria Street, Carson, CA 90747-0005  
Dr. Mildred Garcia, President  
310-243-3301 • [www.csudh.edu](http://www.csudh.edu)

### CALIFORNIA STATE UNIVERSITY, EAST BAY

25800 Carlos Bee Boulevard, Hayward, CA 94542  
Dr. Mohammed Qayoumi, President  
510-885-3000 • [www.csueastbay.edu](http://www.csueastbay.edu)

### CALIFORNIA STATE UNIVERSITY, FRESNO

5241 North Maple Avenue, Fresno, CA 93740  
Dr. John D. Welty, President  
559-278-4240 • [www.csufresno.edu](http://www.csufresno.edu)

### CALIFORNIA STATE UNIVERSITY, FULLERTON

800 N. State College Boulevard, Fullerton, CA 92831-3599  
Dr. Milton A. Gordon, President  
657-278-2011 • [www.fullerton.edu](http://www.fullerton.edu)

### HUMBOLDT STATE UNIVERSITY

Arcata, CA 95521-8299  
Dr. Rollin C. Richmond, President  
707-826-4402 • [www.humboldt.edu](http://www.humboldt.edu)

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

1250 Bellflower Boulevard, Long Beach, CA 90840-0115  
Dr. F. King Alexander, President  
562-985-4111 • [www.csulb.edu](http://www.csulb.edu)

### CALIFORNIA STATE UNIVERSITY, LOS ANGELES

5151 State University Drive, Los Angeles, CA 90032  
Dr. James M. Rosser, President  
323-343-3000 • [www.calstatela.edu](http://www.calstatela.edu)

### CALIFORNIA MARITIME ACADEMY

200 Maritime Academy Drive, Vallejo, CA 94590  
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707-654-1000 • [www.csum.edu](http://www.csum.edu)

### CALIFORNIA STATE UNIVERSITY, MONTEREY BAY

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Dr. Dianne Harrison, President  
831-582-3330 • [www.csumb.edu](http://www.csumb.edu)

### CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

18111 Nordhoff Street, Northridge, CA 91330  
Dr. Jolene Koester, President  
818-677-1200 • [www.csun.edu](http://www.csun.edu)

### CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

3801 West Temple Avenue, Pomona, CA 91768  
Dr. J. Michael Ortiz, President  
909-869-7659 • [www.csupomona.edu](http://www.csupomona.edu)

### CALIFORNIA STATE UNIVERSITY, SACRAMENTO

6000 J Street, Sacramento, CA 95819  
Dr. Alexander Gonzalez, President  
916-278-6011 • [www.csus.edu](http://www.csus.edu)

### CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

5500 University Parkway, San Bernardino, CA 92407-2393  
Dr. Albert K. Karnig, President  
909-537-5000 • [www.csusb.edu](http://www.csusb.edu)

### SAN DIEGO STATE UNIVERSITY

5500 Campanile Drive, San Diego, CA 92182  
Dr. Stephen L. Weber, President  
619-594-5200 • [www.sdsu.edu](http://www.sdsu.edu)

#### ★IMPERIAL VALLEY CAMPUS

720 Heber Avenue, Calexico, CA 92231  
760-768-5500 • [www.ivcampus.sdsu.edu](http://www.ivcampus.sdsu.edu)

### SAN FRANCISCO STATE UNIVERSITY

1600 Holloway Avenue, San Francisco, CA 94132  
Dr. Robert A. Corrigan, President  
415-338-1111 • [www.sfsu.edu](http://www.sfsu.edu)

### SAN JOSÉ STATE UNIVERSITY

One Washington Square, San Jose, CA 95192-0001  
Dr. Jon Whitmore, President  
408-924-1000 • [www.sjsu.edu](http://www.sjsu.edu)

### CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

One Grand Avenue, San Luis Obispo, CA 93407  
Dr. Warren J. Baker, President  
805-756-1111 • [www.calpoly.edu](http://www.calpoly.edu)

### CALIFORNIA STATE UNIVERSITY, SAN MARCOS

333 S. Twin Oaks Valley Road, San Marcos, CA 92096-0001  
Dr. Karen S. Haynes, President  
760-750-4000 • [www.csusm.edu](http://www.csusm.edu)

### SONOMA STATE UNIVERSITY

1801 East Cotati Avenue, Rohnert Park, CA 94928-3609  
Dr. Ruben Armiñana, President  
707-664-2880 • [www.sonoma.edu](http://www.sonoma.edu)

### CALIFORNIA STATE UNIVERSITY, STANISLAUS

One University Circle, Turlock, CA 95382-0299  
Dr. Hamid Shirvani, President  
209-667-3122 • [www.csustan.edu](http://www.csustan.edu)

# 2009–2010 Tenured, Tenured-Track Faculty, and Administration

- Weber, Stephen L. (1996)**..... *President; Professor of Philosophy*  
B.A., Bowling Green State University; Ph.D., University of Notre Dame.
- Abalahin, Andrew J. (2005)**..... *Assistant Professor of History*  
B.S., Georgetown University; Ph.D., Cornell University.
- Abdel-Nour, Farid (2000)**..... *Associate Professor of Political Science*  
B.S., Ph.D., Rutgers, The State University of New Jersey.
- Adams, Brian E. (2003)**..... *Associate Professor of Political Science*  
B.A., University of Southern California; M.A., Ph.D., University of California, Irvine.
- Addo, Theophilus (1987)**..... *Associate Professor of Information and Decision Systems*  
B.Sc., University of Ghana; M.S.T.M., American University, Washington, D.C.; M.B.A., Ph.D., Indiana University, Bloomington.
- Aguado, Edward (1982)**..... *Assistant Dean for Student Services, Policy and Curriculum, Division of Graduate Affairs; Professor of Geography*  
B.A., M.A., University of California, Los Angeles; Ph.D., University of Wisconsin.
- Aguilar, Isabel (1972)**..... *Director, Outreach and Career Counseling, Imperial Valley Campus*  
A.B., M.S., San Diego State University.
- Aitken, Stuart C. (1986)**..... *Professor of Geography*  
B.Sc., Glasgow University; M.A., Miami University; Ph.D., University of Western Ontario.
- Ajayi, Lasisi (2006)**..... *Assistant Professor of Teacher Education, Imperial Valley Campus*  
B.A., M.A., Obafemi Awolowo University, Nigeria; Ph.D., University of Ibadan, Nigeria.
- Alcaraz, John E. (1993)**..... *Associate Professor of Public Health*  
B.A., M.A., Ph.D., University of California, San Diego.
- Alcosser, Sandra B. (1986)**..... *Professor of English*  
B.A., Purdue University; M.F.A., University of Montana.
- Alexseev, Mikhail A. (2000)**..... *Professor of Political Science*  
B.A., M.A., Kiev State University; Ph.D., University of Washington.
- Alfaro, Cristina (2004)**..... *Associate Professor of Policy Studies in Language and Cross-Cultural Education*  
B.A., M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Alger, Christianna (2002)**..... *Assistant Professor of Teacher Education*  
B.A., San Francisco State University; M.A., Mills College; Ph.D., Loyola University.
- Alkebulan, Adisa A. (2002)**..... *Associate Professor of Africana Studies*  
B.A., Kent State University; M.A., Ph.D., Temple University.
- Allison, Alida L. (1990)**..... *Professor of English and Comparative Literature*  
B.A., M.A., San Diego State University; Ph.D., University of California, Riverside.
- Altamirano, Magdalena (2006)**..... *Assistant Professor of Spanish, Imperial Valley Campus*  
B.A., Universidad Nacional Autonoma de Mexico; M.A., Ph.D., El Colegio de Mexico.
- Alter, Joseph W. (2005)**..... *Associate Professor of Dance*  
B.A., Hunter College; M.F.A., The Ohio State University.
- Alvarado, Elizabeth R. (1974)**..... *Counselor, Educational Opportunity and Ethnic Affairs*  
A.B., California State University, Northridge; M.S., San Diego State University.
- Alvarado, José L. (1999)**..... *Associate Professor of Special Education*  
B.A., M.A., San Diego State University; Ph.D., University of Virginia.
- Alves, Thais (2009)**..... *Assistant Professor of Civil, Construction, and Environmental Engineering*  
B.S., M.S., Federal University of Rio Grande do Norte, Brazil; Ph.D., University of California, Berkeley.
- Amir, Nader (2006)**..... *Associate Professor of Psychology*  
B.A., B.S., University of Illinois at Urbana-Champaign; M.S., Ph.D., The Herman M. Finch University of Health Sciences/The Chicago Medical School.
- Amtower, Laurel (1997)**..... *Professor of English and Comparative Literature*  
B.A., University of California, Irvine; M.A., Ph.D., University of Washington.
- Amuedo-Dorantes, Catalina (1999)**..... *Professor of Economics*  
B.A., University of Sevilla, Spain; M.A., Ph.D., Western Michigan University.
- An, Li (2005)**..... *Associate Professor of Geography*  
B.S., Beijing University; M.S., Chinese Academy of Sciences; Ph.D., Michigan State University.
- An, Xudong (2007)**..... *Assistant Professor of Finance*  
B.S., M.S., Nanjing University; Ph.D., University of Southern California.
- Andersen, Peter A. (1981, except 1983-85)**..... *Professor of Communication*  
B.A., University of Illinois; M.S., Illinois State University; Ph.D., Florida State University.
- Anderson, Bonnie M. (1988)**..... *Assistant Dean, Undergraduate Studies; Lecturer in Theatre, Television, and Film*  
B.A., Mills College; M.A., California State University, Fullerton; Ph.D., University of California, Santa Barbara.
- Anderson, John C. (2001)**..... *Professor of Accountancy*  
B.B.A., M.S., University of Missouri; Ph.D., University of Tennessee.
- Anderson, Matthew E. (2000)**..... *Associate Professor of Physics*  
B.S., University of California, San Diego; Ph.D., University of Oregon.
- Anderson, Todd W. (1999)**..... *Associate Professor of Biology*  
B.S., M.A., California State University, Fresno; Ph.D., University of California, Santa Barbara.
- Angelelli, Claudia V. (2001)**..... *Professor of Spanish*  
B.A., Universidad Catolica Argentina; M.A., Monterey Institute of International Studies; Ph.D., Stanford University.
- Antoninetti, Maurizio (2008)**..... *Assistant Professor of Public Affairs*  
B.A., Polytechnic of Milan, Italy; M.A., San Diego State University; Ph.D., San Diego State University and University of California, Santa Barbara.
- Arceneaux, Ronald J. (2007)**..... *Assistant Professor of Journalism and Media Studies*  
A.B.J., University of Georgia; M.A., City University of New York; Ph.D., University of Georgia.
- Archibald, J. David (1983)**..... *Professor of Biology*  
B.S., Kent State University; Ph.D., University of California, Berkeley.
- Arenas-Mena, Cesar (2002)**..... *Assistant Professor of Biology*  
B.S., Universidad de Alcalá de Henares; Ph.D., Instituto de Biología Molecular de Barcelona.
- Arnold, William I. (2007)**..... *Assistant Professor of Military Science*  
B.A., San Diego State University.
- Arredondo, Elva M. (2008)**..... *Assistant Professor of Public Health*  
B.S., University of Washington; M.A., Ph.D., Duke University.
- Ashrafi, Ashkan (2007)**..... *Assistant Professor of Electrical and Computer Engineering*  
B.Sc., M.Sc., K.N., University of Technology, Tehran; M.S.E., Ph.D., University of Alabama, Huntsville.
- Atkins, Catherine J. (1988)**..... *Associate Dean for Faculty Affairs, College of Sciences; Professor of Psychology*  
A.B., M.S., San Diego State University; Ph.D., University of California, Riverside.
- Atterton, Peter C. (2005)**..... *Associate Professor of Philosophy*  
B.A., M.A., Ph.D., University of Essex.
- Attin, Mina (2009)**..... *Assistant Professor of Nursing*  
B.S., California State University, Los Angeles; M.S.N., Ph.D., University of California, Los Angeles.
- Aufesser, Peter M. (1975)**..... *Professor of Exercise and Nutritional Sciences*  
B.S., Springfield College; Ed.M., State University of New York, Buffalo; Ph.D., University of Maryland.
- Ayala, Guadalupe X. (2005)**..... *Associate Professor of Public Health*  
B.A., University of San Diego; M.P.H., San Diego State University; Ph.D., San Diego State University and University of California, San Diego.
- Baber, Carolyn D. (1987)**..... *Librarian*  
B.S., Illinois State University; M.S., University of Illinois at Urbana-Champaign.
- Bacon, Terrence (2007)**..... *Assistant Professor of Military Science*  
B.S., Illinois State University.
- Badrinath, Swaminathan G. (2000)**..... *Professor of Finance*  
B.A., M.A., Delhi University; M.B.A., Indian Institute of Management; Ph.D., Purdue University.
- Baek, Jong-Deuk (2008)**..... *Assistant Professor of Public Health*  
B.A., M.B.A., Kyung Hee University; Ph.D., University of South Carolina.
- Bahde, Anne (2007)**..... *Senior Assistant Librarian*  
B.A., University of Chicago; M.L.S., University of Illinois at Urbana-Champaign; M.A., Central Washington University.
- Bailey, Barbara Ann (2006)**..... *Assistant Professor of Statistics*  
B.S., Springfield College in Illinois; M.S., University of Illinois at Urbana-Champaign; Ph.D., North Carolina State University.
- Bailey, Quentin J. (2006)**..... *Assistant Professor of English and Comparative Literature*  
B.A., University of Cape Town; M.A., University of Oklahoma; Ph.D., University of Oxford.

- Baker, William E. (2001)** ..... *Professor of Marketing*  
B.A., Northwestern University; M.A., Ph.D., University of Florida.
- Baljon, Arlette R.C. (1999)** ..... *Associate Professor of Physics*  
M.S., University of Utrecht, The Netherlands; Ph.D., University of Chicago.
- Ball, Joseph W. (1975)** ..... *Professor of Anthropology*  
A.B., Fordham University; M.A., Ph.D., University of Wisconsin.
- Balsdon, Edmund M. (2000)** ..... *Associate Professor of Economics*  
B.A., College of the Holy Cross; M.A., Ph.D., University of California, Santa Barbara.
- Barbone, Steven L. (1997)** ..... *Associate Professor of Philosophy*  
B.S., University of Scranton; Ph.D., Marquette University.
- Barlow, Jessica A. (1997)** ..... *Professor of Speech, Language, and Hearing Sciences*  
B.A., M.A., Ph.D., Indiana University.
- Baron, Lawrence (1988)** ..... *The Nasatir Professor of Modern Jewish History; Professor of History*  
B.A., University of Illinois; M.A., Ph.D., University of Wisconsin.
- Bayasi, M. Ziad (1990)** ..... *Professor of Civil, Construction, and Environmental Engineering*  
B.S., Damascus University, Syria; M.S., South Dakota State University; M.S., Ph.D., Michigan State University. Registered Professional Engineer.
- Beach, Wayne A. (1984)** ..... *Professor of Communication*  
B.A., Drake University; M.A., University of Montana; Ph.D., University of Utah.
- Beasley, Edward (2006)** ..... *Associate Professor of History*  
B.A., M.A., Ph.D., University of California, San Diego.
- Beatty, James R. (1973)** ..... *Professor of Information and Decision Systems*  
A.B., Franklin College; M.S., Indiana State University; Ph.D., University of Northern Colorado.
- Beauvais, Laurance G. (2006)** ..... *Assistant Professor of Chemistry and Biochemistry*  
B.S., University of Houston; Ph.D., University of California, Berkeley.
- Beck, Lawrence A. (1982, except F'85-S'86)** ..... *Professor of Hospitality and Tourism Management*  
B.S., Humboldt State University; M.A., Azusa Pacific University; Ph.D., University of Minnesota.
- Beck, Leland L. (1980)** ..... *Professor of Computer Science*  
A.B., Rice University; M.A.S., Ph.D., Southern Methodist University.
- Bedau, Danielle J. (2006)** ..... *Assistant Professor of Theatre, Television, and Film*  
B.F.A., California Institute of the Arts; M.F.A., University of California, Irvine.
- Beighley, R. Edward, II (2004)** ..... *Associate Professor of Civil, Construction, and Environmental Engineering*  
B.S., M.S., Pennsylvania State University; Ph.D., University of Maryland.
- Bekins, Linn K. (1999)** ..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., University of San Diego; M.A., University of British Columbia; Ph.D., University of Utah.
- Belch, George E. (1980)** ..... *Professor of Marketing*  
B.S., Pennsylvania State University; M.S., University of Colorado; Ph.D., University of California, Los Angeles.
- Benkov, Edith J. (1983)** ..... *Professor of French*  
B.A., M.A., Ph.D., University of California, Los Angeles.
- Bennett, Miriam V. (2007)** ..... *Assistant Professor of Chemistry and Biochemistry*  
B.S., University of Southern California; Ph.D., University of California, Berkeley.
- Berelowitz, Jo-Anne (1993)** ..... *Professor of Art, Design, and Art History*  
B.A., University of Witwatersrand; M.A., Stanford University; Ph.D., University of California, Los Angeles.
- Bergdahl, B. Mikael (1999)** ..... *Associate Professor of Chemistry and Biochemistry*  
B.S., M.S., Ph.D., Chalmers University of Technology, Sweden.
- Bernstein, Sanford I. (1983)** ..... *Professor of Biology*  
B.S., State University of New York at Stony Brook; Ph.D., Wesleyan University.
- Berta, Annalisa (1982)** ..... *Professor of Biology*  
B.A., University of Washington; Ph.D., University of California, Berkeley.
- Beshgetoor, Donna L. (1996)** ..... *Associate Professor of Exercise and Nutritional Sciences*  
B.S., Michigan State University; M.S., University of Nebraska; Ph.D., University of California, Davis.
- Betancourt, Ramon (1984)** ..... *Associate Professor of Electrical and Computer Engineering*  
B.S., University of Guadalajara; M.A., Technological Institute of Monterrey; M.A., Ph.D., University of Wisconsin, Madison.
- Beyene, Asfaw (2003)** ..... *Associate Professor of Mechanical Engineering*  
M.S., Ph.D., Warsaw University of Technology, Poland.
- Bezuk, Nadine S. (1987)** ..... *Professor of Teacher Education*  
B.S., University of Pittsburgh; M.A., Ph.D., University of Minnesota.
- Bhattacharjee, Subrata (1991)** ..... *Professor of Mechanical Engineering*  
B.Tech., Indian Institute of Technology, India; M.S., Ph.D., Washington State University.
- Biggs, Trent (2007)** ..... *Assistant Professor of Geography*  
A.B., Princeton University; M.A., Ph.D., University of California, Santa Barbara.
- Billings, Elsa S. (2005)** ..... *Assistant Professor of Policy Studies in Language and Cross-Cultural Education*  
B.A., University of California, Irvine; M.A., Ph.D., Stanford University.
- Bizzoco, Richard L. (1977)** ..... *Professor of Biology*  
A.B., University of Connecticut; M.S., California State University, Long Beach; Ph.D., Indiana University.
- Blanco, Alda (2008)** ..... *Professor of Portuguese*  
B.A., Ph.D., University of California, San Diego.
- Blenner, Janet L. (1986)** ..... *Professor of Nursing*  
B.S.N., Long Island University; M.A., Ph.D., New York University.
- Bliss, Laurel (2007)** ..... *Associate Librarian*  
B.A., Haverford College; M.A., University of Virginia; M.L.S., Southern Connecticut State University.
- Bliznakova, Denitsa D. (2008)** ..... *Assistant Professor of Theatre, Television, and Film*  
B.F.A., Parsons School of Design, Paris; M.F.A., Brandeis University, Boston.
- Blomgren, Peter (2002)** ..... *Associate Professor of Mathematics*  
M.Sc., The Royal Institute of Technology, Stockholm; Ph.D., University of California, Los Angeles.
- Blum, Edward J. (2007)** ..... *Associate Professor of History*  
B.A., University of Michigan; M.A., Ph.D., University of Kentucky.
- Blumenfeld, Henrike K. (2008)** ..... *Assistant Professor of Speech, Language, and Hearing Sciences*  
B.A., Bryn Mawr College; Ph.D., Northwestern University.
- Bober-Michel, Marcie J. (1994, except F'95-S'96)** ..... *Professor of Educational Technology*  
B.A., University of Oregon; M.A., San Diego State University; Ph.D., Arizona State University.
- Bohonak, Andrew J. (2000)** ..... *Associate Professor of Biology*  
B.S., Allegheny College; Ph.D., Cornell University.
- Boime, Eric (2005)** ..... *Assistant Professor of History, Imperial Valley Campus*  
B.A., University of California, Santa Barbara; M.A., Ph.D., University of California, San Diego.
- Booker, Beverly L. (2007)** ..... *Assistant Professor of Counseling and School Psychology*  
B.S., M.A., Hampton University; Ph.D., University of Louisville.
- Bordelon, Suzanne (2002)** ..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., University of Washington; M.A., California State University, Chico; Ph.D., University of Oregon.
- Borden, Diane L. (1998)** ..... *Professor of Journalism and Media Studies*  
B.A., Colorado State University; M.A., Stanford University; Ph.D., University of Washington.
- Borgstrom, Michael K. (2004)** ..... *Assistant Professor of English*  
B.A., Santa Clara University; M.A., San Jose State University; Ph.D., University of California, Davis.
- Bosco, Fernando (2002)** ..... *Associate Professor of Geography*  
B.A., Wittenberg University; M.A., Ph.D., The Ohio State University.
- Bowers, Janet Sue (1996)** ..... *Associate Professor of Mathematics*  
B.A., Bucknell University; M.A., Villanova University; Ph.D., Vanderbilt University.
- Boyd, Richard B. (1996)** ..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., University of San Diego; Ph.D., University of California, San Diego.
- Braid, Susan (2008)** ..... *Assistant Professor of Nursing*  
B.S.N., Boston College; M.S., Columbia University; Ph.D., Johns Hopkins University.
- Branch, Adam (2008)** ..... *Assistant Professor of Political Science*  
A.B., Harvard University; Ph.D., Columbia University.
- Branch, Andre J. (1999)** ..... *Associate Professor of Teacher Education*  
B.A., King's College; M.Ed., North Carolina State University; Ph.D., University of Washington.
- Brandon, Regina (2006)** ..... *Assistant Professor of Special Education*  
B.S., Virginia Union University; M.A., Ph.D., University of Nevada, Las Vegas.
- Brasser, Susan M. (2006)** ..... *Assistant Professor of Psychology*  
B.A., Coe College; Ph.D., State University of New York at Binghamton.
- Bresciani, Marilee J. (2006)** ..... *Professor of Administration, Rehabilitation and Postsecondary Education*  
B.A., M.A., Hastings College; Ph.D., University of Nebraska, Lincoln.
- Briscoe, Brian (2006)** ..... *Assistant Professor of Naval Science*  
B.A., M.S., University of Utah.
- Brodine, Stephanie Kay (1998)** ..... *Professor of Public Health*  
B.S., College of Wooster; M.D., Georgetown University.
- Bromley, Michael W. (2005)** ..... *Associate Professor of Physics*  
B.S., Northern Territory University, Darwin; B.S., University of Melbourne; Ph.D., Northern Territory University, Darwin.

## Tenured and Tenured-Track Faculty

- Brooks, Joanna M. (2006)**..... Associate Professor of English and Comparative Literature  
B.A., Brigham Young University; M.A., Ph.D., University of California, Los Angeles.
- Brooks, Richard D. (1995)**..... Lecturer in Marketing  
B.S., M.B.A., San Diego State University.
- Brown, Joel H. (2007)**..... Professor of Educational Leadership  
B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Santa Barbara.
- Brown, Stephanie A. (2001)**..... Therapist, Counseling and Psychological Services  
B.S., University of Illinois at Urbana-Champaign; M.A., California State University, Los Angeles; Ph.D., University of Georgia.
- Buono, Michael J. (1982)**..... Professor of Exercise and Nutritional Sciences and Biology  
B.S., East Stroudsburg State College; M.S., University of Nevada; Ph.D., University of Arizona.
- Burkett, Richard A. (1989)**..... Professor of Art, Design, and Art History  
B.A., Lawrence University; M.F.A., Indiana University, Bloomington.
- Burns, Kevin (1998)**..... Professor of Biology  
B.S., Texas A & M University; M.S., Louisiana State University; Ph.D., University of California, Berkeley.
- Butler-Byrd, Nola M. (2004)**..... Assistant Professor of Counseling and School Psychology  
B.A., Wesleyan University; M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Buyuksommez, Fatih (2001)**..... Associate Professor of Civil, Construction, and Environmental Engineering  
B.S., Middle East Technological University; M.E., Ph.D., University of Idaho. Registered Professional Engineer.
- Byxbee, William (2000)**..... Dean, College of Extended Studies  
B.A., University of Connecticut; Ed.D., University of Massachusetts.
- Cadiero-Kaplan, Karen (2001)**..... Associate Professor of Policy Studies in Language and Cross-Cultural Education  
B.A., University of San Diego; M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Calfas, Karen (1992)**..... Director of Health Promotion, Student Health Services  
B.A., Pacific Lutheran University; Ph.D., San Diego State University and University of California, San Diego.
- Campbell, Sandra S. (2005)**..... Assistant Professor of History  
B.A., M.A., University of Washington; Ph.D., University of California, Los Angeles.
- Cappello, Marva (2000)**..... Associate Professor of Teacher Education  
B.F.A., Rochester Institute of Technology; M.S., The City University of New York, Hunter College; Ph.D., University of Southern California.
- Carande, Robert J. (1987)**..... Associate Librarian  
B.A., M.L.S., State University of New York at Buffalo; M.A., State University of New York at Stony Brook.
- Carleton, Mary Ruth (2006)**..... Vice President for University Relations and Development  
B.A., M.A., University of California, Berkeley.
- Carrano, Carl J. (2003)**..... Professor of Chemistry and Biochemistry  
B.S., University of California, Santa Barbara; Ph.D., Texas A&M University.
- Carretero, Ricardo (2002)**..... Professor of Mathematics  
B.Sc., Universidad Nacional de Mexico; Ph.D., University of London.
- Carroll, John L. (1979)**..... Professor of Computer Science  
B.S., Northern Arizona University; M.S., Ph.D., University of Nebraska.
- Carruthers, David V. (1995)**..... Professor of Political Science  
B.A., Southern Oregon University; M.A., Ph.D., University of Oregon.
- Castañeda, Donna (1993)**..... Professor of Psychology, Imperial Valley Campus  
B.A., University of Washington; M.A., Ph.D., University of California, Davis.
- Castillo, José E. (1987)**..... Professor of Mathematics  
B.S., Universidad Central de Venezuela; M.A., University of Texas at Austin; Ph.D., University of New Mexico.
- Castro, Janet (1996)**..... Director, New Student and Parent Programs, Student Affairs  
B.S., University of Kentucky; M.S., Miami University.
- Caves, Roger W. (1983)**..... Professor of Public Affairs  
B.A., M.U.S., Old Dominion University; Ph.D., University of Delaware.
- Cawthorne, Jon E. (2002)**..... Interim Dean, Library and Information Access  
B.A., Evergreen State College; M.L.S., University of Maryland at College Park.
- Cayleff, Susan E. (1987)**..... Professor of Women's Studies  
B.A., University of Massachusetts at Amherst; M.A., Sarah Lawrence College; M.A., Ph.D., Brown University.
- Chaffin, Deborah G. (1984)**..... Associate Professor of Philosophy  
B.A., University of Oklahoma; Ph.D., State University of New York, Stony Brook.
- Chambers, Martin J. (1986)**..... Professor of Music  
B.M., M.M., University of British Columbia.
- Champion, Laurie (1999)**..... Professor of English, Imperial Valley Campus  
B.A., M.A., University of Texas; M.A., Ph.D., University of North Texas.
- Chan, Hung C. (2008)**..... Assistant Professor of Accountancy  
B.S., Oklahoma Christian University; M.B.A., Ph.D., University of Houston, Texas.
- Chance, Patti (2009)**..... Professor of Educational Leadership  
B.A., University of Oklahoma; M.Ed., South Dakota State University; Ph.D., University of Oklahoma.
- Chandler, Andrew O. (2006)**..... Assistant Professor of Military Science  
B.S., Pennsylvania State University.
- Chang, C. Janie (2006)**..... The Vern E. Odmark Chair in Accountancy; Professor of Accountancy  
B.B.A., Tamkang University, Taiwan; M.S., University of Illinois at Chicago; Ph.D., University of California, Irvine.
- Chase, Geoffrey W. (2001)**..... Dean, Undergraduate Studies; Professor of Rhetoric and Writing Studies  
B.A., Ohio Wesleyan University; M.A.T., Miami University, Ohio; Ph.D., University of Wisconsin, Madison.
- Chatfield, Dale A. (1978)**..... Associate Professor of Chemistry and Biochemistry  
A.B., M.S., Oakland University, Michigan; Ph.D., University of North Carolina at Chapel Hill.
- Chen, Jianwei (2007)**..... Assistant Professor of Statistics  
B.S., National Huaqiao University; M.S., Ph.D., Chinese University of Hong Kong.
- Chin, Marilyn (1987)**..... Professor of English and Comparative Literature  
B.A., University of Massachusetts at Amherst; M.F.A., University of Iowa.
- Chizhik, Alexander W. (2000)**..... Associate Professor of Teacher Education  
B.S., B.S., University of California, Irvine; Ph.D., University of California, Los Angeles.
- Chizhik, Estella W. (1997)**..... Associate Professor of Teacher Education  
B.A., University of California, Riverside; M.A., Ph.D., University of California, Los Angeles.
- Choi, Jung Min (2002)**..... Associate Professor of Sociology  
B.A., University of California, Berkeley; M.A., University of Miami; Ph.D., York University, Canada.
- Choi, Soonja (1987)**..... Professor of Linguistics  
B.A., Sacred Heart Women's College; M.A., Seoul National University; Ph.D., State University of New York.
- Chowdhury, M. Zohir (2007)**..... Assistant Professor of Public Health  
B.S., University of Montana; M.S., California Institute of Technology; Ph.D., Georgia Institute of Technology.
- Christakos, George (2006)**..... The Stephen and Mary Birch Foundation Chair in Geographical Studies; Professor of Geography  
Dipl., National Technical University of Athens; M.A., Massachusetts Institute of Technology; Ph.D., Harvard University.
- Chung-Herrera, Beth G. (2000)**..... Professor of Management  
B.A., University of California, Berkeley; M.A., Ph.D., University of Maryland.
- Cipriani, Daniel J. (2005)**..... Associate Professor of Exercise and Nutritional Sciences  
B.S., The Ohio State University; M.Ed., Ph.D., University of Toledo.
- Cirino, Peter J. (2002)**..... Associate Professor of Theatre, Television, and Film  
B.F.A., Southwest Texas State University; M.F.A., University of California, San Diego.
- Clapp, John D. (1997)**..... Professor of Social Work  
B.A., M.S.W., San Diego State University; Ph.D., The Ohio State University.
- Clark, Rulon W. (2007)**..... Assistant Professor of Biology  
B.S., Utah State University; Ph.D., Cornell University.
- Clemente, John-Willem A. (2007)**..... Assistant Professor of Naval Science  
B.S., Rensselaer Polytechnic Institute.
- Clo, Clarissa (2005)**..... Assistant Professor of Italian  
B.A., University of Bologna, Italy; M.A., University of Cincinnati; Ph.D., University of California, San Diego.
- Clor-Proell, Shana (2010)**..... Assistant Professor of Accountancy  
B.S., M.S., Ph.D., Cornell University.
- Cobbs Hoffman, Elizabeth (1998)**..... The Dwight E. Stanford Chair in American Foreign Relations; Professor of History  
B.A., University of California, San Diego; M.A., Ph.D., Stanford University.
- Cole, Thomas E. (1986)**..... Associate Professor of Chemistry and Biochemistry  
B.S., Purdue University; Ph.D., University of Texas at Austin.
- Colquitt, Clare (1986)**..... Associate Professor of English  
B.A., Texas Christian University; M.A., Ph.D., University of Texas at Austin.
- Colston, Stephen A. (1977)**..... Associate Professor of History  
A.B., University of San Diego; M.A., University of Chicago; M.L.S., Ph.D., University of California, Los Angeles.
- Colwill, Elizabeth A. (1989)**..... Associate Professor of Women's Studies  
B.A., The Evergreen State College; M.A., Ph.D., State University of New York at Binghamton.
- Conaty, Donna M. (2007)**..... Professor of Music  
B.M., B.M.E., University of Northern Colorado; M.M., Yale University.

- Conte, Jeffrey M. (1998)** ..... Associate Professor of Psychology  
B.A., University of Virginia; M.S., Ph.D., Pennsylvania State University.
- Conway, Frederick J. (2007)** ..... Assistant Professor of Anthropology  
B.A., Yale University; Ph.D., American University.
- Cook, Brad L. (2005)** ..... Assistant Professor of Classics  
B.A., M.A., Ph.D., University of Washington.
- Cook, Sandra A. (1994)** ..... Executive Director, Enrollment Services  
B.S., M.A., Ph.D., Loyola University of Chicago.
- Cook-Morales, Valerie J. (1984)** ..... Professor of Counseling and School Psychology  
B.S., Valparaiso University; M.A., M.Ed., Ph.D., Columbia University.
- Cooksy, Andrew L. (1999)** ..... Associate Professor of Chemistry and Biochemistry  
B.A., Harvard University; Ph.D., University of California, Berkeley.
- Cordero, Elizabeth D. (2006)** ..... Assistant Professor of Psychology,  
Imperial Valley Campus  
B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Santa Barbara.
- Corlett, J. Angelo (1997)** ..... Professor of Philosophy  
B.A., Azusa Pacific University; M.A., University of California, Santa Barbara; Ph.D., University of Arizona.
- Cornforth, Brian D. (1996)** ..... Lecturer in Management  
B.A., University of Pennsylvania; M.S., Boston University; M.B.A., San Diego State University; Ph.D., University of Texas at Arlington.
- Cornwell, JoAnne (1984)** ..... Associate Professor of French and Africana Studies  
B.A., M.A., Ph.D., University of California, Irvine.
- Cronan, Theresa A. (1985)** ..... Professor of Psychology  
B.A., M.A., San Diego State University; Ph.D., Michigan State University.
- Csomay, Eniko (2002)** ..... Associate Professor of Linguistics  
B.A., Eotvos University, Hungary; M.A., University of Reading, United Kingdom; Ph.D., Northern Arizona University.
- Cue Couttolenc, Patricia (2008)** ..... Assistant Professor of Art, Design, and Art History  
B.F.A., Universidad Iberoamericana, Mexico City; M.F.A., Basel School of Design, Switzerland.
- Cummins-Lewis, June (1996)** ..... Associate Professor of English  
B.A., University of California, Berkeley; M.A., Ph.D., Columbia University.
- Daly, Donna M. (2008)** ..... Assistant Dean for Student Affairs, College of Health and Human Services  
B.A., College of the Holy Cross; M.S.W., San Diego State University.
- Davis, Jeffrey A. (1977)** ..... Professor of Physics  
B.S., Rensselaer Polytechnic Institute; Ph.D., Cornell University.
- Davis, Joel J. (1990)** ..... Professor of Journalism and Media Studies  
B.S., University of Illinois at Urbana-Champaign; Ph.D., University of Chicago.
- Day, Steven M. (1988)** ..... The Rollin and Caroline Eckis Chair in Seismology;  
Professor of Geological Sciences  
B.S., University of Southern California; Ph.D., University of California, San Diego.
- Dean, Michelle A. (2002)** ..... Associate Professor of Management  
B.S., M.B.A., Ph.D., Louisiana State University.
- DeBoskey, David (2006)** ..... Assistant Professor of Accountancy  
B.S., Widener University; M.B.A., Ph.D., Rutgers, The State University of New Jersey.
- Deffebach, Nancy (2005)** ..... Assistant Professor of Art, Design, and Art History  
B.F.A., Art Center College of Design; M.A., Ph.D., University of Texas at Austin.
- Degeneffe, Charles E. (2005)** ..... Associate Professor of Administration,  
Rehabilitation and Postsecondary Education  
B.S., University of Wisconsin, Milwaukee; M.S., Ph.D., University of Wisconsin, Madison.
- Del Castillo, Adelaida R. (1990)** ..... Associate Professor of Chicana and Chicano Studies  
A.B., M.A., Ph.D., University of California, Los Angeles.
- Delgado, Kevin M. (2002)** ..... Associate Professor of Music  
B.M., San Diego State University; M.A., Ph.D., University of California, Los Angeles.
- Demasi, Luciano (2008)** ..... Assistant Professor of Aerospace Engineering and Engineering Mechanics  
B.S., M.S., Politecnico di Torino, Italy; Ph.D., University of Washington.
- De Noble, Alex F. (1983)** ..... Professor of Management  
B.S., Monmouth College; M.A., Ph.D., Virginia Polytechnic Institute.
- De Peyster, Ann (1983)** ..... Professor of Public Health  
B.A., Pomona College; M.S., Ph.D., University of California, Berkeley.
- Deutschman, Douglas H. (1997)** ..... Professor of Biology  
B.A., University of Pennsylvania; M.S., Bowling Green State University; Ph.D., Cornell University.
- De Vos, Paula S. (2001)** ..... Associate Professor of History  
B.A., Kalamazoo College; M.A., University of North Carolina; Ph.D., University of California, Berkeley.
- Devos, Thierry (2002)** ..... Associate Professor of Psychology  
B.A., M.S., Ph.D., University of Lausanne.
- Dinsdale, Elizabeth (2009)** ..... Assistant Professor of Biology  
B.S., M.S., Ph.D., James Cook University, Australia.
- Dionisopoulos, George N. (1985)** ..... Professor of Communication  
B.A., M.A., San Diego State University; Ph.D., Purdue University.
- Dixon, Jesse T. (1979)** ..... Professor of Hospitality and Tourism Management  
B.S., M.Ed., Ph.D., University of Illinois.
- Do, Andrew Q. (1990)** ..... Professor of Finance  
B.S., Emporia State University; B.S., Kansas State University; M.S., M.B.A., Ph.D., Louisiana State University.
- Dodge, Bernard J. (1980)** ..... Professor of Educational Technology  
B.S., Worcester Polytechnic Institute; M.S., Ph.D., Syracuse University.
- Donadey, Anne (2001)** ..... Professor of French and Women's Studies  
B.A., M.A., Université de Nice, France; Ph.D., Northwestern University.
- Doran, Kelly (2007)** ..... Assistant Professor of Biology  
B.S., New Mexico State University; Ph.D., University of California, San Diego.
- Doran, Martha S. (1996)** ..... Associate Professor of Accountancy  
B.A., Stephens College; M.S., Ph.D., Arizona State University.
- Doucett, Martin R. (2001)** ..... Therapist, Counseling and Psychological Services  
B.A., San Diego State University; M.A., Ph.D., California School of Professional Psychology.
- Dowell, Robert (2006)** ..... Assistant Professor of Civil, Construction, and Environmental Engineering  
B.S., San Diego State University; M.S., Ph.D., University of California, San Diego.
- D'Ovidio, Kathleen L. (2008)** ..... Assistant Professor of Exercise and Nutritional Sciences  
B.A., B.S., Ph.D., University of Maryland.
- Dozier, David M. (1980)** ..... Professor of Journalism and Media Studies  
A.B., University of California, Berkeley; M.A., California State University, Fresno; M.A., Ph.D., Stanford University.
- Dreisbach Hawe, Laura (2000)** ..... Associate Professor of Speech, Language, and Hearing Sciences  
B.S., M.S., Pennsylvania State University; Ph.D., Northwestern University.
- Duesbery, Luke (2007)** ..... Assistant Professor of Special Education  
B.A., Queens University, Ontario; M.A., Old Dominion University; Ph.D., University of Oregon.
- Duncan, Kristin A. (2006)** ..... Assistant Professor of Statistics  
B.S., University of Dayton; M.S., Ph.D., The Ohio State University.
- Dunn, Roger M. (1983)** ..... Associate Dean for Academic Affairs,  
Imperial Valley Campus; Professor of Psychology, Imperial Valley Campus  
B.A., San Diego State University; M.A., Ph.D., University of California, San Diego.
- Dunster, T. Marc (1988)** ..... Professor of Mathematics  
B.S., University of Reading; Ph.D., University of Bristol.
- Durbin, Gregory C. (1989)** ..... Professor of Theatre, Television, and Film  
B.A., M.F.A., University of California, San Diego.
- Dutton, Brenton P. (1981)** ..... Professor of Music  
B.A., M.M., Oberlin Conservatory of Music.
- Dworak, Ellie (2000)** ..... Associate Librarian  
B.A., University of Oregon; M.L.I.S., University of Michigan.
- Eadie, William F. (2001)** ..... Professor of Journalism and Media Studies  
A.B., M.A., University of California, Los Angeles; Ph.D., Purdue University.
- Easton, Annette C. (1987)** ..... Associate Professor of Information and Decision Systems  
B.S., California State University, Fresno; Ph.D., University of Arizona.
- Easton, George K. (1987)** ..... Associate Professor of Information and Decision Systems  
A.B., San Diego State University; M.I.M., American Graduate School of International Management; Ph.D., University of Arizona.
- Eckberg, Carl F. (1969)** ..... Associate Professor of Computer Science  
B.S., Cornell University; M.S., Ph.D., Purdue University.
- Edgerton-Tarpley, Kathryn J. (2002)** ..... Associate Professor of History  
B.A., Wesleyan University; M.A., Ph.D., Indiana University.
- Edson, Laurie D. (1988)** ..... Professor of English and Comparative Literature  
B.A., University of Wisconsin; M.A., University of California, Irvine; Ph.D., Stanford University.
- Edwards, Matthew S. (2002)** ..... Associate Professor of Biology  
B.A., University of California, Santa Barbara; M.S., San Francisco State University; Ph.D., University of California, Santa Cruz.
- Edwards, Robert A. (2007)** ..... Assistant Professor of Computer Science  
B.Sc., De Montfort University; Ph.D., University of Sussex.
- Eger, John M. (1990)** ..... The Lionel Van Deerlin Professor of Communication and Public Policy  
B.A., Virginia Military Institute; J.D., John Marshall Law School.
- Ehrhart, Karen M. (2001)** ..... Associate Professor of Management  
B.A., Westmont College; M.A., Ph.D., University of Maryland.



## Tenured and Tenured-Track Faculty

- Ehrhart, Mark G. (2001)** ..... Associate Professor of Psychology  
B.S., Georgia Institute of Technology; M.A., Ph.D., University of Maryland.
- Ehrlich, Sanford B. (1986)** ..... Associate Professor of Management  
B.A., State University College at Fredonia; M.A., George Washington University; M.B.A., Ph.D., State University of New York at Buffalo.
- Elder, John P. (1984)** ..... Professor of Public Health  
B.A., University of Nebraska; M.A., Ph.D., West Virginia University; M.P.H., Boston University.
- Elkind, Sarah S. (2000)** ..... Associate Professor of History  
B.A., Wesleyan University; M.A., Ph.D., University of Michigan.
- Ely, David P. (1986)** ..... Director of Graduate Programs, College of Business Administration; Professor of Finance  
B.S., West Virginia University; M.S., Ph.D., The Ohio State University.
- Emmorey, Karen D. (2005)** ..... Professor of Speech, Language, and Hearing Sciences  
B.A., University of California, Santa Barbara; M.A., Ph.D., University of California, Los Angeles.
- Engin, Arif Ege (2008)** ..... Assistant Professor of Electrical and Computer Engineering  
B.S., Middle East Technical University, Turkey; M.S., University of Paderborn, Germany; Ph.D., University of Hannover, Germany.
- Engstrom, David W. (2000)** ..... Associate Professor of Social Work  
B.A., Wesleyan University; M.A., Ph.D., University of Chicago.
- Esbenshade, Jill (2001)** ..... Associate Professor of Sociology  
B.A., Brown University; M.A., Ph.D., University of California, Berkeley.
- Espinosa, Ruben W. (1978)** ..... Professor of Policy Studies in Language and Cross-Cultural Education  
A.B., University of California, Riverside; M.A., Ph.D., Stanford University.
- Espinosa, Salvatore (2008)** ..... Assistant Professor of Public Affairs  
B.A. Universidad Panamericana, Mexico; M.A., Ph.D., Indiana University.
- Etzel, Paul B. (1986)** ..... Professor of Astronomy; Director of the Mt. Laguna Observatory  
B.S., Washburn University of Topeka; M.S., San Diego State University; Ph.D., University of California, Los Angeles.
- Evans, Julia L. (2006)** ..... Associate Professor of Speech, Language, and Hearing Sciences  
B.A., University of Colorado; M.S., Columbia University; Ph.D., University of Michigan.
- Evans, Ronald W. (1989)** ..... Professor of Teacher Education  
B.A., M.S., Oklahoma State University; Ed.D., Stanford University.
- Ewald, Liana (2006)** ..... Assistant Professor of Spanish  
B.A., University of Massachusetts; M.S., Middlebury College; Ph.D., Boston University.
- Fairlie, Lyndelle D. (1973)** ..... Associate Professor of Political Science  
B.A., Drew University; M.A., Johns Hopkins University; Ph.D., Indiana University.
- Fan, Juanjuan (2002)** ..... Professor of Statistics  
B.S., Fudan University, China; M.S., Ph.D., University of Washington.
- Farley, Kathleen A. (2006)** ..... Assistant Professor of Geography  
B.A., University of California, Los Angeles; M.A., American University; Ph.D., University of Colorado.
- Farnan, Nancy (1989)** ..... Professor of Teacher Education  
B.S., Wright State University; M.A., San Diego State University; Ph.D., San Diego State University and Claremont Graduate University.
- Feinberg, Lynn Jenkins (1980)** ..... Counselor, Disabled Student Services  
A.B., M.S., San Diego State University.
- Ferguson, John B. (1984)** ..... Lecturer in Physics  
B.S., M.S., San Diego State University.
- Ferrara, John W. (2006)** ..... Assistant Professor of Naval Science  
B.S., Northwestern University.
- Ferraro, Joanne M. (1984)** ..... Professor of History  
B.A., M.A., Ph.D., University of California, Los Angeles.
- Feuer, Ralph (2007)** ..... Assistant Professor of Biology  
B.S., University of California, Los Angeles; Ph.D., University of Nevada, Reno.
- Field, Margaret (1999)** ..... Associate Professor of American Indian Studies  
B.Ed., University of Alaska, Fairbanks; M.A., Ph.D., University of California, Santa Barbara.
- Fields, Willa (2006)** ..... Professor of Nursing  
B.S.N., Temple University; M.S.N., San Diego State University; D.N.Sc., University of San Diego.
- Fikes, Robert, Jr. (1977)** ..... Librarian  
B.S., Tuskegee Institute; M.A., M.A.L.S., University of Minnesota.
- Finch, Brian K. (2005)** ..... Professor of Sociology  
B.A., University of California, Berkeley; M.A., San Diego State University; Ph.D., University of Texas at Austin.
- Finlayson, Tracy L. (2007)** ..... Assistant Professor of Public Health  
B.S., University of California, Davis; Ph.D., University of Michigan.
- Finnegan, Daniel J. (1990)** ..... Associate Professor of Social Work  
B.S., M.S.W., Ph.D., University of Illinois at Urbana-Champaign.
- Fisher, Douglas (1998)** ..... Professor of Teacher Education  
B.A., San Diego State University; E.M.B.A., Claremont Graduate University; Ph.D., San Diego State University and Claremont Graduate University.
- Fitzsimmons, Lorraine T. (1985)** ..... Associate Professor of Nursing  
B.A., Marymount Manhattan College; M.A., Ball State University; D.N.S., Indiana University – Purdue University at Indianapolis.
- Flanigan, Shawn T. (2007)** ..... Assistant Professor of Public Affairs  
B.A., M.P.A., University of New Mexico; Ph.D., State University of New York at Albany.
- Fleck, Michael A. (2005)** ..... Professor of Aerospace Studies  
B.S., Florida International University; M.A., Webster University.
- Fleming, Damon M. (2007)** ..... Assistant Professor of Accountancy  
B.S., M.S., San Diego State University; Ph.D., Virginia Polytechnic Institute and State University.
- Foad, Hisham S. (2006)** ..... Assistant Professor of Economics  
B.A., Kenyon College; M.A., Ph.D., Emory University.
- Follingstad, Karen J. (1984)** ..... Professor of Music  
B.M., Curtis Institute of Music; M.M., Indiana University; D.M.A., University of Texas at Austin.
- Francescotti, Robert M. (1996)** ..... Professor of Philosophy  
B.A., M.A., Ph.D., Syracuse University.
- Francis, John D. (2005)** ..... Assistant Professor of Management  
B.B.A., University of Montevallo; M.B.A., Samford University; Ph.D., The University of Memphis.
- Francisco, Patricia (1992)** ..... Director, Housing Administration  
B.A., University of California, Los Angeles; M.P.A., San Diego State University.
- Frantz, Roger S. (1978)** ..... Professor of Economics  
A.B., M.A., Pace University; Ph.D., Washington State University.
- Freeman, Mark W. (2000)** ..... Professor of Theatre, Television, and Film  
B.F.A., M.F.A., San Francisco Art Institute.
- Frey, Nancy E. (2002)** ..... Professor of Teacher Education  
B.A.E., Florida Atlantic University; M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Frey, Terrence G. (1986)** ..... Professor of Biology  
B.S., Ohio State University; Ph.D., University of California, Los Angeles.
- Friedrichs, Charles J. (1983)** ..... Associate Professor of Music  
B.A., California State University, Fullerton; M.A., San Diego State University; Ed.D., University of San Diego.
- Friend, Margaret (1997)** ..... Associate Professor of Psychology  
B.A., University of South Florida; M.S., Ph.D., University of Florida.
- Frost, Christopher J. (2006)** ..... Associate Dean, Undergraduate Studies; Professor of Religious Studies  
B.A., Baylor University; M.A., Ph.D., Boston University.
- Frost, Eric G. (1980)** ..... Associate Professor of Geological Sciences  
A.B., University of Washington; M.S., University of Arizona; Ph.D., University of Southern California.
- Fullerton, Theo F. (1986)** ..... Career Counselor  
B.A., Principia College; M.Ed., D.Ed., Pennsylvania State University.
- Funicello, Ralph (1991)** ..... The Don W. Powell Chair in Scene Design  
B.F.A., New York University.
- Gallego, Margaret Anne (1999)** ..... Professor of Teacher Education  
B.A., M.Ed., Ph.D., University of Arizona.
- Gallo, Linda C. (2001)** ..... Associate Professor of Psychology  
B.A., Southern Illinois University; M.S., Ph.D., University of Utah.
- Ganster, Paul (1984)** ..... Director, Institute for Regional Studies of the Californias  
B.A., Yale University; M.A., University of California, Riverside; Ph.D., University of California, Los Angeles.
- Garcia, Daniel L. (2007)** ..... Associate Professor of Naval Science  
B.S., United States Naval Academy; M.S., Chapman University.
- Garoma Ararasso, Temesgen (2007)** ..... Assistant Professor of Civil, Construction, and Environmental Engineering  
B.S., Addis Ababa University; M.S., University of Hannover; Ph.D., University of California, San Diego. Registered Professional Engineer.
- Garrett, Mario D. (2004)** ..... Professor of Gerontology  
B.S., University of East London, United Kingdom; Ph.D., University of Bath, United Kingdom.
- Gates, Michael (2008)** ..... Assistant Professor of Nursing  
B.S., Brown University; Ph.D., University of North Carolina.
- Gattas, Joyce M. (1982)** ..... Dean, College of Professional Studies and Fine Arts; Professor of Hospitality and Tourism Management  
B.A., M.S., University of New Mexico; Ph.D., University of California, Berkeley.
- Gawron, Jean Mark (2000)** ..... Professor of Linguistics  
B.A., New York University; M.A., Ph.D., University of California, Berkeley.
- Geisert, Bryan E. (2007)** ..... Assistant Professor of Naval Science  
B.A., University of San Diego; M.S., Old Dominion University.

- Geist-Martin, Patricia J. (1990)** ..... *Professor of Communication*  
B.A., University of Iowa; M.A., University of Northern Iowa; Ph.D., Purdue University.
- Gerber, James B. (1985)** ..... *Professor of Economics*  
B.A., California State University, Chico; Ph.D., University of California, Davis.
- German, Randall M. (2008)** ..... *Associate Dean, College of Engineering;  
Professor of Mechanical Engineering*  
B.S., San Jose State University; M.S., Ohio State University; Ph.D., University of California, Davis.
- Gersberg, Richard M. (1986)** ..... *Professor of Public Health*  
B.S., The City College of the City University of New York; M.S., University of Houston; Ph.D., University of California, Davis.
- Gervais, Ronald J. (1969)** ..... *Professor of English*  
A.B., M.A., Michigan State University; Ph.D., University of Oregon.
- Geveci, Tunc (1985)** ..... *Professor of Mathematics*  
B.S., Middle East Technical University; M.A., Ph.D., University of California, San Diego.
- Ghosh, Huma Ahmed (1994)** ..... *Associate Professor of Women's Studies*  
B.A., University of Delhi; M.A., Jawaharlal Nehru University; Ph.D., Syracuse University.
- Gibson, Sharan A. (2002)** ..... *Associate Professor of Teacher Education*  
B.A., University of California, Santa Barbara; M.S., National University; Ph.D., The Ohio State University.
- Gilbert, Paul E. (2005)** ..... *Associate Professor of Psychology*  
B.S., M.S., Ph.D., University of Utah.
- Gill, Steven L. (2008)** ..... *Assistant Professor of Accountancy*  
B.S., University of Florida; M.S., Northeastern University, Boston;  
Ph.D., University of Massachusetts Amherst.
- Girty, Gary H. (1984)** ..... *Professor of Geological Sciences*  
B.A., M.S., California State University, Fresno; M.Phil., Ph.D., Columbia University.
- Glazer, Jeffrey W. (1994)** ..... *Assistant Dean for Student Relations,  
College of Business Administration; Lecturer in Management*  
B.A., University of Iowa; M.B.A., San Diego State University; Ed.D., University of San Diego.
- Glembotski, Christopher C. (1986)** ..... *Professor of Biology*  
B.S., California Polytechnic State University; Ph.D., University of California, Los Angeles.
- Godoy, Juan M. (1999)** ..... *Associate Professor of Spanish*  
M.A., University of California, Riverside; Ph.D., University of California, Berkeley.
- Goldberg, Fred M. (1986)** ..... *Professor of Physics*  
B.S., M.S., Ph.D., University of Michigan.
- González-Rivera, Victoria (2006)** ..... *Assistant Professor Chicana and  
Chicano Studies*  
B.A., Oberlin College; M.A., University of New Mexico; Ph.D., Indiana University.
- Gottlieb, Roberta A. (2007)** ..... *Professor of Biology*  
B.A., M.D., Johns Hopkins University.
- Graubart, Jonathan (2002)** ..... *Associate Professor of Political Science*  
B.A., University of Pennsylvania; M.A., Ph.D., University of Wisconsin, Madison.
- Graf, Paul J. (2006)** ..... *Assistant Professor of Finance*  
B.S., Indiana University; J.D., Northwestern University.
- Graves, Anne W. (1990)** ..... *Professor of Special Education*  
B.A., Randolph-Macon College; M.Ed., University of Virginia; Ph.D., University of Wisconsin, Madison.
- Green, Tonika D. (2001)** ..... *Associate Professor of Counseling  
and School Psychology*  
B.S., M.S., Old Dominion University; Ph.D., Indiana State University.
- Greene, Kyra R. (2007)** ..... *Assistant Professor of Sociology*  
B.A., Simon's Rock College of Bard; M.A., Ph.D., Stanford University.
- Groeneveld, Jeanette D. (2006)** ..... *Assistant Professor of Naval Science*  
B.S., Auburn University.
- Grossbard, Shoshana A. (1981)** ..... *Professor of Economics*  
B.A., Hebrew University; Ph.D., University of Chicago.
- Grotjahn, Douglas B. (1997)** ..... *Professor of Chemistry and Biochemistry*  
B.A., Reed College; Ph.D., University of California, Berkeley.
- Grouette, Jeremy R. (2007)** ..... *Assistant Professor of Naval Science*  
B.S., Texas State University.
- Grudnitski, Gary M. (1988)** ..... *Professor of Accountancy*  
B.Comm., M.B.A., University of Saskatchewan; Ph.D., University of Massachusetts.
- Guang, Lei (1999)** ..... *Professor of Political Science*  
B.A., Luoyang University, China; M.A., Johns Hopkins University; Ph.D., University of Minnesota.
- Gubellini, Stefano (2006)** ..... *Assistant Professor of Finance*  
Laurea, University of Bologna, Italy; M.S., Ph.D., Purdue University.
- Gupta, Dipak K. (1977)** ..... *Professor of Political Science*  
A.B., University of Calcutta; M.A., Visva-Bharati University; M.A., Ph.D., University of Pittsburgh.
- Gupta, Madhu S. (2000)** ..... *Professor of Electrical and Computer Engineering;  
The Radio Frequency Communications Systems Industry Professor*  
B.S., Lucknow University; M.S., Allahabad University; M.S., Florida State University; Ph.D., University of Michigan.
- Gutierrez-Ciellen, Vera F. (1990)** ..... *Professor of Speech, Language, and  
Hearing Sciences*  
M.A., Universidad del Museo Social Argentino; Ph.D., Temple University.
- Haddad, Kamal M. (1981)** ..... *Professor of Finance*  
B.B.A., American University of Beirut; M.S., Ph.D., University of Nebraska.
- Hadley, Sue A. (1985)** ..... *Associate Professor of Nursing*  
B.S., University of Texas at San Antonio; M.S., Ball State University; D.N.S., Indiana University – Purdue University at Indianapolis.
- Hall, Laura J. (1998)** ..... *Professor of Special Education*  
B.A., Rutgers, The State University of New Jersey; M.A., Lesley College; Ph.D., University of Massachusetts.
- Hall, Marilyn E. (1999)** ..... *Associate Librarian*  
B.A., Queen's University; M.L.I.S., University of Western Ontario.
- Hampton, Nan Zhang (2005)** ..... *Professor of Administration,  
Rehabilitation and Postsecondary Education*  
B.S., The Fourth Medical University; M.S., West Virginia University; Ph.D., University of Kentucky.
- Hanan, Barry B. (1989)** ..... *Resident Isotope Geochemist in Geological Sciences*  
B.S., University of Kansas; M.S., Ph.D., Virginia Polytechnic Institute and State University.
- Hanger, Maria A. (1999)** ..... *Therapist, Counseling and Psychological Services*  
B.A., San Diego State University; Ph.D., University of California, San Diego and San Diego State University.
- Hansen, Wilburn N. (2007)** ..... *Assistant Professor of Religious Studies*  
B.A., Columbia University; M.A., University of Colorado; Ph.D., Stanford University.
- Harley, Bruce L. (1990)** ..... *Librarian*  
B.A., Pennsylvania State University; M.A., State University of New York at Binghamton; M.L.S., San Jose State University.
- Harris, Frank, III (2007)** ..... *Assistant Professor of Administration,  
Rehabilitation and Postsecondary Education*  
B.A., Loyola Marymount University; M.A., California State University, Northridge; Ed.D., University of Southern California.
- harris, fredric j. (1968)** ..... *Professor of Electrical and Computer Engineering*  
B.E.E., Polytechnic Institute of Brooklyn; M.S.E.E., San Diego State University; Ph.D., Aalborg University, Denmark. Registered Professional Engineer.
- Harris, Greg L. (1989)** ..... *Professor of Biology*  
B.A., Case Western Reserve University; Ph.D., University of North Carolina.
- Harris, Janet C. (2006)** ..... *Professor of Exercise and Nutritional Sciences*  
B.S., M.S., University of California, Los Angeles; Ph.D., University of California, Berkeley.
- Harris, Olita D. (1979)** ..... *Associate Dean, College of Health and Human Services;  
Associate Professor of Social Work*  
B.S., Rocky Mountain College; M.S.W., Ph.D., University of Denver.
- Harrison, Christopher R. (2007)** ..... *Assistant Professor of Chemistry  
and Biochemistry*  
B.S., Concordia University, Canada; Ph.D., University of Alberta, Canada.
- Hatch, Patricia A. (2006)** ..... *Associate Professor of Counseling and  
School Psychology*  
B.A., California State Polytechnic University, Pomona; M.A., California State University, San Bernardino; Ph.D., University of California, Riverside.
- Hatton, Diane C. (2007)** ..... *Professor of Nursing*  
B.S.N., University of San Francisco; M.S., University of Nevada, Reno; D.N.Sc., University of California, San Francisco.
- Hatrup, Keith (1995)** ..... *Professor of Psychology*  
B.A., University of California, Santa Barbara; M.A., Ph.D., Michigan State University.
- Hayakawa, Joanne (1982)** ..... *Professor of Art, Design, and Art History*  
B.A., University of California, Santa Barbara; M.F.A., University of Washington.
- Hayhurst, David T. (2002)** ..... *Dean, College of Engineering;  
Professor of Civil, Construction, and Environmental Engineering*  
B.S., Worcester Polytechnic Institute; M.S., Massachusetts Institute of Technology; Ph.D., Worcester Polytechnic Institute.
- Hebert, Matthew G. (2007)** ..... *Assistant Professor of Art, Design, and Art History*  
B.A., University of California, Berkeley; M.F.A., California College of Arts and Crafts.
- Hedin, Marshal C. (1999)** ..... *Associate Professor of Biology*  
B.A., Humboldt State University; M.S., Texas A & M University; Ph.D., Washington University.
- Hee, Kevin W. (2008)** ..... *Assistant Professor of Accountancy*  
B.S., M.S., University of Virginia; Ph.D., University of Colorado at Boulder.
- Helzer, Richard A. (1986)** ..... *Professor of Music*  
B.A., California State University, Fresno; M.F.A., California Institute of the Arts.

## Tenured and Tenured-Track Faculty

- Hempel, Graham (1979)** ..... Associate Professor of Dance  
A.B., M.A., San Francisco State University.
- Henry, Stuart D. (2006)** ..... Professor of Public Affairs  
B.A., Ph.D., University of Kent, England.
- Hentschel, Brian T. (2000)** ..... Associate Professor of Biology  
B.S., University of South Carolina; M.S., Ph.D., University of Washington.
- Hergert, Michael L. (1985)** ..... Professor of Management  
B.A., Kalamazoo College; M.A., Ph.D., Harvard University.
- Herman, Peter C. (1996)** ..... Professor of English and Comparative Literature  
B.A., McGill University; M.A., Ph.D., Columbia University.
- Hernandez, Manuel (2007)** ..... Assistant Professor of Military Science  
B.S., United States Military Academy; M.S., Auburn University.
- Herrera, Carlos R. (2000)** ..... Associate Professor of History, Imperial Valley Campus  
B.A., M.A., University of San Diego; Ph.D., University of New Mexico.
- Herzog, Lawrence A. (1989)** ..... Professor of Public Affairs  
B.A., State University of New York at Albany; M.A., Ph.D., Syracuse University.
- Hicks, Darlene Emily (1984)** ..... Professor of English and Comparative Literature and Chicana and Chicano Studies  
B.A., Ph.D., University of California, San Diego.
- Higurashi, Yoshiko (1983)** ..... Professor of Japanese  
B.A., Waseda University, Tokyo; M.A., University of Oregon; Ph.D., University of Texas at Austin.
- Hill, Linda L. (1989)** ..... Co-Director, UCSD-SDSU Preventive Medicine Residency Program  
M.P.H., San Diego State University; M.D., University of Ottawa.
- Hilmer, Christiana E. (2005)** ..... Associate Professor of Economics  
B.A., University of California, Santa Barbara; M.S., Ph.D., North Carolina State University.
- Hilmer, Michael J. (2005)** ..... Associate Professor of Economics  
B.A., California State University, Northridge; M.A., Ph.D., University of California, Santa Barbara.
- Hinkle, Lawrence C. (2009)** ..... Interim Assistant Dean for Student Affairs, College of Engineering  
B.S., M.S., American University.
- Hoffman, Robert P. (1995)** ..... Associate Professor of Educational Technology  
B.A., University of Pittsburgh; M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Hofherr, Louise K. (1987)** ..... Associate Professor of Public Health  
B.A., California State University, Long Beach; M.P.H., Ph.D., University of Minnesota.
- Hofstetter, C. Richard (1983)** ..... Professor of Political Science  
B.A., University of Oregon; M.A., Ph.D., Indiana University.
- Hoh, Eunha (2009)** ..... Assistant Professor of Public Health  
B.A., M.S., Korea Advanced Institute of Science and Technology; Ph.D., Indiana University.
- Hohman, Melinda M. (1995)** ..... Professor of Social Work  
B.A.S.W., M.S.W., University of Pittsburgh; Ph.D., Arizona State University.
- Hokoda, Audrey (1999)** ..... Associate Professor of Child and Family Development  
B.S., University of California, Los Angeles; M.A., Ph.D., University of Illinois at Urbana-Champaign.
- Holler, Linda D. (1981)** ..... Associate Dean, College of Arts and Letters; Professor of Religious Studies  
B.A., California State University, Chico; M.A., Ph.D., Vanderbilt University.
- Honea, Heather L. (2000)** ..... Associate Professor of Marketing  
B.S., University of California, San Diego; M.S., Ph.D., University of California, Berkeley.
- Hong, Mee Young (2007)** ..... Assistant Professor of Exercise and Nutritional Sciences  
B.S., M.S., Ewha Woman's University, Korea; Ph.D., Texas A&M University.
- Hope, Allen S. (1986)** ..... Professor of Geography  
B.S., M.Sc.Eng., University of Natal, South Africa; Ph.D., University of Maryland.
- Hopkins, Donald J. (2005)** ..... Associate Professor of Theatre, Television, and Film  
B.A., Pennsylvania State University; M.F.A., University of California, San Diego; Ph.D., University of California, Irvine and University of California, San Diego.
- Houle, Meredith E. (2008)** ..... Assistant Professor of Teacher Education  
B.S., Allegheny College; M.Ed., Ph.D., Boston College.
- Hovda, Ric A. (2007)** ..... Dean, College of Education; Professor of Teacher Education  
B.S., M.S., University of North Dakota; Ph.D., The Ohio State University.
- Hovel, Kevin A. (2001)** ..... Associate Professor of Biology  
B.S., Rutgers, The State University of New Jersey–New Brunswick; M.S., State University of New York at Stony Brook; Ph.D., College of William and Mary.
- Hovell, Melbourne F. (1982)** ..... Professor of Public Health  
B.A., San Francisco State University; M.A., Western Michigan University; M.P.H., University of California, Berkeley; Ph.D., University of Kansas.
- Hua, Anh Nhuoc (2008)** ..... Assistant Professor of Women's Studies  
B.A., M.A., Ph.D., York University.
- Hui, Stefen (1988)** ..... Professor of Mathematics  
B.A., University of California, Berkeley; M.S., Ph.D., University of Washington.
- Hunter, Lauren P. (2004)** ..... Associate Professor of Nursing  
B.S.N., University of Colorado at Denver; M.S., University of Arizona; Ph.D., University of California, San Diego.
- Huntington, Barbara W. (1996)** ..... Lecturer in Sciences, General  
B.S., San Diego State University; M.B.A., University of California, Los Angeles.
- Huxford, Tom (2005)** ..... Assistant Professor of Chemistry and Biochemistry  
B.S., Brigham Young University; Ph.D., University of California, San Diego.
- Ibarra, María de la Luz (1997)** ..... Associate Professor of Chicana and Chicano Studies  
B.A., M.A., Ph.D., University of California, Santa Barbara.
- Iglesias Prieto, Norma V. (2000)** ..... Associate Professor of Chicana and Chicano Studies  
M.A., Universidad Iberoamericana, Mexico City; Ph.D., Universidad Complutense de Madrid, Spain.
- Imazeki, Jennifer (2000)** ..... Associate Professor of Economics  
B.A., Pomona College; M.S., Ph.D., University of Wisconsin.
- Impelluso, Thomas J. (1998)** ..... Professor of Mechanical Engineering  
B.S.C.E., M.S., Columbia University; Ph.D., University of California, San Diego.
- Ingraham, Colette L. (1985)** ..... Professor of Counseling and School Psychology  
B.A. (American Studies), B.A. (Psychology), University of California, Davis; M.A., Ph.D., University of California, Berkeley.
- Interlando, J. Carmelo (2005)** ..... Assistant Professor of Mathematics  
B.S., Ph.D., University of Campinas; Ph.D., University of Notre Dame.
- Izsák, Andrew (2008)** ..... Associate Professor of Mathematics  
B.A., University of California, Berkeley; M.Ed., Harvard Graduate School of Education; Ph.D., University of California, Berkeley.
- Jackson, Pamela (2004)** ..... Associate Librarian  
B.A., M.A., Sonoma State University; M.L.I.S., University of Wisconsin, Madison.
- Jacobs, Gustaaf (2006)** ..... Assistant Professor of Aerospace Engineering and Engineering Mechanics  
M.S., Delft University, Netherlands; Ph.D., University of Illinois at Chicago.
- Jacobs, Victoria R. (1998)** ..... Associate Professor of Teacher Education  
B.A., Dartmouth College; M.S., Ph.D., University of Wisconsin.
- Jaffe, Harold (1982)** ..... Professor of English  
B.A., Grinnell College; M.A., Ph.D., New York University.
- James-Ward, Cheryl M. (2007)** ..... Assistant Professor of Educational Leadership  
B.A., M.A., University of California, Santa Barbara; Ed.D., University of Southern California.
- Jankowski, Piotr (2003)** ..... Professor of Geography  
M.S., Poznan University of Economics, Poland; Ph.D., University of Washington.
- Jeffcoat, Kendra A. (2008)** ..... Assistant Professor of Administration, Rehabilitation and Postsecondary Education  
B.A., M.A., University of California, Los Angeles; Ph.D., Alliant International University.
- Jeffery, Keven (2007)** ..... Senior Assistant Librarian  
B.A., M.L.I.S., University of Western Ontario.
- Jennex, Murray (2001)** ..... Associate Professor of Information and Decision Systems  
B.B.A., William Jewell College; M.B.A., National University; Ph.D., Claremont Graduate University.
- Jergovic, Daniel (2008)** ..... Senior Assistant Librarian  
B.A., John Carroll University; M.L.S., University at Albany.
- Ji, Ming (2001)** ..... Associate Professor of Public Health  
B.S., East China Normal University; M.S., Kansas State University; Ph.D., University of California, Davis.
- Joh, Gun-Ho (1988)** ..... Associate Professor of Accountancy  
B.A., Seoul National University; M.A., University of Iowa; Ph.D., University of Pennsylvania.
- Johnson, Calvin W. (2002)** ..... Professor of Physics  
B.S., University of California, Davis; Ph.D., University of Washington.
- Johnson, Hiroko (2000)** ..... Associate Professor of Art, Design, and Art History  
B.A., M.A., California State University, Northridge; Ph.D., University of Southern California.
- Johnson, John R. (2000)** ..... Associate Professor of Special Education  
B.S., M.Ed., University of Cincinnati; Ph.D., University of Illinois.
- Johnson, Joseph F. (2005)** ..... Professor of Educational Leadership  
B.S., University of Wisconsin, Oshkosh; M.A., San Diego State University; Ph.D., University of Texas at Austin.
- Johnson, Leslie S. (1990)** ..... Assistant Dean for Student Affairs, College of Arts and Letters  
B.A., University of South Carolina; M.S., San Diego State University.

- Johnston, Henry E. (2004)**..... *Associate Professor of Sociology*  
B.S., Fairleigh Dickinson University; M.A., San Diego State University; Ph.D., University of California, San Diego.
- Jones, Loring P. (1989)**..... *Professor of Social Work*  
B.A., Belmont Abbey College; M.S.W., Virginia Commonwealth University; D.S.W., University of California, Los Angeles.
- Jorgensen-Funk, Sandy (1987)** .... *Director, Counseling and Psychological Services, Student Affairs*  
B.A., California State University, Fullerton; M.A., Ph.D., California School of Professional Psychology.
- Jung, Dong I. (1997)**..... *Professor of Management*  
B.A., Korea University; M.B.A., Bowling Green State University; Ph.D., State University of New York at Binghamton.
- Kahan, David (2000)**..... *Professor of Exercise and Nutritional Sciences*  
B.S., M.Ed., University of California, Los Angeles; Ph.D., The Ohio State University.
- Kalustian, Paula (1989)**..... *Professor of Theatre, Television, and Film*  
B.F.A., Stephens College; M.A., University of Iowa; M.F.A., New York University.
- Kalyuzhny, Gregory (2006)**..... *Assistant Professor of Chemistry and Biochemistry*  
M.S., Novosibirsk State University; Ph.D., Weizmann Institute of Sciences.
- Kaminsky, Ilya V. (2006)**..... *Associate Professor of English and Comparative Literature*  
B.A., Georgetown University; J.D., University of California, Hastings College of the Law.
- Kamper, David (2005)**..... *Assistant Professor of American Indian Studies*  
B.A., Columbia College; M.A., Ph.D., University of California, Los Angeles.
- Kaplan, Jeffrey P. (1976)**..... *Professor of Linguistics*  
A.B., University of Chicago; M.A., Ph.D., University of Pennsylvania.
- Kaplan, Paul J. (2007)**..... *Assistant Professor of Public Affairs*  
B.A., University of California, Santa Cruz; Ph.D., University of California, Irvine.
- Kartalija, Michael A. (1976)**..... *Professor of Marketing*  
B.S., Pennsylvania State University; M.B.A., Drexel University; Ph.D., University of Pittsburgh.
- Kassegne, Samuel K. (2005)**..... *Assistant Professor of Mechanical Engineering*  
B.S., Anna University, India; M.S., Middle East Technical University, Turkey; Ph.D., Virginia Polytechnic Institute and State University.
- Kath, Lisa (2006)**..... *Assistant Professor of Psychology*  
B.S., University of California, Berkeley; M.A., Ph.D., The University of Connecticut.
- Katz, Joseph (1986)**..... *Professor of Aerospace Engineering and Engineering Mechanics*  
B.S., M.S., D.Sc., Technion, Israel.
- Kay, Sascha (2008)**..... *Assistant Professor of Child and Family Development*  
B.A., University of North Carolina at Chapel Hill; M.A., Ph.D., University of California, Berkeley.
- Keating, Gregory D. (2006)**..... *Assistant Professor of Linguistics*  
B.A., University of Texas at Austin; M.A., University of Notre Dame; Ph.D., University of Illinois at Chicago.
- Keely, Richard C. (2000)**..... *Associate Professor of Art, Design, and Art History*  
B.A., California State University, Chico; M.F.A., San Diego State University.
- Kelley, Scott (2002)**..... *Associate Professor of Biology*  
B.A., Cornell University; Ph.D., University of Colorado.
- Kelly, Colleen (1997)**..... *Associate Professor of Statistics*  
B.A., M.A., Ph.D., University of California, San Diego.
- Kennedy, Carole (1998)**..... *Associate Professor of Political Science*  
A.B., University of Michigan; M.A., Ph.D., University of California, Riverside.
- Kern, Mark J. (1995)**..... *Professor of Exercise and Nutritional Sciences*  
B.S., M.S., Indiana University; Ph.D., Purdue University.
- Kiczek, Steven (2006)**..... *Senior Assistant Librarian*  
B.A., Cleveland State University; M.A., University of Akron; M.L.S., University of Pittsburgh.
- Kilpatrick, Alan E. (1993)**..... *Professor of American Indian Studies*  
B.A., Northeastern State University; M.A., Loyola Marymount University; M.A., Ph.D., University of California, Los Angeles.
- Kim, Jaemin (2003)**..... *Assistant Professor of Finance*  
B.S., Seoul National University; M.B.A., University of Utah; Ph.D., University of Washington.
- Kimbrough, David L. (1989)**..... *Professor of Geological Sciences*  
B.S., University of California, Santa Cruz; Ph.D., University of California, Santa Barbara.
- King, Ronald F. (2003)**..... *Professor of Political Science*  
B.A., University of Pennsylvania; B.Phil., Oxford University; Ph.D., University of Chicago.
- Kirschvink, Stephen J. (1987)**..... *Associate Professor of Mathematics*  
B.S., Arizona State University; M.A., Ph.D., University of California, San Diego.
- Kitajima, Ryu (1992)**..... *Associate Professor of Japanese*  
B.A., Osaka Prefectural Women's University, Japan; M.A., Nara National Women's University, Japan; Ph.D., State University of New York at Buffalo.
- Kitchen, Daniel J. (1997)**..... *Lecturer in Education, General*  
B.A., University of California, San Diego; M.A., San Diego State University; Ph.D., San Diego State University and Claremont Graduate University.
- Kitchen, James R. (2000)**..... *Vice President for Student Affairs*  
B.S., M.S., Eastern Illinois University; Ed.D., Northern Arizona University.
- Kline, Ronald A. (1997)**..... *Professor of Mechanical Engineering*  
B.E.S., M.S.E., Ph.D., Johns Hopkins University.
- Klonoff, Elizabeth A. (2000)**..... *Professor of Psychology*  
A.B., Brandeis University; M.A., Ph.D., University of Oregon.
- Ko, Eunjeong (2008)**..... *Assistant Professor of Social Work*  
B.A., Catholic University of Daegu; M.S., Hunter College of The City University of New York; Ph.D., University of Kansas.
- Koch, Alma L. (1983)**..... *Professor of Public Health*  
B.S., Cornell University; S.M., Massachusetts Institute of Technology; M.P.H., Ph.D., University of California, Los Angeles.
- Kolar, Jane M. (1975)**..... *Professor of Music*  
B.M., University of Montana; M.A., Ph.D., Columbia University.
- Kolen, Paul T. (1987)**..... *Professor of Electrical and Computer Engineering*  
B.S., University of Michigan; M.S., San Diego State University; Ph.D., Utah State University.
- Kolkhorst, Fred W. (1998)**..... *Professor of Exercise and Nutritional Sciences*  
B.S., M.S., Ph.D., University of Missouri – Columbia.
- Koolish, Lynda L. (1989)**..... *Professor of English and Comparative Literature*  
B.A., University of California, Berkeley; M.A., San Francisco State University; Ph.D., Stanford University.
- Kornfeld, Eve (1986)**..... *Professor of History*  
B.A., Princeton University; M.A., Ph.D., Harvard University.
- Koster, Alexis (1983)**..... *Professor of Information and Decision Systems*  
B.S., University of Paris; Certificate in Business Administration, University of Toulouse, France; Ph.D., University of North Carolina.
- Kostic, Svetlana (2008)**..... *Assistant Professor of Civil, Construction, and Environmental Engineering*  
B.S., School of Civil Engineering, Yugoslavia; M.S., Ph.D., University of Minnesota. Registered Professional Engineer.
- Kraemer, Bonnie R. (2005)**..... *Associate Professor of Special Education*  
B.A., University of California, Los Angeles; M.A., Chapman University; Ph.D., University of California, Riverside.
- Kramer, Steven J. (1985)**..... *Professor of Speech, Language, and Hearing Sciences*  
B.A., University of California, Santa Barbara; M.A., Ph.D., University of Florida.
- Krentler, Kathleen A. (1981)**..... *Director of Undergraduate Program, College of Business Administration; Professor of Marketing*  
B.S., M.B.A., Wayne State University; D.B.A., University of Kentucky.
- Krivogorsky, Victoria (2005)**..... *Associate Professor of Accountancy*  
M.S., Kiev's Institute of Economics; Ph.D., Institute of Economics of Academy of Science, USSR; Ph.D., University of Wisconsin, Madison.
- Kuefler, Mathew S. (1998)**..... *Professor of History*  
B.A., University of Alberta, Canada; M.A., Ph.D., Yale University.
- Kumar, Sunil (2006)**... *Associate Professor of Electrical and Computer Engineering*  
B.E., S.V. National Institute of Technology, India; M.E., Ph.D., Birla Institute of Technology and Science, India.
- Kuru, Ahmet T. (2006)**..... *Assistant Professor of Political Science*  
B.S., Bilkent University, Turkey; M.A., Ph.D., University of Washington.
- Lachance, Marie-Eve (2005)**..... *Assistant Professor of Finance*  
B.A., Laval University, Canada; Ph.D., University of Pennsylvania.
- Lackritz, James R. (1977)**..... *Associate Dean for Academic Affairs, College of Business Administration; Professor of Information and Decision Systems*  
B.S., Bucknell University; M.Stat., Ph.D., University of Florida, Gainesville.
- Lai, Chun-Ta (2007)**..... *Assistant Professor of Biology*  
B.S., Sun Yat-sen University, Taiwan; Ph.D., Duke University.
- LaMaster, Kathryn J. (1996)**..... *Associate Dean, College of Professional Studies and Fine Arts; Professor of Exercise and Nutritional Sciences*  
B.S., M.S., Texas Christian University; Ph.D., The Ohio State University.
- Lamb, Lisa L. Clement (1998)**..... *Associate Professor of Teacher Education*  
B.S., College of William and Mary; M.A., San Diego State University; Ph.D., University of California, San Diego.
- Lambros Ortega, Katina (2008)**..... *Assistant Professor of Counseling and School Psychology*  
B.A., San Diego State University; Ph.D., University of California, Riverside.
- Lamont, Melissa (2006)**..... *Associate Librarian*  
B.A., M.A., Pennsylvania State University; M.L.S., University of North Carolina at Chapel Hill.
- Lara, Irene (2002)**..... *Associate Professor of Women's Studies*  
B.A., Stanford University; Ph.D., University of California, Berkeley.
- Larham, Margaret C. (1989, except 1992)**..... *Professor of Theatre, Television, and Film*  
B.A., M.A., University of Natal, Durban.

## Tenured and Tenured-Track Faculty

- Larlham, Peter F. (1987)**..... *Professor of Theatre, Television, and Film*  
B.A., M.A., University of Natal, Durban; Ph.D., New York University.
- Lauer, Matthew T. (2007)**..... *Assistant Professor of Anthropology*  
B.A., University of Arizona; M.A., Ph.D., University of California, Santa Barbara.
- Lauzen, Martha M. (1988)**..... *Professor of Theatre, Television, and Film*  
B.A., M.A., University of Iowa; Ph.D., University of Maryland.
- Leach, Robert W. (1988)**..... *Resident Astronomer in Astronomy*  
A.B., Princeton University; A.M., Ph.D., Harvard University.
- Lee, Carmen M. (2008)**..... *Assistant Professor of Communication*  
B.A., Loyola Marymount University; M.A., California State University, Fullerton; Ph.D., University of California, Santa Barbara.
- Lee, Gordon K.F. (2000)**..... *Professor of Electrical and Computer Engineering*  
B.S.E.E., University of Hawaii; M.S.E.E., Ph.D., University of Connecticut.
- Lee, Kangoh (2006)**..... *Professor of Economics*  
B.A., M.A., Seoul National University; Ph.D., University of Illinois.
- Lee, Long C. (1982)**..... *Professor of Electrical and Computer Engineering*  
B.S., Taiwan Normal University; A.M., Ph.D., University of Southern California.
- Lee, Young-Shin (2005)**..... *Assistant Professor of Nursing*  
B.S., M.S., Seoul National University, Korea; Ph.D., University of Texas at Austin.
- Lemus, Hector (2007)**..... *Assistant Professor of Public Health*  
B.S., California State Polytechnic University, Pomona; M.S., Dr.P.H., University of California, Los Angeles.
- Leonard, Douglas C. (2006)**..... *Assistant Professor of Astronomy*  
B.A., University of Pennsylvania; M.A., Ph.D., University of California, Berkeley.
- Lester, Mark R. (1980)**..... *Director, Access, Administrative Operations and Communication, Library*  
A.B., San Diego State University.
- Levine, Richard A. (2002)**..... *Professor of Statistics*  
B.S., State University of New York at Binghamton; M.S., Ph.D., Cornell University.
- Levitt, Risa (1997)**..... *Professor of Religious Studies*  
B.A., York University, Toronto; M.A., University of Toronto; M.A., Ph.D., University of California, San Diego.
- Levy, Susan S. (2001)**..... *Associate Professor of Exercise and Nutritional Sciences*  
B.A., Connecticut College; M.A., John F. Kennedy University; Ph.D., Oregon State University.
- Lewis, Joseph (2001)**..... *Lecturer in Computer Science*  
B.S., Purdue University; M.S., National Technological University; Ph.D., University of New Mexico.
- Lewison, Rebecca (2006)**..... *Assistant Professor of Biology*  
B.A., Vassar College; Ph.D., University of California, Davis.
- Lewiston, Linda (1987)**..... *Director, Budget and Human Resource Administration, Student Affairs*  
B.S., M.P.A., San Diego State University.
- Li, Yawen (2009)**..... *Assistant Professor of Social Work*  
B.A., Yunnan University, China; M.S.W., The University of Hong Kong; Ph.D., University of Southern California.
- Lichtenstein, Gregg A. (1984)**..... *Director, Clinical Services; M.D., Student Health Services*  
B.S., Stanford University; M.D., Tufts University.
- Liebowitz, Marian (1984)**..... *Professor of Music*  
B.M., Eastman School of Music; M.A., Smith College; D.M.A., University of Southern California.
- Lightner, Sharon M. (1978)**..... *Associate Professor of Accountancy*  
B.S., University of Montana; M.S., San Diego State University; Ph.D., University of Oregon. Certified Public Accountant.
- Lim, Soh-Leong (2004)**..... *Associate Professor of Counseling and School Psychology*  
B.S., University of Malaya; M.A., Fuller Theological Seminary; Ph.D., Texas Tech University.
- Lin, Chii-Dean (1999)**..... *Associate Professor of Statistics*  
B.A., National Chiao Tung University, Taiwan; M.S., New Jersey Institute of Technology; Ph.D., Texas A & M University.
- Lindemann, Kurt J. (2006)**..... *Assistant Professor of Communication*  
B.S., M.A., Eastern Michigan University; M.S., Illinois State University; Ph.D. Arizona State University.
- Lindsay, Suzanne P. (2007)**..... *Assistant Professor of Public Health*  
B.S., M.A., University of California, Irvine; M.P.H., San Diego State University; Ph.D., San Diego State University and University of California, San Diego.
- Lipson, David (2001)**..... *Associate Professor of Biology*  
B.A., University of California, Berkeley; Ph.D., University of Colorado at Boulder.
- Lischke, Nancy L. (1980)**..... *Lecturer in Nursing*  
B.S., M.S., University of California, Los Angeles.
- Liu, Ruth Xiaoru (1997)**..... *Professor of Sociology*  
B.A., Hangzhou University, China; M.A., Ph.D., Texas A & M University.
- Lobato, Joanne (1996)**..... *Professor of Mathematics*  
B.S., St. Cloud State University; M.A., San Diego State University; Ph.D., University of California, Berkeley.
- Long, Jeremy (2009)**..... *Assistant Professor of Biology*  
B.S.N., M.S.N., California State University, Los Angeles.
- Long, Linda M. (1985)**..... *Lecturer in Nursing*  
B.S.N., M.S.N., California State University, Los Angeles.
- Love, John J. (2001)**..... *Associate Professor of Chemistry and Biochemistry*  
B.S., State University of New York; Ph.D., University of California, San Diego.
- Love-Geffen, Tracy E. (2005)**..... *Associate Professor of Speech, Language, and Hearing Sciences*  
B.A., Brandeis University; M.A., Ph.D., University of California, San Diego.
- Lozada-Santone, Patricia (2002)**..... *Assistant Dean for Student Affairs, College of Education*  
B.S., M.P.H., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Lui, Kung-Jong (1990)**..... *Professor of Statistics*  
B.S., Fu-Jen University; M.S., M.A., Ph.D., University of California, Los Angeles.
- Lyman-Hager, Mary Ann (1997)**..... *Professor of French*  
B.A., M.A., Cornell College; Ph.D., University of Idaho.
- Ma, Shuo (2008)**..... *Assistant Professor of Geological Sciences*  
B.S., Tongji University; M.S., Colorado School of Mines; Ph.D., University of California, Santa Barbara.
- Macara, Caroline A. (2001)**..... *Professor of Public Health*  
B.A., M.S., Ph.D., University of California, Berkeley.
- Mackersie, Carol L. (1996)**..... *Associate Professor of Speech, Language, and Hearing Sciences*  
B.A., University of Michigan; M.A., San Diego State University; Ph.D., The City University of New York.
- Madanat, Hala N. (2008)**..... *Assistant Professor of Public Health*  
B.S., University of Jordan; M.S., Ph.D., Brigham Young University.
- Maggio, Virginia M. (1980)**..... *Lecturer in Rhetoric and Writing Studies*  
B.A., Brooklyn College of the City University of New York; M.A., M.Phil., Columbia University.
- Mahaffy, Joseph M. (1985)**..... *Professor of Mathematics*  
B.S., University of Nebraska; Sc.M., Ph.D., Brown University.
- Maher, Kristen Hill (1999)**..... *Associate Professor of Political Science*  
B.A., Illinois State University; M.A., University of Iowa; Ph.D., University of California, Irvine.
- Malcarne, Vanessa L. (1990)**..... *Professor of Psychology*  
A.B., Stanford University; Ph.D., University of Vermont.
- Mallios, Seth W. (2001)**..... *Professor of Anthropology*  
A.B., University of California, Berkeley; M.A., Ph.D., University of Virginia.
- Malouf, Robert P. (2002)**..... *Associate Professor of Linguistics*  
B.A., State University of New York at Buffalo; Ph.D., Stanford University.
- Maloy, Stanley R. (2002)**..... *Dean, College of Sciences; Professor of Biology*  
B.S., University of California, Irvine; M.S., California State University, Long Beach; Ph.D., University of California, Irvine.
- Mansfield, Robert A. (1976)**..... *Associate Professor of Art, Design, and Art History*  
A.B., St. Cloud State College; M.F.A., University of Massachusetts.
- Marcelli, Enrico A. (2007)**..... *Associate Professor of Sociology*  
B.A., Messiah College; M.A., Ph.D., University of Southern California.
- Marcelli, Pascale J. (2007)**..... *Associate Professor of Geography*  
B.A., M.A., Facultes Universitaires Notre-Dame de la Paix, Namur, Belgium; Ph.D., University of Southern California.
- Marino, Leonard R. (1973)**..... *Professor of Electrical and Computer Engineering*  
B.S., Carnegie-Mellon University; M.S., Ph.D., Case Western Reserve University.
- Marlin, Nancy A. (1998)**..... *Provost; Professor of Psychology*  
B.A., State University of New York at Binghamton; M.S., Oklahoma State University; Ph.D., City University of New York.
- Marshall, Sandra P. (1985)**..... *Professor of Psychology*  
B.A., Boston University; Ph.D., University of California, Santa Barbara.
- Marshall, Simon J. (2002)**..... *Associate Professor of Exercise and Nutritional Sciences*  
B.Sc., Liverpool Polytechnic; M.S., San Diego State University; Ph.D., Loughborough University.
- Martin, Estrilita M.E. (1993)**..... *Assistant Dean for Student Affairs, College of Sciences; Lecturer in Biology*  
A.B., Oberlin College; M.S., Clark Atlanta University; Ph.D., University of California, Berkeley.
- Martin, Stephen-Paul (2008)**..... *Associate Professor of English and Comparative Literature*  
A.B., Muhlenberg College; M.A., Ph.D., New York University.
- Martin-Flores, Jose Mario (1999)**..... *Associate Professor of Spanish*  
B.A., Autonomous University, Mexico; M.A., Ph.D., University of California, Irvine.

- Maruyama, Wendy L. (1989)** ..... *Professor of Art, Design, and Art History*  
B.A., San Diego State University; M.F.A., Rochester Institute of Technology.
- Marx, David M. (2006)** ..... *Assistant Professor of Psychology*  
B.A., University of California, Berkeley; M.Phil., Ph.D., Harvard University.
- Mason, Cheryl L. (1987)** ..... *Professor of Teacher Education*  
B.A., M.A.T., Indiana University; Ph.D., Purdue University.
- Mathiesen, Sally G. (2002)** ..... *Associate Professor of Social Work*  
B.A., California State University, Long Beach; M.S.W., Ph.D., University of Southern California.
- Mathison, Carla S. (1983)** ..... *Professor of Teacher Education*  
B.A., Elmhurst College; M.A., San Diego State University; Ph.D., Indiana University.
- Matlin, David (1997)** ..... *Professor of English*  
M.A., Ph.D., State University of New York at Buffalo.
- Matt, Georg E. (1988)** ..... *Professor of Psychology*  
Dipl., Albert-Ludwigs-Universität, Freiburg, Germany; Ph.D., Northwestern University.
- Mattingly, Doreen J. (1995)** ..... *Associate Professor of Women's Studies*  
A.B., University of California, Berkeley; M.A., University of California, Los Angeles; Ph.D., Clark University.
- Mattson Weller, Sarah N. (2000)** ..... *Professor of Psychology*  
B.S., M.A., State University of New York at Albany; Ph.D., San Diego State University and University of California, San Diego.
- Mayer, Joni A. (1986)** ..... *Professor of Public Health*  
B.A., University of Alabama in Birmingham; M.S., Ph.D., Virginia Polytechnic Institute and State University.
- Mayes, Arion T. (2004)** ..... *Assistant Professor of Anthropology*  
B.A., M.A., University of Oklahoma; Ph.D., University of Colorado at Boulder.
- May-Newman, Karen D. (1998)** ..... *Professor of Mechanical Engineering*  
B.S., M.S., Ph.D., University of California, San Diego.
- McAlpine, Shelli R. (2000)** ..... *Associate Professor of Chemistry and Biochemistry*  
B.S., University of Illinois; Ph.D., University of California, Los Angeles.
- McCall, Madhavi M. (2001)** ..... *Associate Professor of Political Science*  
B.A., Case Western Reserve University; M.A., University of Akron; Ph.D., Washington University.
- McCall, Michael A. (2003)** ..... *Associate Professor of Sociology*  
B.S., M.A., University of Akron; Ph.D., Washington University.
- McCarthy, Doris R. (1993)** ..... *Lecturer in Nursing*  
B.S.N., M.A., M.S.N., San Diego State University.
- McClenaghan, Leroy R., Jr. (1977)** ..... *Professor of Biology*  
B.S., Colorado State University; Ph.D., University of Kansas.
- McClish, Glen (1999)** ..... *Professor of Rhetoric and Writing Studies*  
B.A., M.A., Ph.D., University of California, Berkeley.
- McDonald, Nan L. (1985)** ..... *Professor of Music*  
A.B., M.A., San Diego State University; Ed.D., University of San Diego.
- McGivern, Robert F. (1991)** ..... *Professor of Psychology*  
B.S., M.A., Ph.D., The Ohio State University.
- McGrath, Thomas (1990)** ..... *M.D., Student Health Services*  
B.A., San Diego State University; M.D., University of California, Irvine.
- McGuire, Kathleen L. (1990)** ..... *Professor of Biology*  
B.S., University of New Mexico; Ph.D., University of Texas.
- McIlwain, Jeffrey S. (2000)** ..... *Associate Professor of Public Affairs*  
B.A., University of Southern California; M.A., Ohio University; Ph.D., Pennsylvania State University.
- McIntosh, Angela S. (2001)** ..... *Associate Professor of Special Education*  
B.A., M.A., Hampton University; Ph.D., University of Virginia.
- McKenzie, Randi E. (1980)** ..... *Assistant Dean for Student Affairs, College of Professional Studies and Fine Arts*  
B.S., Kent State University; M.Ed., Bowling Green State University.
- McPhail, Martha E. (1988)** ..... *Librarian*  
B.A., M.S.L.S., University of North Carolina at Chapel Hill; M.A., San Diego State University.
- Mechikoff, Robert A. (1981)** ..... *Professor of Exercise and Nutritional Sciences*  
B.A., M.A., California State University, Long Beach; Ph.D., The Ohio State University.
- Mehrabadi, Morteza M. (2007)** ..... *Professor of Mechanical Engineering*  
B.S., Tehran University; M.S., Ph.D., Tulane University.
- Mellors, Robert J. (1997)** ..... *Resident Computer Geoscientist in Geological Sciences*  
B.S., The Ohio State University; M.S., Cornell University; Ph.D., Indiana University.
- Merritt, Susan C. (1986)** ..... *Professor of Art, Design, and Art History*  
B.A., Queens College; M.A., Kunstgewerbeschule-Basel, Switzerland.
- Mikitka-Gomez, Kathleen F. (1974)** ..... *Professor of Teacher Education*  
A.B., Arizona State University; M.S., Kansas State University; Ph.D., Boston College.
- Milberg, Colin T. (2006)** ..... *Assistant Professor of Civil, Construction, and Environmental Engineering*  
B.S., Tufts University; M.S., Ph.D., University of California, Berkeley.
- Miller, Fletcher J. (2007)** ..... *Assistant Professor of Mechanical Engineering*  
B.S., Columbia University; M.S., Ph.D., University of California, Berkeley.
- Min, Jong Won (2000)** ..... *Associate Professor of Social Work*  
B.A., Yonsei Un, Seoul, Korea; M.S.W., University of Calgary, Canada; Ph.D., University of California, Los Angeles.
- Minifee, Paul A. (2006)** ..... *Assistant Professor of Rhetoric and Writing Studies*  
B.A., Ph.D., University of Texas at Austin.
- Mobley, Alan C. (2005)** ..... *Assistant Professor of Public Affairs*  
B.S., Regents College of the University of the State of New York; M.A., Vermont College of Norwich University; Ph.D., University of California, Irvine.
- Moellendorf, Darrel (2002)** ..... *Professor of Philosophy*  
B.A., St. John's College; M.A., Ph.D., Claremont Graduate University.
- Mohammed, Khaleel (2003)** ..... *Associate Professor of Religious Studies*  
B.A., Universidad Interamericana, Saltillo; M.A., Concordia University; Ph.D., McGill University.
- Monk, Gerald (2000)** ..... *Professor of Counseling and School Psychology*  
B.A., Massey University; M.A., University of Otago, New Zealand; Ph.D., University of Waikato, New Zealand.
- Monzon, Reynaldo I. (2004)** ..... *Director, Testing, Assessment and Research, Student Affairs*  
B.A., M.A., San Diego State University; Ph.D., Claremont Graduate University and San Diego State University.
- Moon, Kee S. (2005)** ..... *Associate Professor of Mechanical Engineering*  
B.S., Korea University, Seoul; M.S., Ph.D., University of Illinois at Chicago.
- Moore, Rebecca E. (1999)** ..... *Professor of Religious Studies*  
B.A., Antioch College; M.A., Ph.D., Marquette University.
- Moreno, Rosa Elena (1999)** ..... *Special Assistant to the Vice President, Student Affairs*  
B.A., California State University, Northridge; M.A., Holy Names College.
- Morong, David A. (2006)** ..... *Associate Professor of Theatre, Television, and Film*  
B.A., State University of New York at Albany; M.F.A., New York University.
- Morris, Richard H. (1957)** ..... *Professor of Physics*  
A.B., Ph.D., University of California, Berkeley.
- Morrow, Jared R. (2006)** ..... *Assistant Professor of Geological Sciences*  
B.A., Humboldt State University; M.S., Washington State University; Ph.D., University of Colorado.
- Morsi, Khaled B. (2003)** ..... *Professor of Mechanical Engineering*  
M.S., University of London; Ph.D., University of Oxford.
- Moses, Pamela (2006)** ..... *Assistant Professor of Psychology*  
B.A., University of California, Berkeley; M.A., Ph.D., University of California, San Diego.
- Moss, Barbara (2001)** ..... *Professor of Teacher Education*  
B.S., The Ohio State University; M.A., Ph.D., Kent State University.
- Mueller, Barbara (1987)** ..... *Professor of Journalism and Media Studies*  
B.A., M.A., Ph.D., University of Washington.
- Mueller, Ralph-Axel (2001)** ..... *Professor of Psychology*  
M.A., Ph.D., University of Frankfurt, Main.
- Mulholland, Shaila D. (2009)** ..... *Assistant Professor of Administration, Rehabilitation and Postsecondary Education*  
B.A., M.S., Indiana University; Ph.D., New York University.
- Muroi, Linda S. (1985)** ..... *Librarian*  
B.A., M.L.S., University of Illinois at Urbana-Champaign.
- Murphy, Claire (1984)** ..... *Professor of Psychology*  
B.S., Loyola University; M.S., Ph.D., University of Massachusetts.
- Musteen, Martina (2006)** ..... *Assistant Professor of Management*  
B.A., University of Maryland; M.B.A., Ph.D., University of Kansas.
- Nagaraj, Santosh V. (2005)** ..... *Associate Professor of Electrical and Computer Engineering*  
B.S., Indian Institute of Technology, India; Ph.D., Purdue University.
- Nakamura, Kotaro (1980)** ..... *Associate Professor of Art, Design, and Art History*  
B.E., Kanto-Gakuin University, Yokohama, Japan; M.A., San Diego State University.
- Narang, Balbir S. (1968)** ..... *Professor of Aerospace Engineering and Engineering Mechanics*  
B.S., M.S., Ph.D., University of Illinois.
- Naranjo, Jason (2009)** ..... *Assistant Professor of Special Education*  
B.S., M.S., Ph.D., University of Oregon.
- Naughton, Gail K. (2002)** ..... *Dean, College of Business Administration; Professor of Management*  
B.S., St. Francis College; M.S., Ph.D., New York University.
- Nelson, Kerry A. (1988)** ..... *Professor of Art, Design, and Art History*  
B.A., University of Delaware; M.S., Drexel University.

## Tenured and Tenured-Track Faculty

- Nemirovsky, B. Ricardo (2005)** ..... *Professor of Mathematics*  
Licentiate, University of Buenos Aires; M.S., National University of Mexico; Ph.D., Harvard University.
- Nericcio, William A. (1991)** ..... *Professor of English and Comparative Literature*  
B.A., University of Texas at Austin; M.A., Ph.D., Cornell University.
- Nesbitt, Francis N. (2000)** ..... *Associate Professor of Africana Studies*  
B.A., University of Nairobi; M.A., Ph.D., University of Massachusetts.
- Neumann, Richard (1991)** ..... *Professor of Education, Imperial Valley Campus*  
B.S., Central Connecticut State University; M.A., Ph.D., University of Colorado, Boulder.
- Newhoff, Marilyn (2001)** ..... *Dean, College of Health and Human Services; Professor of Speech, Language, and Hearing Sciences*  
B.A., M.A., University of Alabama; Ph.D., University of Memphis.
- Nichols-Bernhard, Jeanne F. (1985)** ..... *Professor of Exercise and Nutritional Sciences*  
B.S., Northeastern University; M.S., University of New Hampshire; Ph.D., University of Michigan.
- Nickerson, Susan D. (2002)** ..... *Associate Professor of Mathematics*  
B.S., Eastern Nazarene College; M.A., University of California, San Diego; Ph.D., San Diego State University and University of California, San Diego.
- Nieto, Jesus (1989)** ..... *Associate Professor of Teacher Education*  
B.A., Wayne State University; M.S., San Diego State University; Ph.D., San Diego State University and Claremont Graduate University.
- Nip, Ignatius (2008)** ..... *Assistant Professor of Speech, Language, and Hearing Sciences*  
B.A., University of British Columbia; M.A., University of Alberta, Edmonton; Ph.D., University of Nebraska, Lincoln.
- Nosseir, Nagy (1983)** ..... *Professor of Aerospace Engineering and Engineering Mechanics*  
B.S., M.S., Cairo University; M.A., University of Toronto; Ph.D., University of Southern California.
- Novotny, Thomas E. (2009)** ..... *Professor of Public Health*  
B.S., University of Nebraska-Lincoln; M.P.H., Johns Hopkins University; M.D., University of Nebraska Medical Center.
- Nunn, Melissa (1979)** ..... *Professor of Dance*  
A.B., University of California, Los Angeles; M.A., Northwestern University.
- Nuntram, Phacharaphot (2007)** ..... *Assistant Professor of Economics*  
B.A., Thammasat University; M.A., Ph.D., University of Michigan.
- Nurge, Dana M. (2002)** ..... *Associate Professor of Public Affairs*  
B.A., University of Delaware; M.A., Ph.D., Rutgers, The State University of New Jersey.
- Oechel, Walter C. (1978)** ..... *Professor of Biology*  
A.B., San Diego State University; Ph.D., University of California, Riverside.
- Oestreich, Nathan A. (1985)** ..... *Professor of Accountancy*  
B.A., Texas Lutheran College; M.S., Ph.D., University of Houston.
- Ojeda, Norma (1999)** ..... *Professor of Sociology and Chicana and Chicano Studies*  
M.A., El Colegio de Mexico; Ph.D., University of Texas at Austin.
- O'Leary, John F. (1985)** ..... *Professor of Geography*  
A.B., University of California, Riverside; M.A., Ph.D., University of California, Los Angeles.
- Olevsky, Eugene A. (1998)** ..... *Director of Doctoral Programs, College of Engineering; Professor of Mechanical Engineering*  
B.S., M.S., Kiev Institute of Technology, Ukraine; B.S., M.S., University of Kiev, Ukraine; Ph.D., National Academy of Sciences, Ukraine.
- Ollman, Arthur L. (2006)** ..... *Professor of Art, Design, and Art History*  
B.A., University of Wisconsin; M.F.A., University of San Francisco.
- Olney, Marjorie F. (2002)** ..... *Associate Professor of Administration, Rehabilitation and Postsecondary Education*  
B.S., State University of New York-Empire State College; M.S., Ph.D., Syracuse University.
- Olschorka, Felix (2003)** ..... *Associate Professor of Music*  
B.M., M.M., Academy of Music 'Hanns Eisler', Berlin, Germany.
- Olsen, Kim Bak (2004)** ..... *Professor of Geological Sciences*  
B.S., M.S., University Aarhus, Denmark; Ph.D., University of Utah.
- Olson, Lois B. (1994)** ..... *Lecturer in Marketing*  
B.A., Albright College; M.S., Cornell University; M.B.A., Boston College; D.B.A., United States International University.
- O'Rand, Denise A. (1994)** ..... *Associate Professor of Exercise and Nutritional Sciences*  
B.S., Central Michigan University; M.E., Ph.D., University of Virginia.
- Ornatowski, Cezar M. (1992)** ..... *Professor of Rhetoric and Writing Studies*  
B.A., Mickiewicz University; M.A., Boston College; Ph.D., University of California, San Diego.
- Orosz, Jerome A. (2002)** ..... *Associate Professor of Astronomy*  
B.A., University of Northern Colorado; M.S., Ohio University; Ph.D., Yale University.
- Ortiz, Isidro D. (1986)** ..... *Professor of Chicana and Chicano Studies*  
B.S., Texas A & I University; M.A., Ph.D., Stanford University.
- Osman, Ghada (2002)** ..... *Associate Professor of Arabic*  
B.A., M.A., University of California, Los Angeles; Ph.D., Harvard University.
- O'Sullivan, Michael (2000)** ..... *Associate Professor of Mathematics*  
B.A., Reed College; M.S., Portland State University; Ph.D., University of California, Berkeley.
- Ozturk, Yusuf (1998)** ..... *Associate Professor of Electrical and Computer Engineering*  
B.Sc., Middle East Technical University, Turkey; M.S., Ph.D., Ege University, Turkey.
- Packard, Thomas R. (1983)** ..... *Associate Professor of Social Work*  
B.A., M.S.W., San Diego State University; D.S.W., University of California, Los Angeles.
- Palacios, Antonio (1999)** ..... *Professor of Mathematics*  
B.S., La Salle University; M.N.S., M.S., Ph.D., Arizona State University.
- Pang, Valerie O. (1989)** ..... *Professor of Teacher Education*  
B.Ed., Seattle University; M.Ed., Central Washington University; Ph.D., University of Washington.
- Papin, Patrick J. (1985)** ..... *Associate Dean for Academic Affairs, College of Sciences; Professor of Physics*  
B.S., Cleveland State University; M.S., San Diego State University; Ph.D., University of California, Los Angeles.
- Park, Cynthia Darche (1977)** ..... *Professor of Teacher Education*  
A.B., George Washington University; M.A., Ph.D., University of Kansas.
- Parker, Linda S. (1986)** ..... *Professor of American Indian Studies*  
B.A., Oral Roberts University; M.A., Ph.D., University of Oklahoma.
- Parr, Mary Beth (1998)** ..... *Lecturer in Nursing*  
B.S., Keuka College; M.S., University of Virginia.
- Passananti, Thomas P. (2003)** ..... *Associate Professor of History*  
B.A., Aberdeen University; M.A., Northern Illinois University; M.A., Ph.D., University of Chicago.
- Patterson, Patricia (1985)** ..... *Professor of Exercise and Nutritional Sciences*  
B.S., M.S., Ph.D., University of Wisconsin.
- Payne, William R. (2001)** ..... *Director of Library Services, Imperial Valley Campus; Associate Librarian, Imperial Valley Campus*  
B.A., M.A., San Diego State University; M.L.S., San Jose State University.
- Penny, Sharon A. (1998)** ..... *Director, Communications Services, Student Affairs*  
B.A., M.S., San Diego State University.
- Penrose, John M. (1988)** ..... *Professor of Information and Decision Systems*  
B.S., M.S., Ohio University; Ph.D., University of Texas at Austin.
- Penrose, Walter D. (2007)** ..... *Assistant Professor of History*  
B.S., California State University, Long Beach; M.Phil., Ph.D., City University of New York.
- Pérez, Ramona L. (2001)** ..... *Associate Professor of Anthropology*  
B.A., San Diego State University; M.A., Ph.D., University of California, Riverside.
- Perkins, Michael J. (1986)** ..... *Librarian*  
B.B.A., St. Norbert College; M.L.S., University of Wisconsin; M.B.A., San Diego State University.
- Perrault, Jacques (1984)** ..... *Professor of Biology*  
B.S., McGill University; Ph.D., University of California, San Diego.
- Pershing, Jana L. (1997)** ..... *Professor of Sociology*  
B.A., Indiana University; M.A., Ph.D., University of Washington.
- Peter, Paula (2007)** ..... *Assistant Professor of Marketing*  
B.S., Swiss Italian University; M.S., Ph.D., Virginia Polytechnic Institute and State University.
- Phan, Tan T. (2000)** ..... *Assistant Professor of Teacher Education*  
B.A., St. Mary's University; M.A., Dalhousie University, Nova Scotia; Ph.D., University of British Columbia.
- Philipp, Randolph A. (1990)** ..... *Professor of Teacher Education*  
B.A., M.S., California State University, Northridge; Ph.D., University of Wisconsin, Madison.
- Pierson, Jessica L. (2008)** ..... *Assistant Professor of Teacher Education*  
B.S., Abilene Christian University; M.S., Texas State University; Ph.D., University of Texas at Austin.
- Pierson, Paula (1995)** ..... *Lecturer in Theatre, Television, and Film*  
B.F.A., United States International University; M.F.A., San Diego State University.
- Pietruszka, Aaron J. (2003)** ..... *Associate Professor of Geological Sciences*  
B.A., University of Chicago; Ph.D., University of Hawaii at Manoa.
- Pittner, Matthew J. (2005)** ..... *Associate Professor of Naval Science*  
B.S., California Polytechnic State University, San Luis Obispo.
- Plice, Robert (2002)** ..... *Associate Professor of Information and Decision Systems*  
B.A., The American University; M.S., San Diego State University; Ph.D., University of California, Irvine.
- Plotkin, Allen (1985)** ..... *Professor of Aerospace Engineering and Engineering Mechanics*  
B.S., M.S., Columbia University; Ph.D., Stanford University.

- Polkinhorn, Harry (1984)** ..... *Professor of English and Comparative Literature; Director, SDSU Press*  
B.A., University of California, Berkeley; M.A. (English), M.A. (Art), San Diego State University; M.A. (Counseling Psychology), Pacifica Graduate Institute; Ph.D., New York University.
- Pollard, Elizabeth Ann (2002)** ..... *Associate Professor of History*  
B.A., North Carolina State University; M.A., Ph.D., University of Pennsylvania.
- Ponce, Gregorio A. (2002)** ..... *Associate Professor of Teacher Education, Imperial Valley Campus*  
B.A., M.A., University of California, San Diego; Ed.D., University of San Diego.
- Ponce, Victor M. (1980)** ..... *Professor of Civil, Construction, and Environmental Engineering*  
B.S., National University of Engineering, Peru; M.S., Ph.D., Colorado State University.
- Ponomarenko, Vadim (2006)** ..... *Associate Professor of Mathematics*  
B.A., University of Michigan; M.S., Ph.D., University of Wisconsin, Madison.
- Ponting, Jess (2008)** ..... *Assistant Professor of Hospitality and Tourism Management*  
B.S., Australian National University; M.M., Ph.D., University of Technology, Sydney.
- Poole, Deborah (1989)** ..... *Associate Professor of Rhetoric and Writing Studies and Linguistics*  
B.A., Emory University; M.A., Ph.D., University of Southern California.
- Powell, Timothy A. (2003)** ..... *Associate Professor of Theatre, Television, and Film*  
B.A., M.A., Loyola Marymount University; Ph.D., Capella University.
- Pozos, Robert S. (1994)** ..... *Professor of Biology*  
B.S., St. Mary's College; M.S., Ph.D., Southern Illinois University.
- Price, Joseph M. (1989)** ..... *Professor of Psychology*  
B.A., Rockmont College; M.A., University of Colorado; Ph.D., Purdue University.
- Price, Kimala J. (2006)** ..... *Assistant Professor of Women's Studies*  
B.A., Tulane University; Ph.D., University of Michigan.
- Prislin, Radmila (1996)** ..... *Associate Dean of the Division of Graduate Affairs; Professor of Psychology*  
B.A., M.Sc., Ph.D., University of Zagreb.
- Proell, Chad (2010)** ..... *Assistant Professor of Accountancy*  
B.A., University of St. Thomas; M.B.A., Ph.D., Cornell University.
- Pruitt, Sonja (2006)** ..... *Assistant Professor of Speech, Language, and Hearing Sciences*  
B.A., M.A., Ph.D., Louisiana State University.
- Puerto, Cecilia (1994)** ..... *Librarian*  
B.A., Sangamon State University; M.A., University of California, Santa Barbara; M.S., University of Illinois at Urbana-Champaign.
- Pugh, Darrell L. (1981)** ..... *Professor of Public Affairs*  
B.A., M.P.A., San Diego State University; Ph.D., University of Southern California.
- Pukthuanthong, Kuntara (2003)** ..... *Associate Professor of Finance*  
B.E., Chulalongkorn University, Thailand; M.B.A., Washington University; Ph.D., University of California, Irvine.
- Pullman, David P. (1994)** ..... *Associate Professor of Chemistry and Biochemistry*  
A.B., Princeton University; M.A., Ph.D., Harvard University.
- Pumpian, Ian R. (1976)** ..... *Professor of Educational Leadership*  
B.S., M.S., Ph.D., University of Wisconsin.
- Putman, John C. (1994)** ..... *Associate Professor of History*  
B.A., San Diego State University; M.A., Ph.D., University of California, San Diego.
- Puttitanun, Thitima (2003)** ..... *Associate Professor of Economics*  
B.A., Chulalongkorn University, Thailand; M.A., Ph.D., University of Colorado at Boulder.
- Qian, Yasemin Turan (2005)** ..... *Assistant Professor of Special Education*  
B.A., Anadolou University, Turkey; M.Ed., Ph.D., University of Illinois at Urbana-Champaign.
- Quandahl, Ellen (1994)** ..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., Luther College; Ph.D., University of Iowa.
- Quintana, P.J.E. (Jenny) (1995)** ..... *Associate Professor of Public Health*  
B.S., University of California, Davis; M.P.H., San Diego State University; Ph.D., University of California, Berkeley.
- Raafat, Feraidoon (1986)** ..... *Professor of Information and Decision Systems*  
B.S., Phillips University; B.S., M.I.E., Ph.D., Oklahoma State University.
- Rahiotis, Miguel (1984)** ..... *Assistant Dean for Student Affairs, Imperial Valley Campus*  
A.B., M.S., San Diego State University.
- Ramirez-Pimienta, Juan C. (2003)** ..... *Associate Professor of Spanish, Imperial Valley Campus*  
B.A., University of California, San Diego; M.A., University of California, Los Angeles; Ph.D., University of Michigan, Ann Arbor.
- Randel, Amy (2005)** ..... *Associate Professor of Management*  
B.A., Brown University; Ph.D., University of California, Irvine.
- Rasmussen, Chris L. (2004)** ..... *Professor of Mathematics*  
B.S., M.A., Ph.D., University of Maryland.
- Rasmussen, Lucinda A. (1995)** ..... *Associate Professor of Social Work*  
B.S., Brigham Young University; M.S.W., Ph.D., University of Utah.
- Ray, Robert (2006)** ..... *Associate Librarian*  
B.A., Earlham College; M.A., Cleveland State University; M.L.S., Kent State University.
- Rea, Louis M. (1975)** ..... *Professor of Public Affairs*  
A.B., Colgate University; M.R.P., Ph.D., Syracuse University.
- Rebien, Kristin (2006)** ..... *Assistant Professor of German*  
M.A., Universität Leipzig; Ph.D., Stanford University.
- Reed, Mark B. (2008)** ..... *Assistant Professor of Social Work*  
B.A., University of California, Santa Cruz; M.A., Ph.D., University of Maryland.
- Reed, Stephen K. (1988)** ..... *Professor of Psychology*  
B.A., University of Wisconsin; Ph.D., University of California, Los Angeles.
- Reeder, Tod W. (1996)** ..... *Professor of Biology*  
B.S., Emporia State University; M.S., University of Missouri, Kansas City; Ph.D., University of Texas at Austin.
- Reilly, Judy S. (1986)** ..... *Professor of Psychology*  
A.B., M.A., Ph.D., University of California, Los Angeles.
- Reilly, Thomas F. (2008)** ..... *Professor of Social Work*  
B.A., Memphis State University; M.S.W., Arizona State University; D.P.A., University of Southern California.
- Reinholz, Randy (1997)** ..... *Professor of Theatre, Television, and Film*  
B.A., William Jewell College; M.F.A., Cornell University.
- Reinig, Bruce A. (2000)** ..... *Professor of Information and Decision Systems*  
B.S., Truman State University; Ph.D., University of Arizona.
- Renegar, Valerie R. (2000)** ..... *Associate Professor of Communication*  
B.A., University of Notre Dame; M.A., Kansas State University; Ph.D., University of Kansas.
- Rewoldt, Todd (2005)** ..... *Assistant Professor of Music*  
B.M., University of Toledo; M.M., D.M.A., Eastman School of Music.
- Reyes, Rogelio (1986)** ..... *Professor of Linguistics, Imperial Valley Campus*  
B.A., Mexico City College; Ph.D., Harvard University.
- Rhine, Lawrence C. (1987)** ..... *Associate Professor of Management*  
B.S., M.B.A., University of Missouri; Ph.D., Northwestern University.
- Ricketts, Dawn T. (2007)** ..... *Assistant Professor of Naval Science*  
B.A., University of San Diego.
- Rikard, Jennifer (2001)** ..... *Therapist, Counseling and Psychological Services*  
B.A., George Washington University; M.A., Ph.D., California School of Professional Psychology.
- Riley, Edward P. (1988)** ..... *Professor of Psychology*  
B.A., Rutgers University; M.Sc., Ph.D., Tulane University.
- Riley, Erin P. (2006)** ..... *Assistant Professor of Anthropology*  
B.A., Beloit College; Ph.D., University of Georgia.
- Ritblatt, Shulamit N. (1994)** ..... *Associate Professor of Child and Family Development*  
B.A., M.A., Tel-Aviv University, Israel; Ph.D., Florida State University.
- Rivera, Eric Mario (1997)** ..... *Associate Vice President for Student Affairs Budget and Administration*  
M.P.A., City University of New York, Baruch College.
- Roberts, Michael J. (2004)** ..... *Assistant Professor of Sociology*  
B.A., San Jose State University; M.A., Ph.D., The City University of New York.
- Roberts, Thomas W. (1999)** ..... *Professor of Child and Family Development*  
B.A., Birmingham-Southern College; M.Div., Emory University; Ed.S., Georgia State University; Ph.D., University of Georgia.
- Robinett, E. Jane (1993)** ..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., Goshen College; M.A., Ph.D., University of Notre Dame.
- Robinson, Gail L. (1989)** ..... *Professor of Spanish and Linguistics*  
B.A., Boston University; M.A., University of Hawaii; Ph.D., Stanford University.
- Robinson, Linda (2007)** ..... *Associate Professor of Nursing*  
B.S.N., University of Rochester; M.S.N., Ph.D., University of Pennsylvania.
- Robinson-Zañartu, Carol A. (1980)** ..... *Professor of Counseling and School Psychology*  
A.B., West Virginia Wesleyan College; M.Ed., Boston University; Ph.D., University of Pittsburgh.
- Roch, Marie A. (2001)** ..... *Associate Professor of Computer Science*  
B.A., University of Texas at Austin; M.S., University of Illinois at Urbana-Champaign; Ph.D., University of Iowa.
- Rockwell, Thomas K. (1983)** ..... *Professor of Geological Sciences*  
B.S., University of Nevada; Ph.D., University of California, Santa Barbara.
- Rodriguez, Alberto J. (2002)** ..... *Professor of Policy Studies in Language and Cross-Cultural Education*  
B.S., University of New Brunswick; B.Ed., University of Lethbridge; Ph.D., University of British Columbia.
- Rodriguez-Valls, Fernando (2007)** ..... *Assistant Professor of Teacher Education, Imperial Valley Campus*  
B.A., University of Barcelona; M.A., Ph.D., Claremont Graduate University.



## Tenured and Tenured-Track Faculty

- Roeder, Stephen B. W. (1968)** ..... *Dean, Imperial Valley Campus; Professor of Physics and Chemistry and Biochemistry*  
A.B., Dartmouth College; Ph.D., University of Wisconsin.
- Roesch, Scott C. (2002)** ..... *Associate Professor of Psychology*  
B.S., University of California, Davis; M.A., California State University, Long Beach; Ph.D., University of Nebraska, Lincoln.
- Rohwer, Forest (2003)** ..... *Professor of Biology*  
B.A., Albion College; Ph.D., San Diego State University.
- Root, William A. (1998)** ..... *Resident Software Specialist in Computer Science*  
B.A., M.S., San Diego State University.
- Ross, Donna L. (1998)** ..... *Associate Professor of Teacher Education*  
B.A., Lewis and Clark College; M.S., San Diego State University; Ph.D., University of Washington.
- Rothblum, Esther D. (2005)** ..... *Professor of Women's Studies*  
B.A., Smith College; M.S., Ph.D., Rutgers, The State University of New Jersey.
- Roush, Sally F. (1982)** ..... *Vice President for Business and Financial Affairs*  
B.A., University of Denver.
- Rowe, Mathew (2009)** ..... *Assistant Professor of Music and Dance*  
B.S., City University London and Guildhall School of Music and Drama; M.M., The Peabody Institute of the Johns Hopkins University.
- Rudatsikira, Emmanuel (2008)** ..... *Associate Professor of Public Health*  
M.A., Dr.P.H., Loma Linda University.
- Ryan, Lori V. (2001)** ..... *Professor of Management*  
B.A., University of Washington; M.B.A., University of Puget Sound; Ph.D., University of Washington.
- Ryan, Sherry (2002)** ..... *Associate Professor of Public Affairs*  
B.A., Princeton University; M.S., Ph.D., University of California, Irvine.
- Rybakova, Maria (2007)** ..... *Assistant Professor of Classics and Humanities*  
M.A., Institut fuer Altphilologie; Ph.D., Yale University.
- Saarmann, Lembi (1986)** ..... *Associate Professor of Nursing*  
B.S.N., M.S.N., Adelphi University; Ed.D., Teachers College, Columbia University.
- Sabath, Michael J. (1993)** ..... *Associate Professor of Public Affairs, Imperial Valley Campus*  
B.S., University of California, Berkeley; M.P.A., California State University, Chico; Ph.D., University of Pittsburgh.
- Saccarelli, Emanuele G. (2005)** ..... *Assistant Professor of Political Science*  
B.A., Wayne State University; Ph.D., University of Minnesota.
- Sacco, Steven J. (1997)** ..... *Professor of French*  
B.A., Western Illinois University; M.A.T., University of Illinois at Urbana-Champaign; Ph.D., The Ohio State University.
- Saccuzzo, Dennis P. (1975)** ..... *Professor of Psychology*  
A.B., Sonoma State University; M.A., Ph.D., Kent State University; J.D., California Western School of Law.
- Sadler, Melody S. (2007)** ..... *Assistant Professor of Psychology*  
B.A., Southern Illinois University; M.A., Ph.D., University of Colorado, Boulder.
- Saghafi, Massoud M. (1987)** ..... *Professor of Marketing*  
B.A., National University of Iran; M.A., Ph.D., University of Southern California.
- Sakai, Carrie (2004)** ..... *Therapist, Counseling and Psychological Services*  
B.A., San Francisco State University; Psy.D., California School of Professional Psychology.
- Salamon, Peter (1980)** ..... *Professor of Mathematics*  
A.B., Lindenwood College; M.S., Drexel University; Ph.D., University of Chicago.
- Salehizadeh, Mehdi (1980)** ..... *Professor of Finance*  
B.S., M.B.A., Ph.D., University of Wisconsin.
- Salem, Linda (2002)** ..... *Associate Librarian*  
B.A., Wichita State University; M.L.S., Emporia State University; M.Ed., University of Redlands.
- Sallis, James F., Jr. (1983)** ..... *Professor of Psychology*  
B.S., Belhaven College; M.S., Ph.D., Memphis State University.
- Samraj, Betty T.R. (1997)** ..... *Associate Professor of Linguistics*  
B.A., M.A., National University of Singapore; Ph.D., University of Michigan.
- Sandback, Patricia R. (1974)** ..... *Professor of Dance*  
B.S., University of Minnesota; M.A., San Diego State University; M.F.A., University of California, Irvine.
- Sandquist, Eric L. (1999)** ..... *Professor of Astronomy*  
B.A., University of Virginia; M.S., Ph.D., University of California, Santa Cruz.
- Santa Cruz, Rafaela M. (1980)** ..... *Associate Professor of Teacher Education*  
B.S., M.S., University of Southern California; Ph.D., University of Arizona.
- Sargent, Paul W. (1994)** ..... *Associate Professor of Sociology*  
B.A., National University; M.A., San Diego State University; Ph.D., University of Southern California.
- Sarkar, Mahawseta (2006)** ..... *Assistant Professor of Electrical and Computer Engineering*  
B.S., San Diego State University; M.S., Ph.D., University of California, San Diego.
- Sasidharan, Vinod (2001)** ..... *Associate Professor of Hospitality and Tourism Management*  
Diploma, Institute of Hotel Management, Bombay, India; M.Soc.Sci., University of Birmingham, England; Ph.D., Pennsylvania State University.
- Savage, Stephen M. (2003)** ..... *Librarian*  
B.M., Illinois Wesleyan University; M.M., M.L.S., University of Kentucky.
- Sax, Caren L. (1991)** ..... *Professor of Administration, Rehabilitation and Postsecondary Education*  
B.S., Northern Illinois University; M.S., University of Arizona; Ed.D., University of San Diego.
- Schellenberg, Stephen A. (2002)** ..... *Associate Professor of Geological Sciences*  
B.A., University of Southern California; M.S., Ph.D., University of South Florida.
- Schmitz Weiss, Amy (2008)** ..... *Assistant Professor of Journalism and Media Studies*  
B.A., Butler University; M.A., Ph.D., University of Texas at Austin.
- Schorr, James L. (1983)** ..... *Professor of French*  
B.A., M.A., Ph.D., University of Texas at Austin.
- Schreiber, Loren P. (1994)** ..... *Professor of Theatre, Television, and Film*  
B.A., M.A., Louisiana State University; M.F.A., San Diego State University.
- Schreiber, Ronnee D. (2002)** ..... *Associate Professor of Political Science*  
B.A., University of Pennsylvania; M.A., George Washington University; Ph.D., Rutgers, The State University of New Jersey.
- Sciglimpaglia, Donald (1977)** ..... *Professor of Marketing*  
B.S.I.E., University of Florida; M.S., University of West Florida; D.B.A., University of Colorado, Boulder.
- Scott, Bonnie K. (2001)** ..... *Professor of Women's Studies*  
B.A., Wellesley College; M.A., Ph.D., University of North Carolina at Chapel Hill.
- Scott, Thomas R. (2000)** ..... *Vice President for Research and Dean, Graduate Division; Professor of Psychology*  
B.A., Princeton University; Ph.D., Duke University.
- Segall, Anca Mara (1994)** ..... *Professor of Biology*  
B.S., University of Maryland; Ph.D., University of Utah.
- Seidman, Robert L. (1981)** ..... *Associate Professor of Public Health*  
A.B., San Diego State University; M.A., Ph.D., Johns Hopkins University.
- Seiters, Leslie (2006)** ..... *Assistant Professor of Dance*  
B.A., Kenyon College; M.F.A., The Ohio State University.
- Serrato, Phillip (2005)** ..... *Assistant Professor of English and Comparative Literature*  
B.A., M.A., Ph.D., University of California, Riverside.
- Seshagiri, Sridhar (2003)** ..... *Associate Professor of Electrical and Computer Engineering*  
B.Tech., Indian Institute of Technology; M.S.E.E., Ph.D., Michigan State University.
- Sevier, E. Dale (2000)** ..... *Director, Center for Bio/Pharmaceutical and Biodevice Development*  
B.A., University of California, Riverside; M.A., San Diego State University; Ph.D., University of California, Riverside.
- Sha, Bey-Ling (2004)** ..... *Associate Professor of Journalism and Media Studies*  
B.A., Purdue University; M.A., Ph.D., University of Maryland, College Park.
- Shaffer, Richard A. (2000)** ..... *Professor of Public Health*  
B.A., Jacksonville University; M.P.H., Ph.D., University of South Carolina.
- Shafter, Allen W. (1989)** ..... *Professor of Astronomy*  
B.A., University of California, Irvine; M.A., Ph.D., University of California, Los Angeles.
- Shahriar, Quazi (2007)** ..... *Assistant Professor of Economics*  
B.S.S., University of Dhaka, Bangladesh; M.A., Ph.D., University of Arizona.
- Shapiro, Lewis P. (1995)** ..... *Professor of Speech, Language, and Hearing Sciences*  
B.A., University of Florida; M.A., Memphis State University; Ph.D., Brandeis University.
- Shapovalov, Veronica (1988)** ..... *Professor of Russian*  
Diploma, Leningrad State University; M.A., Sangamon State University; Ph.D., University of Illinois at Urbana-Champaign.
- Sharma, Satish Kumar (2006)** ..... *Assistant Professor of Electrical and Computer Engineering*  
B. Tech., B.Sc., K. J. Somaiya Institute of Technology, India; Ph.D., Banaras Hindu University, India.
- Shelley, Aaron P. (2005)** ..... *Assistant Professor of Naval Science*  
B.S., United States Naval Academy.
- Shen, Hongmei (2009)** ..... *Assistant Professor of Journalism and Media Studies*  
B.A., Renmin University of China; M.A., Ph.D., University of Maryland.
- Shen, Samuel S.P. (2006)** ..... *Professor of Mathematics*  
B.Sc., Nanjing University of Science and Technology; M.A., Ph.D., University of Wisconsin, Madison.
- Sherman, Sandra Lee (2006)** ..... *Associate Professor of Art, Design, and Art History*  
B.F.A., Temple University; M.F.A., Munich Academy of Fine Arts.
- Shillington, Audrey M. (1997)** ..... *Professor of Social Work*  
B.A., Drury College; M.S.W., M.P.E., Ph.D., Washington University.

- Shin, Bongsik (1999)**.....*Professor of Information and Decision Systems*  
B.A., Sogang University; M.S., Bernard M. Baruch College, The City University of New York; Ph.D., University of Arizona.
- Shojai, Mary (1968)**.....*Director, Student Disability Services, Student Affairs*  
B.A., Macalester College; M.P.A., San Diego State University.
- Shore, Lynn M. (2004)**.....*Professor of Management*  
B.A., University of Oregon; M.S., Ph.D., Colorado State University.
- Shuckett, Susan L. (1988)**.....*Director, Student Rights and Responsibilities, Student Affairs*  
B.A., California State University, Long Beach; M.A., California State University, Northridge; M.A., Ph.D., University of Southern California.
- Shumaker, Jeanette (1992)**.....*Professor of English, Imperial Valley Campus*  
B.A., University of Redlands; M.A., Ph.D., Claremont Graduate University.
- Simas, Rick A. (1992)**.....*Lecturer in Theatre, Television, and Film*  
B.A., San Francisco State University; M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley.
- Simmons, Roger (1976)**.....*Professor of Exercise and Nutritional Sciences*  
M.S., University of Wyoming; Ph.D., University of Iowa.
- Simpson, Michael G. (1986)**.....*Professor of Biology*  
B.S., University of Florida; M.S., University of North Carolina; Ph.D., Duke University.
- Singer, Ethan A. (1979)**.....*Associate Vice President for Academic Affairs; Professor of Business Administration and Public Affairs*  
A.B., University of Connecticut; M.P.A., Ph.D., University of Southern California.
- Singh, Gangaram (1999)**.....*Professor of Management*  
B.Comm., University of Windsor, Canada; M.B.A., M.I.R., Ph.D., University of Toronto.
- Singh, Kathryn (2008)**.....*Assistant Professor of Educational Leadership*  
B.A., University of Massachusetts Amherst; M.A., San Jose State University; Ed.D., University of Texas at Austin.
- Sinha, Usha (2007)**.....*Professor of Physics*  
B.S., Osmania University; M.S., Indian Institute of Technology; Ph.D., Indian Institute of Science, Bangalore.
- Siprut, Mark J. (1989)**.....*Associate Professor of Art, Design, and Art History*  
B.A., M.A., Humboldt State University; M.F.A., University of California, Santa Barbara.
- Skupin, André (2005)**.....*Associate Professor of Geography*  
Dipl., Technical University of Dresden; Ph.D., State University of New York at Buffalo.
- Skwara, Erich W. (1986)**.....*Professor of Humanities and German*  
B.A., University of Linz; M.A., University of Salzburg; Ph.D., State University of New York at Albany.
- Slymen, Donald J. (1988)**.....*Professor of Public Health*  
A.B., University of California, Berkeley; M.S., University of California, Los Angeles; Ph.D., University of Iowa.
- Smarandache, Roxana N. (2001)**.....*Associate Professor of Mathematics*  
B.S., University of Bucharest; M.S., Ph.D., University of Notre Dame.
- Smigel, Eric S. (2008)**.....*Assistant Professor of Music*  
B.M., San Diego State University; M.A., Ph.D., University of Southern California.
- Smith, Diane K. (1990)**.....*Associate Professor of Chemistry and Biochemistry*  
B.S., Lewis and Clark College; Ph.D., Massachusetts Institute of Technology.
- Smith, Joseph A. (1997)**.....*Associate Professor of Classics*  
B.A., University of Rochester; M.A., University of California, Berkeley; Ph.D., University of Southern California.
- Smith, Linda D. (1996)**.....*Therapist, Counseling and Psychological Services*  
B.S., M.A., University of California, Irvine; Ph.D., University of Southern California.
- Smith, Nicole (2009)**.....*Assistant Professor of Exercise and Nutritional Sciences*  
B.S., University of Nevada, Reno; M.S., Ph.D., University of Nevada, Las Vegas.
- Snavey, William B. (2007)**.....*Professor of Communication*  
B.S., Illinois State University; M.A., West Virginia University; Ph.D., University of Nebraska.
- Snyder, Willard S., Jr. (1984, except S'85)**.....*Clinical Scholar in Accountancy*  
B.S., M.B.A., University of Southern California.
- Sobo, Elisa J. (2005)**.....*Professor of Anthropology*  
B.A., University of California, Los Angeles; Ph.D., University of California, San Diego.
- Song, Moon H. (1988)**.....*Professor of Finance*  
B.B.A., Seoul National University; M.A., Ph.D., The Ohio State University.
- Spilde Contreras, Katherine (2008)**... *Associate Professor of Hospitality and Tourism Management*  
B.A., University of Hawaii; M.A., George Washington University; Ph.D., University of California, Santa Cruz.
- Spitzberg, Brian H. (1989)**.....*Professor of Communication*  
B.A., University of Texas at Arlington; M.A., Ph.D., University of Southern California.
- Stampfl, Barry G. (1982)**.....*Associate Professor of English, Imperial Valley Campus*  
B.A., Yale University; M.A., University of New Mexico; Ph.D., University of California, Santa Barbara.
- Stampfl, Ronald W. (1988)**.....*Professor of Marketing*  
B.B.A., M.B.A., University of Wisconsin, Milwaukee; Ph.D. University of Wisconsin, Madison.
- Starck, Tanis (2006)**.....*Director, Intercultural Relations and Cross-Cultural Center, Student Affairs*  
B.A., Mills College; M.A., California State University, East Bay; Ph.D., Howard University.
- Steffey, Duane L. (1988)**.....*Professor of Statistics*  
B.S., M.S., Ph.D., Carnegie-Mellon University.
- Stein, Louisa E. (2006)**.....*Assistant Professor of Theatre, Television, and Film*  
B.A., University of Massachusetts; M.A., Ph.D., New York University.
- Sterk, William E. (1978)**.....*Professor of Finance*  
B.S.E., University of Michigan; M.B.A., Ph.D., University of Wisconsin.
- Stewart, Kris W. (1984)**.....*Professor of Computer Science*  
B.A., University of California, San Diego; M.S., San Diego State University; Ph.D., University of New Mexico.
- Stichler, Jaynelle F. (2006)**.....*Professor of Nursing*  
B.S.N., M.S.N., University of Arizona; D.N.Sc., University of San Diego.
- Stock, Robert L. (1975)**.....*Associate Professor of Public Affairs*  
A.B., M.P.A., Ph.D., University of Pittsburgh.
- Stoskopf, Carleen H. (2007)**.....*Professor of Public Health*  
B.S., Valparaiso University; M.S., University of Minnesota; Sc.D., The Johns Hopkins University.
- Stover, Mark (1999)**.....*Interim Associate Dean, Library and Information Access*  
B.A., Biola University; M.A., Westminster Theological Seminary; M.L.S., University of California, Los Angeles; Ph.D., Nova Southeastern University.
- Stow, Douglas A. (1983)**.....*Professor of Geography*  
B.A., M.A., Ph.D., University of California, Santa Barbara.
- Stringfellow, Kim (2001)**.....*Associate Professor of Art, Design, and Art History*  
B.F.A., Academy of Art College; M.F.A., The School of the Art Institute of Chicago.
- Stumph, William E. (1983)**.....*Professor of Chemistry and Biochemistry*  
B.S., Purdue University; Ph.D., California Institute of Technology.
- Su, Julie C. (2001)**.....*Librarian*  
B.A., National Taiwan University; M.L.S., University of California, Berkeley.
- Sullivan, Patrick (2000)**.....*Associate Librarian*  
B.A., California Polytechnic State University; M.L.I.S., San Jose State University.
- Sundaramurthy, Chamundeswari (2003)**.....*Professor of Management*  
B.A., University of Madras, India; M.B.A., Iowa State University; Ph.D., University of Illinois at Urbana-Champaign.
- Supernak, Janusz C. (1984)**.....*Professor of Civil, Construction, and Environmental Engineering*  
B.S., M.S., Ph.D., Technical University of Warsaw.
- Sussman, Mark A. (2002)**.....*Professor of Biology*  
B.S., University of California, Davis; M.S., California State University, Northridge; Ph.D., University of Southern California.
- Sutton, L. Paul (1981)**.....*Professor of Public Affairs*  
B.A., University of Kansas; M.A., Ph.D., State University of New York.
- Swanson, Katherine Elizabeth (2008)**.....*Assistant Professor of Geography*  
B.A., M.A., University of Guelph; Ph.D., University of Toronto.
- Sweedler, Alan R. (1980)**.....*Assistant Vice President for International Programs; Professor of Physics*  
B.S.C., The City University of New York; Ph.D., University of California, San Diego.
- Swiniarski, Roman W. (1988)**.....*Professor of Computer Science*  
M.S., Ph.D., Warsaw Technical University.
- Szeto, Andrew Y. J. (1983)**.....*Professor of Electrical and Computer Engineering*  
B.S., University of California, Los Angeles; M.S.E.E., M.E.E.E., University of California, Berkeley; Ph.D., University of California, Los Angeles. Registered Professional Engineer.
- Talavera, Gregory A. (1994)**.....*Professor of Public Health*  
B.A., M.P.H., San Diego State University; M.D., University of Utah.
- Tanimura, Joseph K. (2006)**.....*Assistant Professor of Finance*  
B.S., J.D., University of Southern California; Ph.D., University of Washington.
- Tarbox, James J. (2006)**.....*Director, Career Services, Student Affairs*  
B.A., Bates College; M.A., Ph.D., Pennsylvania State University.
- Tarokh, Mahmoud (1990)**.....*Professor of Computer Science*  
B.S., Tehran Polytechnic Institute; M.S., University of Birmingham; Ph.D., University of New Mexico.
- Taylor, Brent A. (2000)**.....*Associate Professor of Counseling and School Psychology*  
B.S., Brigham Young University; M.A., Ph.D., University of Southern California.
- Testa, Mark (2001)**.....*Professor of Hospitality and Tourism Management*  
B.P.S., New York Institute of Technology; M.A., State University of New York at Stony Brook; Ph.D., Barry University.
- Thayer, Mark A. (1981)**.....*Professor of Economics*  
B.A., Ph.D., University of New Mexico.

## Tenured and Tenured-Track Faculty

- Thomas, Jennifer D. (2000)**..... *Professor of Psychology*  
B.S., Iowa State University; M.A., Ph.D., University of Iowa.
- Thomas, Joseph T., Jr. (2007)**.....*Assistant Professor of English*  
B.A., M.A., Georgia Southern University; Ph.D., Illinois State University.
- Thomason, Diane (2008)**.....*Assistant Professor of Nursing*  
B.S., M.N., Ph.D., University of Washington.
- Thompson, Richard (2001)**..... *Associate Professor of Music*  
B.M., Edinburgh University; M.M., Rutgers, The State University of New Jersey.
- Thorbjarnarson, Kathryn W. (1991)**..... *Associate Professor of Geological Sciences*  
B.S., University of Rochester; M.S., North Carolina State University; Ph.D., University of California, Los Angeles.
- Timalsina, Sthaneshwar (2005)**..... *Associate Professor of Religious Studies*  
B.A., Mahendra Sanskrit University; M.A., Sampurnananda Sanskrit University; Ph.D., Martin Luther University, Germany.
- Timm, Randall W. (2003)**.....*Director, Residential Education, Student Affairs*  
B.S., M.S., University of Kansas.
- Todero, Catherine M. (2006)**..... *Professor of Nursing*  
B.S.N., Creighton University; M.S.N., University of Nebraska Medical Center; Ph.D., University of Nebraska, Lincoln.
- Tong, William G. (1985)**..... *Professor of Chemistry and Biochemistry*  
B.S., Mandalay University; Ph.D., Iowa State University.
- Toombs, Charles P. (1991)**.....*Associate Professor of Africana Studies*  
B.A., M.A., M.S., Ph.D., Purdue University.
- Torikachvili, Milton S. (1987)**..... *Professor of Physics*  
B.S., Rio Grande do Sul University, Brazil; M.S., Ph.D., Campinas State University, Brazil.
- Torre, Peter, III (2003)**.....*Associate Professor of Speech, Language, and Hearing Sciences*  
B.A., University of California, Santa Barbara; M.A., California State University, Long Beach; Ph.D., University of Wisconsin, Madison.
- Tsou, Ming-Hsiang (2000)**..... *Associate Professor of Geography*  
B.S., National Taiwan University; M.A., State University of New York at Buffalo; Ph.D., University of Colorado.
- Tsoukas, Constantine (1986)**.....*Professor of Biology*  
B.S., University of San Francisco; Ph.D., University of California, San Francisco.
- Tuba, Imre (2006)**.....*Assistant Professor of Mathematics, Imperial Valley Campus*  
A.B., Harvard University; Ph.D., University of California, San Diego.
- Tumlin, Markel D. (1998)**..... *Associate Librarian*  
B.A., M.A., M.S.L.S., University of Kentucky.
- Tummala, R. Lal (2002)**.....*Professor of Electrical and Computer Engineering*  
B.Sc., Andhra University; M.Tech., Indian Institute of Technology; Ph.D., Michigan State University.
- Turhollow, C. Anne (1982)**..... *Librarian*  
B.S., Loyola Marymount University; M.S., Stanford University; M.L.I.S., University of California, Berkeley.
- Twenge, Jean M. (2001)**..... *Professor of Psychology*  
B.A., M.A., University of Chicago; Ph.D., University of Michigan.
- Tyagi, Pradeep K. (1982)**..... *Professor of Marketing*  
B.S., Jiwaji University, India; M.S., M.B.A., Ph.D., University of Missouri.
- Uline, Cynthia L. (2005)**..... *Professor of Educational Leadership*  
B.S., State University of New York College at Oswego; M.S., Syracuse University; Ph.D., Pennsylvania State University.
- Ulloa, Emilio C. (2003)**..... *Resident Adviser in Psychology*  
B.A., San Diego State University; M.A., Ph.D., Arizona State University.
- Unsworth, Sara J. (2008)**.....*Assistant Professor of Psychology*  
B.A., M.Sc., University of Calgary; Ph.D., Northwestern University.
- Usita, Paula M. (2001)**..... *Associate Professor of Public Health*  
B.A., University of Puget Sound; M.S., Western Washington University; Ph.D., Virginia Polytechnic Institute and State University.
- Valafar, Faramarz (2001)**..... *Associate Professor of Computer Science*  
Verdiplom, Kaiserslautern University; M.S., Michigan Technological University; Ph.D., Purdue University.
- Valdes, Julio R. (2002)**..... *Associate Professor of Civil, Construction, and Environmental Engineering*  
B.S.C.E., M.S.C.E., Ph.D., Georgia Institute of Technology. Registered Professional Engineer.
- Valles, Eugene C. (1993)**..... *Associate Professor of Special Education*  
B.A., M.A., Ph.D., University of New Mexico.
- van der Geer, Peter (2006)**..... *Associate Professor of Chemistry and Biochemistry*  
B.S., Ph.D., University of Amsterdam.
- Varadarajan, Latha (2005)**..... *Assistant Professor of Political Science*  
B.A., Ethiraj College for Women; M.A., Jawaharlal Nehru University; Ph.D., University of Minnesota.
- Varaiya, Nikhil P. (1988)**..... *Professor of Finance*  
B.S., Bombay University; M.B.A., Ph.D., University of Washington.
- Vasquez, Gladimiro (2005)**..... *Assistant Professor of Military Science*  
B.A., San Diego State University.
- Vaughn, Allison A. (2008)**..... *Assistant Professor of Psychology*  
B.A., California State Polytechnic University; M.A., San Diego State University; Ph.D., University of Utah.
- Velasquez, Roberto J. (1987)**..... *Associate Professor of Psychology*  
B.A., University of California, Riverside; M.S., Harvard University; Ph.D., Arizona State University.
- Venkataraman, Satchi (2002)**..... *Associate Professor of Aerospace Engineering and Engineering Mechanics*  
B.E., Anna University, India; M.S., Clemson University; Ph.D., University of Florida.
- Verity, Larry S. (1984)**..... *Professor of Exercise and Nutritional Sciences*  
B.S., State University of New York, Cortland; M.Ed., University of Virginia; Ph.D., Purdue University.
- Verzi, Diana W. (2001)**..... *Associate Professor of Mathematics, Imperial Valley Campus*  
B.A., San Diego State University; M.A., Arizona State University; Ph.D., Claremont Graduate University.
- Vuskovic, Marko I. (1986)**..... *Professor of Computer Science*  
B.S., M.S., University of Belgrade; Ph.D., University of Zagreb.
- Walker, Carolyn L. (1986)**..... *Professor of Nursing*  
B.S.N., California State University, Fullerton; M.S.N., California State University, Los Angeles; Ph.D., University of Utah.
- Walsh, Kenneth D. (2002)**..... *The AGC Paul S. Roel Chair in Construction Engineering and Management; Professor of Civil, Construction, and Environmental Engineering*  
B.S.E., M.S., Ph.D., Arizona State University. Registered Professional Engineer.
- Wang, Minjuan (2000)**..... *Associate Professor of Educational Technology*  
B.A., Peking University; M.A., Pennsylvania State University; Ph.D., University of Missouri-Columbia.
- Waters, Elizabeth R. (2002)**..... *Associate Professor of Biology*  
B.A., Grinnell College; M.S., North Carolina State University; Ph.D., Washington University.
- Waters, Joseph (2001)**..... *Professor of Music*  
B.A., University of Minnesota; M.M., Yale University; Ph.D., University of Oregon.
- Wauchope, Mary M. (1989)**..... *Associate Professor of German*  
B.A., M.A., University of California, Riverside; Ph.D., University of California, Berkeley.
- Wawrytko, Sandra A. (2003)**..... *Associate Professor of Philosophy*  
B.A., Knox College; M.A., Ph.D., Washington University.
- Weber, Fridolin (2003)**..... *Professor of Physics*  
M.S., Ph.D., University of Munich, Germany.
- Weber, Shirley N. (1972)**..... *Professor of Africana Studies*  
A.B., M.A., Ph.D., University of California, Los Angeles.
- Weeks, John R. (1974)**..... *Professor of Geography*  
A.B., M.A., Ph.D., University of California, Berkeley.
- Weersing, V. Robin (2006)**..... *Assistant Professor of Psychology*  
B.S., Linfield College; M.A., Ph.D., University of California, Los Angeles.
- Weinberg, Marsha (1994)**..... *Therapist, Counseling and Psychological Services*  
B.A., University of Minnesota; M.A., San Diego State University.
- Welsh, William F. (2000)**..... *Associate Professor of Astronomy*  
B.S., State University of New York at Stony Brook; Ph.D., The Ohio State University.
- Werry, Christopher (2000)**..... *Associate Professor of Rhetoric and Writing Studies*  
B.A., Victoria University of Wellington; M.A., Ph.D., Carnegie Mellon University.
- Westermo, Bruce D. (1980)**..... *Professor of Civil, Construction, and Environmental Engineering*  
B.S., Illinois Institute of Technology; M.S., Ph.D., California Institute of Technology.
- Weston, Charles (2006)**..... *Associate Librarian*  
B.A., B.S., M.L.S., Louisiana State University.
- Weston, Thomas S. (1974)**..... *Professor of Philosophy*  
S.B., Ph.D., Massachusetts Institute of Technology.
- Wheeler, Mark R. (1995)**..... *Associate Professor of Philosophy*  
B.A., Colgate University; M.A., Ph.D., University of Rochester.
- White, Phillip M. (1985)**..... *Librarian*  
B.A., University of Houston; M.L.S., University of Texas.
- Whitney, Roger E. (1985)**..... *Associate Professor of Computer Science*  
B.S., North Dakota State University; Ph.D., University of California, San Diego.
- Whittenburg, Gerald E. (1976)**..... *Professor of Accountancy*  
B.S., M.S., Ph.D., University of Houston. Certified Public Accountant.
- Wiese, Andrew (1996)**..... *Professor of History*  
B.A., University of Iowa; M.A., Ph.D., Columbia University.

- Williams, Kathy S. (1987)**..... Associate Professor of Biology  
B.A., University of Texas at Austin; Ph.D., Stanford University.
- Williams, Sandra L. (2006)**..... Assistant Dean for Student Affairs; Director, Business Advising Center, College of Business Administration  
B.A., M.S., University of Nevada, Las Vegas.
- Williams, Stephen J. (1980)**..... Associate Dean, College of Health and Human Services; Professor of Public Health  
B.S., Carnegie-Mellon University; M.S., Massachusetts Institute of Technology; S.M., Sc.D., Harvard University.
- Williams, Terry A. (1986)**..... Lecturer in Rhetoric and Writing Studies  
B.A., College of Wooster; M.A., San Diego State University.
- Wilson, Leslie A. (2001)**..... Therapist, Counseling and Psychological Services  
B.A., San Diego State University; Ph.D., California School of Professional Psychology, San Diego.
- Wilson, Thomas E. (2001)**..... Interim Director, Student Health Services  
B.B.A., M.S.O.D., Eastern Michigan University.
- Wolf, R. Craig (1987)**..... Professor of Theatre, Television, and Film  
B.A., Knox College; M.F.A., Stanford University.
- Wolkowicz, Roland (2006)**..... Assistant Professor of Biology  
B.S., M.S., Tel Aviv University, Israel; Ph.D., Weizmann Institute of Science, Israel.
- Wong, Paul (2003)**..... Dean, College of Arts and Letters; Professor of Sociology  
B.A., M.A., Ph.D., University of California, Berkeley.
- Woodruff, Susan (2008)**..... Professor of Social Work  
B.A., University of Texas at El Paso; M.A., San Diego State University; Ph.D., San Diego State University and University of California, San Diego.
- Woolley, Mark S. (2007)**..... Professor of Naval Science  
B.S., Villanova University; M.S., Naval Postgraduate School; M.A., Naval War College.
- Wu, Ruey-Jiuan Regina (1999)**..... Associate Professor of Linguistics and Asian/Middle Eastern Languages  
B.A., National Taiwan Normal University; M.A., University of Washington; Ph.D., University of California, Los Angeles.
- Wulfeck, Beverly B. (1994)**..... Professor of Speech, Language, and Hearing Sciences  
B.A., M.A., University of California, Santa Barbara; Ph.D., University of California, San Diego.
- Wulfemeyer, K. Tim (1976, except F'80-S'87)**..... Professor of Journalism and Media Studies  
A.B., San Diego State University; M.S., Iowa State University; Ed.D., University of California, Los Angeles.
- Xie, Tao (2006)**..... Assistant Professor of Computer Science  
B.E., Anhui Institute of Technology; M.E., Hefei University of Technology; Ph.D., New Mexico Institute of Mining and Technology.
- Yang, Yeongling Helio (1988)**..... Professor of Information and Decision Systems  
B.A., Cheng-Kung University, Taiwan; M.S., Ph.D., University of Florida.
- Yanguas, Inigo A. (2007)**..... Assistant Professor of Spanish  
Lic., University of Granada; M.A., Louisiana State University; Ph.D., Georgetown University.
- Yapelli, Tina Marie (1985)**..... Professor of Art, Design, and Art History  
B.A., Loyola Marymount University; M.A., California State University, Fullerton.
- Yeager, Bill (1985)**..... Professor of Music  
B.M., M.M., North Texas State University.
- Yeh, Chiou-Ling (2002)**..... Associate Professor of History  
B.A., National Chengchi University; M.A., Michigan State University; Ph.D., University of California, Irvine.
- Yeh, May (2001)**..... Associate Professor of Psychology  
B.A., M.A., Ph.D., University of California, Los Angeles.
- Yu, Elena S.H. (1990)**..... Professor of Public Health  
M.S., University of Notre Dame; M.P.H., Columbia University in the City of New York; Ph.D., University of Notre Dame.
- Zayas, Ricardo (2008)**..... Assistant Professor of Biology  
B.S., Fairfield University; Ph.D., Tufts University.
- Zeller, Robert W. (2001)**..... Associate Professor of Biology  
B.A., Boston University; Ph.D., California Institute of Technology.
- Zhang, Sheldon X. (2002)**..... Professor of Sociology  
B.A., Sichuan University, China; M.A., Ph.D., University of Southern California.
- Zhang, Zheng-sheng (1990)**..... Associate Professor of Chinese  
B.A., Beijing Teacher's College, Peoples Republic of China; M.A., Ph.D., The Ohio State University.
- Zheng, Congcong (2005)**..... Assistant Professor of Management  
B.E., University of International Business and Economics, Beijing; Ph.D., University of London.
- Zhong, Mei (1999)**..... Associate Professor of Journalism and Media Studies  
B.A., University of Guam; M.A., Southern Illinois University; Ph.D., Kent State University.
- Zimmerman, Bonnie S. (1978)**..... Associate Vice President for Faculty Affairs; Professor of Women's Studies  
A.B., Indiana University; Ph.D., State University of New York at Buffalo.
- Zozakiewicz, Cathy (2003)**..... Associate Professor of Teacher Education  
B.A., M.A., Beloit College; Ph.D., University of Wisconsin, Madison.

# Emeritus Faculty

Day, Thomas B., Ph.D. (1978-1996) .....	<i>Professor of Physics</i>
Golding, Brage, Ph.D., President (1972-1977) .....	<i>Professor of Chemistry and Engineering</i>
Abbott, Mitchel T., Ph.D. (1964-1992) .....	<i>Professor of Chemistry</i>
Abbott, Patrick L., Ph.D. (1971-2003) .....	<i>Professor of Geological Sciences</i>
Abut, Hüseyin, Ph.D. (1981-2001) .....	<i>Professor of Electrical and Computer Engineering</i>
Ackerly, Jr., Robert S., Ed.D. (1963-1990) .....	<i>Counselor of the University Advising Center; Professor of Teacher Education</i>
Adams, Elsie B., Ph.D. (1971-1994) .....	<i>Professor of English and Comparative Literature</i>
Adler, Renatte K., Ph.D. (1982-2009) .....	<i>Professor of Economics</i>
Ajemian, James A., Ph.D. (1970-1998) .....	<i>Assistant Professor of Social Work</i>
Akers, Fred C., Ph.D. (1966-1976) .....	<i>Associate Professor of Marketing</i>
Alexander, James V., Ph.D. (1967-1984) .....	<i>Associate Professor of Botany</i>
Alfred, Lawrence J., Ph.D. (1994-2000) .....	<i>Professor of Biology</i>
Allen, Barbara E., M.A. (1969-2001, except S'70) .....	<i>Assistant Dean for Student Affairs, College of Education</i>
Allen, Brockenbrough S., Ph.D. (1982-2008) .....	<i>Professor of Educational Technology</i>
Allen, Elizabeth J., Ph.D. (1971-2004) .....	<i>Professor of Speech, Language, and Hearing Sciences</i>
Almond, Frank W., Ph.D. (1968-2003) .....	<i>Professor of Music</i>
Altamura, Nicholas C., Ph.D. (1967-1983) .....	<i>Associate Professor of Secondary Education</i>
Anantha, Kasi, Ph.D. (1981-2004) .....	<i>Professor of Computer Science</i>
Andersen, Janis F., Ed.D. (1981-2007) .....	<i>Professor of Communication</i>
Anderson, Allan W., Ph.D. (1962-1985) .....	<i>Professor of Religious Studies</i>
Anderson, Graydon K., Ph.D. (1949-1979) .....	<i>Professor of Economics</i>
Anderson, Hayes L., Ph.D. (1966-2001) .....	<i>Associate Dean, College of Professional Studies and Fine Arts; Professor of Communication</i>
Anderson, Paul V., M.M. (1954-1983) .....	<i>Professor of Music</i>
Andrain, Charles F., Ph.D. (1964-1998) .....	<i>Professor of Political Science</i>
Angione, Ronald J., Ph.D. (1969-2004) .....	<i>Professor of Astronomy</i>
Annas, Alicia M., M.F.A. (1970-2000) .....	<i>Professor of Theatre</i>
Anthony, Sally M., Ed.D. (1965-1990) .....	<i>Professor of Educational Technology</i>
Apple, L. Eugene, Ph.D. (1985-1991) .....	<i>Assistant Professor of Marketing</i>
Atchison, Thomas J., Ph.D. (1965-1992) .....	<i>Professor of Management</i>
Atkins, Bobbie J., Ph.D. (1989-2005) .....	<i>Professor of Administration, Rehabilitation and Postsecondary Education</i>
Atkins, Michael D., Ph.D. (1970-1992) .....	<i>Professor of Biology</i>
Avila, Vernon L., Ph.D. (1973-2003) .....	<i>Associate Professor of Biology</i>
Ayala, Reynaldo, Ph.D. (1969-1996) .....	<i>Professor of Geography, Imperial Valley Campus</i>
Baase-Mayers, Sara, Ph.D. (1972-2000) .....	<i>Professor of Mathematical and Computer Sciences</i>
Babilot, George, Ph.D. (1956-1991) .....	<i>Professor of Economics</i>
Bailey, Gerald D., Ed.D. (1964-1992) .....	<i>Professor of Industrial Technology</i>
Bailey, Greg W., Ed.D. (1982-2002) .....	<i>Assistant Dean for Student Affairs, College of Engineering; Associate Professor of Electrical and Computer Engineering</i>
Baily, Kamilla U., M.S.W. (1966-1977) .....	<i>Associate Professor of Social Work</i>
Baker, James R., Ph.D. (1956-1986, except 1961-1962) .....	<i>Professor of English and Comparative Literature</i>
Baker, Richard J., M.F.A. (1978-2007) .....	<i>Professor of Art, Design, and Art History</i>
Balkwell, Carolyn K., Ph.D. (1981-2007) .....	<i>Professor of Child and Family Development</i>
Ballesteros, David, Ph.D. (1983-1998) .....	<i>Dean, Imperial Valley Campus</i>
Banks, James H., Ph.D. (1976-2009) .....	<i>Professor of Civil, Construction, and Environmental Engineering</i>
Barber, William F., Ph.D. (1959-1991) .....	<i>Director, Graduate Programs, College of Business Administration; Professor of Marketing</i>
Barckley, Robert E., Ph.D. (1955-1985) .....	<i>Professor of Economics</i>
Barclay, A. Bernice, M.A.L.S. (1962-1986) .....	<i>Associate Librarian</i>
Bar-Lev, Zev, Ph.D. (1979-2006) .....	<i>Professor of Linguistics</i>
Barnes, Alfred C., H.S.D. (1977-1981) .....	<i>Associate Professor of Health Science</i>
Barnett, Andrew H., Ph.D. (1983-2005) .....	<i>Professor of Accountancy</i>
Barnett, Carol A., Ph.D. (1971-2000) .....	<i>Professor of Biology</i>
Barone, Joan F., M.S. (1960-1992) .....	<i>Associate Professor of Physical Education</i>
Barra, Donald P., Ed.D. (1983-2000) .....	<i>Professor of Music</i>
Barrera, Ernesto M., Ph.D. (1969-1999) .....	<i>Professor of Spanish</i>
Bart, Kenneth J., M.D. (1998-2004) .....	<i>Professor of Public Health</i>
Bartholomew, Jr., Francis M., Ph.D. (1967-2001) .....	<i>Associate Professor of History</i>
Basom, Margaret R., Ph.D. (1999-2008) .....	<i>Professor of Educational Leadership</i>
Bauer, Edward G., M.S. (1956-1976) .....	<i>Professor of Mechanical Engineering</i>
Baxter, William L., Ph.D. (1963-1992) .....	<i>Professor of Biology</i>
Bedore, Robert L., M.S.M.E., Professional Degree in Mechanical Engineering (1959-1992) .....	<i>Professor of Mechanical Engineering</i>
Bee, Clifford P., Ph.D. (1969-2000) .....	<i>Professor of Teacher Education</i>
Belasco, James A., Ph.D. (1971-2000) .....	<i>Professor of Management</i>
Bell, Jr., Charles B., Ph.D. (1981-1992) .....	<i>Professor of Mathematical Sciences</i>
Bender, Stephen J., H.S.D. (1970-2004) .....	<i>Professor of Public Health</i>
Bennett, Larry E., Ph.D. (1970-2000) .....	<i>Professor of Chemistry</i>
Benson, Jackson J., Ph.D. (1966-1997) .....	<i>Professor of English</i>
Benton, Carl W., Ed.D. (1948-1983) .....	<i>Professor of Physical Education</i>
Berg, Marlowe J., Ph.D. (1970-2003) .....	<i>Professor of Teacher Education</i>
Berg, Robert V., M.F.A. (1963-1992) .....	<i>Professor of Art</i>
Berry, Richard W., Ph.D. (1961-2001) .....	<i>Professor of Geological Sciences</i>
Bertine, Kathe K., Ph.D. (1973-2000) .....	<i>Professor of Geological Sciences</i>
Biggs, Millard R., Ph.D. (1958-1986) .....	<i>Professor of Music</i>
Bitlerman, Henry L., M.A. (1956-1977) .....	<i>Assistant Professor of Mechanical Engineering</i>
Blanc, Sam S., Ed.D. (1966-1981) .....	<i>Professor of Elementary Education</i>
Blick, James D., Ph.D. (1966-1985) .....	<i>Associate Professor of Geography</i>
Block, Russell L., J.D. (1969-2004) .....	<i>Associate Professor of Finance</i>
Bloomberg, Jr., Warner, Ph.D. (1973-1989) .....	<i>Professor of Sociology</i>
Blue, Carroll Parrott, M.F.A. (1984-2004) .....	<i>Professor of Theatre, Television, and Film</i>
Boddy, Raford D., Ph.D. (1980-2004) .....	<i>Professor of Economics</i>
Boe, Alfred F., Ph.D. (1968-2003) .....	<i>Associate Professor of English and Comparative Literature</i>
Boggs, Wilma T., M.S. (1971-1977) .....	<i>Assistant Professor of Family Studies and Consumer Sciences</i>
Bohnsack, Kurt K., Ph.D. (1956-1983) .....	<i>Professor of Zoology</i>
Boney, Elaine E., Ph.D. (1963-1986) .....	<i>Professor of German</i>
Boostrom, Ronald L., D.Crim. (1971-1996) .....	<i>Professor of Public Administration and Urban Studies</i>
Borges, Marilyn A., Ph.D. (1974-2001) .....	<i>Professor of Psychology</i>
Boskin, Warren D., Ed.D. (1965-1998) .....	<i>Associate Professor of Public Health</i>
Bost, John C., J.D. (1979-2003) .....	<i>Professor of Finance</i>
Botkin, Patricia T., Ed.D. (1969-1988) .....	<i>Associate Professor of Teacher Education</i>
Brady, F. Neil, Ph.D. (1982-1994) .....	<i>Professor of Management</i>
Brady, Richard C., Ph.D. (1977-1998) .....	<i>Associate Professor of Special Education</i>
Brashear, Howard C., Ph.D. (1968-1992) .....	<i>Professor of English</i>
Bray Henry G., Ph.D. (1962-1997) .....	<i>Professor of Mathematical and Computer Sciences</i>
Breindl, Michael J., Ph.D. (1986-2003) .....	<i>Professor of Biology</i>
Brennen, E. Clifford, D.S.W. (1978-1983) .....	<i>Professor of Social Work</i>
Broderick, William A., Ed.D. (1977-1994) .....	<i>Administrator, Media Technology Services</i>
Brodshatzer, Arthur, D.B.A. (1956-1986) .....	<i>Professor of Accountancy</i>
Broom, Betty L., Ph.D. (1979-2003, except F'85-S'86) .....	<i>Associate Professor of Nursing</i>
Broom, Glen M., Ph.D. (1979-2003) .....	<i>Professor of Communication</i>
Brown, Lee, Ph.D. (1978-1994) .....	<i>Professor of Journalism</i>
Brown, Ruth M. C., Ph.D. (1971-1986) .....	<i>Associate Professor of English and Comparative Literature</i>

Brown, William L., B.S.E.E., Professional Degree in Electrical Engineering (1962-1983) .....	Associate Professor of Electrical and Computer Engineering
Bruderer, Conrad, D.M. (1963-1996) .....	Professor of Music
Bryson, Jeff B., Ph.D. (1970-2004) .....	Professor of Psychology
Buck, Robert E., Ph.D. (1969-2005) .....	Associate Professor of Sociology
Buckalew, James K., Ph.D. (1967-1999) .....	Professor of Communication
Bumpus, Jerry D., M.F.A. (1971-1996) .....	Professor of English
Burdick, David L., Ph.D. (1968-1995) .....	Associate Professor of Mathematical Sciences
Burgess, William C., Ed.D. (1961-1992) .....	Professor of Health Science
Burnett, Lowell J., Ph.D. (1972-2001) .....	Professor of Physics
Burnside, Houston M., Ph.D. (1968-1991) .....	Professor of Teacher Education
Butler, David H., Ph.D. (1981-2002) .....	Professor of Accountancy
Butler, Gerald J., Ph.D. (1968-2005) .....	Professor of English
Butler, Harry, Ph.D. (1975-1990) .....	Professor of Social Work
Butler, Mark C., Ph.D. (1981-2002) .....	Professor of Management
Calavita, Nico, Ph.D. (1980-2004) .....	Professor of Public Administration and Urban Studies
Campbell, L. Beryl, M.A. (1947-1973) .....	Associate Professor of Elementary Education
Cannon, Nona H., Ed.D. (1959-1979) .....	Professor of Family Studies and Consumer Sciences
Capettini, Robert J., Ph.D. (1985-2007) .....	Professor of Accountancy
Cargille, Douglas A., M.A., M.L.S. (1978-2001) .....	Librarian
Carlson, David H., Ph.D. (1982-2002) .....	Professor of Mathematics
Carmichael, Nancy M., Ph.D. (1968-1995) .....	Assistant Professor of Biology
Carpenter, Roger E., Ph.D. (1963-1993) .....	Professor of Biology
Carrilio, Terry E., Ph.D. (2002-2007) .....	Assistant Professor of Social Work
Carter, J.E. Lindsay, Ph.D. (1962-1992) .....	Professor of Physical Education
Case, Thomas E., Ph.D. (1961-1998) .....	Professor of Spanish
Castro (Castillo), Susana D., Ph.D. (1985-1994) .....	Professor of Spanish
Cegelka, Patricia T., Ed.D. (1980-2004) .....	Professor of Special Education
Chambers, Martin, Ph.D. (1986-2010) .....	Professor of Music
Chambers, Norman E., Ph.D. (1972-2001) .....	Professor of Africana Studies
Chan, Lillian L., M.A.L.S. (1969-1998) .....	Librarian
Chan, S. Yun, Ph.D. (1965-1979) .....	Professor of Electrical Engineering
Chandler, Shelly E., Ph.D. (1966-2003) .....	Associate Professor of Sociology
Chang, Albert, M.D. (1991-2007) .....	Professor of Public Health
Chang, Ching-Ten, Ph.D. (1979-2004) .....	Professor of Electrical and Computer Engineering
Chang, Howard H., Ph.D., Professional Degree in Civil and Environmental Engineering (1967-2003) .....	Professor of Civil and Environmental Engineering
Charles, Carol M., Ph.D. (1961-1988) .....	Professor of Teacher Education
Chater, Elizabeth E., M.A. (1964-1977) .....	Professor of English
Cheek, William F., Ph.D. (1968-2004) .....	Professor of History
Chen, Lo-chai, Ph.D. (1969-2001) .....	Professor of Biology
Cheng, Li-Rong Lilly, Ph.D. (1984-2008) .....	Assistant Director, Global Program Development, College of Extended Studies; Professor of Speech, Language, and Hearing Sciences
Cherin, Antony C., Ph.D. (1982-2003) .....	Professor of Finance
Chou, Fang-Hui, Ph.D., Professional Degree in Civil and Environmental Engineering (1969-2003) .....	Professor of Civil and Environmental Engineering
Chow, Chee W., Ph.D. (1984-2005) .....	Professor of Accountancy
Christensen, C. Ben, Ph.D. (1968-2000) .....	Professor of Spanish
Christensen, Kathee M., Ph.D. (1978-2004) .....	Professor of Speech, Language, and Hearing Sciences
Christian, David, Ph.D. (2001-2008) .....	Professor of History
Chu, Paochin, Ph.D. (1967-2001) .....	Professor of History
Clapp, James A., Ph.D. (1968-2001) .....	Professor of Public Administration and Urban Studies
Clark, Mary E., Ph.D. (1969-1986) .....	Professor of Biology
Clement, Norris C., Ph.D. (1968-2000) .....	Professor of Economics
Coates, Breenna E., Ph.D. (2000-2007) .....	Associate Professor of Public Affairs, Imperial Valley Campus
Cobble, James W., Ph.D. (1973-2002) .....	Vice President for Research and Dean, Graduate Division; Professor of Chemistry
Cohn, Kathleen C., Ph.D. (2006-2008) .....	Professor of Educational Leadership
Cohn, Theodore J., Ph.D. (1964-1992) .....	Professor of Biology
Coleman, Kathleen L., M.A., M.S.L.S. (1973-2002) .....	Librarian
Collier, Boyd D., Ph.D. (1966-1998) .....	Professor of Biology
Collier, Gerald, Ph.D. (1961-1995) .....	Professor of Biology
Conly, John F., Ph.D. (1962-2003) .....	Professor of Aerospace Engineering and Engineering Mechanics
Conway, John B., Ph.D. (1981-1992) .....	Professor of Public Health
Cooke, Gwen C., Ph.D. (1978-1992) .....	Professor of Family Studies and Consumer Sciences
Cooling, Janet L., M.F.A. (1984-2008) .....	Professor of Art, Design, and Art History
Cooper, Gwen O., Ed.D. (1966-1991) .....	Counselor
Cornejo, Ricardo J., Ph.D. (1978-2009) .....	Professor of Teacher Education
Cottrell, Ann B., Ph.D. (1967-1999) .....	Professor of Sociology
Cottrell, Don M., Ph.D. (1967-1998) .....	Professor of Physics
Cox, George W., Ph.D. (1962-1996) .....	Professor of Biology
Cox, Thomas J., Ph.D. (1975-2000) .....	Professor of French
Cox, Thomas R., Ph.D. (1967-1996) .....	Professor of History
Craig, George T., Ph.D. (1968-2001) .....	Professor of Mechanical Engineering
Crisley, Cornelius J., M.L.S. (1962-1990) .....	Senior Assistant Librarian
Cummins, Emery J., Ph.D. (1966-2000) .....	Professor of Counseling and School Psychology
Cunniff, Roger L., Ph.D. (1967-2000) .....	Professor of History
Curry, Joan F., Ed.D. (1972-1997) .....	Professor of Teacher Education
Dahms, A. Stephen, Ph.D. (1972-2006) .....	Professor of Chemistry and Biochemistry
Darley, Richard D., Ph.D. (1961-1980) .....	Professor of Marketing
Daub, Jr., Clarence T., Ph.D. (1967-1999) .....	Professor of Astronomy
Davies, Darlene G., Ed.S. (1976-1994) .....	Assistant Professor of Communicative Disorders
Davies, Jr., Thomas M., Ph.D. (1968-2001) .....	Professor of History
Davis, Craig H., Ph.D. (1967-1991) .....	Assistant Professor of Biology
Davis, Il, Glover T., M.F.A. (1966-2004) .....	Professor of English
Davis, Inger P., Ph.D. (1977-1996) .....	Professor of Social Work
Dean, Alfred, Ph.D. (1985-2000) .....	Professor of Social Work
Deaton, Edmund L., Ph.D. (1960-1992) .....	Professor of Mathematical Sciences
DeGennaro, Maria R., Ph.D. (1980-2008) .....	Professor of Social Work
Defran, Richard H., Ph.D. (1970-2002) .....	Associate Professor of Psychology
DeLora, Jack R., Ph.D. (1955-1986) .....	Professor of Sociology
Dessel, Norman F., Ph.D. (1961-1992) .....	Professor of Natural Science
Deutsch, Francine, Ph.D. (1981-1999) .....	Professor of Child and Family Development
Dexter, Deborah M., Ph.D. (1967-2001) .....	Professor of Biology
Dharmarajan, Sangiah Nadar, Ph.D. (1960-1997) .....	Professor of Aerospace Engineering and Engineering Mechanics
Dicken, Charles F., Ph.D. (1962-1995) .....	Professor of Psychology
Dickerson, Mary E., Ph.D. (1967-1990) .....	Assistant Professor of Family Studies and Consumer Sciences
Dickinson, Fidelia R., Ph.D. (1966-1990) .....	Librarian
Diehl, William P., Ph.D. (1968-1997) .....	Associate Professor of Biology
Dillon (Salerno), M. Constance, M.S. (1964-1992) .....	Professor of Nursing
Dintrone, Charles V., M.A., M.L.S. (1972-2005) .....	Librarian
Dintrone, Patricia N.L., Ph.D. (1989-2006) .....	Assistant Dean for Student Affairs, College of Business Administration; Lecturer in Management
Dirksen, Dennis A., Ed.D. (1969-1992) .....	Professor of Industrial Technology
Dobbs, Matti F., Ph.D. (1990-1999) .....	Associate Professor of Public Administration and Urban Studies
Dominguez, Jesus Y., M.F.A. (1976-2002) .....	Professor of Art, Design, and Art History
Donahue, Thomas S., Ph.D. (1968-2003) .....	Professor of Linguistics
Donald, John D., Ph.D. (1978-2004) .....	Professor of Computer Science
Dorlag, Donald H., Ph.D. (1970-1998) .....	Professor of Special Education
Dorman, Clive E., Ph.D. (1974-2006) .....	Professor of Geological Sciences
Dorris, Helen L., M.S. (1952-1982) .....	Professor of Family Studies and Consumer Sciences
Dowler, Michael J., Ph.D. (1971-2001) .....	Professor of Biology
Downey, Carolyn J., Ph.D. (1988-2004) .....	Associate Professor of Educational Leadership
Downing, Christine R., Ph.D. (1974-1992) .....	Professor of Religious Studies
DuBois, Barbara C., Ph.D. (1989-2004) .....	Assistant Professor of Gerontology
Duckworth, Joseph B., Ed.D. (1968-1998) .....	Professor of Teacher Education

## Emeritus Faculty

DuFault, David V., Ph.D. (1962-1999)	Associate Professor of History
Dukas, Vytas, Ph.D. (1959-1988)	Professor of Russian
Dumlao, Gerald C., M.F.A. (1977-1998)	Associate Professor of Art
Duncan, Mary R., Ph.D. (1973-2001)	Professor of Recreation, Parks and Tourism
Dunn, Craig P., Ph.D. (1991-2006)	Associate Professor of Management
Dunn, Ross E., Ph.D. (1968-2003)	Professor of History
Earnest, Sue W., Ph.D. (1947-1973)	Professor of Speech Pathology and Audiology
Ebert, Thomas A., Ph.D. (1969-1999)	Professor of Biology
Eidemiller, Donald I., Ph.D. (1956-1983)	Professor of Geography
Eisemann, Kurt, Ph.D. (1982-1992)	Professor of Mathematical Sciences
Eisner, Robert E., Ph.D. (1970-2003)	Professor of Classics and Humanities
El-Assal, Mohamed M.E., Ph.D. (1967-1992)	Professor of Sociology
Elgin, Suzette, Ph.D. (1972-1981)	Associate Professor of Linguistics
Elizondo, Sergio D., Ph.D. (1994-2005)	Professor of Spanish, Imperial Valley Campus
Elliott, Rosalie C., Ph.D. (1968-1982)	Professor of Elementary Education
Elwin, John D., Ph.D. (1969-2004)	Professor of Mathematics
Emerick, Robert E., Ph.D. (1968-2004)	Professor of Sociology
Erickson, Paul, Ed.D. (1963-1986)	Professor of Teacher Education
Espin, Olivia M., Ph.D. (1990-2002)	Professor of Women's Studies
Esser, Janet B., Ph.D. (1975-1999)	Professor of Art
Estes, Russell G., Ed.D. (1963-1992)	Professor of Music
Etheridge, Richard E., Ph.D. (1961-1992)	Professor of Biology
Fairlie, Lyndelle, Ph.D. (1973-2010)	Associate Professor of Political Science
Farber, Gerald H., Ph.D. (1968-2004)	Professor of English and Comparative Literature
Fatemi, Khosrow, Ph.D. (1998-2004)	Dean, Imperial Valley Campus; Professor of Management, Imperial Valley Campus
Faulkner, D. George, M.S. (1983-1992)	Lecturer in Aerospace Engineering and Engineering Mechanics
Fearn, Leif, Ed.D. (1967-2009)	Professor of Teacher Education
Feenberg, Andrew L., Ph.D. (1969-2004)	Professor of Philosophy
Feeney, William R., Ph.D. (1974-1997)	Associate Professor of Information and Decision Systems
Feher, Elsa, Ph.D. (1971-1997)	Professor of Physics
Feierabend, Ivo K., Ph.D. (1959-1992)	Professor of Political Science
Feinberg, Lawrence B., Ph.D. (1977-2002)	Associate Vice President for Research and Technology, Graduate and Research Affairs; Professor of Counseling and School Psychology
Fenson, Larry, Ph.D. (1975-2003)	Professor of Psychology
Fetzer, Leland A., Ph.D. (1966-1992)	Professor of Russian
Filner, Robert E., Ph.D. (1970-1992)	Associate Professor of History
Fisch, Arline M., M.A. (1961-1996)	Professor of Art
Fisher, Horace H., Ph.D. (1955-1977)	Associate Professor of Finance
Fisher, Kathleen M., Ph.D. (1988-2004)	Professor of Biology
Flagg, Joan M., Ph.D. (1969-2002)	Associate Professor of Nursing
Flatley, Marie E., Ph.D. (1979-2007)	Professor of Information and Decision Systems
Flemion, Philip F., Ph.D. (1968-1998)	Associate Professor of History
Forbing, Shirley E., Ed.D. (1969-1992)	Professor of Special Education
Ford, David H., Ed.D. (1967-1994)	Associate Professor of Teacher Education
Ford, David H., Ed.D. (1967-1994)	Associate Professor of Teacher Education
Ford, Larry, Ph.D. (1970-2009)	Professor of Geography
Forman, Robert B., Ed.D. (1963-1985)	Professor of Music
Fountain, Leonard D., Ph.D. (1960-1990)	Professor of Mathematical Sciences
Fox, Kathleen, Ph.D. (1962-1986)	Professor of Physical Education
Francis, Peter R., Ph.D. (1981-2003)	Professor of Exercise and Nutritional Sciences
Franklin, Janet, Ph.D. (1988-2009)	Professor of Biology
Franz, Edward P., M.A. (1965-2003)	Associate Professor of Exercise and Nutritional Sciences
Franzini, Louis R., Ph.D. (1969-2001)	Professor of Psychology
Fredrich, Barbara E., Ph.D. (1972-2004)	Professor of Geography
Freitas, Lorraine, Ph.D. (1984-2004)	Associate Professor of Nursing
Frey, Leonard H., Ph.D. (1956-1989)	Professor of Linguistics
Friedman, Abraham M., Ph.D. (1963-1983)	Associate Professor of Physical Education
Friedman, Maurice Stanley, Ph.D. (1973-1991)	Professor of Religious Studies, Philosophy, and Comparative Literature
Futch, David G., Ph.D. (1967-1998)	Associate Professor of Biology
Gallo, Jr., Philip S., Ph.D. (1963-1996)	Professor of Psychology
Gamble, Lynn H., Ph.D. (1997-2009)	Professor of Anthropology
Gange, Samuel J., Ed.D. (1969-1995)	Counseling Psychologist, Counseling and Psychological Services
Garrett, Kenneth C., M.Div. (1994-2003)	Lecturer in Accountancy
Garrison, Betty B., Ph.D. (1962-1996)	Professor of Mathematical Sciences
Garrison, Leslie, Ed.D. (1991-2008)	Professor of Education, Imperial Valley Campus
Gast, David K., Ed.D. (1963-1991)	Professor of Teacher Education
Gastil, R. Gordon, Ph.D. (1959-1993)	Professor of Geological Sciences
Gates, Gerald F., Ed.D. (1955-1986)	Professor of Teacher Education
Gay, Phillip T., Ph.D. (1976-2007)	Professor of Sociology
Gazell, James A., Ph.D. (1968-2008)	Professor of Public Affairs
Geffer, Irving, Ph.D. (1970-1992)	Assistant Professor of Religious Studies
Gega, Peter C., Ed.D. (1955-1987)	Professor of Teacher Education
Genovese, E. Nicholas, Ph.D. (1970-2003)	Professor of Classics and Humanities
Genzlinger, Cleve K., M.M. (1957-1991)	Professor of Music
Gervais, Ronald J., Ph.D., (1969-2010)	Professor of English
Getis, Arthur, Ph.D. (1990-2004)	The Stephen and Mary Birch Foundation Chair in Geographical Studies; Professor of Geography
Ghilbert, Jeanne S., M.A. (1965-1982)	Assistant Professor of French
Ghorpade, Jaisingh V., Ph.D. (1965-2000)	Professor of Management
Gibson, E. Dana, Ph.D. (1947-1971)	Professor of Information Systems
Gibson, Rich, Ph.D. (2000-2006)	Associate Professor of Teacher Education
Gifford, Adam, Ph.D. (1954-1989)	Professor of Economics
Gilbreath, Stuart H., Ph.D. (1968-2003)	Professor of Public Administration and Urban Studies
Gillette, Thomas L., Ph.D. (1961-1989)	Professor of Sociology
Gitchoff, G. Thomas, D.Crim. (1969-2001)	Professor of Public Administration and Urban Studies
Gitman, Lawrence J., Ph.D. (1989-2004)	Professor of Finance
Goldkind, Victor, Ph.D. (1961-1992)	Professor of Anthropology
Goodson, Roger A., Ed.D. (1968-1988)	Professor of Teacher Education
Goodwin, Joann P., M.L.S. (1968-1991)	Senior Assistant Librarian
Goynne, Carol L., M.A., M.S.L.S. (1969-2002)	Associate Librarian
Graf, Richard G., Ph.D. (1968-2008)	Professor of Psychology
Graham, William K., Ph.D. (1973-2003)	Professor of Psychology
Granrud, Carolyn A., B.S.L.S. (1960-1987)	Senior Assistant Librarian
Green, Louis C., Ph.D. (1976-2003)	Professor of Economics
Greenfeld, Philip J., Ph.D. (1969-2005)	Professor of Anthropology
Greenwood, Ned H., Ph.D. (1964-1995)	Professor of Geography
Gregory, Sinda J., Ph.D. (1977-2005, except S'84)	Professor of English
Griffin, Ernst C., Ph.D. (1972-2004)	Special Assistant to the Associate Vice President for Academic Affairs; Professor of Geography
Griffin, Herschel E., M.D. (1980-1987)	Professor of Public Health
Griffin, Ronald W., Ph.D. (1967-2001)	Professor of Social Work
Gripp, Richard C., Ph.D. (1958-1985)	Professor of Political Science
Griswold, Jerome J., Ph.D. (1980-2006)	Professor of English
Griswold del Castillo, Ricardo, Ph.D. (1974-2007)	Professor of Chicana and Chicano Studies
Groff, Patrick J., Ed.D. (1955-1981)	Professor of Elementary Education
Grone, Robert D., Ph.D. (1986-2010)	Professor of Mathematics
Grubbs, Edward J., Ph.D. (1961-1997)	Professor of Chemistry
Guentzler, William D., Ph.D. (1968-2004)	Professor of Industrial Technology
Guidry, Rosalind, Ph.D. (1970-1989)	Associate Professor of Social Work
Gulino, Claire, Ed.D. (1982-1991)	Professor of Nursing
Gumbiner, Judith G., M.A. (1967-2004)	Director, Career Services, Student Affairs; Counselor
Gunning, Barbara E., Ph.D. (1969-1988)	Professor of Family Studies and Consumer Sciences
Guroi, Mirat D., Ph.D. (1997-2007)	The Blasker Chair in Environmental Engineering; Professor of Civil and Environmental Engineering

Haas, Robert W., Ph.D. (1967-1997).....	Professor of Marketing
Hager, Richard A., Ph.D. (1967-2000).....	Professor of Mathematical and Computer Sciences
Hale, E. Alan, Ph.D. (1957-1987).....	Professor of Marketing
Hambleton, John W., Ph.D. (1969-2003).....	Associate Professor of Economics
Hamilton, Charles D., Ph.D. (1974-2001).....	Professor of History and Classics
Hammer, Gerald K., Ed.D. (1963-1992).....	Professor of Industrial Technology
Hampton, David R., Ph.D., J.D. (1964-2004).....	Professor of Management
Hanchett, William F., Ph.D. (1956-1987).....	Professor of History
Hanscom, III, Zac, Ph.D. (1978-2002).....	Associate Professor of Biology
Hanson, Robert F., Rec.D. (1962-1983).....	Professor of Recreation
Harari, Herbert, Ph.D. (1966-1987).....	Professor of Psychology
Harbert, Anita S., Ph.D. (1979-2008).....	Professor of Social Work
Harder, Donald F., Ed.D. (1960-1983).....	Counselor, Counseling Services
Harkányi, Katalin, M.L.S. (1969-2003).....	Librarian
Harris, Jay H., Ph.D. (1980-2009).....	Professor of Electrical and Computer Engineering
Harris, Mary E., M.A.L.S. (1982-1992).....	Associate Librarian
Harrison, Patrick J., Ph.D. (1970-2000).....	Professor of Educational Technology
Hartung, Barbara W., Ph.D. (1976-2001).....	Executive Assistant to the President; Professor of Communication
Harvey, Anne-Charlotte, Ph.D. (1984-2003).....	Professor of Theatre
Harvey, A. Raymond, Ph.D. (1949-1983).....	Professor of Mathematical Sciences
Harvey, Michael L., Ph.D. (1969-2001).....	Professor of Theatre
Hatch, Richard A., Ph.D. (1975-2000).....	Professor of Information and Decision Systems
Hawley, Peggy J., Ph.D. (1968-1988).....	Professor of Counselor Education
Haworth, Glenn O., D.S.W. (1966-1987).....	Professor of Social Work
Hayes, Charlotte E., M.S. (1972-2004).....	Counselor, Counseling and Psychological Services
Hazen, William E., Ph.D. (1962-1988).....	Professor of Biology
Head, Gerald L., Ph.D. (1964-1999).....	Professor of Spanish
Heck, Edward V., Ph.D. (1983-2009).....	Professor of Political Science
Heighton, Elizabeth J., M.S. (1966-1992).....	Professor of Telecommunications and Film
Heinen, Janet R., Ph.D. (1980-2007).....	Professor of Nursing
Heinrichs, Waldo, Ph.D. (1991-1996).....	Professor of History
Hellberg, Lars H., Ph.D. (1956-1992).....	Professor of Chemistry
Hellweg, Susan A., Ph.D. (1979-2009).....	Professor of Communication
Hemmingsen, Barbara B., Ph.D. (1973-2004).....	Professor of Biology
Henderson, Joel H., Ph.D. (1971-2000).....	Professor of Public Administration and Urban Studies
Henry, Edward O., Ph.D. (1974-2004).....	Professor of Anthropology
Hewes, Dorothy W., Ph.D. (1974-1992).....	Professor of Family Studies and Consumer Sciences
Heyman, Neil M., Ph.D. (1969-2002).....	Professor of History
Hidalgo, Margarita G., Ph.D. (1987-2008).....	Professor of Spanish
Higgins, Winifred H., Ph.D. (1964-1983).....	Professor of Art
Hill, Jr., Richard B., Ph.D. (1969-1999).....	Assistant Professor of Sociology, Imperial Valley Campus
Hill, Wayne O., Ed.D. (1955-1983).....	Professor of Elementary Education
Hillix, William A., Ph.D. (1963-1992, except 1967-1969).....	Professor of Psychology
Himes, Ronald S., Ph.D. (1969-2002).....	Professor of Anthropology
Hindman, Jane E., Ph.D. (1996-2007).....	Associate Professor of Rhetoric and Writing Studies
Hines, Jeanette D., D.N.S. (1977-1991).....	Associate Professor of Nursing
Hintzman, William R., Ph.D. (1969-2000).....	Associate Professor of Mathematical and Computer Sciences
Hippaka, William H., Jur.D. (1957-1990).....	Professor of Finance
Ho, Hung-Ta, Ph.D. (1966-1991).....	Professor of Mathematical Sciences
Hobbs, John A., Ph.D. (1964-1998).....	Associate Professor of Political Science
Hofstetter, C. Richard, Ph.D. (1983-2010).....	Associate Professor of Political Science
Hogg, Merle E., Ph.D. (1962-1992).....	Professor of Music
Hoidal, Oddvar K., Ph.D. (1967-2003).....	Professor of History
Holmes, Calvin V., Ph.D. (1956-1992).....	Professor of Mathematical Sciences
Hoover, Grace V., B.S.L.S. (1956-1981).....	Associate Librarian
Hopkins, Ronald H., Ph.D. (1991-1998).....	Vice President for Academic Affairs; Professor of Psychology
Hornbeck, Frederick W., Ph.D. (1968-2007).....	Professor of Psychology
Hostettler, David K., Ed.D. (1966-1982).....	Counselor
Hough, Richard L., Ph.D. (1983-2001).....	Professor of Sociology
Houston, Jr., Arthur L., Ph.D. (1986-2002).....	Professor of Finance
Houston, Carol O., Ph.D. (1986-2004).....	Professor of Accountancy
Howard, Gordon S., Ph.D. (1968-1983).....	Professor of Drama
Howard, Raymond C., Ed.D. (1974-1989).....	Associate Professor of Counselor Education
Hoyt, Jack W., Ph.D. (1981-1992).....	Professor of Mechanical Engineering
Huckle, Patricia, Ph.D. (1975-2001).....	Professor of Women's Studies
Huffman, Edward W., Ph.D. (1955-1980).....	Professor of Zoology
Hughes, Margaret J., Ph.D. (1997-2004).....	Associate Professor of Social Work
Hungate, Robert P., Ph.D. (1961-1987, except 1965-1969).....	Professor of Finance
Hunrichs, William A., Ph.D. (1957-1985).....	Professor of Psychology
Hunsaker, II, Don, Ph.D. (1960-1996).....	Professor of Biology
Hunter, Lawrence B., M.A. (1963-1989).....	Professor of Art
Huntley, David, Ph.D. (1978-2005).....	Professor of Geological Sciences
Hurlbert, Stuart H., Ph.D. (1970-2006).....	Professor of Biology
Hussain, Nihad A., Ph.D. (1969-2000).....	Professor of Mechanical Engineering
Hutchinson, George, Ph.D. (1973-1994).....	Associate Professor of Recreation, Parks and Tourism
Ima, Kenji, Ph.D. (1972-2000).....	Professor of Sociology
Ingham, Muriel B., Ph.D. (1967-1981).....	Professor of English
Ingmanson, Dale E., Ed.D. (1968-1999).....	Professor of Teacher Education
Inskeep, Jr., James E., Ph.D. (1960-1990).....	Professor of Teacher Education
Iosupovici, Alexander, Ph.D. (1978-2001).....	Professor of Electrical and Computer Engineering
Irgang, Frank J., Ph.D. (1956-1982).....	Professor of Industrial Studies
Isensee, Robert W., Ph.D. (1948-1982).....	Professor of Chemistry
Ishikawa, Wesley H., D.S.W. (1969-1988).....	Professor of Social Work
Jackson, Elizabeth R., Doctorat (1969-1986).....	Professor of French
Jacobs, L. Ron, Ph.D. (1982-2005).....	Professor of Administration, Rehabilitation and Postsecondary Education
Jameson, K. Charles, Ph.D. (1965-1995).....	Professor of Communication
Janssen, Henry L., Ph.D. (1953-1988).....	Professor of Political Science
Jensen, Reilly C., Ph.D. (1958-1992).....	Professor of Chemistry
Jiménez-Vera, Arturo, Ph.D. (1970-1992).....	Professor of Spanish
Jiracek, George R., Ph.D. (1980-2004).....	Professor of Geological Sciences
Johns, Ann M., Ph.D. (1975-2002).....	Professor of Rhetoric and Writing Studies and Linguistics
Johns, David H., Ph.D. (1965-2001).....	Professor of Political Science
Johns, Gerald E., M.S.L.S. (1967-1986).....	Associate Librarian
Johnson, Albert W., Ph.D. (1964-1991).....	Vice President for Academic Affairs; Professor of Biology
Johnson, Joseph S., Ph.D. (1967-1999).....	Professor of Communication
Johnson, Kenneth D., Ph.D. (1972-2001).....	Professor of Biology
Johnson, Philip E., M.S.C.E. (1958-1987).....	Professor of Civil Engineering
Johnson, Warren A., Ph.D. (1969-1997).....	Professor of Geography
Jones, Evangelina B., Ph.D. (1990-2006).....	Associate Professor of Policy Studies in Language and Cross-Cultural Education
Jones, Kathleen B., Ph.D. (1981-2003).....	Professor of Women's Studies
Jones, Walter D., Ph.D. (1962-1991).....	Professor of Chemistry
Jordan, Jr., G. Ray, Ph.D. (1966-1987).....	Professor of Religious Studies
Joseph, Lionel, Ph.D. (1947-1971).....	Professor of Chemistry
Josephson, Ronald V., Ph.D. (1975-2001).....	Professor of Exercise and Nutritional Sciences
Kaatz, James M., Ed.D. (1967-1992).....	Associate Professor of Teacher Education
Kahn, Marion J., M.S. (1967-1983).....	Professor of Social Work
Kahng, Tae Jin, Ph.D. (1962-1994).....	Professor of Political Science
Karen, Robert L., Ph.D. (1964-1985).....	Professor of Psychology
Kartman, Arthur E., Ph.D. (1968-2005).....	Professor of Economics
Kass, Norman, Ph.D. (1961-1997).....	Professor of Psychology
Keen, Elmer A., Ph.D. (1967-1989).....	Professor of Geography
Kehler, Dorothea F., Ph.D. (1970-2001).....	Professor of English



## Emeritus Faculty

Keiser, K. Robert, Ph.D. (1968-2004).....	Associate Professor of Political Science
Kelley, Joseph B., D.S.W. (Under contract 1968-1969; 1970-1998)...	Professor of Social Work
Kelly, Beatrice L., Ph.D. (1967-1983).....	Professor of Microbiology
Kelly, Patricia R., Ph.D. (1999-2009).....	Professor of Teacher Education
Kendall, W. Lloyd, Ed.D. (1961-1992).....	Professor of Teacher Education
Kern, J. Philip, Ph.D. (1968-1994).....	Professor of Geological Sciences
Khalil, Issa J., Ph.D. (1969-1992).....	Associate Professor of Religious Studies
Kiewiet De Jonge, Engbert J. C., Ph.D. (1963-1983).....	Professor of Geography
King, Bonnie B., M.A. (1970-1984).....	Assistant Professor of English, Imperial Valley Campus
King, Harry A., Ph.D. (1978-1997).....	Professor of Exercise and Nutritional Sciences
Kinsey, Margaret E., M.A. (1961-1972).....	Circulation Librarian
Kish, Kathleen V., Ph.D. (1999-2004).....	Professor of Spanish
Kitano, Margie K., Ph.D. (1988-2009).....	Associate Dean, College of Education; Professor of Special Education
Kitchner, James D., Ph.D. (1957-1981).....	Professor of Public Administration and Urban Studies
Kitzinger, Angela M., Ph.D. (1945-1969).....	Professor of Health Science and Safety
Kohen, Janet A., Ph.D. (1980-2001).....	Associate Professor of Women's Studies
Kolody, Bohdan, Ph.D. (1972-2008).....	Professor of Sociology
Koppman, Jerry W., Ph.D. (1963-1987).....	Professor of Psychology
Kornweibel, Jr., Theodore, Ph.D. (1977-2001).....	Professor of Africana Studies
Krekorian, Neil, Ph.D. (1970-2001).....	Professor of Biology
Krisans, Skaidrite, Ph.D. (1969-2002).....	Professor Biology
Krishnamoorthy, Govindarajulu, Ph.D. (1968-2003).....	Professor of Civil and Environmental Engineering
Krummenacher, Daniel, Ph.D. (1968-1988).....	Professor of Geological Sciences
Kuhlman, Natalie A., Ph.D. (1979-2003).....	Professor of Policy Studies in Language and Cross-Cultural Education
Kukkonen, Ruth M., M.S.W. (1973-1989).....	Professor of Social Work
Kummerow, Jochen, Ph.D., nat. (1973-1990).....	Professor of Biology
Kushner, Howard I., Ph.D. (1980-2002).....	Professor of History
Kuznets, Lois R., Ph.D. (1985-1996).....	Professor of English
Laiho, Ethel E., M.S. (1964-1982).....	Associate Professor of Nursing
Lamb, Alma S., B.S. (1962-1988).....	Assistant Librarian
Lamke, Gene G., M.A. (1973-2006).....	Professor of Recreation, Parks and Tourism
LaMonica, Grace, M.S. (1966-1992).....	Assistant Professor of Nursing
Landis, Jean, M.S. (1968-1979).....	Assistant Professor of Physical Education
Landis, Vincent J., Ph.D. (1954-1997).....	Professor of Chemistry
Landsverk, John A., Ph.D. (1990-2004).....	Professor of Social Work
Langenbach, Robert G., Ed.D. (1959-1981).....	Professor of Information Systems
Lantz, John M., Ph.D. (1986-1998).....	Professor of Nursing
Lapp, Diane K., Ed.D. (1978-2009).....	Professor of Teacher Education
Latta, Raymond F., Ph.D. (1977-2002).....	Professor of Educational Leadership
Lawson, Richard H., Ph.D. (1957-1984, except 1976-1984).....	Professor of German
Leach, Larry L., Ph.D. (1968-2003).....	Professor of Anthropology
Leasure, J. William, Ph.D. (1962-1992).....	Professor of Economics
Lebherz, Herbert G., Ph.D. (1976-1996).....	Professor of Chemistry
Leckart, Bruce T., Ph.D. (1968-1993).....	Professor of Psychology
Lee, Dalton S., Ph.D. (1985-2003).....	Associate Professor of Public Administration and Urban Studies
Lee, Raymond, Ph.D. (1977-1992).....	Associate Professor of Psychology
Lee, Robert E., M.A. (1956-1983).....	Professor of Telecommunications and Film
Leerhoff, Ruth E., M.A. (1964-1991).....	Librarian
Lemus, George, Ph.D. (1960-1991).....	Professor of Spanish
Lesley, F. David, Ph.D. (1970-2006).....	Professor of Mathematics
Leslie, Norman C., M.N. (1969-1988).....	Assistant Professor of Nursing
Lewin, Harlan J., Ph.D. (1967-2000).....	Associate Professor of Political Science
Lewis, Rena B., Ph.D. (1978-2006).....	Professor of Special Education
Lienert, Charles, Ed.D. (1954-1977).....	Professor of Educational Administration
Lightner, Kevin M., Ph.D. (1968-2004).....	Professor of Accountancy
Lilly, Roger A., Ph.D. (1968-2001).....	Professor of Physics
Lin, Mao-Shiu, Ph.D. (1966-2002).....	Professor of Electrical and Computer Engineering
Lindgren, Donald A., Ph.D. (1965-1992).....	Professor of Marketing
Lippold, Lois K., Ph.D. (1968-2003).....	Professor of Anthropology
Litrownik, Alan J., Ph.D. (1971-2010).....	Professor of Psychology
Little, D. Richard, Ph.D. (1974-1995).....	Professor of Political Science
Little, Sherry B., Ph.D. (1982-2009).....	Associate Dean, College of Arts and Letters; Professor of English
Livingston, Nancy M., Ed.D. (1982-2008).....	Lecturer in Teacher Education, Imperial Valley Campus
Lodge, Chester R., Ph.D. (1954-1988).....	Professor of Electrical and Computer Engineering
Logan, Jack D., Ph.D. (1969-2009).....	Professor of Music
Longenecker, Martha, M.F.A. (1955-1981).....	Professor of Art
Lookinland, Sandra, Ph.D. (1981-2004, except 1997-2002).....	Professor of Nursing
Loveman, Brian E., Ph.D. (1973-2008).....	Professor of Political Science
Loveridge, Catherine E., Ph.D. (1983-2003).....	Professor of Nursing
Lujan, Jaime L., Ph.D. (1976-2004).....	Associate Professor of Teacher Education
Lustig, Myron W., Ph.D. (1978-2006).....	Professor of Communication
Lutz, Donald A., Ph.D. (1986-2004).....	Professor of Mathematics
Lybarger, Alvin E., Ed.D. (1970-1992).....	Associate Professor of Mechanical Engineering
Lynch, Eleanor W., Ph.D. (1979-2003).....	Professor of Special Education
Lynn, Elizabeth, Ph.D. (1963-1988).....	Associate Professor of Psychology
Lyons-Lawrence, Carolena L., Ph.D. (1987-2004).....	Associate Professor of Information and Decision Systems
MacDonald, Gretchen, Ph.D. (1966-1981).....	Associate Professor of Study Skills
Macky, David W., Ph.D. (1969-1998).....	Associate Professor of Mathematical and Computer Sciences
Madhavan, Murugappa C., Ph.D. (1968-1999).....	Professor of Economics and Asian Studies
Madsen, Roy P., Ph.D. (1966-1991).....	Professor of Telecommunications and Film
Malik, Jim G., Ph.D. (1957-1992).....	Professor of Chemistry
Mann, Richard L., M.S.E.E. (1968-1982).....	Professor of Electrical and Computer Engineering
Mansfield, Jr., George A., M.S.M.E., Professional Degree in Mechanical Engineering (1968-1994).....	Professor of Mechanical Engineering
Marcus, Bernard, Ph.D. (1966-1996).....	Associate Professor of Mathematical Sciences
Marino, Leonard, Ph.D. (1973-2010).....	Professor of Electrical and Computer Engineering
Marovac, Nenad, Ph.D. (1980-2003).....	Professor of Computer Science
Marshak, Celia L., Ph.D. (1973-1993).....	Assistant Dean for Student Affairs, College of Sciences
Marshall, C. Monte, Ph.D. (1975-2001).....	Professor of Geological Sciences
Marsters, Harold L., M.A. (1962-1992).....	Associate Professor of Industrial Technology
Martin, Donald R., Ph.D. (1969-2004).....	Associate Dean, College of Professional Studies and Fine Arts; Associate Professor of Communication
Martin, Joan L., Ed.D. (1970-1992).....	Professor of Family Studies and Consumer Sciences
Martin, John E., Ph.D. (1986-2007).....	Professor of Psychology
Martinez, Julio A., Ph.D. (1973-1992).....	Associate Librarian
Massey, Gail A., Ph.D. (1981-1997).....	Professor of Electrical and Computer Engineering
Mathewson, James H., Ph.D. (1964-1992).....	Professor of Chemistry
Max, Stefan L., Ph.D. (1964-1984).....	Professor of French
May, Thomas L., Ph.D. (1971-1998).....	Associate Professor of Astronomy
McAdams, Henry E., Ph.D. (1966-1992).....	Director, University Advising Center; Counselor
McAllister, R. Wayne, M.A. (1966-1983).....	Assistant Professor of Educational Technology and Librarianship
McAmis, Lessley C., B.A. (1959-1971).....	Documents Librarian
McArthur, David S., Ph.D. (1973-2004).....	Professor of Geography
McCaffery, Lawrence F., Ph.D. (1976-2004).....	Professor of English and Comparative Literature
McClard, Q. Donavon, Ph.D. (1966-1986).....	Professor of Special Education
McCordick, Sharon M., Ph.D. (1969-2001).....	Associate Professor of Psychology
McCormack, Alan J., Ed.D. (1987-2004).....	Professor of Teacher Education
McCoy, Leone D., Ph.D. (1967-1990).....	Professor of Teacher Education
McDean, Harry C., Ph.D. (1971-2003).....	Professor of History
McDonald, Roy D., Ph.D. (1963-1992).....	Professor of Psychology

McEowen, R. Harold, Ph.D. (1967-1992) .....	Associate Professor of Industrial Technology
McFall, John B., Ph.D. (1966-1985) .....	Professor of Marketing
McFarlane, Fred R., Ph.D. (1972-2008) .....	Professor of Administration, Rehabilitation and Postsecondary Education
McGhie, Robert D., Ph.D., Professional Degree in Mechanical Engineering (1967-1997) .....	Professor of Civil and Environmental Engineering
McKenzie, Thomas L., Ph.D. (1980-2004) .....	Professor of Exercise and Nutritional Sciences
McKerrow, Margaret, Ph.D. (1971-2003) .....	Professor of Theatre, Television, and Film
McLeod, Dan, Ph.D. (1964-1993) .....	Professor of English and Comparative Literature
McLeod, Douglas B., Ph.D. (1972-2001) .....	Professor of Mathematics
McLoney, Wirt, Ed.D. (1949-1974) .....	Professor of Industrial Studies
McTaggart, Aubrey C., Ph.D. (1962-1992) .....	Professor of Health Science
Meador, Thomas C., M.A. (1966-2001) .....	Associate Professor of Communication
Meadows, Eddie S., Ph.D. (1972-2001) .....	Professor of Music
Medeiros, Frank A., Ph.D. (1977-2006, except F'96-S'98) .....	Professor of Education, Imperial Valley Campus
Mehaffy, George L., Ph.D. (1986-1994) .....	Professor of Teacher Education
Meier, Robert A., Ph.D. (1972-1986) .....	Professor of Accountancy
Meigs, Robert F., Ph.D. (1972-1996) .....	Professor of Accountancy
Meno, Lionel R., Ph.D. (1999-2009) .....	Professor of Educational Leadership
Merino, Alfred, Ed.D. (1974-2001) .....	Associate Dean, Imperial Valley Campus; Professor of Administration, Rehabilitation and Postsecondary Education
Metzger, Robert P., Ph.D. (1968-2009) .....	Professor of Chemistry and Biochemistry
Miles, E. Walter, Ph.D. (1966-1998) .....	Professor of Political Science
Miller, Allan W., M.F.A. (1963-2004) .....	Professor of Art, Design, and Art History
Miller, Elise, M.A. (1977-2003) .....	Lecturer in Rhetoric and Writing Studies
Miller, Ralph Llewellyn, Ph.D. (1963-1996) .....	Professor of Counseling and School Psychology
Miller, Richard H., Ph.D. (1977-2001) .....	Professor of Geological Sciences
Mitchell, Danlee G., M.S. (1964-2000) .....	Professor of Music
Mitton, Daryl G., Ph.D. (1966-1991) .....	Professor of Management
Moaney, Eric R., M.F.A., M.S. (1968-1998) .....	Assistant Professor of Art
Moe, Jean T., M.A. (1966-1983) .....	Associate Professor of Music
Moffett, Myrna J., Ph.D. (1968-1998) .....	Assistant Professor of Nursing
Mollenauer, Sandra O., Ph.D. (1970-2003) .....	Professor of Psychology
Monroe, Ronald E., Ph.D. (1973-1997) .....	Professor of Biology
Monteverde, John P., Ph.D. (1954-1986) .....	Professor of English and Comparative Literature
Moore, Harold B., Ph.D. (1960-1991) .....	Professor of Biology
Moore, Mary Jane, Ph.D. (1972-2002) .....	Associate Professor of Anthropology
Moore, Robert, Ph.D. (1968-2006) .....	Professor of Exercise and Nutritional Sciences
Mora, Jill K., Ed.D. (1994-2007) .....	Associate Professor of Teacher Education
Moramarc, Fred S., Ph.D. (1969-2002) .....	Professor of English
Moreno, Steve G., Ed.D. (1969-1998) .....	Professor of Teacher Education
Morey, Ann I., Ph.D. (1985-2003) .....	Distinguished Research Professor; Director, Center for Educational Leadership, Innovation and Policy
Morgan, Charles, M.S. (1949-1985) .....	Professor of Mechanical Engineering
Morris, Rita I., Ph.D. (1990-2002) .....	Associate Professor of Nursing
Moser, Joseph M., Ph.D. (1959-1998) .....	Professor of Mathematical and Computer Sciences
Murdock, Doris G., B.S.L.S. (1960-1972) .....	Catalog Librarian
Murphy, Dana W., Ph.D. (1980-2008) .....	Lecturer in Political Science, Imperial Valley Campus
Murphy, Monica A., Ph.D. (1969-1992) .....	Professor of Teacher Education
Murphy, Robert J., Ph.D., Professional Degree in Mechanical Engineering (1964-1996) .....	Professor of Mechanical Engineering
Nagel, Anne L., Ph.D. (1971-2002, except F'71-F'73) .....	Lecturer in Teacher Education
Nagel, Thomas S., Ph.D. (1969-1995) .....	Professor of Teacher Education
Nam, Woo Hyun, Ph.D. (1968-1998) .....	Professor of Economics
Neel, James W., Ph.D. (1963-1993) .....	Associate Dean, College of Sciences; Professor of Biology
Nelson, Burt, Ph.D. (1957-1988) .....	Director of the Mt. Laguna Observatory; Professor of Astronomy
Nelson, Hilda B., Ph.D. (1965-1988) .....	Professor of French
Nelson, Sherwood M., Ph.D. (1956-1982) .....	Professor of Philosophy
Nelson, Thomas A., Ph.D. (1968-2000) .....	Professor of English
Nesvig, David T., Ed.D. (1967-1997) .....	Counselor
Neuman, Donald R., Ph.D. (1967-1991) .....	Counselor
Neumeyer, Peter F., Ph.D. (1978-1993) .....	Professor of English and Comparative Literature
Nichols, Alan C., Ph.D. (1964-2000) .....	Professor of Communicative Disorders
Nichols, Paul F., Ph.D. (1965-1992) .....	Professor of Physics
Noorany, Iraj, Ph.D., Professional Degree in Civil Engineering (1963-1997) .....	Professor of Civil and Environmental Engineering
Norman, Nelson F., Ph.D. (1960-1983) .....	Professor of History
Norman, Ronald J., Ph.D. (1985-2000) .....	Professor of Information and Decision Systems
Noto, James V., H.S.D. (1969-2001) .....	Associate Professor of Public Health
Nower, Leon, Ph.D. (1963-1990) .....	Associate Professor of Mathematical Sciences
Nye, William A., Ph.D. (1962-1996) .....	Professor of Finance
O'Brien, Albert C., Ph.D. (1965-2000) .....	Professor of History
O'Brien, Mary E., Ph.D. (1966-2000) .....	Associate Professor of Spanish
Ochoa, Alberto M., Ed.D. (1975-2008) .....	Professor of Policy Studies in Language and Cross-Cultural Education
Odendahl, Eric M., Ph.D. (1964-1992) .....	Professor of Journalism
O'Donnell, Terry L., D.M.A. (1975-2008) .....	Professor of Music and Theatre, Television, and Film
Ofield, Jack (1988-2009) .....	Professor of Theatre, Television, and Film
Oglesby, Allan C., M.D. (1984-1990) .....	Professor of Public Health
Ohnysty, Basil, M.S., Professional Degree in Mechanical Engineering (1967-1997) .....	Professor of Mechanical Engineering
Olson, Jr., Andrew C., Ph.D. (1946-1980) .....	Professor of Zoology
Omberg, Edward, Ph.D. (1989-2006) .....	Professor of Finance
O'Neal, H. Edward, Ph.D. (1961-1994) .....	Professor of Chemistry
O'Reilly, Peter, Ph.D. (1968-1983) .....	Professor of Philosophy
Orth, Fredrick J., M.F.A. (1965-2001) .....	Professor of Art, Design, and Art History
Oseroff, Saul B., Ph.D. (1984-2008) .....	Professor of Physics
O'Shaughnessy, Tam E., Ph.D. (2002-2007) .....	Associate Professor of Counseling and School Psychology
Pacheco, Richard, Ph.D. (1979-2003) .....	Professor of Policy Studies in Language and Cross-Cultural Education
Palmer, Dennis, A.B. (1965-1997) .....	Associate Professor of French
Palsson, Gerald D., M.A. (1976-2003) .....	Associate Librarian
Panos, Nicholas, M.S.E.E., Professional Degree in Electrical and Computer Engineering (1968-2001) .....	Professor of Electrical and Computer Engineering
Paolini, Jr., Paul J., Ph.D. (1970-2003) .....	Professor of Biology
Park, Chong Jin, Ph.D. (1972-1999) .....	Professor of Mathematical and Computer Sciences
Parsons, John A., Ph.D. (1965-1990) .....	Professor of Biology
Paulin, Harry W., Ph.D. (1962-1991) .....	Professor of German
Pease, William J., M.A., M.L.S. (1973-1992) .....	Librarian
Peddecord, K. Michael, Dr.P.H. (1981-2005) .....	Professor of Public Health
Pehrson, Robert B., Ph.D. (1969-1996) .....	Professor of Teacher Education
Peisner, Earl F., Ed.D. (1961-1990) .....	Counselor; Professor of Counselor Education
Pendleton, Wade C., Ph.D. (1969-2002) .....	Professor of Anthropology
Penn, Robert, Ph.D. (1960-1991) .....	Professor of Psychology
Perczel, Csilla F., Ph.D. (1970-1990) .....	Associate Professor of Art
Person, Gerald A., Ph.D. (1957-1981) .....	Professor of Secondary Education
Peterman, Jr., Lewis E., Ph.D. (1978-2005) .....	Professor of Music
Peterson, Donald W., Ph.D. (1974-1992) .....	Associate Professor of Recreation, Parks and Tourism
Peterson, Gary L., Ph.D. (1963-2007) .....	Professor of Geological Sciences
Peterson, Richard H., Ph.D. (1978-1996) .....	Professor of History
Phelps, Leroy N., Ph.D. (1966-1990) .....	Associate Professor of Biology
Phillips, Jr., William H., Ed.D. (1963-1991) .....	Professor of Physical Education
Phleger, Charles F., Ph.D. (1971-2001) .....	Professor of Biology
Pierce, Stephen J., Ph.D. (1984-2004) .....	Professor of Mathematics
Pierucci, Mauro, Ph.D. (1979-2005) .....	Professor of Aerospace Engineering and Engineering Mechanics
Piland, William E., Ed.D. (1987-2003) .....	Professor of Administration, Rehabilitation and Postsecondary Education

## Emeritus Faculty

Pisarchio, Robert J., Ph.D. (1966-2000) .....	<i>Professor of Physics</i>
Platz, Marvin H., Ed.D. (1955-1983) .....	<i>Professor of Secondary Education</i>
Plotnik, Rod, Ph.D. (1970-1999) .....	<i>Professor of Psychology</i>
Plymale, Harry H., D.V.M. (1962-1991) .....	<i>Associate Professor of Biology</i>
Pointer, Dennis D., Ph.D. (1991-2002) .....	<i>Professor of Public Health</i>
Polich, John L., Ph.D. (1969-1999) .....	<i>Associate Professor of History, Imperial Valley Campus</i>
Popp, Dean O., Ph.D. (1969-2003) .....	<i>Associate Vice President for Faculty Affairs; Professor of Economics</i>
Poroy, Ibrahim I., Ph.D. (1967-1987) .....	<i>Professor of Economics</i>
Posner, Walter H., M.A., M.A.L.S. (1962-1988) .....	<i>Senior Assistant Librarian</i>
Preston, David L., Ph.D. (1971-2001) .....	<i>Professor of Sociology</i>
Price, Judy M., Ph.D. (1972-2008) .....	<i>Associate Professor of Psychology</i>
Pryde, Philip R., Ph.D. (1969-2001) .....	<i>Professor of Geography</i>
Psomas, Themistocles, Ph.D. (1952-1982) .....	<i>Associate Professor of Psychology</i>
Ptacek, Anton D., Ph.D. (1965-1992) .....	<i>Associate Professor of Geological Sciences</i>
Quastler, Imre E., Ph.D. (1967-2002) .....	<i>Professor of Geography</i>
Quinn, Rebecca A., Ph.D. (1971-2001) .....	<i>Assistant Professor of Exercise and Nutritional Sciences</i>
Ramage, Jean C., Ph.D. (1975-1989) .....	<i>Professor of Counselor Education</i>
Rankin, Janna S., J.D. (1986-1994) .....	<i>Professor of Recreation, Parks and Tourism</i>
Rao, M. V. Rama, Ph.D. (1957-1982) .....	<i>Professor of Mechanical Engineering</i>
Rasmussen, Aaron P., Ph.D. (1971-1980) .....	<i>Associate Professor of Industrial Studies</i>
Ratty, Frank J., Ph.D. (1954-1984) .....	<i>Professor of Biology</i>
Ray, Eugene A., M.F.A. (1969-1996) .....	<i>Professor of Art</i>
Raymer, Paul H., M.S.W. (Under contract 1969-70; 1970-1995) .....	<i>Assistant Professor of Social Work</i>
Real, Michael R., Ph.D. (1980-2000) .....	<i>Professor of Communication</i>
Redding, Mary Worden, Ph.D. (1967-1983) .....	<i>Associate Professor of English and Comparative Literature</i>
Redding, Robert W., Ph.D. (1966-1985) .....	<i>Associate Professor of English and Comparative Literature</i>
Reed, Richard C., Ed.D. (1984-2008) .....	<i>Assistant Dean for Student Affairs, College of Health and Human Services; Associate Professor of Nursing</i>
Reel, Jane E., Ph.D. (1958-1991) .....	<i>Associate Professor of Teacher Education</i>
Rehfuss, Donald E., Ph.D. (1962-2004) .....	<i>Professor of Physics</i>
Reid, W. Nick, M.F.A., M.A. (1983-2007) .....	<i>Professor of Theatre, Television, and Film</i>
Reints, William W., Ph.D. (1966-1992) .....	<i>Professor of Finance</i>
Retson, James N., Ed.D. (1968-1992) .....	<i>Professor of Teacher Education</i>
Richardson, William H., Ph.D. (1963-1994) .....	<i>Professor of Chemistry</i>
Riedman, Richard M., Ph.D. (1962-1992) .....	<i>Professor of Communicative Disorders</i>
Riegel, Barbara Jean, D.N.Sc. (1984-2002, except F'87-S'95) .....	<i>Professor of Nursing</i>
Riehman, Lynne, D.S.W. (1976-1986) .....	<i>Associate Professor of Social Work</i>
Rigby, Ida K., Ph.D. (1976-2006) .....	<i>Professor of Art, Design, and Art History</i>
Riggs, Dorothy J., Ed.D. (1966-1986) .....	<i>Professor of Teacher Education</i>
Riggs, Lester G., Ph.D. (1950-1978, except 1951-1952) .....	<i>Professor of Mathematical Sciences</i>
Rinehart, Robert R., Ph.D. (1964-1994) .....	<i>Professor of Biology</i>
Ring, Morey A., Ph.D. (1962-1995) .....	<i>Professor of Chemistry</i>
Ritchie, Donn C., Ph.D. (1990-2008) .....	<i>Professor of Educational Technology</i>
Rixman, Eunice E., D.M.A. (1960-1991) .....	<i>Professor of Teacher Education</i>
Robasciotti, Carole A., M.S. (1980-2004) .....	<i>Assistant Dean for Student Affairs, College of Professional Studies and Fine Arts; Lecturer in Exercise and Nutritional Sciences</i>
Robbins, Stephen P., Ph.D. (1979-1993) .....	<i>Professor of Management</i>
Roberts, Ellis E., Ph.D. (1949-1979) .....	<i>Professor of Geological Sciences</i>
Roberts-Fields, Gail C., M.A. (1976-2009) .....	<i>Professor of Art, Design, and Art History</i>
Rodin, Miriam J., Ph.D. (1966-1999) .....	<i>Professor of Psychology</i>
Rodriguez, Jose D., Ph.D. (1977-2007) .....	<i>Associate Professor of Chicana and Chicano Studies</i>
Roeder, Stephen B.W., Ph.D. (1968-2010) .....	<i>Professor of Chemistry</i>
Rogers, Gloria H., M.L.S., M.A. (1985-2003) .....	<i>Associate Librarian</i>
Rogers, John J., M.S. (1963-1996) .....	<i>Professor of Art</i>
Rogers, II, William N., Ph.D. (1968-2003) .....	<i>Professor of English and Comparative Literature</i>
Rohrli, Vivian J., Ph.D. (1965-2001) .....	<i>Professor of Anthropology</i>
Rollefson, Gary O., Ph.D. (1984-1992) .....	<i>Professor of Anthropology</i>
Romano, Albert, Ph.D. (1963-1990) .....	<i>Professor of Mathematical Sciences</i>
Rosenbaum, Gerald, Ph.D. (1989-1994) .....	<i>Professor of Psychology</i>
Rosenstein, Leon, Ph.D. (1969-2003) .....	<i>Professor of Philosophy</i>
Ross, Helen Warren, Ph.D. (1973-1998) .....	<i>Professor of Child and Family Development</i>
Ross, James E., Ph.D. (1969-1999) .....	<i>Professor of Mathematical and Computer Sciences</i>
Ross, Pamela J., Ph.D. (1977-2008) .....	<i>Professor of Teacher Education</i>
Ross, Ramon R., Ed.D. (1961-1992) .....	<i>Professor of Teacher Education</i>
Rossett, Allison, Ed.D. (1977-2007) .....	<i>Professor of Educational Technology</i>
Rother, James, Ph.D. (1969-2003) .....	<i>Professor of English and Comparative Literature</i>
Rushall, Brent S., Ph.D. (1985-2004) .....	<i>Professor of Exercise and Nutritional Sciences</i>
Ryan, Richard W., Ph.D. (1982-2007) .....	<i>Professor of Public Affairs, Imperial Valley Campus</i>
Saba, Farhad, Ph.D. (1984-2009) .....	<i>Professor of Educational Technology</i>
Sabbadini, Roger A., Ph.D. (1977-2008) .....	<i>Professor of Biology</i>
Sachdeva, Kanwal S., D.B.A. (1976-2004) .....	<i>Associate Professor of Finance</i>
Saltz, Daniel, Ph.D. (1959-1995) .....	<i>Professor of Mathematical Sciences</i>
Salzer, Beeb, M.F.A. (1982-2008) .....	<i>Professor of Theatre, Television, and Film</i>
Samovar, Larry A., Ph.D. (1963-2000) .....	<i>Professor of Communication</i>
Samuelson, Richard A., Ph.D., Certified Public Accountant (1973-2000) .....	<i>Professor of Accountancy</i>
Sandelin, Mary Lee, M.L.S. (1968-1983) .....	<i>Senior Assistant Librarian</i>
Sanderlin, George W., Ph.D. (1954-1983) .....	<i>Professor of English and Comparative Literature</i>
Sanders, Frederick C., Ph.D. (1967-1981) .....	<i>Associate Professor of Speech Communication</i>
Sandlin, Joann S., Ph.D. (1967-1994) .....	<i>Professor of Sociology</i>
Sanner, Richard L., Ed.D. (1965-1981) .....	<i>Media Specialist</i>
Sardinas, Maria A., M.T., M.S.W. (1968-1989) .....	<i>Associate Professor of Social Work</i>
Sattler, Jerome M., Ph.D. (1965-1994) .....	<i>Professor of Psychology</i>
Savvas, Minas, Ph.D. (1968-2001) .....	<i>Professor of English and Comparative Literature</i>
Schapiro, Harriette C., Ph.D. (1966-1990) .....	<i>Professor of Biology</i>
Schatz, Arthur W., Ph.D. (1963-1992) .....	<i>Assistant Dean, Graduate Division and Research; Professor of History</i>
Scheck, Dennis C., Ph.D. (1968-2001) .....	<i>Professor of Sociology</i>
Schlesinger, Robert J., Ph.D. (1984-1997) .....	<i>Professor of Information and Decision Systems</i>
Schmier, Walter D., J.D. (1967-1975) .....	<i>Associate Professor of Business Law</i>
Schulte, Richard H., Ph.D. (1965-2002) .....	<i>Professor of Psychology</i>
Schultze, William A., Ph.D. (1968-2000) .....	<i>Professor of Political Science</i>
Schulze, Rolf H.K., Ph.D. (1969-1998) .....	<i>Professor of Sociology</i>
Sciglimpaglia, Don, Ph.D. (1977-2009) .....	<i>Professor of Marketing</i>
Scollay, Patricia A., Ph.D. (1972-2002) .....	<i>Associate Professor of Psychology</i>
Scott, Carole A., Ph.D. (1969-2001) .....	<i>Dean, Undergraduate Studies; Professor of English</i>
Scutchfield, F. Douglas, M.D. (1980-1997) .....	<i>Professor of Public Health</i>
Sebold, Frederick D., Ph.D. (1969-1987) .....	<i>Professor of Economics</i>
Segade, Gustavo V., Ph.D. (1967-2000) .....	<i>Professor of Spanish</i>
Segal, Evalyn F., Ph.D. (1973-1983) .....	<i>Professor of Psychology</i>
Seitz, Michael R., Ph.D. (1985-2004) .....	<i>Professor of Speech, Language, and Hearing Sciences</i>
Selder, Dennis J., Ph.D. (1968-2000) .....	<i>Professor of Exercise and Nutritional Sciences</i>
Senn, Karen L., Ed.D., M.P.H. (1977-2002) .....	<i>Professor of Public Health</i>
Senour, Maria Nieto, Ph.D. (1977-2009) .....	<i>Professor of Counseling and School Psychology</i>
Seright, Orin D., Ph.D. (1967-1997) .....	<i>Associate Professor of Linguistics</i>
Settle, Robert B., Ph.D. (1972-1988) .....	<i>Professor of Marketing</i>
Shackelford, Gordon L., M.S. (1975-2004) .....	<i>Lecturer in Physics</i>
Sharabi, M. Nazmi, Ph.D. (1981-2004) .....	<i>Associate Professor of Civil and Environmental Engineering</i>
Sharpe, David M., Ed.D. (1977-2004) .....	<i>Director, Instructional Technology Services; Senior Vocational Instructor</i>
Shaw, Larry J., Ed.D. (1968-2001) .....	<i>Professor of Teacher Education</i>
Sheldon, John M., Ed.D. (1962-1997) .....	<i>Professor of Music</i>
Shepard, David C., Ph.D. (1956-1991) .....	<i>Professor of Biology</i>
Sheres, Ita G., Ph.D. (1971-2001) .....	<i>Professor of English and Comparative Literature</i>

Sherr, Steven D., Ph.D. (1969-2003).....	Counselor
Sherrard, William R., Ph.D. (1968-2000).....	Professor of Information and Decision Systems
Shields, Allan E., Ph.D. (1949-1977, except 1969-1970).....	Professor of Philosophy
Shimoguchi, Wayne M., M.L.I.S. (1988-1995).....	Senior Assistant Librarian
Shira, Jr., Donald W., M.A.L.S. (1958-1986).....	Senior Assistant Librarian
Shirk, Helen Z., M.F.A. (1976-2005).....	Professor of Art, Design, and Art History
Shively, Martha J., Ph.D. (1978-2003).....	Professor of Nursing
Shojai, Donald A., Ph.D. (1971-2002).....	Professor of English and Comparative Literature
Shore, Herbert B., Ph.D. (1975-2002).....	Professor of Physics
Short, Jr., Donald R., Ph.D. (1969-2001).....	Professor of Mathematical and Computer Sciences
Short, James L., Ph.D. (1973-2003).....	Professor of Finance
Shutts, William H., Ph.D. (1958-1977).....	Professor of Aerospace Engineering
Siman, Alan E., Ph.D. (1974-2002).....	Associate Professor of Social Work
Skaar, Donald L., M.S. (1960-1981).....	Professor of Electrical and Computer Engineering
Sleet, David A., Ph.D. (1974-1997).....	Professor of Exercise and Nutritional Sciences and Health Science
Smith, Beverly A., M.S. (1968-1996).....	Assistant Professor of Exercise and Nutritional Sciences
Smith, Jr., Charles D., Ph.D. (1967-1992).....	Professor of History
Smith, Jane K., Ph.D. (1968-2009, except 1970).....	Assistant Vice President for Academic Services, Academic Affairs
Smith, John R., Ph.D. (1957-1986).....	Associate Professor of Psychology
Smith, Jr., Louis E., Ph.D. (1946-1979).....	Professor of Physics
Smith, Newton B., Ph.D. (1954-1986).....	Professor of Mathematical Sciences
Smith, Jr., Ray T., Ph.D. (1964-1996).....	Professor of History
Snudden, Leslie W., D.B.A. (1959-1987).....	Professor of Accountancy
Snyder, William S., Ph.D. (1960-1990).....	Professor of Philosophy
Sonntag, Iliana L., M.L.S., M.A. (1980-1991).....	Librarian
Sorensen, George W., Ph.D. (1967-1986).....	Professor of Journalism and Sociology
Sorochan, Walter D., H.S.D. (1969-1991).....	Professor of Health Science
Soule, John W., Ph.D. (1970-2001).....	Professor of Political Science
Sowder, Judith T., Ph.D. (1986-2000).....	Professor of Mathematical and Computer Sciences
Sowder, Larry K., Ph.D. (1986-2003).....	Professor of Mathematics
Sparks, Irving Alan, Ph.D. (1974-1999).....	Professor of Religious Studies
Sparrow, Glen W., Ph.D. (1980-2001).....	Professor of Public Administration and Urban Studies
Spaulding, Jr., William E., Ph.D. (1970-1985).....	Professor of Information Systems
Spevak, Joseph E., Ph.D. (1969-2006).....	Assistant Professor of Communication
Spindler, Audrey A., Ph.D. (1977-2007).....	Professor of Exercise and Nutritional Sciences
Spinetta, John J., Ph.D. (1972-2003).....	Professor of Psychology
Springer, Arthur, Ph.D. (1968-2001).....	Associate Professor of Mathematical and Computer Sciences
Srbich, Alexander L., Ph.D. (1959-1983).....	Professor of Management
Stanford, E. Percil, Ph.D. (1973-2001).....	Professor of Social Work
Starr, Raymond G., Ph.D. (1964-1999).....	Professor of History
Stauffer, Thomas David, M.A. (1984-2008).....	Professor of Music
Stautland, Sigurd, Ph.D. (1966-1991).....	Professor of Teacher Education
Steckbauer, Mark J., Ed.D. (1967-1992).....	Professor of Teacher Education
Steen, Paul J., M.A. (1970-1992).....	Professor of Telecommunications and Film; Director of University Telecommunications
Steinberg, Dan, Ph.D. (1989-1998).....	Associate Professor of Economics
Stephenson, Clarence E., Ph.D. (1963-1991).....	Professor of Drama
Stephenson, III, John S., Ph.D. (1969-1986).....	Professor of Sociology
Stevens, Larry P., Ed.D. (1986-1991).....	Assistant Professor of Administration, Rehabilitation and Postsecondary Education
Stevens, Walter R., Ph.D. (1956-1990).....	Professor of Psychology
Stewart, Charles J., Ph.D. (1955-1992).....	Professor of Chemistry
Stewart, Douglas B., Ph.D. (1971-2001).....	Professor of Economics
Stiehl, Harry C., Ph.D. (1969-1992).....	Professor of English
Stites, Francis N., Ph.D. (1968-2000).....	Professor of History
Stoddart, Jess L., Ph.D. (1966-1998).....	Professor of History
Strand, Paul J., Ph.D. (1977-2004).....	Professor of Political Science
Stratton, Frank E., Ph.D., Professional Degree in Civil Engineering (1966-1997).....	Professor of Civil and Environmental Engineering
Straub, Lura Lynn, M.C.S. (1948-1978).....	Professor of Information Systems
Streshly, William A., Ph.D. (1990-2000).....	Professor of Administration, Rehabilitation and Postsecondary Education
Strom, David W., Ed.D. (1968-2005).....	Professor of Teacher Education
Strong, Douglas H., Ph.D. (1964-1990).....	Professor of History
Stuart, Robert J., Ph.D. (1969-1987).....	Professor of Electrical and Computer Engineering
Stutz, Frederick P., Ph.D. (1970-2004).....	Professor of Geography
Sucato, Vincent, Ph.D. (1974-2003).....	Assistant Professor of Social Work
Sucec, Anthony A., Ed.D. (1967-2001).....	Professor of Exercise and Nutritional Sciences
Sweedler-Brown, Carol O., Ph.D. (1975-2005).....	Professor of Rhetoric and Writing Studies
Sweeney, Nancy M., D.N.Sc. (1999-2007).....	Associate Professor of Nursing
Talamantes, Florence W., Ph.D. (1962-1992).....	Associate Professor of Spanish
Talbert, Freddie D., Ph.D. (1968-2002).....	Associate Professor of Astronomy
Taylor, James W., Ph.D. (1950-1980).....	Professor of Geography
Taylor, Kenneth M., Ph.D. (1949-1978).....	Professor of Biology
Teasdale, John G., Ph.D. (1956-1982).....	Professor of Physics
Templin, Jacques D., Ph.D. (1962-1999).....	Professor of Physics
Terrell, Louis M., Ph.D. (1969-2003).....	Professor of Political Science
Terry-Guyer, Linda L., Ed.D. (1990-2007).....	Associate Professor of Counseling and School Psychology
Thal, Donna J., Ph.D. (1990-2006).....	Professor of Speech, Language, and Hearing Sciences
Thiel, Donald W., Ph.D. (1957-1986).....	Professor of Industrial Studies
Thiele, Edmund L., Ph.D. (1967-1998).....	Professor of Communicative Disorders
Thomas, Beatrice A., M.A. (1954-1977).....	Professor of Nursing
Thompson, Gordon M., Ph.D. (1969-2001).....	Associate Professor of Counseling and School Psychology
Thompson, Patrick W., Ed.D. (1990-1999).....	Professor of Mathematical and Computer Sciences
Threet, Richard L., Ph.D. (1961-1981).....	Professor of Geological Sciences
Thwaites, William M., Ph.D. (1965-1995).....	Associate Professor of Biology
Thyagarajan, Kadayam S., Doctorate of Engineering (1980-1999).....	Professor of Electrical and Computer Engineering
Tollefsen, Dorothy J., M.A. (1946-1972).....	Professor of Physical Education
Toole, Howard R., Ph.D. (1972-2005).....	Professor of Accountancy
Tossas, Leila de Irizarry, Ed.D. (1961-1977).....	Professor of Elementary Education
Tozer, Lowell, Ph.D. (1954-1986).....	Professor of English and Comparative Literature
Tran, My Luong, Ph.D. (1981-2006).....	Associate Professor of Teacher Education
Treadway, Jr., Gerald H., Ed.D. (1970-2006).....	Professor of Teacher Education
Troxell, Eugene A., Ph.D. (1966-2000).....	Associate Professor of Philosophy
Turner, Marjorie S., Ph.D. (1954-1977).....	Professor of Economics
Underhill, Robert, Ph.D. (1972-2007).....	Professor of Linguistics
Vails-Weber, Dorothy V., M.A. (1970-1998).....	Counselor
Valle, Juan Ramon, Ph.D. (1974-1996).....	Professor of Social Work
Vandenberg, Pieter A., D.B.A. (1969-2004).....	Professor of Finance
Vanderbilt, Kermit, Ph.D. (1962-1988).....	Professor of English and Comparative Literature
Vanderwood, Paul J., Ph.D. (1969-1994).....	Professor of History
Van de Wetering, R. Lee, Ph.D. (1960-1992).....	Professor of Mathematical Sciences
Vanier, Dinoo T., Ph.D. (1970-1998).....	Professor of Marketing
Van Sickle, Douglas J., Ph.D. (1978-2004).....	Director, Counseling and Psychological Services, Student Affairs; Counselor
Van Steenberg, James F., Ph.D. (1970-1993).....	Professor of Biology
Varela-Ibarra, José L., Ph.D. (1976-1991).....	Associate Professor of Spanish, Imperial Valley Campus
Vartanian, Pershing, Ph.D. (1968-2001).....	Professor of History
Venable, Carol F., Ph.D. (1987-2010).....	Professor of Accountancy
Venieris, Yiannis P., Ph.D. (1967-1998).....	Professor of Economics
Verderber, Anne, Ph.D. (1971-1992).....	Associate Professor of Nursing
Vergani, GianAngelo, Dottorato in Lettere (1963-1992).....	Professor of Italian
Vergani, Luisa M., Dottorato in Lettere (1969-1983).....	Professor of Italian

## Emeritus Faculty

Vik, Gretchen N., Ph.D. (1975-2009) .....	<i>Professor of Information and Decision Systems</i>
Villarino, José R., Ph.D. (1969-2001) .....	<i>Professor of Chicana and Chicano Studies</i>
Villone, Arnold L., Ph.D. (1968-1998) .....	<i>Professor of Mathematical and Computer Sciences</i>
Vinge, Vernor S., Ph.D. (1972-2000) .....	<i>Associate Professor of Mathematical and Computer Sciences</i>
Wahl, Patricia R., Ph.D. (1990-2006) .....	<i>Professor of Nursing</i>
Walawender, Michael J., Ph.D. (1972-2001) .....	<i>Professor of Geological Sciences</i>
Walba, Harold, Ph.D. (1949-1986) .....	<i>Professor of Chemistry</i>
Wall, Carey G., Ph.D. (1971-2002) .....	<i>Professor of English</i>
Wallace, Robert D., Litt. D. (1957-1986) .....	<i>Professor of Art</i>
Wallace, William J., Ph.D. (1969-2001) .....	<i>Associate Professor of Geological Sciences and Physics</i>
Wang, Kuo Chang, Ph.D. (1980-1999) .....	<i>Professor of Aerospace Engineering and Engineering Mechanics</i>
Warburton, John T., Ed.D. (1968-1982) .....	<i>Associate Professor of Educational Administration</i>
Ward-Steinman, David, D.M.A. (1961-2003) .....	<i>Professor of Music</i>
Warren, Edward W., Ph.D. (1963-1990) .....	<i>Professor of Philosophy and Classics</i>
Warschauer, Thomas M.D., Ph.D. (1977-2005) .....	<i>Professor of Finance</i>
Watson, Lawrence C., Ph.D. (1967-1992) .....	<i>Professor of Anthropology</i>
Watson, Maria-Barbara, Ph.D. (1976-2003) .....	<i>Professor of Women's Studies</i>
Webb, Charles R., Ph.D. (1949-1972, except 1965) .....	<i>Professor of History</i>
Webb, Charlotte, Ph.D. (1975-2004) .....	<i>Associate Professor of Linguistics</i>
Wedberg, Hale L., Ph.D. (1959-1983) .....	<i>Professor of Botany</i>
Weiner, Michael A., Ph.D. (2000-2005) .....	<i>Professor of Asia Pacific Studies</i>
Weissman, Stanley N., Ph.D. (1962-1991) .....	<i>Professor of Philosophy</i>
Wells, Richard W., M.A. (1961-1994) .....	<i>Associate Professor of Physical Education</i>
Wendling, Aubrey, Ph.D. (1954-1982) .....	<i>Professor of Sociology</i>
Werner, Joan T., Ph.D. (1965-1998) .....	<i>Associate Professor of Sociology</i>
West, John J., M.S. (1969-1989) .....	<i>Senior Assistant Librarian</i>
Wetherill, William H., Ph.D. (1957-1982) .....	<i>Professor of Educational Administration</i>
Wheeler, James L., Ph.D. (1968-1999) .....	<i>Associate Professor of English and Comparative Literature</i>
Whitman, David G., Ph.D. (1969-2001) .....	<i>Associate Professor of Mathematical and Computer Sciences</i>
Whitney, Dan, Ph.D., J.D. (1966-2000) .....	<i>Professor of Anthropology</i>
Whittington, O. Ray, Ph.D., Certified Public Accountant (1978-1999) .....	<i>Professor of Accountancy</i>
Widmer, Kingsley, Ph.D. (1956-1991) .....	<i>Professor of English and Comparative Literature</i>
Wilbur, Robert W., Ph.D. (1974-2004) .....	<i>Associate Dean for Academic Affairs, College of Business Administration; Associate Professor of Finance</i>
Wilding, John H., Ed.D. (1960-1986) .....	<i>Professor of Teacher Education</i>
Williams, Diane R., M.A. (1975-2002) .....	<i>Associate Professor of Communicative Disorders</i>
Williamson, Gloria R., M.A. (1961-1979) .....	<i>Associate Professor of Physical Education</i>
Williamson, James E., Ph.D., Certified Public Accountant (1968-2002) .....	<i>Professor of Accountancy</i>
Willis, George C., M.F.A. (1967-2001) .....	<i>Associate Professor of Dance</i>
Willis, Winnie O., Sc.D. (1984-2004) .....	<i>Professor of Public Health</i>
Wilson, Carole, M.L.S. (1981-2003) .....	<i>Associate Librarian</i>
Wilson, Carlos G., Ph.D. (1992-2006) .....	<i>Professor of Spanish</i>
Wilson, Donald G., Ph.D. (1982-1992) .....	<i>Lecturer in Electrical and Computer Engineering</i>
Wilson, Patricia A., D.P.A. (1990-2007) .....	<i>Professor of Public Administration and Urban Studies</i>
Wilson, Wilfred J., Ph.D. (1963-1992) .....	<i>Professor of Biology</i>
Winslow, Robert W., Ph.D. (1965-2000) .....	<i>Professor of Sociology</i>
Witherspoon, John P., M.A. (1979-1992) .....	<i>Professor of Telecommunications and Film</i>
Wolter, Gerhard, M.S. (1957-1975) .....	<i>Professor of Physics</i>
Woo, Catherine Yi-yu Cho, Ed.D. (1970-1997) .....	<i>Professor of Chinese</i>
Woodson, John H., Ph.D. (1961-1998) .....	<i>Professor of Chemistry</i>
Wotruba, Thomas R., Ph.D. (1962-2000) .....	<i>Professor of Marketing</i>
Wozniak, Dolores A., Ed.D. (1976-2004) .....	<i>Dean, College of Health and Human Services; Professor of Nursing</i>
Wright, Penny L., Ph.D. (1972-2002) .....	<i>Professor of Management</i>
Wright, Richard D., Ph.D. (1964-2002) .....	<i>Professor of Geography</i>
Wulbern, Julian H., Ph.D. (1966-1993) .....	<i>Professor of German</i>
Wylie, Donald G., Ph.D. (1966-1992) .....	<i>Professor of Telecommunications and Film</i>
Yates, Charles D., M.A. (1970-1998) .....	<i>Professor of Music</i>
Yerkes, Diane M., Ed.D. (1999-2001) .....	<i>Associate Professor of Administration, Rehabilitation and Postsecondary Education</i>
Yesselman, Charlotte B., Ph.D. (1967-1988) .....	<i>Professor of Teacher Education</i>
Young, Arthur, Ph.D. (1967-2000) .....	<i>Professor of Astronomy</i>
Young, Ronald R., Ph.D. (1971-2003) .....	<i>Associate Professor of Spanish</i>
Zedler, Joy B., Ph.D. (1972-1998) .....	<i>Professor of Biology</i>
Zedler, Paul H., Ph.D. (1969-1998) .....	<i>Professor of Biology</i>
Zuniga, Maria E., Ph.D. (1985-2002) .....	<i>Professor of Social Work</i>
Zyskind, Judith W., Ph.D. (1982-2002) .....	<i>Professor of Biology</i>

# Lecturers 2009-2010

## ARTS AND LETTERS

Abbenante, Dominic Anthony, Geography  
 Acejo, Henry Abalayan, Linguistics  
 Ackland, Gillian Mary, Linguistics  
 Aguilar, Mario Edward, Chicana and Chicano Studies  
 Aguilon, Erica Brooke, English  
 Albarran, Areli Aguilar, Political Science  
 Albers, Noah Matthew, Geography  
 Alfaro, Victor Clark, Arts and Letters, General  
 Alicio, Atilio Vega, Linguistics  
 Allem, Jon-Patrick, Political Science  
 Allen, Christopher Thomas, History  
 Allison, Clinton James, History  
 Alomia, Cynthia, Economics  
 Alonso-Sed, Jose M., Spanish  
 Amano, Daisuke, Arts and Letters, General  
 Amano, Daisuke, Linguistics  
 Anderson, William George, Geography  
 Anderson, James, Philosophy  
 Annicchiarico, Judith Lauri, Rhetoric and Writing Studies  
 Antonio, Veronica, English  
 Arambul, Matthew Richard, Arts and Letters, General  
 Arenas, Veronica, Spanish  
 Arredondo, Sophie Capucine, Women's Studies  
 Arrington, Christina Lynn Marie, Women's Studies  
 Arteaga, Gerardo, Spanish  
 Baca-Winters, Keenan Gregory, History  
 Barbeau, Michelle Andrea, Rhetoric and Writing Studies  
 Barboo, Samuel Edwin, Linguistics  
 Barhoum, Sim, Rhetoric and Writing Studies  
 Barnard, Gina Mari, English  
 Bart, Ryan Roger, Geography  
 Basko, Susan Jayme, Arts and Letters, General  
 Baslee, Michael Melvin, Africana Studies  
 Bates, Jessica Leigh, Anthropology  
 Baumann, Jeffrey Eugene, History  
 Becerra, David, Spanish  
 Bedolla, Mayra Dinorah, Spanish  
 Bee, Ronald John, Political Science  
 Beesley, Dennis Joseph, History  
 Beland, Michael Cooper, Geography  
 Bell, Christopher J., English  
 Bellettiere, John, Economics  
 Benitez, Carlos, English  
 Benza Fiocco, Magdalena, Geography  
 Berumen, Rosa Maria, English  
 Bialo, Caralyn A., English  
 Bickley, Joseph Malte, History  
 Bigley, Brittany Elizabeth, Political Science  
 Bikoulis, Apostolos, Economics  
 Bishop, Ethan Jarrod, English  
 Bissegger, Tabettha, Rhetoric and Writing Studies  
 Boeck, Candace Ann, Rhetoric and Writing Studies  
 Borgen, Linda Christine, Rhetoric and Writing Studies  
 Borgstrom, Jinna Simone, History  
 Bowie, Nadila S., Spanish  
 Boyens, Tamara Brooke, Arts and Letters, General  
 Bradley, Monica Irene, English  
 Bradway, Garrett Daniel, History  
 Braff, Lara R., Anthropology  
 Bredemeyer, William Rawson, Geography

Bremer, Leah Lodge, Geography  
 Brickey, Michael Charles, History  
 Brown, Dawn M., Rhetoric and Writing Studies  
 Brush, Barbara L., Rhetoric and Writing Studies  
 Bryson, Liane, Rhetoric and Writing Studies  
 Burke, Joleen Eleanor, Economics  
 Burke, Kimberly Cecilia, Women's Studies  
 Burt, Rose Allison, English  
 Butler, Maria Gisela, Chicana and Chicano Studies  
 Calloway, David L., Rhetoric and Writing Studies  
 Camacho, Paulo Casillan, Sociology  
 Camp, Mallory Elyse, Political Science  
 Cao, Zuoya, Linguistics  
 Carrico, Richard L., American Indian Studies  
 Carrillo-Viveros, Jorge H., Arts and Letters, General  
 Carter, William L., Economics  
 Castro, Esther, Spanish  
 Cates, Jeremiah Moises, Economics  
 Cavender, Annette, Rhetoric and Writing Studies  
 Cefalu, Rita F., Religious Studies  
 Celis, Javier Andres, Economics  
 Chagala, James C., Geography  
 Chambers, Jessica Lee, Linguistics  
 Champion, Sarah Katherine, Geography  
 Chason, Caitlin Lindsay, Geography  
 Chiles, Philip Anthony, English  
 Chiolini Bagley, Rossella, Spanish  
 Choi, Hoon Min, Economics  
 Chukhray, Irina, Women's Studies  
 Chukwuma, Ogochukwu Theresa, Economics  
 Ciari, Jennifer Christine, Economics  
 Cissel, Sean Forrester, English  
 Clague, Christopher K., Economics  
 Clanton, Gordon, Sociology  
 Cleveland, Brunilda Aurora, Spanish  
 Colley, Donald Edward, Geography  
 Collins, Lashae Nicole, Africana Studies  
 Connolly, Michael Louis, American Indian Studies  
 Contreras, Cesar Enrique, Spanish  
 Cook, Sean Gregory, Geography  
 Copeland, Matthew Robert, Rhetoric and Writing Studies  
 Cordua, Kaitlin Louise, Spanish  
 Cortopassi, Paul Bradley, Sociology  
 Costello, Molly M., Geography  
 Costello, Matthew Jon, Rhetoric and Writing Studies  
 Coto, Nancy M., Spanish  
 Craft, Brenna Maurine, Political Science  
 Crawford, Kathleen A., History  
 Crespo, Antonio, Spanish  
 Crocitti, John J., Arts and Letters, General  
 Crotty, Sean Michael, Geography  
 Cruz, Luciano Neves, Sociology  
 Cummings, Tracy Clare, English  
 Curti, Giorgio Hadi, Geography  
 Dalton, Eric Joseph, Linguistics  
 Davies, Sally Annlouise, Sociology  
 Davies-Morris, Gareth Neil, Classics  
 Davies-Morris, Gareth Neil, Rhetoric and Writing Studies  
 Davis, Melissa Victoria, Women's Studies  
 De Abreu, Cassia Carolina, Spanish  
 Degueldre, Christian, Spanish  
 Di Bella, Edward George, History

Diaz, Carina Hernandez, Spanish  
 Diaz-Waian, Marisa, Arts and Letters, General  
 Diaz-Waian, Marisa, Philosophy  
 Dickensheet, Edward John, Political Science  
 Dill, Bert L., Rhetoric and Writing Studies  
 Dirige, Ofelia, Asian Studies  
 Dodson, Leah Michelle, Political Science  
 Dominguez, Cristina Maria, Women's Studies  
 Donato, Adriana, Spanish  
 Doran, Matthew Thomas, English  
 Downs, Cheryl Lynn, Linguistics  
 Downum, Juli Donnel, Anthropology  
 Dubie, Renee Katrina, Political Science  
 Duval, Michael Keith, History  
 Edmonds, Jason Lemeul, Africana Studies  
 Edquiland, Catherine Lovell, Linguistics  
 Egipto, Rebecca Pearl, Linguistics  
 El Cheddadi, Youniss, Linguistics  
 Elliott, Debra Ann, Arts and Letters, General  
 Elliott, Debra Ann, Sociology  
 Emery, Laura C., Rhetoric and Writing Studies  
 Epps, Rick, Political Science  
 Erickson, Kelly Elaine, Economics  
 Evans, Timothy Cogswell, English  
 Fajardo-Anstine, Kali Nadine Michelle, English  
 Fanning, Chris Michael, English  
 Farfan Herrera, Laura, Spanish  
 Farrell, Michael Joseph, Geography  
 Faughnder, Natoya Lynne, English  
 Featherstone, Caitlin Victoria, English  
 Federman, Nancy J., Sociology  
 Feike, Gina Michelle, Linguistics  
 Feldman, Heidi, Arts and Letters, General  
 Felix, Ricardo, Chicana and Chicano Studies  
 Fernandez Sierra, Aldara Desiree, Spanish  
 Ferrell, Diana Frances, English  
 Fielden Jr., Carl Joseph, Rhetoric and Writing Studies  
 Figueroa, Juan Cesar, Spanish  
 Fimbres, Sandy Marie, Rhetoric and Writing Studies  
 Finn, Richard D., Rhetoric and Writing Studies  
 Fiore, Amanda Jane, English  
 Fischer, Neal Thomas, English  
 Fish, Hedda A., Rhetoric and Writing Studies  
 Fisher, Delores, Africana Studies  
 Flewelling, Erin Kathleen, Rhetoric and Writing Studies  
 Fraley, Grant William, Geography  
 Frampton, Edith E., English  
 Franks, Robert Clark, Spanish  
 Freeman, Roderick A., Philosophy  
 Freilicher, Melvyn, English  
 Frey, Rebecca Lea, History  
 Frischhertz, Jill O'Neill, English  
 Gabino, Diajaira Rocio, Spanish  
 Galbraith, Mary P., English  
 Ganster, Paul, Arts and Letters, General  
 Gardner, Gabriel George, Political Science  
 Garegnani, Danielle Renae, Linguistics  
 Garrett, Mary Elizabeth, Anthropology  
 Garrison, Danusia Maria, Arts and Letters, General  
 Garrison, Danusia Maria, Political Science  
 Garza, James C., Chicana and Chicano Studies  
 Gastelum, Yvonne Aime, Political Science

## Lecturers

Gauss, David R., Sociology  
 Goerisch, Denise Marie, Geography  
 Gonda, Susan, Women's Studies  
 Gonzalez, Maria Ruiz De, Spanish  
 Gonzalez Sanchez, Beatriz, Spanish  
 Goode, Ryan James, Geography  
 Goodman, Rhonda Kushner, Rhetoric and Writing Studies  
 Gordon, Robert Lee, Economics  
 Gossett, Kevin Michael, English  
 Grajeda-Higley, Leilani, Chicana and Chicano Studies  
 Granger, John F., English  
 Grattan, Michael Joseph, English  
 Greb, G A., Political Science  
 Greenwood, Ashley Elizabeth, Women's Studies  
 Gross, George T., Anthropology  
 Grove, Lisa Ann, English  
 Grover, Rebecca Mary, Geography  
 Groza, Adriana, Rhetoric and Writing Studies  
 Gupta, Ashish, All College  
 Guthrie, Mary Catherine, English  
 Guthrie, Wayne, History  
 Guzman, Roberto, Arts and Letters, General  
 Guzman, Christine, Classics  
 Guzman, Christine, European Studies  
 Gwynne, Ryan Thomas, All College  
 Haight, Adam Gregory, Arts and Letters, General  
 Hallett, Melodie Jane, Sociology  
 Hamada, Yuki, Geography  
 Hame, Kerri J., Classics  
 Hansen, Sarah Lynne, Arts and Letters, General  
 Harker, Amy Elizabeth, European Studies  
 Hastings, Lisa Whittemore, Women's Studies  
 Hay, Jeffrey T., History  
 Hayes, Debra Anne, European Studies  
 He, Ran, Arts and Letters, General  
 Herman, Thomas Michael, Geography  
 Hernandez, Julie Marjean Corvera, Linguistics  
 Herron, Melissa Lorene, Women's Studies  
 Hickox, Daniel J., Geography  
 Hillier, Solimar Iurk, Spanish  
 Hoffman, Catherine Ann, Rhetoric and Writing Studies  
 Hofreiter, Laura Marie, Rhetoric and Writing Studies  
 Hollander, Jennifer Ann, English  
 Holstin, Jill Marie, Rhetoric and Writing Studies  
 Hong, Seo Bin, Economics  
 Hsu, Hsiu-Hua, Economics  
 Huckle, Patricia A., Arts and Letters, General  
 Hughes, Katie Dunigan, Rhetoric and Writing Studies  
 Iglesias, Tasha, Sociology  
 Ikezaki, Gilbert Fumio, Economics  
 Ingram, James W., Political Science  
 Jacobo, Rodolfo, Chicana and Chicano Studies  
 Jaffe, Maxine, English  
 Jaffe, Galadriel, Political Science  
 James, Keith William, Geography  
 Jankowska, Marta Maja, Geography  
 Jia, Shaomeng, Economics  
 Jimenez, Liliana, Spanish  
 Jue, Courtney Michelle, Rhetoric and Writing Studies  
 Jular-Alba, Raquel, Spanish  
 Jung, Sunny, Linguistics  
 Justice, Paul W., Linguistics  
 Kading, Silvia, European Studies  
 Kammerzelt, David Michael, English  
 Kang, Jiyun, Economics  
 Katz, Taylor Mardis, English  
 Kelley, Maureen Lee, Rhetoric and Writing Studies  
 Kelliher, Joseph Paul, Spanish  
 Kelly, Mary L., Religious Studies

Kelly, Mary L., Women's Studies  
 Kendrick, Ethan Neil, English  
 Kennelly, Kimberly Maureen Norlund, English  
 Kenway, Christopher, History  
 Kim, Ick Hoi, Geography  
 Kim, Haekyung, Linguistics  
 Kinkade, Martha E., Rhetoric and Writing Studies  
 Kirkegaard, Brad Andrew, Religious Studies  
 Kline, Karl Andrew, Rhetoric and Writing Studies  
 Kosonoy, Beatriz, Spanish  
 Kowit, Steve M., English  
 Kuhlken, Pamela Fox, English  
 Kuhlken, Pamela Fox, Religious Studies  
 Kulkarni, Kedar, English  
 Kuratani, Asuka, Linguistics  
 Lacy, Karen Elizabeth, Anthropology  
 Lanzbom, Leon Edward, English  
 Larom, David, Asian Studies  
 Larom, David, Political Science  
 Leak, Jacqueline Lee, Women's Studies  
 Lee, Chung-Rui, Geography  
 Lee, Wona, Linguistics  
 Leonard, Wesley Yoshiharu, Anthropology  
 Lewis, Alayne Lee, Spanish  
 Liao, Nozomi, Linguistics  
 Libed, Bibeth-Pamela Calacal, Women's Studies  
 Ligare, Eric David, Sociology  
 Lindell, Jennifer Lee, History  
 Linfor, Cali Andria, Rhetoric and Writing Studies  
 Lippitt, Christopher David, Geography  
 Little, Aaron Joseph, Rhetoric and Writing Studies  
 Liu, Jennifer M., English  
 Locklear, Linda, American Indian Studies  
 Loughran, Danielle, English  
 Lynes, Alex Matthew, Anthropology  
 Macfarland Thuet, Coral, Chicana and Chicano Studies  
 Macias, Georgina, Spanish  
 Macias Camacho, Ada Lidia, Spanish  
 Mack, James B., Rhetoric and Writing Studies  
 Madden, Jamie Lee, Rhetoric and Writing Studies  
 Maggio, Virginia M., Rhetoric and Writing Studies  
 Mahdavi-Izadi, Farid, History  
 Mahin, Michael James, English  
 Malaney, Bridget Sullivan, English  
 Maldonado, Luz Marie, Spanish  
 Malveaux, Regina, Africana Studies  
 Manchen, Kent Stephen, Anthropology  
 Mangiapani, Christina Lee, English  
 Manley, Peter Joseph, Rhetoric and Writing Studies  
 Mark, Brian Matthew, Arts and Letters, General  
 Marron, Ariana Veronica, Sociology  
 Martin, Mekila Del Re, History  
 Martinez, Gabriel, Arts and Letters, General  
 Mather, Michael Benedict, English  
 Mattingly, Scott Alan, Anthropology  
 Maushart, Elizabeth Jane, Political Science  
 Maxwell, Lisa Joan, Political Science  
 Mcglynn, Pamela Jean, English  
 Mckanna, Clare V., History  
 McKenzie, Taylor A., Africana Studies  
 Meeks, Moriah Kristin, Women's Studies  
 Mellos, Vickie, Linguistics  
 Mendoza, Jorge E., Economics  
 Mendoza, Jose L., Spanish  
 Mercurio, John Edward, Political Science  
 Merlie, Francis, English  
 Merriam, Steven C., Rhetoric and Writing Studies  
 Merritt, Anthony, Africana Studies  
 Miller, Joan Theresa, Anthropology

Minniti-Shippey, Jennifer Margaret, English  
 Mohtasham, Mana, Linguistics  
 Montell, Thomas Xavier, History  
 Moose, Isaiah Francis, History  
 Moreno, Christopher Michael, Geography  
 Morgan, Patricia K., Rhetoric and Writing Studies  
 Morhauser, Rob, English  
 Motiee, Mani, Linguistics  
 Mount, Guy, History  
 Murakami, Masao, Political Science  
 Mutrux, Melissa Lynn, English  
 Myers, Todd Eric, Asian Studies  
 Nare, Jessica Leora, Women's Studies  
 Naveh, Chanan, Arts and Letters, General  
 Neculae, Cleopatra Sanda, Geography  
 Negrete, Herman, Spanish  
 Nemmers, Adam Nicholas, English  
 Nerhan, Nolana May, Rhetoric and Writing Studies  
 Nericcio, William A., English  
 Nericcio, Rosalinda F., Spanish  
 Newton, Jameson Ka'eo, Geography  
 Nichols, Richard Floyd, Linguistics  
 Nobiletti, Frank, History  
 Nwokedi, Ifunanya Cynthia, Political Science  
 Odne, David, European Studies  
 Oesterle, Kimberly Kirstin, Women's Studies  
 Oh-Surh, Helen R., Sociology  
 Olivier, Thierry, European Studies  
 Ono, Mariko, Sociology  
 Osborn, Alan Rice, Geography  
 Osorio, Adam Felipe, Chicana and Chicano Studies  
 Otsuka, Rina, Linguistics  
 Owen, Cristina L., Arts and Letters, General  
 Owens, Cara Rae, Rhetoric and Writing Studies  
 Pace, Emily Jane, History  
 Packman, Jason Matthew, Linguistics  
 Padilla, Stephanie Luna, English  
 Palermo, Robert Costello, History  
 Pappas, Lauren Harper, Spanish  
 Parker, Stephanie Danielle, Geography  
 Parker, Jason W., Rhetoric and Writing Studies  
 Pasha, Katayun, English  
 Pauley, Charles Patrick, Economics  
 Paydar, Pooneh, Linguistics  
 Payne, Christine Anna, Sociology  
 Pedersen, Joel Eugene, Sociology  
 Pelayo, Carlos, English  
 Penafuerte, Araceli, Philosophy  
 Peralta, Michelle Marie, History  
 Pereira, Denise Dealcantara, Arts and Letters, General  
 Perkins, Emily Elizabeth, Geography  
 Perry, Jason Allen, History  
 Pezeshk, Ardeshtir, Political Science  
 Pham, Diep Minh, Linguistics  
 Pinckaers, Jeroen, Asian Studies  
 Pinckaers, Jeroen, Arts and Letters, General  
 Pindi, Gloria Nziba, European Studies  
 Plancarte, Roberto, Spanish  
 Pollack, Leigh Allison, English  
 Postic, Jelena, Sociology  
 Potts, Stephen W., English  
 Poupard, Mark Alan, Linguistics  
 Printz, Sean Thomas, English  
 Puccini, Matthew Leigh, Economics  
 Putko, Carole Ann, History  
 Qin, Yang, Economics  
 Quan, Nghiep Cuong, Rhetoric and Writing Studies  
 Quinn, Jessica Erin, Arts and Letters, General  
 Quinn, Jessica Erin, Linguistics

Quirós, Daniel, English  
 Randolph, Edward Gordon, English  
 Rangel, Nicole Marie, Sociology  
 Ranieri, Luke Amadeus, Arts and Letters, General  
 Ransom, Holly E., European Studies  
 Ray, Angi Lynn, English  
 Reddick, Bonnie Lynn, Africana Studies  
 Redmond, Joan Marie, Women's Studies  
 Renner, Lynette Elaine, Rhetoric and Writing Studies  
 Reyes, Herminia V., Philosophy  
 Richardson, Diana G., Geography  
 Richter, Brian Scott, Geography  
 Rieger, Maximilian Joseph, History  
 Riggs, Benjamin Ross, English  
 Robbins, Brett, Classics  
 Roberts, Janet, Women's Studies  
 Robertson, Dean Charles, English  
 Rockland, Steven, Economics  
 Rodriguez, Masako Tanaka, Linguistics  
 Rodriguez, Barbara, Spanish  
 Rodriguez-Gonzalez, Raul, Chicana and Chicano Studies  
 Romero, Rene Felix, Spanish  
 Roy, Carolyn S., History  
 Ruggeri, Rosamaria, European Studies  
 Rush, Myles Darwin, European Studies  
 Russ, John E., Economics  
 Sadegholvalad, Elham, Linguistics  
 Sager, Jennifer Jean, Rhetoric and Writing Studies  
 Saldana, Maribel Alatorre, Spanish  
 Salim, Zia Ulhaq, Geography  
 Salsitz, Elena L., Arts and Letters, General  
 Saltenberger, Joseph Martin, Geography  
 Samstad, James, Political Science  
 San Juan, Joel H., Sociology  
 Sanchez-Weston, Christina Lynn, Sociology  
 Saynesvazquez, Floria Edaena, Arts and Letters, General  
 Saynesvazquez, Floria Edaena, Anthropology  
 Saynesvazquez, Floria Edaena, Spanish  
 Schiffman, Dean Allen, Economics  
 Schlereth, Stephen Paul, Sociology  
 Schlesinger, Steven A., Philosophy  
 Schwartz, Devan Matthew, English  
 Scully, Jonathan Ryan, Geography  
 Sebahar, Casey Alan, History  
 Sefczek, Timothy Mikhail, Anthropology  
 Seibert, Stevie Kaye, Women's Studies  
 Seid, Jaren, Economics  
 Semm Jr, Paul Thomas, Sociology  
 Shabatay, Yehuda, Religious Studies  
 Shaffer, Myron Mathew, Linguistics  
 Shahrokhi, Shahrokh, Economics  
 Sharma, Siddharth, Arts and Letters, General  
 Shaver, Barbara, Women's Studies  
 Sheets, Brianna Noelle, Economics  
 Shembel, Daria, European Studies  
 Shepard, Justin Harper, Geography  
 Sherman, Beth, Rhetoric and Writing Studies  
 Short, Daniel Ramirez, Political Science  
 Shumate, Kathleen Robin, English  
 Shuster, Alana, Linguistics  
 Sigmon, Celia Ann, Rhetoric and Writing Studies  
 Simons, Nicole Elizabeth, Geography  
 Sindavala Karnam, Neha, Arts and Letters, General  
 Sly, Joseph Douglas, Sociology  
 Smiljkovic, Marija, Linguistics  
 Smith, Marisa Lucia, English  
 Smith, Diana Elizabeth, Geography  
 Smith, Jennifer Michelle, Geography  
 Smith, Holly Elizabeth, History

Smith, Alicia Marie, Rhetoric and Writing Studies  
 Smith, James Thomas, Political Science  
 Sommers, Ephraim Scott, English  
 Sorensen, Paul Howard, English  
 Spain, Jessica Eilene, Women's Studies  
 Speckmann, Nancy, Political Science  
 Stagnaro, Roberta Jean, Rhetoric and Writing Studies  
 Stam, Galit Goltzer, History  
 Stangle, Nicole Marie, Anthropology  
 Stebbing, Clare Hunter, English  
 Stephens, Philip Aaron, Geography  
 Stephens, Kellen C., Linguistics  
 Stephens, Christopher Cody, Political Science  
 Stephenson, Jenna Ashley, Women's Studies  
 Stewart, Lori, Religious Studies  
 Stoddard, Michael M., Political Science  
 Stoler, Justin, Geography  
 Strom, Yale, Arts and Letters, General  
 Suarez, Harrod, Asian Studies  
 Suffron, Valerie Jane, Women's Studies  
 Sullivan, Julie Ann, Political Science  
 Summers, Harmony Lee, History  
 Susi, Natalie, English  
 Swayd, Samy S., Religious Studies  
 Swobodzinski, Martin, Geography  
 Sylvers, Josephine, European Studies  
 Taki, Mariko, Linguistics  
 Tang, Vin Henry, Economics  
 Tannenhaus, Nuria G., Spanish  
 Taylor, Seth Andrew, Rhetoric and Writing Studies  
 Tea, Alexandrine, History  
 Tempelton, Janet Marie, Rhetoric and Writing Studies  
 Thomas, Jesse J., Religious Studies  
 Thompson, Mary Jube, Rhetoric and Writing Studies  
 Thomure, Hanada Ibrahimtaha, Linguistics  
 Thorngren, Jane R., Geography  
 Tierney, Barbara P., Economics  
 Tierney, David Alexander, Political Science  
 Tipton Jr, Norman Ernest, Sociology  
 Tiptur Nataraj, Sunil, Arts and Letters, General  
 Tomlin, Rita Carole, Rhetoric and Writing Studies  
 Toure, Sory Ibrahim, Geography  
 Towner, James, Rhetoric and Writing Studies  
 Trujillo, Angelina, Arts and Letters, General  
 Underwood, Michael Robbie, Rhetoric and Writing Studies  
 Upano, Alicia Michelle, English  
 Urata, John Ballesteros, Geography  
 Valdivia-Rea, Vivian, History  
 Vallina, Gloria A., English  
 Vanderpot, John, Rhetoric and Writing Studies  
 Vasquez, Anthony Raul, English  
 Vaughan, Jennifer Rebecca, Geography  
 Velasco, Alfred F., Chicana and Chicano Studies  
 Vidal, David Andrew, History  
 Vito, Christopher Sangalang, Sociology  
 Von Klau, Norma Penelope, Spanish  
 Voht, Joseph G., Rhetoric and Writing Studies  
 Wagner, Scott William, History  
 Wagner, Matthew Louis, Political Science  
 Wandersee, Sarah Marie, Geography  
 Wang, Ninghua, Geography  
 Webb, Brandon Todd, Linguistics  
 Weir, Lisa Colleen, Women's Studies  
 Werner, Roland, Sociology  
 Wheeler, Sarah Christine, Women's Studies  
 Whitaker, Delroi Estelle, Arts and Letters, General  
 Whitaker, Delroi Estelle, Religious Studies  
 White, Margaret Grimshaw, History  
 White, Jessica Lyn, Sociology

Whitworth, Emma Lee Rose, English  
 Wiedner, Susan Ellen, English  
 Wilder, Kimberly Diane, English  
 Wilken, Michael Alan, American Indian Studies  
 Wilkins, Lawrence Russell, Economics  
 Williams, Melissa Elle, English  
 Williams, Julie Ann, Rhetoric and Writing Studies  
 Williams, Terry Alston, Rhetoric and Writing Studies  
 Willingham, Ryan Warren, English  
 Wilson, Erwin John, European Studies  
 Wong, Alvin Kahin, Asian Studies  
 Wong, Mario Francisco, Economics  
 Wong, Amy Cristen, Sociology  
 Woo, Alicia Mar, Spanish  
 Xu, Tianjiao, Economics  
 Yamaga, Hideko, Linguistics  
 Yopez, Ninive Leon, Spanish  
 You, Jing, Economics  
 Yursa, John M., History  
 Zakaria, Ghassan Hanna, Linguistics  
 Zhao, Chenguang, Economics  
 Zhong, Yushan, Sociology  
 Zimmerman, Michael John, Rhetoric and Writing Studies  
 Zobel, Monika Susanne, English  
 Zvoleff, Alex Ivan, Geography

## BUSINESS ADMINISTRATION

Aglawe, Anjali Ashokrao, Information and Decision Systems  
 Allveri, Robynn L., Finance  
 Anderson-Cruz, Helen, Information and Decision Systems  
 Andreev, Andrey, Finance  
 Arunachalam, Vinoth Arunachalam, Finance  
 Arunachalam, Vinoth Arunachalam, Management  
 Ashley, Fawn Tammy, Marketing  
 Baron, Leonard P., Finance  
 Berkley, Holly, Marketing  
 Beyhan, Gozde, Accountancy  
 Bhatt, Shreyas Vinay, Accountancy  
 Bianchi, Carmen, Management  
 Blair, David Robert, Management  
 Blake, Patrick Christopher, Marketing  
 Block, David J., Finance  
 Bodur, Hafize Serap, Management  
 Brooks, Richard D., Marketing  
 Burnett, John J., Marketing  
 Capone, Michael J., Marketing  
 Carpenter, Erin Holmes, Marketing  
 Carter, Kimberly Ann, Marketing  
 Casey, Shawn Patrick, Management  
 Checklin, Ekaterina, Management  
 Chen, Annie Jou-Yi, Accountancy  
 Chi, Alexander, Accountancy  
 Christensen, Richard Alvin, Accountancy  
 Christiansen, Aline V., Marketing  
 Colombo, Carl J., Finance  
 Cooper, John Robert, Accountancy  
 Copic, Miro, Marketing  
 Cox, Erick Franklin, Accountancy  
 Cubeta, David Joe-Angelo, Accountancy  
 Daily, Todd Michael, Accountancy  
 Dalal, Nishi Viren, Information and Decision Systems  
 Dalal, Nishi Viren, Management  
 Dalbey, Richard O., Information and Decision Systems  
 Dos Santos, Ricardo, Management  
 Eaton, Daniel E., Management  
 Fenner, Douglas Edward, Management  
 Fischer, Alexa Atkinson, Management



## Lecturers

Gao, Bing, Finance  
 Gerlach, Alison B., Management  
 Gillespie, Robert Windsor, Information and Decision Systems  
 Glazer, Jeffrey W., Management  
 Goldman, Mark H., Finance  
 Goldstein, Daniel B., Management  
 Gorkem, Makbule Nihan, Marketing  
 Gorur, Ozlem, Management  
 Grohman, Christopher James, Accountancy  
 Gwinn, Richard, Management  
 Hanumanthappa Somashekar, Hindushekar, Information and Decision Systems  
 Harrington, Don L., Finance  
 Hawkes, Graham Michael, Accountancy  
 He, Jing, Accountancy  
 Hirakawa, Keiko, Accountancy  
 Huang, Lisha, Accountancy  
 Huang, Lisha, Finance  
 Jain, Arpit Ashok, Information and Decision Systems  
 Jaques, Kathryn M., Accountancy  
 Jewell, Glen Jeffrey, Accountancy  
 Judge, Robert Alexander, Information and Decision Systems  
 Karleskind, Brian P., Accountancy  
 Keith, Ramandeep Kaur, Marketing  
 Kennedy, Martha Ann, Information and Decision Systems  
 Keshav, Kiran, Finance  
 Keshav, Kiran, Marketing  
 Khammammettu, Rama Krishna, Finance  
 Klinger, Steven Gerald, Accountancy  
 Kosambi, Krutarth Kamlesh, Finance  
 Kosambi, Krutarth Kamlesh, Information and Decision Systems  
 Kuhn, Dana William, Finance  
 Kunin, Jay, Management  
 Lea, Michael, Finance  
 Lee, Dale Masato, Accountancy  
 Lee, Kristin M., Management  
 Lee, Kristin M., Marketing  
 Li, Siyuan, Accountancy  
 Li, Zeyan, Management  
 Liao, Ting-Ya, Finance  
 Lightner, Kevin M., Accountancy  
 Lin, Crystal, Finance  
 Liu, Dan, Accountancy  
 Liu, Zhanrui, Finance  
 Liu, Zhanrui, Management  
 Long, Yueyun, Finance  
 Long, Yueyun, Information and Decision Systems  
 Long, Yueyun, Management  
 Lu, Pin, Finance  
 Lucky, Jamie B., Accountancy  
 Lund, Max R., Information and Decision Systems  
 Mani, Rajeswari, Accountancy  
 Mani, Rajeswari, Finance  
 Matcharegai, Sakthivel, Information and Decision Systems  
 Matcharegai, Sakthivel, Marketing  
 Mccauley, John Joseph, Accountancy  
 Mead, Esther Ledelle, Marketing  
 Minick, Jessica Renee, Accountancy  
 Moffat, John Christian, Information and Decision Systems  
 Moffett, Aaron Malachi, Accountancy  
 Molloy, Brian Edward, Accountancy  
 Moon, Miso, Accountancy  
 Nguyen, Christopher Duc Duy, Accountancy  
 Nihalani, Pooja Umesh, Management  
 Nikumb, Prajakta Prabhakar, Management  
 Nimbalkar, Tushar, Finance

O'brien, Holly Christine, Accountancy  
 O'byrne, Christopher Blake, Information and Decision Systems  
 Oliver, Corina Shell, Marketing  
 Olson, Lois B., Marketing  
 Orlando, Timothy Casimer, Management  
 Orth, Tanya Susan, Marketing  
 Osinski, Steven F., Marketing  
 Osintseva, Elena, Information and Decision Systems  
 Parasuraman, Harish, Information and Decision Systems  
 Parasuraman, Harish, Marketing  
 Patel, Saumil Jasubhai, Management  
 Patrick, Wendy Lynn, Management  
 Pawar, Anil, Finance  
 Peddola, Sri Tulasi, Finance  
 Peng, Qian, Management  
 Prichard, Lauren Fay, Accountancy  
 Probett, Christine Helen, Information and Decision Systems  
 Probett, Christine Helen, Management  
 Rabe, Maureen Elizabeth, Accountancy  
 Radhakrishna, Naveen, Information and Decision Systems  
 Radhakrishna, Naveen, Management  
 Radhakrishna, Naveen, Marketing  
 Rajakumar, Sriharish, Finance  
 Rajakumar, Sriharish, Information and Decision Systems  
 Ranganatha, Ramachandran, Finance  
 Robbins, Steven B., Management  
 Rodenrys, J J., Management  
 Ryan, Frank, Finance  
 Sager, Paul, Accountancy  
 Sannwald, William W., Management  
 Sannwald, William W., Marketing  
 Schroeder, Bernhard, Marketing  
 Seiver, Daniel Alan, Finance  
 Shah, Sonam Hitank, Finance  
 Shah, Sonam Hitank, Information and Decision Systems  
 Shah, Sonam Hitank, Management  
 Shah, Pratik Rameshchandra, Marketing  
 Sharma, Siddharth, Information and Decision Systems  
 Shaul, Kelly Christopher, Information and Decision Systems  
 Sheng, Hua, Accountancy  
 Sheng, Hua, Finance  
 Singh, Charanpreet, Accountancy  
 Singh, Charanpreet, Information and Decision Systems  
 Sloan, Michael L., Management  
 Snyder Jr, Willard S., Accountancy  
 Szuberla, Brian Joseph, Accountancy  
 Thoms, Brian, Information and Decision Systems  
 Torgalmath, Priyanka, Information and Decision Systems  
 Tschakert, Norbert, Accountancy  
 Uy, Michael Nguyen, Accountancy  
 Veenstra, Derek Austin, Management  
 Veeraputhira Gnanathiravi, Premdas, Finance  
 Weiler, Adam J., Marketing  
 Williamson, James E., Accountancy  
 Woods, Shanda Jennine, Accountancy  
 Wu, Wentao, Management  
 Xie, Jing, Accountancy  
 Xie, Zhengkun, Management  
 Xu, Juli, Finance  
 Yamashita, Heather Asano, Management  
 Yong, Jieyi, Accountancy  
 Zehabchi, Armin, Management  
 Zhao, Meng, Accountancy  
 Zhu, Youning, Accountancy  
 Zhuang, Xiaohui, Management

## EDUCATION

Adams, Charlotte, Teacher Education  
 Aganza, Joaquin Sloan, Counseling and School Psychology  
 Aguilar, Krystle San Juan, Counseling and School Psychology  
 Aguilar, Alice Marie, Special Education  
 Allen, Aida Dorothea, Teacher Education  
 Alvarez, Alicia Nicole, Special Education  
 Aman, Ian Gamboa, Counseling and School Psychology  
 Aste, Marian Kathryn, Policy Studies in Language and Cross-Cultural Education  
 Aste, Marian Kathryn, Teacher Education  
 Austin, James, Education  
 Bahena, Belen Robles, Counseling and School Psychology  
 Baisley, Edward John, Special Education  
 Bakley, Barbara, Special Education  
 Barba, Douglas A., Administration, Rehabilitation and Postsecondary Education  
 Barnes, Stephen F., Administration, Rehabilitation and Postsecondary Education  
 Beach, Diane Lee, Education  
 Beezley, Heidi Janssen, Educational Technology  
 Behana, Elinor Ethel, Child and Family Development  
 Bene, Cheri Kim, Special Education  
 Bjornson, Patricia, Teacher Education  
 Blakeslee, Patti C., Teacher Education  
 Bolduc, Cynthia Ann, Special Education  
 Bonggat, Penelope Natasha, Special Education  
 Boom, Saskia Maria, Counseling and School Psychology  
 Booth, Jacki Lee, Child and Family Development  
 Bronson, Michele Diane, Counseling and School Psychology  
 Bucholtz, Jeffrey Steven, Counseling and School Psychology  
 Burgess, Terrence, Administration, Rehabilitation and Postsecondary Education  
 Burow, Constantina Pavlov, Teacher Education  
 Calderon, Martha Alicia, Special Education  
 Callies, Anne Marie, Special Education  
 Camarena, Juan Francisco, Counseling and School Psychology  
 Cameron, Brad, Administration, Rehabilitation and Postsecondary Education  
 Cameron, George, Educational Leadership  
 Cao, Liuhui, Education  
 Cash, Rhonda J., Counseling and School Psychology  
 Castillo, Guillermo Beltran, Policy Studies in Language and Cross-Cultural Education  
 Clarey, Amy Marie, Educational Leadership  
 Close, Catherine Z., Special Education  
 Close, Catherine Z., Teacher Education  
 Collins-Parks, Tamara Michelle, Policy Studies in Language and Cross-Cultural Education  
 Colson, John, Administration, Rehabilitation and Postsecondary Education  
 Compton, Charles Michael, Administration, Rehabilitation and Postsecondary Education  
 Cook, Sunita, Administration, Rehabilitation and Postsecondary Education  
 Corey, Cindy Carolyn, Counseling and School Psychology  
 Crawford, Vanessa Marie, Counseling and School Psychology  
 Cunningham, Rodger, Teacher Education  
 Daneshvar, Sabrina, Special Education  
 Davies, Aida D., Policy Studies in Language and Cross-Cultural Education  
 Del Busto, Roberto Alfonso, Educational Technology  
 Del Busto, Roberto Alfonso, Teacher Education  
 Delucchi, Antoinette, Teacher Education  
 Duarte, Danielle Rosa, Counseling and School Psychology

Duncan, Allison Jane, Education  
 Elias, Lori Elaine, Teacher Education  
 Escobedo, Jose Francisco, Educational Leadership  
 Evans, Mary L., Special Education  
 Ewing, Janice, Counseling and School Psychology  
 Fassler, Molly Claire, Counseling and School Psychology  
 Feilen, Kimberly Val, Child and Family Development  
 Fichter, Dana, Special Education  
 Filley, John Robert, Administration, Rehabilitation and Postsecondary Education  
 Fisher, Cinzia S., Teacher Education  
 Gardner, Pamela Walker, Child and Family Development  
 Garrity, Sarah Maury, Child and Family Development  
 German, Monique Christine, Child and Family Development  
 Gibson, Kristin Leigh, Teacher Education  
 Ginsberg, Eric Joseph, Teacher Education  
 Giusta, Tecia Christine, Counseling and School Psychology  
 Glunt, Eric K., Administration, Rehabilitation and Postsecondary Education  
 Goldstein, Marilyn, Teacher Education  
 Gomez, Mariana, Education  
 Gomez-Lee, Vanessa, Counseling and School Psychology  
 Gould, Edward O., Administration, Rehabilitation and Postsecondary Education  
 Gray, Susan Penny, Education  
 Gray, Susan Penny, Educational Leadership  
 Green, Gina, Special Education  
 Guerra, Rita Yolanda, Counseling and School Psychology  
 Gunst, Rosemary, Teacher Education  
 Gusman, Jennifer Janine, Counseling and School Psychology  
 Hammerschmidt, Arleen L., Teacher Education  
 Hartley, Melissa Dawn, Education  
 Helu Fernandez, Paula, Counseling and School Psychology  
 Holcomb, Rana Mitsue, Counseling and School Psychology  
 Holowach, Kathleen E., Teacher Education  
 Hood, Carolyn, Teacher Education  
 Howerton, Elizabeth Ann., Special Education  
 Hunt, Jennifer Marie, Special Education  
 Illig, Andre Martin, Education  
 Inaba, Jennifer Saeko, Counseling and School Psychology  
 Jacobson, Julie Kate, Teacher Education  
 Jahn, Sharon, Counseling and School Psychology  
 Johnson, Deanne Emilie, Counseling and School Psychology  
 Johnson, Lisbeth, Education  
 Johnson, Fenimore Jeffrey A., Educational Technology  
 Johnson, Kelly Michelle, Teacher Education  
 Johnston, Gloria, Educational Leadership  
 Justeson, Debora, Teacher Education  
 Kahn, Sarah Zeta, Counseling and School Psychology  
 Kania, Angela Sherry, Teacher Education  
 Karras, Kymberly Frances, Education  
 Kasendorf, Stacey, Special Education  
 Kaupp, Mark, Counseling and School Psychology  
 Kay, Sandra, Special Education  
 Kester, Scott, Counseling and School Psychology  
 Killian, Kristina May, Educational Technology  
 Kroesch, Gary, Teacher Education  
 Lancaster, Nancy, Teacher Education  
 Larsen, Suzanne A. Keegan, Special Education  
 Lee, John Young, Teacher Education  
 Lewis, Gregory John, Education  
 Lewis, Jennifer M., Teacher Education  
 Lim, Seungba, Education

Linehan, Therese Margaret, Special Education  
 Littrell, Jarleen H., Teacher Education  
 Loh, Virginia Shin-Mui, Teacher Education  
 Luke, Equilla, Counseling and School Psychology  
 Maheronnaghsh, Sarah Genoa, Policy Studies in Language and Cross-Cultural Education  
 Marotta, Anthony Bernard, Counseling and School Psychology  
 Marshall, James Merrill, Educational Technology  
 Martin, Melinda M., Teacher Education  
 Martinez, Toni Annette, Counseling and School Psychology  
 Massey, David Jay, Teacher Education  
 Matas, Amanda Keri, Policy Studies in Language and Cross-Cultural Education  
 Mayer, George, Special Education  
 Mays, Jennifer Anne, Special Education  
 McClure, Melinda Kay, Special Education  
 McCormack, Alan, Teacher Education  
 McCullough, Patricia A., Teacher Education  
 McDowell, Daniel Patrick, Educational Technology  
 Mcfaddin, Audrey F., Special Education  
 McGrath, Bonnie Marie, Teacher Education  
 McKinney, Shannen Larae, Special Education  
 Mercado, Patricia, Counseling and School Psychology  
 Merlos, Ramon L., Policy Studies in Language and Cross-Cultural Education  
 Montierth, Jacki L., Educational Technology  
 Morales Hoffman, Lydia Elizabet, Policy Studies in Language and Cross-Cultural Education  
 Morente, Desmond R., Education  
 Myers, Donald N., Child and Family Development  
 Necoechea, Denise Marie, Special Education  
 Nguyen, Tri Chanh, Counseling and School Psychology  
 Noyes, David Alan, Administration, Rehabilitation and Postsecondary Education  
 O'leary, Andrea Maria Arenas, Counseling and School Psychology  
 Oram, Christopher D., Educational Leadership  
 Owens, Roger, Administration, Rehabilitation and Postsecondary Education  
 Pak, Victoria Louise, Teacher Education  
 Perlin, Robyn, Educational Leadership  
 Phillips, Georgia Jeannette, Teacher Education  
 Pirazzini, Alma F., Policy Studies in Language and Cross-Cultural Education  
 Pitt, Tina, Administration, Rehabilitation and Postsecondary Education  
 Pope, Catherine Elizabeth, Special Education  
 Porras, Jesus, Special Education  
 Portman, Jacqueline S., Counseling and School Psychology  
 Price, Robert William, Administration, Rehabilitation and Postsecondary Education  
 Prime, Carol S., Teacher Education  
 Prodor, Catherine Ann, Special Education  
 Quirin, Maryjane, Teacher Education  
 Ramirez, Pablo Cortez, Education  
 Ramirez, Celia, Policy Studies in Language and Cross-Cultural Education  
 Ramirez, Jorge Alberto, Policy Studies in Language and Cross-Cultural Education  
 Ranck-Buhr, Wendy Lee, Teacher Education  
 Rauenzahn, Selena Marie, Special Education  
 Reeve, Linda Lutz, Special Education  
 Reiter-Cook, Jennifer, Special Education  
 Rich, Vivian J., Teacher Education  
 Richter, Karl G., Educational Technology

Rider, Diane K., Policy Studies in Language and Cross-Cultural Education  
 Ring, Erin Noel, Special Education  
 Robbins, Alice, Teacher Education  
 Robersshaw, Phyllis, Teacher Education  
 Robinson, Geneva Maria, Counseling and School Psychology  
 Robledo, Marisol, Counseling and School Psychology  
 Rockway, Joy, Teacher Education  
 Rodenberg, Johanna Kristine, Teacher Education  
 Rogers, James, Counseling and School Psychology  
 Romero, Jaime, Counseling and School Psychology  
 Roncoroni, Pabo, Policy Studies in Language and Cross-Cultural Education  
 Rose, William Arnold, Teacher Education  
 Rosser, Anne Louise, Teacher Education  
 Rue, Henrietta, Administration, Rehabilitation and Postsecondary Education  
 Ryan, Gregory V., Educational Leadership  
 Samson, Gloria Perez, Policy Studies in Language and Cross-Cultural Education  
 Santos, Ryan Sotto, Education  
 Schell, Emily Marie, Teacher Education  
 Schroeder, Fredrick, Administration, Rehabilitation and Postsecondary Education  
 Scorgie, Kathryn I., Special Education  
 Shimogori, Yujiro, Education  
 Siegfried, John Michael, Teacher Education  
 Silva, Liliana, Education  
 Sleichter, Jenna Elizabeth, Special Education  
 Smith, Craig, Counseling and School Psychology  
 Smith, Lisa Mae, Counseling and School Psychology  
 Smith, Brian Craven, Educational Leadership  
 Soriano, Elizabeth Goree, Teacher Education  
 Sparaco, Lisa M., Policy Studies in Language and Cross-Cultural Education  
 Spector, Dale, Teacher Education  
 Sta Elena, Camille Rose Peralta, Counseling and School Psychology  
 Steinrichter, Margaret Lynne, Teacher Education  
 Stengel, Mark L., Special Education  
 Suarez, Omero, Education  
 Surratt, Jamie Lynn, Education  
 Tacone, Albert, Administration, Rehabilitation and Postsecondary Education  
 Taylor, Amy Lynn, Counseling and School Psychology  
 Taylor, Margo, Policy Studies in Language and Cross-Cultural Education  
 Taylor, Mary, Special Education  
 Telfer, Bonnie, Teacher Education  
 Treger, Rochelle Demayo, Teacher Education  
 Tremaine, Claire, Teacher Education  
 Tucker, Mark Steven, Administration, Rehabilitation and Postsecondary Education  
 Tung, Hsing-Chen, Child and Family Development  
 Vandyke, Janice, Teacher Education  
 Vernoy, Mark, Administration, Rehabilitation and Postsecondary Education  
 Wallace, Jennie Julie-Marie, Special Education  
 Weiss, Lawrence, Administration, Rehabilitation and Postsecondary Education  
 White, Jeannine L., Child and Family Development  
 Whiteside, Hillary Anne, Special Education  
 Wible, Stacy Jo, Teacher Education  
 Wible, William W., Teacher Education  
 Williams, Kathleen Therese, Teacher Education  
 Wilson, Anita L., Special Education

## Lecturers

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**Wong, Linda**, Counseling and School Psychology  
**Wright, Nelson**, Administration, Rehabilitation and Postsecondary Education  
**Wright, Joyce**, Teacher Education  
**Zlotnik, Susan Carol**, Teacher Education

### ENGINEERING

**Aburahmah, Ahmed**, Civil Engineering  
**Amen, Sameh Latif**, Civil Engineering  
**Amin, Vaishali**, Engineering  
**Arnold, Kenneth D.**, Electrical Engineering  
**Arrigo, Jeanette Fay**, Electrical Engineering  
**Ayala, Richard**, Mechanical Engineering  
**Badkoobei, Hassan**, Civil Engineering  
**Bharamgouda, Sanmathi Gundurao**, Electrical Engineering  
**Bumgardner, Ted**, Civil Engineering  
**Butler, Geoffrey Scott**, Aerospace Engineering  
**Cawley, Nancy R.**, Aerospace Engineering  
**Chen, Xiaofei**, Engineering  
**Chinta, Ritwick Shomen**, Aerospace Engineering  
**Chugh, Kanchan**, Electrical Engineering  
**Clancy, James**, Civil Engineering  
**Colbert, Edward B.**, Electrical Engineering  
**De Sanctis, Massimo**, Mechanical Engineering  
**Dua, Swati**, Electrical Engineering  
**El Desouky, Ahmed Mohamed**, Engineering  
**El-Hage, Maroun**, Civil Engineering  
**Fairbanks, John Shackelford**, Electrical Engineering  
**Gallay, Johan Alain**, Civil Engineering  
**Ghaffari, Azad**, Engineering  
**Goldhammer, Joseph C.**, Civil Engineering  
**Graham, Matthew R.**, Mechanical Engineering  
**Hull, Joseph Robert**, Civil Engineering  
**Hunter, Tyrone**, Civil Engineering  
**Johnston, Thomas Henry**, Mechanical Engineering  
**Jordan, Ricardo**, Civil Engineering  
**Kambhatla, Kashyap Kodanda Ram**, Engineering  
**Kargar, Maryam**, Civil Engineering  
**Kennedy, John Patrick**, Electrical Engineering  
**Khaleghi, Evan Aryan**, Engineering  
**Labadie, Nathan R.**, Engineering  
**Li, Wei**, Engineering  
**Lin, Yen-Shan**, Engineering  
**Macphee, David William**, Engineering  
**Mansfield, George**, Mechanical Engineering  
**Meneses, Jorge**, Civil Engineering  
**Moody, Robert Alexander**, Electrical Engineering  
**Nourallahi, Hamid**, Aerospace Engineering  
**Nourallahi, Hamid**, Mechanical Engineering  
**Oka, Richard**, Engineering  
**Papuga, Matthew**, Civil Engineering  
**Parsons, Tamara L.**, Civil Engineering  
**Salas Mendez, Pablo Antonio**, Engineering  
**Schuh, George**, Civil Engineering  
**Shah, Jinal Shailesh**, Electrical Engineering  
**Shammas, Elie**, Mechanical Engineering  
**Shanmugam, Balamurugan**, Electrical Engineering  
**Sun, Long**, Engineering  
**Tummala, Lakshmana Swamy**, Engineering  
**Urquhart, Bruce C.**, Civil Engineering  
**Viswanathan, Shekar**, Civil Engineering  
**Yang, Li**, Civil Engineering

### HEALTH AND HUMAN SERVICES

**Anderson, Ellen Lewers**, Social Work  
**Anguera, Joaquin**, Gerontology  
**Archuletta, Kim Yvonne**, Social Work  
**Ball, Susanne Lea**, Social Work  
**Bass, Susan L.**, Nursing  
**Bhandarkar, Poorti Vishvanath**, Nursing  
**Bidwell, Janice D.**, Nursing  
**Boothroyd, Arthur**, Speech, Language, and Hearing Sciences  
**Branch, Carol**, Speech, Language, and Hearing Sciences  
**Brown, Caroline**, Nursing  
**Brychta, Amber Ellen**, Social Work  
**Burns, Della E.**, Nursing  
**Cane, Janet Mae**, Nursing  
**Carlson, Beverly Means**, Nursing  
**Casey, Carolynne Cay**, Nursing  
**Concilio, Lisa A.**, Nursing  
**Courtney, Heather Chae**, Speech, Language, and Hearing Sciences  
**Crespo, Noe Cuauhtemoc**, Health and Human Services  
**Croff, Julie May**, Public Health  
**Cullinan, Madelyn Lewis**, Nursing  
**Cullum, Kristiana Gay Huffman**, Nursing  
**De Silva, Sriyani R.**, Nursing  
**Donahue Marucheau, Elizabeth Doris**, Social Work  
**Dornan, Gina**, Speech, Language, and Hearing Sciences  
**Dorrictot, Janette**, Speech, Language, and Hearing Sciences  
**Dudley, Donald E.**, Social Work  
**Dunagan, Ilene**, Nursing  
**Eichler, Michael P.**, Social Work  
**Elson, Candy Jacqueline**, Social Work  
**Eskridge, Susan Lindsay**, Public Health  
**Estrada, Karla-Irene**, Social Work  
**Faron, Susan**, Nursing  
**Faulk, Mary Margaret**, Social Work  
**Finkle, Janet Marie**, Nursing  
**Fischer, Marlowe K.**, Speech, Language, and Hearing Sciences  
**Foggiano, Deniese Faye**, Nursing  
**Fong, Terri A.**, Social Work  
**Forestal, Lawrence**, Speech, Language, and Hearing Sciences  
**Freedman, Skott Elliot**, Speech, Language, and Hearing Sciences  
**George, Alexis Kristen**, Social Work  
**Georgeson, Jacquelyn J.**, Speech, Language, and Hearing Sciences  
**Gilbert, Kay R.**, Nursing  
**Gonsalves, Persis Ignatius**, Nursing  
**Gray, Pamela**, Nursing  
**Guthrie, Leslie Ann**, Speech, Language, and Hearing Sciences  
**Hall, Joan Marie**, Nursing  
**Hamel, Elisabeth J.**, Nursing  
**Harbertson, Judith**, Public Health  
**Hardy, Joanne**, Nursing  
**Herold, Gerilyn Ruth**, Nursing  
**Holscher, Jessica Tally**, Public Health  
**Holsey, Chanda Nicole**, Public Health  
**Hughen, Janet Elizabeth**, Nursing  
**Jacobs, Marni Beth**, Public Health  
**Jones, Lauren**, Nursing  
**Jurf, Julie B.**, Nursing  
**Kagalwala, Dhara Nootan**, Public Health  
**Kari, Sherry Harris**, Nursing  
**Katzman, Jodi S.**, Nursing  
**Kaufmann, Pamela S.**, Nursing  
**Keehn, Brandon Michael**, Speech, Language, and Hearing Sciences  
**Keith, Elizabeth A.**, Social Work  
**Korpics, Franco Joseph**, Speech, Language, and Hearing Sciences  
**Kotas, Jacqueline Kreiter**, Speech, Language, and Hearing Sciences  
**Kreisworth, Virginia S.**, Public Health  
**Lahousse, Sheila Faye**, Public Health  
**Laidlaw, Nancy Outzs**, Nursing  
**Lambert, Kristen D.**, Nursing  
**Letourneau, Charlene C.**, Social Work  
**Levy, Rena Eglick**, Social Work  
**Lindsay, Ryan**, Public Health  
**Lischke, Nancy L.**, Nursing  
**Long, Linda M.**, Nursing  
**Lopes, Charlotte M.**, Speech, Language, and Hearing Sciences  
**Lottman, Elisabeth Sarah**, Speech, Language, and Hearing Sciences  
**Macchione, Nicola**, Public Health  
**Mann, Melissa Grear**, Nursing  
**Martin, Tilisha Tionette**, Social Work  
**Mcanany, Mary Jennifer**, Public Health  
**Mccalmont, Vicki Lynn**, Nursing  
**Mccarthy, Doris**, Nursing  
**Mcewan, Leslie Gwen**, Nursing  
**Mcquire, Marguerite**, Speech, Language, and Hearing Sciences  
**Miller, Marcia Anne**, Nursing  
**Miller, Mary E.**, Nursing  
**Millsap, Karen Joy**, Speech, Language, and Hearing Sciences  
**Morris, Meghan Diane**, Health and Human Services  
**Mulvihill, Mary M.**, Public Health  
**Navarrete-Mote, Olga G.**, Nursing  
**Nelson, Nancy A.**, Nursing  
**Nicodemus, Charlotte Ann**, Nursing  
**Olday, Jill Elaine**, Gerontology  
**Osuyos, Roberta A.**, Social Work  
**Parr, Mary E.**, Nursing  
**Pasamonte, Debbie Mangandi**, Nursing  
**Preston, Patricia T.**, Nursing  
**Rankin, Ellen C.**, Nursing  
**Rapps, Jane**, Nursing  
**Robinson, Jessica Marie**, Social Work  
**Rodriguez, Edgar A.**, Public Health  
**Rouse, Melissa Dawn**, Nursing  
**Runzel, Albert R.**, Nursing  
**Ryan, Barbara E.**, Social Work  
**Samad, Ruth**, Nursing  
**Sawada, Glenda Haruna**, Public Health  
**Scheer-Cohen, Alison Rebecca**, Speech, Language, and Hearing Sciences  
**Schmitz, Linda**, Speech, Language, and Hearing Sciences  
**Scott, Michele Lee**, Nursing  
**Segars, Lance B.**, Social Work  
**Shadroff, Valerie**, Nursing  
**Siegel, Marci W.**, Social Work  
**Simpliciano, Irene M.**, Nursing  
**Sipan, Carol Louise**, Public Health  
**Smith, Jennifer Ann**, Health and Human Services  
**Smith, Joshua Robert**, Public Health  
**Smyser, Joseph David**, Public Health  
**Sottak, Paulette**, Speech, Language, and Hearing Sciences  
**Spino, Natalie Rose**, Health and Human Services  
**Stigler, Paula Elaine**, Public Health  
**Struxness, Kevin Roger**, Speech, Language, and Hearing Sciences  
**Tewell, Barbara S.**, Nursing

Tran, Bonnie Robyn, Public Health  
 Turner, Sharron Turner, Speech, Language, and Hearing Sciences  
 Van, Almira, Public Health  
 Vintinner, Isha, Speech, Language, and Hearing Sciences  
 Volkmann, Tyson Alexander, Health and Human Services  
 Walsh, Cynthia, Nursing  
 Wiborg, Lan Chun, Public Health  
 Widman, Elena Marie, Social Work  
 Wild, Susan, Nursing  
 Williams, Connie Lynn, Social Work  
 Wong, Deborah Fung Wai, Health and Human Services  
 Wooten, Amy, Nursing  
 Yaghmaee, Saman, Gerontology

## PROFESSIONAL STUDIES AND FINE ARTS

Abdelsamad, Mounah, Public Administration  
 Allen, Christopher H., Music  
 Amaro, Lauren Michelle, Communication  
 Anastasia, Desire Janelle-Maralyn, Public Administration  
 Andriano, Melina Flores, Exercise and Nutritional Sciences  
 Arauz, Carlos, Public Administration  
 Archibald, Alexis Rae, Art  
 Armstead, Rulette V., Public Administration  
 Asanger, Sabine, Theatre, Television, and Film  
 Atchison, Lauren C., Theatre, Television, and Film  
 Barba, Douglas A., Exercise and Nutritional Sciences  
 Barker, Valerie Elizabeth, Journalism and Media Studies  
 Beck, Lauren Rachele, Theatre, Television, and Film  
 Behling, Erin Dace, Art  
 Bekic, Lilyana, Art  
 Benzel, Gary, Art  
 Blake, Brian P., Hospitality, Tourism and Management  
 Bosshart, Philipp Christian, Art  
 Bowman, Blaine Kenyon, Public Administration  
 Briggs, Allison Leigh, Communication  
 Brooks, Kaitlin Noelle, Communication  
 Buono, Shelly M., Exercise and Nutritional Sciences  
 Burgess, Michele M., Art  
 Burnett, Timothy Reid, Exercise and Nutritional Sciences  
 Burton, Debra, Music  
 Butler, Kimberly Wynn, Exercise and Nutritional Sciences  
 Caffin, Patricia Iris Maureen, Theatre, Television, and Film  
 Campbell, John Jeffrey, Hospitality, Tourism and Management  
 Carlson, Craig J., Art  
 Castaneda, Debra Carolyn, Exercise and Nutritional Sciences  
 Cherpeski, Erin Collette, Communication  
 Choi, Min Kyung, Art  
 Cicalo, Lora Elaine, Journalism and Media Studies  
 Clark, Patrick Ryan, Theatre, Television, and Film  
 Cohen, Gregory, Music  
 Columbo, Jessica Adrienne, Journalism and Media Studies  
 Comana, Fabio, Exercise and Nutritional Sciences  
 Congalton, Robert George, Exercise and Nutritional Sciences  
 Copp, Linda Jones, Exercise and Nutritional Sciences  
 Corr, Michael J., Hospitality, Tourism and Management  
 Cotnoir, Meredith L., Art  
 Curley, Matthew David, Theatre, Television, and Film  
 Curtis, Christine E., Public Administration  
 Dallal, Rania, Communication  
 Daugherty, Natalie Christene, Communication  
 Deberry, Stephanie Marie, Exercise and Nutritional Sciences  
 Defino, Lisa, Hospitality, Tourism and Management  
 Derby, Jason, Communication

Domurat, Sarah Morgan, Exercise and Nutritional Sciences  
 Downs, Matthew Alan, Exercise and Nutritional Sciences  
 Duncan, Daniel E., Exercise and Nutritional Sciences  
 Dunn, Jeanne L., Art  
 Eger, John M., All College  
 Eiler, James, Hospitality, Tourism and Management  
 Ekard, Walter F., Public Administration  
 Epps, Rick, Public Administration  
 Erb Jr, John Alden, Music  
 Evans-O'Connor, Kellie, Music  
 Evert, Sharla Leigh, Public Administration  
 Ezirio, Kizzy Bemvenuti, Art  
 Fallon, William Edward, Communication  
 Farnsley, Alexander, Theatre, Television, and Film  
 Feldman, Heidi, Music  
 Fierro, Gilbert, Public Administration  
 Flood, John C., Music  
 Foat, Reuben Jeffrey, Art  
 Fobes, David Alan, Art  
 Fobian, Donald K., Public Administration  
 Fuele, Randall Scott, Theatre, Television, and Film  
 Funicello, Ralph, Theatre, Television, and Film  
 Gaswirth, Jae Campanelli, Journalism and Media Studies  
 Genchel, Niv, Art  
 Gessner, Bradley H., Hospitality, Tourism and Management  
 Gleason, Catherine, Art  
 Gnerre, Jason Robert, Theatre, Television, and Film  
 Goehring, Charles Edward, Communication  
 Goetze, Eva, Communication  
 Goodell, Shawn Richard, Art  
 Gore, Robin, Journalism and Media Studies  
 Green, Michael C., Art  
 Grinnell, Laurel Ashley, Music  
 Gutzmer, Kyle Elizabeth, Communication  
 Hamad, Rania S., Communication  
 Hanson, Sara Kathryn, Exercise and Nutritional Sciences  
 Harris, Kathryn Schroeder, Art  
 Haude, Marie, Communication  
 Hayward, Michaele Fox, Communication  
 Hecklinski, Tiffany M., Communication  
 Heitman, Paula Boyer, Theatre, Television, and Film  
 Hemmens, Jason William, Hospitality, Tourism and Management  
 Henderson, Valerie Diane, Theatre, Television, and Film  
 Herman, Chelsea Laurel, Art  
 Hewitt, David, Art  
 Hopp, Tobias Michael, Journalism and Media Studies  
 Hu, Una Chen, Communication  
 Hurwit, Joan Marie, Theatre, Television, and Film  
 Irely, Kathryn J., Music  
 Jackson, Joshua Robert, Art  
 Jackson, Holly Anastacia, Communication  
 Jarboe, Susan C., Communication  
 Javier, Rizzhel Mae, Art  
 Jeans, KyeAnn, Art  
 Jennings, Tabitha Grace, Exercise and Nutritional Sciences  
 Johnson, Donn A., Theatre, Television, and Film  
 Johnson, Patrick Michael, Theatre, Television, and Film  
 Jordan, Robert Alan, Theatre, Television, and Film  
 Kaiser, Keri Ann, Communication  
 Keith, Carolyn Joan, Theatre, Television, and Film  
 Kelly, William B., Art  
 Kendrick, Ethan Neil, Art  
 Kidwell, Justin Ross, Theatre, Television, and Film  
 Kimbrell, Patricia Ann, Exercise and Nutritional Sciences  
 Kingsbury, Trevor David, Exercise and Nutritional Sciences  
 Kinnaman, Katie Christine, Music  
 Kitelinger, Shannon, Music  
 Klaiber, Marcia, Exercise and Nutritional Sciences

Klimova, Lyubov, Art  
 Knight, Russell Christopher, Music  
 Knuth, Barbara Erinn, Art  
 Krohn, Joshua Daniel, Theatre, Television, and Film  
 Kruming, Martin A., Journalism and Media Studies  
 Kwon, Yang-Jun, Art  
 Lamson, Mark D., Music  
 Lane, Kelly Jean, Exercise and Nutritional Sciences  
 Lanzafame, Maryjo, Public Administration  
 Lawrence, Lydia Christine, Journalism and Media Studies  
 Lezon, Jena Michelle, Exercise and Nutritional Sciences  
 Li, Erdan, Communication  
 Lilly, Anne Grace, Communication  
 Lin, Hongmei, Communication  
 Link, Alexandra Rose, Exercise and Nutritional Sciences  
 Lockwood, Alane Soares, Journalism and Media Studies  
 Lolis, Niki, Communication  
 Lorenz, Kent Arnold, Exercise and Nutritional Sciences  
 Lowrey, Lacy, Communication  
 Luera, Mary Ann De Alba, Art  
 Lund, Victoria Irene, Music  
 Lustig, James B., Hospitality, Tourism and Management  
 Lyssanova, Olga, Exercise and Nutritional Sciences  
 Mackenzie, Mary, Music  
 Marino, Bianca Freitas, Communication  
 Marshall, George L., Theatre, Television, and Film  
 Massarese, Alberto, Theatre, Television, and Film  
 Matzigkeit, Philip Merlin, Art  
 McBride, James Francis, Journalism and Media Studies  
 McCormick, Kellie Ann, Art  
 McLaughlin, Michael T., Public Administration  
 Metcalfe, Stephen, Theatre, Television, and Film  
 Miller, Toni Kay, Communication  
 Millman, Shari, Hospitality, Tourism and Management  
 Mizell, Amanda Nicole, Communication  
 Montal, Steven S., Theatre, Television, and Film  
 Moreno, Juan, Communication  
 Moy, Karen L., Exercise and Nutritional Sciences  
 Mueller, Kurt Ronald, Communication  
 Muschek, Victoria M., Journalism and Media Studies  
 Nechanicky, Megan Marie, Exercise and Nutritional Sciences  
 Nee, Rebecca Coates, Journalism and Media Studies  
 Nelson, Jahil, Art  
 Nikkel, Laurinda, Music  
 Noel, Christopher Sean, Communication  
 Norman, William James, Communication  
 Nozizwe, Lena, Journalism and Media Studies  
 Oberoi, Krishan P., Music  
 O'day, Brenda Cathleen, Exercise and Nutritional Sciences  
 Oliver, Gretchen Ann, Communication  
 Olson, Luke Ross, Theatre, Television, and Film  
 Omar, Hishamuddin Bin, Communication  
 Oppenheimer, Sharon, Theatre, Television, and Film  
 Orr, Michelle Diane, Theatre, Television, and Film  
 Packer, Andrew Joseph, Communication  
 Palese, Kathryn Helen, Art  
 Palombo, Laura Jill, Exercise and Nutritional Sciences  
 Parish, Sarah Marie, Journalism and Media Studies  
 Parker, Richard A., Public Administration  
 Patton, Leonard Dean, Music  
 Peniche, Rachel Anne, Hospitality, Tourism and Management  
 Perry, Angela Elizabeth, Communication  
 Petrisko, Mayumi Juanita, Exercise and Nutritional Sciences  
 Plumlee, Sonya Deva, Exercise and Nutritional Sciences  
 Pollock, David J., Music  
 Porat, Shoshan, Art

Poulin, Tim Andrew, Music  
 Prior, Russell Allen, Art  
 Ransom, Bryan Kenneth, Music  
 Rapp, Michael Walker, Communication  
 Reed, Elyse N., Music  
 Rhinerson, Bernard P., Public Administration  
 Rizzuto, Marie Antoniette Daland, Communication  
 Robertson, Eric James, Communication  
 Robusto, Kristi Marie, Exercise and Nutritional Sciences  
 Rossi, Elizabeth Michelle, Art  
 Ruggero, Lorena Nava, Journalism and Media Studies  
 Rupp, Joan W., Exercise and Nutritional Sciences  
 Salituri, Andrew G., Art  
 Salloum, Zacky William, Communication  
 Sarkees, Lisa Kimberly, Art  
 Sayer, Thomas, Hospitality, Tourism and Management  
 Schmidt, Megan Elizabeth, Theatre, Television, and Film  
 Schneider, Rachel Ann, Exercise and Nutritional Sciences  
 Scholar, Bryan Walter David, Exercise and Nutritional Sciences  
 Shapiro, Wendy Beth, Art  
 Shaw, Kathryn Laurel, Communication  
 Sheehan, Jerome John, Theatre, Television, and Film  
 Shigley, Neil, Art  
 Shimpoock, Rachel Kassia, Art  
 Shoemaker, Sarah Alyson, Communication  
 Shpigelman, Sam, Theatre, Television, and Film  
 Simas, Rick A., Theatre, Television, and Film  
 Sipe, Lori Jayne, Hospitality, Tourism and Management  
 Soukup, Karl Peter, Music  
 Steinberg, David Ethan, Theatre, Television, and Film  
 Strom, Alyssa Marie, Communication  
 Suri, Vandana Ramana, Journalism and Media Studies  
 Tabor, Brian Paul, Exercise and Nutritional Sciences  
 Taylor, Sharon Ann, Communication  
 Tedjasaputra, Vincent, Exercise and Nutritional Sciences  
 Thompson, Gregory, Public Administration  
 Thrane, Bryan Kraig, Communication  
 Thurman, Janian K., Exercise and Nutritional Sciences  
 Tinley, Scott Patrick, Exercise and Nutritional Sciences  
 Trepchina, Natalia Vladimirovna, Art  
 Underwood, Richard Albert, Theatre, Television, and Film  
 Updegraff, Christiana Elisabeth, Art  
 Vanyan, Ksenia P., Theatre, Television, and Film  
 Velasco, Elena Alicia, Art  
 Voigt, Gregory D., Exercise and Nutritional Sciences  
 Voytilla, Stuart W., Theatre, Television, and Film  
 Ward, Christopher Lawrence, Theatre, Television, and Film  
 Weeks, Margaret Beth, Art  
 Wetzel, Robert A., Music  
 Wheat, Michael G., Public Administration  
 White, Ailish Carroll, Exercise and Nutritional Sciences  
 Wiedmaier, Benjamin Jacob, Communication  
 Wilke, Crystal Lea, Hospitality, Tourism and Management  
 Wilkins, Charles J., Public Administration  
 Williams, Allyson B., Art  
 Wimboprasetyo, Djoko, Music  
 Winchell, Jill Greenberg, Art  
 Woods, Ann C., Art  
 Wulfemeyer, Lori L., Journalism and Media Studies  
 Wyss, Scott, Art  
 Yang, Yi Ju, Communication

## SCIENCES

Abadjian, Marie Caline, Chemistry  
 Abeykoon, Kaushalya Brian, Chemistry  
 Abouali, Mohammad, Sciences  
 Adams, Donald Gene, Mathematics  
 Aguado, Lauren Colette, Biological Sciences  
 Alexander, Leslie Diane, Chemistry  
 Andres, Theresa Reyes, Chemistry  
 Andrews, Sara Elizabeth, Psychology  
 Armor, David A., Psychology  
 Ashlyn, Jahna, Psychology  
 Atkinson, Christopher Martin, Psychology  
 Austin, Bertrand Clark, Biological Sciences  
 Baer, David I., Astronomy  
 Baik, Eunsil, Sciences  
 Baik, Eunsil, Mathematics  
 Bailey, Brandi Lynn, Biological Sciences  
 Bajic, Ivan Frank, Computer Science  
 Barbour, Matthew Allen, Biological Sciences  
 Barker, Michael John, Chemistry  
 Barr, Robert Jeffrey, Biological Sciences  
 Basa, Ranor Bello, Biological Sciences  
 Bass, Gideon Perry, Astronomy  
 Batista, Elbano David, Sciences  
 Bazan, Carlos Alberto, Sciences  
 Bell, Thomas William, Biological Sciences  
 Belmont, Peter Joseph, Biological Sciences  
 Beltz, Natalie Ann, Psychology  
 Benson, Courtney Anne, Biological Sciences  
 Bethel Thompson, Cassidy Elizabeth Mercedes, Geological Sciences  
 Bharadwaj, Bharath M., Biological Sciences  
 Billen, Joris, Physics  
 Biren, Glenn J., Mathematics  
 Boiser, Jonathan Gomez, Mathematics  
 Borras Chavez, Renato Francisco, Biological Sciences  
 Bosler, Fabian Torben, Mathematics  
 Bower, Emily Suzanne, Psychology  
 Bozzolo, Francis Henry, Biological Sciences  
 Bressler, Leah Ruth, Psychology  
 Brock, Paul William, Mathematics  
 Brower, Joshua Paul, Biological Sciences  
 Brown, Alissa Jane, Biological Sciences  
 Brown, Derek Brooks, Chemistry  
 Brulte, Gregory Boatner, Biological Sciences  
 Buga, Michael Tadeusz, Geological Sciences  
 Bulach, Brenna Elizabeth, Biological Sciences  
 Burford, Wesley Berry, Biological Sciences  
 Burke, Alexander Evan, Astronomy  
 Burns, Erin Leigh, Psychology  
 Busken, Timothy Conner, Mathematics  
 Butler, Derek Prescott, Chemistry  
 Caldwell, James T., Chemistry  
 Camp, Victor E., Geological Sciences  
 Caplan, Ronald Meyer, Sciences  
 Caplan, Ronald Meyer, Mathematics  
 Carlson, Theresa Ann, Chemistry  
 Carrillo, Melissa, Biological Sciences  
 Cascio, Christopher Ned, Psychology  
 Cassman, Noriko Alexandra, Biological Sciences  
 Castorani, Christopher Nicholas, Biological Sciences  
 Castro, Norma, Psychology  
 Cavanaugh, Kevin Patrick, Mathematics  
 Chalmers, Joseph S., Physics  
 Champlin, Jennifer Lynn, Biological Sciences  
 Chappell, Megan Stoddard, Psychology  
 Cheung, Jennifer Miuling, Mathematics  
 Cipani, Lorenzo Vittorio, Biological Sciences

Clayton, Leslie Noel, Geological Sciences  
 Cole, Christopher Erin, Psychology  
 Colvin, Marianne Anna, Biological Sciences  
 Compton, Violet Mary, Biological Sciences  
 Congedo, Christina Elise, Biological Sciences  
 Cook, Stephen Chipman, Chemistry  
 Cottage, Christopher Travis, Biological Sciences  
 Cowden Hindash, Alexandra Hanah, Psychology  
 Cowles, Martis William, Biological Sciences  
 Cozhimuttam Viswanathan, Meera, Biological Sciences  
 Das, Debashree, Biological Sciences  
 Davies, Steven Vincent, Biological Sciences  
 Davoudzadeh, Pega, Psychology  
 Day, Jeremy Alton, Biological Sciences  
 De Cecchis, Dany, Sciences  
 De Lano, Lisa Marie, Psychology  
 De Mers, Marlene, Biological Sciences  
 Defensor, Travis Scott, Chemistry  
 Demere, Thomas A., Geological Sciences  
 Denaro, Kameryn Rene, Sciences  
 Denaro, Kameryn Rene, Mathematics  
 Derkarabetian, Shahan, Biological Sciences  
 Dey, Mamon, Biological Sciences  
 Dhingra, Kailash C., Physics  
 Din, Shabana Naz, Biological Sciences  
 Dinh, Elizabeth Nu, Psychology  
 Dinino, Mishaela Terese, Psychology  
 Dittiro, Danielle Nicole, Biological Sciences  
 Doherty, Matthew T., Biological Sciences  
 Dolan, Joseph F., Astronomy  
 Dolecal, Renee Elizabeth, Biological Sciences  
 Donahue, Aaron Sheffield, Mathematics  
 Doroudgar, Shirin, Biological Sciences  
 Dowell, Ana Kristina, Psychology  
 Drake, Richard Regis, Psychology  
 Driscoll, Ryan M., Biological Sciences  
 Drobka, Susan Kimball, Psychology  
 Druken, Bridget K., Mathematics  
 Durghalli, Ammar, Physics  
 Ebrahimi, Celia Miriah, Biological Sciences  
 Erdogan, Gulim, Chemistry  
 Evans, La Kenya Elizabeth, Biological Sciences  
 Fahy, Brendan Michael, Mathematics  
 Farrel, Sharilyn Rae, Psychology  
 Feldman, Jeannine A., Psychology  
 Fischer, Kimberlee Marie, Biological Sciences  
 Fitzhugh, Anna Elizabeth, Psychology  
 Foley, Sean Albert Mcsherry, Psychology  
 Freeman, Elise Celeste, Psychology  
 Freiling, Eric Francis, Mathematics  
 Fuentes, Jose Soto, Mathematics  
 Fulk, Bryant Robert, Geological Sciences  
 Garcia Andarcia, Mariangel Del Valle, Sciences  
 Garcia Cardona, Cristina, Sciences  
 Garg, Mansi, Biological Sciences  
 Garver, Sandra Jeanette, Biological Sciences  
 Ghojani, Mariam, Biological Sciences  
 Girgis, Zackary Magdy, Psychology  
 Girty, Gary H., Geological Sciences  
 Glaser, Dale N., Psychology  
 Godinez, Nicholas Steven, Geological Sciences  
 Goetsch, Steven J., Physics  
 Gong, Ke, Chemistry  
 Gonzalez, Juan Pablo, Chemistry  
 Granholm, Eric, Psychology  
 Gregerson, Marc S., Chemistry  
 Grice, Kimberly Lynn, Physics  
 Grummer, Jared Anthony, Biological Sciences  
 Gude, Natalie Allen, Biological Sciences

Guillergan, Maria Barbara, Biological Sciences	Lee, Chi F., Biological Sciences	Pascoguin, Bienvenido Melvin Licup, Physics
Guimond, David Michael, Biological Sciences	Lee, Pam S., Biological Sciences	Pesce, Andrea Suzanne, Biological Sciences
Guo, Jimmy Jian Qiao, Biological Sciences	Leonard, Nikki Lynn, Biological Sciences	Petersen, Laura Nicole, Psychology
Gurney, Michael Allen, Biological Sciences	Levin, Wallis Erica, Psychology	Peterson, Karen I., Chemistry
Hall, Dana Leigh, Biological Sciences	Levytsky, Roman Myroslavovych, Biological Sciences	Peterzell, David, Psychology
Hamil, Oliver Quinn, Physics	Lewis, Joseph, Computer Science	Pham, Huy M., Mathematics
Haridass, Kirthika, Biological Sciences	Lewis, Mckenzie M., Psychology	Pham, Huong Viet Thi, Psychology
Harper, Anthony Maxwell, Biological Sciences	Lin, Chun-Chieh, Chemistry	Phillips, Caitlin Callahan, Psychology
Harry, Taylor Dylan, Physics	Lokensgard, Melissa Eleanor, Chemistry	Pierret, Julien Jonathan, Mathematics
Hauenstein, Arthur V., Chemistry	Ly, Youly, Chemistry	Polk, Stewart Charles, Chemistry
He, Lingjun, Sciences	Lyons, Daniel Carl, Mathematics	Prieto Gomez, Carlos Alberto, Mathematics
He, Lingjun, Mathematics	Macdonald, Bradley Dewitt, Biological Sciences	Quijada, Pearl Jeninne, Biological Sciences
Heaton, Daniel Everett, Geological Sciences	Madrak, Sheila Veronica, Biological Sciences	Rachtman, Eleonora, Chemistry
Hemple, Steven Charles, Mathematics	Malowski, Amy Jean, Biological Sciences	Rajakuberan, Chitra, Biological Sciences
Hernandez, Travis James, Physics	Manchester, Corey, Mathematics	Rane, Madhura Manohar, Chemistry
Herrlin, Daniel Luke, Sciences	Marhadi, Kun Saptohartadi, Sciences	Ranieri, Luke Amadeus, Geological Sciences
Herrlin, Daniel Luke, Mathematics	Marion, Angela Brennan, Biological Sciences	Rawls, Meredith Linwood, Astronomy
Hester, Kelly Deneen, Biological Sciences	Martin, Jessica Ann, Biological Sciences	Regele, Tobias, Mathematics
Hetu, Marcel Michael, Chemistry	Martin, Jessica Kathleen, Chemistry	Replogle, Crystal Teresa, Geological Sciences
Hewitt, Krissi Mary, Biological Sciences	Martin, Katherine Mckenzie, Psychology	Rhoades, Ross Evan, Biological Sciences
Himmerich, Sara Jean, Psychology	Martinez, Joan Manuel, Sciences	Richart, Casey Hahn, Biological Sciences
Hincapie, Gloria, Chemistry	Mason, Nicholas Albert, Biological Sciences	Ricketts, Jason William, Geological Sciences
Hinks, Mallory Lynn, Chemistry	Massey, Craig Adelard, All College	Rideout, Marc Christoffer, Biological Sciences
Holden, Heather Marie, Psychology	Massey, Craig Adelard, Mathematics	Rietmann, Maximilian Anton, Mathematics
Hollingsworth, Bradford Damion, Biological Sciences	Matthews, John Allen, Biological Sciences	Riggins, Lloyd Alan, Computer Science
Hoss, Shannon Kelleigh, Biological Sciences	Mauritztozer, Marguerite, Biological Sciences	Robinson, Scott Michael, Biological Sciences
Huang, Xiyu, Mathematics	Mccabe, Cameron Trim, Psychology	Robinson, Kevin Lee, Geological Sciences
Hubscher, Rodney Mark, Geological Sciences	Mccormack, Maureen Cristin, Biological Sciences	Rochman, Chelsea Marina, Biological Sciences
Hung, Ko-Hsuan, Biological Sciences	Mcdole, Tracey Shannon, Biological Sciences	Roeder, Phoebe E., Physics
Huntington, Barbara Weeks, Sciences	Mcdonald, Barbara A., Psychology	Rossi, Julia Michelle, Physics
Ikawa, Hiroki, Biological Sciences	Mcgowan, William Robert, Chemistry	Rostron, Jason Edward, Biological Sciences
Irvine, Laura Elizabeth, Psychology	Mcgregor, Michael Jeremiah, Biological Sciences	Rotar, Vladimir, Mathematics
Iwabuchi, Manna Frances, Chemistry	Mckenna, Benjamin Scott, Psychology	Rozenman, Michelle Sherry, Psychology
Jackson, Michelle Beth, Psychology	Mckiernan, Katherine Rita, Biological Sciences	Ruedas, Johnny B., Biological Sciences
Jeffries, Mark William, Astronomy	Mcnamara Schroeder, Kathleen Joan, Chemistry	Ruetsche, Markus Hermann, Chemistry
Jenkinson, Ryan Scott, Biological Sciences	Mcqueen, Frances Adair, Biological Sciences	Ruller, Chelsea Marie, Biological Sciences
Jennings, Megan Kathleen, Biological Sciences	Mekha, Lamia Issa, Mathematics	Ryan, Sean Patrick, Biological Sciences
Jepsen, Chris Paul, Mathematics	Miller, Kimberley Elizabeth, Biological Sciences	Sacramentogriolo, Isabelle, Geological Sciences
Johnson, Victoria Alexandria, Chemistry	Mitry, Mark Joseph, Physics	Sainsbury, Jon Steven, Geological Sciences
Johnson, Cheryl Kristen, Geological Sciences	Mol, Melanie Laine, Mathematics	Sanchez Ramirez, Yareli, Biological Sciences
Johnson, Brenda R., Psychology	Monroe, Allyce Hutchens, Psychology	Santillan, Guillermo Antonio, Chemistry
Jones, Colin Leslie, Biological Sciences	Monteverde, Megan Elane, Mathematics	Saponjic, Shawna L., Psychology
Jones, Cory Bryan, Biological Sciences	Morey, Robert Eaman, Biological Sciences	Saylor, Benjamin David, Chemistry
Julian, Anne Katherine, Psychology	Morgan, Holly Michelle, Biological Sciences	Schmit, David John, Chemistry
Junkkarinen, Vesa, Astronomy	Morton, Dana Nicole, Biological Sciences	Schuster, Micah David, Physics
Kacev, David, Biological Sciences	Mostoufi, Sheeva Mariam, Psychology	Schwarzberg, Karen, Biological Sciences
Kadakia, Shimonee Ashok, Astronomy	Muela, Krista Kathleen, Geological Sciences	Scott, Peter Alexander, Biological Sciences
Kamdar, Jayneel Mukesh, Chemistry	Murali, Bhavya Kadambi, Biological Sciences	Selinski, Natalie Elise, Mathematics
Kandes, Martin Charles, Sciences	Naili, Ilham, Biological Sciences	Sellers, Robert Patrick, Chemistry
Kandes, Martin Charles, Physics	Nair, Reji Narayanan, Chemistry	Shaffer, Emily Suzanne, Psychology
Kauwelo, Kevin Ikaika, Physics	Nash, Jenny Beth, Biological Sciences	Shen, Samuel S.p., Mathematics
Kelly, Linda Ellen Wegley, Biological Sciences	Nash, Aaron Gabriel, Chemistry	Silverstein, Laura Nicole, Mathematics
Kenneally, Dennis Michael, Sciences	Navarro, Mario Fco, Chemistry	Sin, Jon Joseph, Biological Sciences
Kim, Brandon Jonathan, Biological Sciences	Nazarova, Lidia Aleksandrovna, Chemistry	Singh, Erinpriti Kaur, Chemistry
Kitchev, Todor Petkov, Mathematics	Neary, Tiffany Jonean, Chemistry	Sinha, Usha, Physics
Klein, Elaine Renee, Biological Sciences	Nelson, Robert, Physics	Somanathan, Ratnasamy, Chemistry
Konoske, Paula J., Psychology	Noble, Helen, Mathematics	Sorg, Scott Francis, Psychology
Kotte, Amelia, Psychology	Nolasco, Michelle Maria, Sciences	Sparta, Steven N., Psychology
Kottke, Mark Dieter, Chemistry	Norgard-Sumnicht, Karin Elaina, Biological Sciences	Specht, Zephen, Chemistry
Kraft, Patricia L., Computer Science	Olney, Jeffrey Jon, Psychology	Spilkin, Aymi Michelle, Psychology
Krogsrud, David, Astronomy	Olson, Holly Elizabeth, Geological Sciences	Spinetta, Michael, Psychology
Lai, Yi-An, Biological Sciences	Otto, James Scott, Sciences	Stadnick, Nicole, Psychology
Larsen, Casey Renee, Chemistry	Padilla, Cynthia, Mathematics	Staker, Joshua Tyler, Physics
Laskowski, Cheryl Ann, Biological Sciences	Page, Bryan Robert, Geological Sciences	Steele, Allison Nicole, Biological Sciences
Laumakis, Mark A., Psychology	Palmer, Lindsay Erin, Psychology	Stephens, Becky, Sciences
Lazar, Robert Lee, Mathematics	Pan, Chung-Mao, Chemistry	Stephens, Becky, Mathematics
Leavitt, Dean Herschel, Biological Sciences	Paolini, Paul, Sciences	Stevens, Ally Shay, Psychology
Ledahl, Jeffrey Soren, Sciences	Paolini, Maureen G., Biological Sciences	Stewart, Brenton Tiberius, Psychology
Ledahl, Jeffrey Soren, Mathematics	Parker, Matthew A., Chemistry	Stinson, Cory Alan, Physics

## Lecturers

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**Stotland, Aleksandr Borisovich**, Biological Sciences  
**Suarez, Jean Piero**, Sciences  
**Sundaraman, Balaji**, Biological Sciences  
**Sussman, Spencer Craft**, Biological Sciences  
**Sutton, Lauren Alicia**, Geological Sciences  
**Swarts, Spencer Paul**, Chemistry  
**Tabor-Godwin, Jenna Mae**, Biological Sciences  
**Tadimalla, Archana**, Biological Sciences  
**Takenaka, Koyuki**, Chemistry  
**Tang, Weishene Joyce**, Biological Sciences  
**Tatum, Boyd C.**, Psychology  
**Taylor, Michael James**, Psychology  
**Thorn, Benjamin Michael**, Mathematics  
**Title, Pascal Olivier**, Biological Sciences  
**Torres, Adam Lloyd**, Physics  
**Tran, Hai Ngan**, Chemistry  
**Tronboli, Krystal Lynn**, Biological Sciences  
**Truesdale, Harold David**, Biological Sciences  
**Tsueng, Ginger**, Biological Sciences  
**Turner, Michael Allan**, Sciences  
**Turner, Katherine C.**, Psychology  
**Ulibarri, Monica D.**, Psychology

**Vahidi, Arrash Adrian**, Chemistry  
**Van, Jenny Kim**, Chemistry  
**Vedula, Aparna Deepti**, Biological Sciences  
**Vekich, John Alan**, Biological Sciences  
**Verma, Neha**, Biological Sciences  
**Villaluz, Mark Allen Olano**, Chemistry  
**Villodas, Miguel**, Psychology  
**Visconti, Nathan Andrew**, Psychology  
**Vydha, Srilatha**, Chemistry  
**Wahyudi, Hendra**, Chemistry  
**Wall, Kate M.**, Biological Sciences  
**Walls, Stanley Mark**, Biological Sciences  
**Wang, Jing Jenny**, Biological Sciences  
**Wang, Yang**, Biological Sciences  
**Watts, Vanessa Blair**, Psychology  
**Wawro, Megan Jean**, Sciences  
**Wawro, Megan Jean**, Mathematics  
**Weidner, Jeanne**, Biological Sciences  
**Weldon, Amelia Rose**, Psychology  
**Wheat, Michael G.**, Sciences  
**Wheeler, Sarah Grace**, Biological Sciences  
**Wieland, Jochen Alois**, Mathematics

**Williams, Wesley Robert**, Biological Sciences  
**Wilson, Jonathan Louis**, Sciences  
**Wilson, Robert James**, Chemistry  
**Wilson, Jonathan Louis**, Mathematics  
**Wilson, Lacey Michelle**, Psychology  
**Wohlfrom, Tobias**, Computer Science  
**Worthington, Nichelle Diane**, Physics  
**Wu, Chung-Min**, Psychology  
**Xu, Qian**, Sciences  
**Xu, Yan**, Biological Sciences  
**Xu, Qian**, Mathematics  
**Yamashita, Heather Asano**, Psychology  
**Young, Samantha Allison**, Biological Sciences  
**Young, Mark Joseph**, Physics  
**Zajac, Peter**, Sciences  
**Zajac, Peter**, Chemistry  
**Zhu, Nuolun Long**, Chemistry  
**Zillman, David John**, Chemistry  
**Zubairi, Omair Mujtaba**, Physics  
**Zulueta, Rommel Callejo**, Biological Sciences

# Adjunct Faculty

## ARTS AND LETTERS

Adams, Rosemarie, Rhetoric and Writing Studies  
Alvarez, Guillermo, Rhetoric and Writing Studies  
Apryshchenko, Victor, Political Science  
Baksh, Michael G., Anthropology  
Barajas-Escamilla, Maria Del Rosio, Latin American Studies  
Bennett, Caroline Sue, Rhetoric and Writing Studies  
Berecochea, John E., Sociology  
Blamey, Thomas Langden, Rhetoric and Writing Studies  
Breay, Audrey Lynn, Rhetoric and Writing Studies  
Carr, David, Geography  
Cayleff, Susan E., American Indian Studies  
Chu, Crystal, Arts and Letters, General  
Clarke, Keith C., Geography  
Colston, Stephen A., American Indian Studies  
Connolly, Michael Louis, American Indian Studies  
Cooper, Gwen, American Indian Studies  
Cottrell, Barbara Jean, Sociology  
Diamant, Kathi, Arts and Letters, General  
Du Parc, Veronique, European Studies  
Eugley, Margaret Diane, Rhetoric and Writing Studies  
Farquar, Chris Jason, Rhetoric and Writing Studies  
Fitzgerald, Jennifer, Women's Studies  
Gardella, Martin, Rhetoric and Writing Studies  
Garrett, Mario D., American Indian Studies  
Ghougassian, J. A., Political Science  
Goodman, Rhonda Kushner, Rhetoric and Writing Studies  
Greenfield, Philip J., American Indian Studies  
Gustafson, Marjaneh, Rhetoric and Writing Studies  
Hawthorne, Jeralynne J., Rhetoric and Writing Studies  
Hiskey, James Richard, Rhetoric and Writing Studies  
Hostler, Charles W., Political Science  
Johns, Ann M., Rhetoric and Writing Studies  
Jung, Chin-Te, Geography  
Keesey, Miriam E., Rhetoric and Writing Studies  
Khoromi, Farnaz, Rhetoric and Writing Studies  
Kirksey, Joseph David, Rhetoric and Writing Studies  
Klicperova, Martina, Political Science  
Leonova, Eleanor, Rhetoric and Writing Studies  
Lin, T. Y., Arts and Letters, General  
Liu, Qing, Political Science  
McCrone, Patricia Grace, Sociology  
Mcneil, Lieum Elizabeth, Rhetoric and Writing Studies  
Medin, Andrew Lloyd, Rhetoric and Writing Studies  
Misiasek, Nadine Ann, Sociology  
Mudgett, Carol, Anthropology  
Myers, John Collins, Rhetoric and Writing Studies  
Nadalet, Silvia Maria, Rhetoric and Writing Studies  
Nerhan, Nolana May, Rhetoric and Writing Studies  
Newman, Otto, Sociology  
Ojeda, Norma, Chicana and Chicano Studies  
Ortiz, Isidro D., American Indian Studies  
Parker, Jason W., Rhetoric and Writing Studies  
Plows, Victoria, Geography  
Reinholz, Randolph, American Indian Studies  
Rey Jr, Sergio J., Geography  
Richeport-Haley, Madeline, Anthropology  
Rieckermann, Jorg, Geography  
Rissolo, Dominique Adam, Anthropology  
Roberts, Robert E., Sociology  
Robinson-Zanartu, Carol, American Indian Studies  
Robles, Kathleen Louise, Chicana and Chicano Studies  
Rodriguez-Gonzalez, Raul, Chicana and Chicano Studies  
Russell, Glenn S., Anthropology  
Schwartz, Rosalie, History  
Schwartz, Norah Anita, Latin American Studies

Shipowick, Rory Lawrence, Rhetoric and Writing Studies  
Shoulders, Virginia Ann, Sociology  
Slater, Martha Monika, Rhetoric and Writing Studies  
Smith, Ron, Rhetoric and Writing Studies  
Solana Ortega, Alberto, Geography  
Sundblad, Kristina Darline, Rhetoric and Writing Studies  
Tan, Chia Luen, Anthropology  
Taschek, Jennifer T., Anthropology  
Tempelton, Janet Marie, Rhetoric and Writing Studies  
Tyson, Rose A., Anthropology  
Weigle, Marnie Webster, Rhetoric and Writing Studies  
White, Christopher W., Anthropology  
White, Siobhan Theresa, Rhetoric and Writing Studies  
White, Phillip M., American Indian Studies  
Williams, Marla Grupe, Rhetoric and Writing Studies

## BUSINESS ADMINISTRATION

Blum, Stephen David, Finance  
Hiki, Fumiko, Accountancy  
Lackritz, James R., Business Administration, General  
Ross, Stephen Geoffrey, Business Administration, General  
Ross, Stephen Geoffrey, Finance  
Tarbox, J. J., Management

## EDUCATION

Allen, Timothy, Education, General  
Cook, Sandra, Administration, Rehabilitation and Postsecondary Education  
Hess, William Darrell, Administration, Rehabilitation and Postsecondary Education  
Quinnan, Timothy William, Administration, Rehabilitation and Postsecondary Education  
Shapiro, Joseph B., Education, General  
Starck, Tanis King, Administration, Rehabilitation and Postsecondary Education

## ENGINEERING

Crum, Duane B., Engineering, General  
De Sanctis, Massimo, Mechanical Engineering  
Forbes-Celise, Natasha Yvonne, Engineering, General  
Garcia, Theresa M., Engineering, General  
German, Randall, Mechanical Engineering  
Hinkle, Lawrence C., Engineering, General

## HEALTH AND HUMAN SERVICES

Achilly, Patricia L., Nursing  
Aldrian, Karen Marie, Speech, Language, and Hearing Sciences  
Allen, Anne, Nursing  
Anderson, John P., Public Health  
Asmus, Lisa Elaine, Public Health  
Ayers, Kathi, Nursing  
Baggett, Margarita M., Nursing  
Bailey, Barbara, Nursing  
Basham, Angela G., Public Health  
Bednarchik, Lori A., Public Health  
Beireis, Dorothy Marie, Speech, Language, and Hearing Sciences  
Betzig, Lynn L., Speech, Language, and Hearing Sciences  
Biggerstaff, Michele Ann, Speech, Language, and Hearing Sciences  
Blumberg, Elaine Joyce, Public Health  
Bormann, Jill E., Nursing  
Bosch, Lauren, Speech, Language, and Hearing Sciences  
Boyle, Carol A., Nursing  
Brouwer, Kimberly C., Public Health  
Brown, Karen Ruby, Nursing

Burnell, Lori Lynn, Nursing  
Burr, Susan, Nursing  
Burritt, Joan, Nursing  
Butterstein, George, Public Health  
Calac, Daniel Joseph, Public Health  
Calfas, Karen Jean, Public Health  
Callaway, John, Public Health  
Carranza, Suzanne Virtucio, Nursing  
Carrizosa, Claudia Maritza, Public Health  
Carroll, Karen Crowley, Nursing  
Cervantes, Roberto, Public Health  
Chadwick, David L., Public Health  
Chambers, Christina Deborah, Public Health  
Cheney, Patricia Ann, Nursing  
Clapp, John D., Public Health  
Coleman, Karen J., Public Health  
Coll, Melanie, Speech, Language, and Hearing Sciences  
Cone, Maryann, Nursing  
Cook, Linda R., Speech, Language, and Hearing Sciences  
Curlee, Candace, Nursing  
Daly, Tracy L., Public Health  
D'angelo, Anthony J., Gerontology  
Davidson, Judy E., Nursing  
Davis-Prickett, Jill M., Nursing  
Dawson, Kathy R., Nursing  
Deary, Lauren M., Nursing  
Dehnel, Laurel Anne, Social Work  
Delaney, Diane Elizabeth, Nursing  
Delfino, Ralph J., Public Health  
Dellafield, Mary E., Nursing  
Dicicco, Raymond John, Social Work  
Dirige, Ofelia, Public Health  
Distefano, Georgi L., Social Work  
Dodd-Butera, Teresa Geraldine, Public Health  
Du Bois, Barbara C., Public Health  
Dunn, Erin H., Nursing  
Eisenberg, Michelle, Public Health  
Faillace, Robert Anthony, Speech, Language, and Hearing Sciences  
Farrar, Julie Melinda, Speech, Language, and Hearing Sciences  
Fett, Shirley Lou, Nursing  
Fiorelli, Margaret, Nursing  
Fisher, Barbara M., Nursing  
Fitzgerald, Joan M., Nursing  
Fontanesi, John M., Public Health  
Fox, Malinda Kay, Nursing  
Fraga, Miguel A., Public Health  
Frazer, Gregory, Speech, Language, and Hearing Sciences  
Gailey, Clark, Speech, Language, and Hearing Sciences  
Gallo, Ana-Maria, Nursing  
Gallo, Linda C., Public Health  
Garcia, Maura Patricia, Public Health  
Garrett-Brown, Rebecca C., Nursing  
George, Priscilla H., Speech, Language, and Hearing Sciences  
Gill, Jeanne A., Social Work  
Ginsberg, Michele M., Public Health  
Graham, Patricia Twist, Nursing  
Grodzinsky, Yosef, Speech, Language, and Hearing Sciences  
Gross, Daniel L., Nursing  
Gunn, Robert A., Public Health  
Hair, Carole, Nursing  
Harris, Stephen B., Public Health  
Hawthorne, William B., Social Work  
Hecht, Amy Susan, Nursing  
Hedges, Susan Lynn, Public Health  
Henry, Susan Ann, Public Health



## Adjunct Faculty

---

Hicks, Gayle, Speech, Language, and Hearing Sciences  
Hill, Linda Louise, Public Health  
Hobbs, Jennifer Lynn, Nursing  
Holub, Nancy, Nursing  
Hudson-Abbott, Susan Theresa, Nursing  
Hughes, Suzanne Chung-A-On, Public Health  
Jackson, Marguerite, Nursing  
Jacoby, Jennifer, Nursing  
Jacoby, Sherrie Lee, Nursing  
Kao, Annie Sehsheng, Public Health  
Kaplan, Robert M., Public Health  
Kasanoff, Julie L., Speech, Language, and Hearing Sciences  
Kassem, Nada O., Public Health  
Kehoe, Doreen R., Nursing  
Kerr, Jacqueline, Public Health  
Kirby, Cynthia, Speech, Language, and Hearing Sciences  
Klepeis, Neil, Public Health  
Klicperova, Martina, Public Health  
Kramer, Siri, Nursing  
Kurtin, Paul S., Public Health  
Kutilek, Charlotte Helen, Nursing  
Lance, Valentine, Public Health  
Landis, Blanche Louise, Nursing  
Lange, James Evan, Social Work  
Laniado Laborin, Rafael, Public Health  
Laverdiere, Julie, Nursing  
Leary, Sheryl E., Nursing  
Liang, Bryan A., Public Health  
Lloyd, Linda, Public Health  
Loehr, Deborah A., Nursing  
Long, Rebecca E., Nursing  
Machinist, Jennifer, Nursing  
Manos, Steve P., Social Work  
Martinez-Donate, Ana P., Public Health  
Matonak, Kathy, Speech, Language, and Hearing Sciences  
Matt, Georg E., Public Health  
Mccalmon, Vicki Lynn, Nursing  
Mccarthy, Jeanette J., Public Health  
Mcdaniels, Corinne Rae, Public Health  
Mcdeed-Breault, Catherine, Nursing  
Mcintyre, Iain, Public Health  
Mellish, Alyson, Speech, Language, and Hearing Sciences  
Meng, Sharon, Nursing  
Muehlbauer, Paula M., Nursing  
Murphy, Michael W., Public Health  
Murray, Carla M., Nursing  
Murrell, Teresa C., Nursing  
Neal, Christina Marie, Speech, Language, and Hearing Sciences  
Nichols-Bernhard, Jeanne F., Public Health  
Novencido, Lynn, Nursing  
Oliver, Linda Annette, Speech, Language, and Hearing Sciences  
O'Neill, Theresa M., Nursing  
Ortega, Jasmine Zabala, Nursing  
Overly, Wayne, Nursing  
Palmer, Beth Michelle, Nursing  
Pan, Amy S., Public Health  
Patrick, Kevin M., Public Health  
Perdion, Karen, Nursing  
Perkins, Allison K., Nursing  
Perrin, Steve, Nursing  
Plemmons, Dena K., Public Health  
Pratt, Nancy Gail, Nursing  
Qi, Yingyong, Speech, Language, and Hearing Sciences  
Rauh, Mitchell John-Dale, Public Health  
Reilly, Mary Jane, Nursing  
Rekevics, Cherie Ann, Nursing  
Renn, Hope, Nursing  
Riley, Donna Jean, Public Health  
Riley, Edward P., Public Health  
Roussos, Stergios T., Public Health

Rovniak, Liza Sharon, Public Health  
Ruiz, Marlene, Nursing  
Ryder, Robert W., Public Health  
Salotti, Joanie L., Nursing  
Santi-Rogers, Darlene, Nursing  
Schweikert, Suzanne Martha, Public Health  
Sehmsdorf, Jennifer Pat, Nursing  
Shoemaker, Lorie K., Nursing  
Siegel, Leslee E., Nursing  
Simmes, Diana Renee, Public Health  
Singh, Sadanand, Speech, Language, and Hearing Sciences  
Sipan, Carol Louise, Public Health  
Sobieck, Kristen Joy, Speech, Language, and Hearing Sciences  
Sobo, Elisa Janine, Public Health  
Stacy, Kathleen Mary, Nursing  
Stashower, Keren, Nursing  
Stevens, Gregory J., Public Health  
Timpe, Elizabeth, Nursing  
Torre, Peter, Public Health  
Udwin, Lisa, Speech, Language, and Hearing Sciences  
Valle, Juan R., Gerontology  
Vallina, Veronica, Speech, Language, and Hearing Sciences  
Vaughan, Robin, Speech, Language, and Hearing Sciences  
Vaux, Cathy J., Nursing  
Velasquez, Roberto Eugenio, Gerontology  
Vryheid, Robert Edward, Public Health  
Walenski, Matthew, Speech, Language, and Hearing Sciences  
Weinberg, Marsha, Social Work  
Weiner, Diane E., Public Health  
West, Wende, Public Health  
Wester, Derin C., Speech, Language, and Hearing Sciences  
Winzelberg, Jody, Speech, Language, and Hearing Sciences  
Woelkers, Douglas A., Nursing  
Woodruff, Susan Irene, Public Health  
Wooten, Wilma Jean, Public Health  
Yasmin, Roxana, Public Health  
Yorkey, Darryl Dale, Public Health  
Zellner, Jennifer, Public Health  
Zuniga De Nuncio, Maria Luisa, Public Health

## PROFESSIONAL STUDIES AND FINE ARTS

Apple, Kristopher Lewis, Music  
Arnold, Michael Jay, Military Science  
Bell, Lori, Music  
Benedetti, Fred Masataka, Music  
Boss, Robert, Music  
Cannon, Derek Lamont, Music  
Clemente, John-Willem Angelo, Naval Science  
Covington, Kyle, Music  
Estep, Kimberly Anne, Exercise and Nutritional Sciences  
Ewers, Dominic Ivan, Naval Science  
Fellinger, Michael Theodore, Music  
Fisher, Delores, Music  
Flahan, Carl Mark, Exercise and Nutritional Sciences  
Flood, John C., Music  
Garcia, Daniel L., Naval Science  
Goering, Kevin Michael, Naval Science  
Hellweg, Susan A., School Of Communication  
Henry, Cory Foster, Military Science  
Hernandez, Manuel, Military Science  
Holguin, Mike, Music  
Jones, Elizabeth Erin, Exercise and Nutritional Sciences  
Kurtz, Jeremy, Music  
Kyle, Scott D., Music  
La Plant, Andrew Leo, Exercise and Nutritional Sciences  
Lamson, Mark D., Music  
Lang, Paul Michael, Exercise and Nutritional Sciences  
Lohorn, Michiko, Music  
Lynch, Wilbur Glandius, Military Science  
Mackenzie, Mary, Music

Magnusson, Robert W., Music  
Maril, Travis Aaron, Music  
Martchev, Pamela, Music  
Martchev, Valentin E., Music  
Mashkovtseva, Elena, Music  
Mccloud, Christopher D., Military Science  
Mckenzie, Randi, Professional Studies and Fine Arts  
Mitchell, Jim, Exercise and Nutritional Sciences  
Muffoletto, Peter Daniel, Exercise and Nutritional Sciences  
Norton, Charles Scott, Theatre, Television, and Film  
Olschofka, Jan F., Music  
Penetrante, Renee-Gregory M., Theatre, Television, and Film  
Pinto, Donald John, Exercise and Nutritional Sciences  
Powell, David Wade, Military Science  
Rekevics, John J., Music  
Rinehart, Brooke Alison, Aerospace Studies  
Romero, Celedonio, Music  
Salbato, Justin Philip, Theatre, Television, and Film  
Siltmann, Jason S., Naval Science  
Smith, Allan E., Music  
Stone, Stephen Ray, Exercise and Nutritional Sciences  
Straw, Kevin C., Exercise and Nutritional Sciences  
Svoboda, George Jiri, Music  
Tavares, Teri, Theatre, Television, and Film  
Total, Enrique Abdala, Music  
Tyndall, Christina Lynn, Exercise and Nutritional Sciences  
Velasquez, Laura, Exercise and Nutritional Sciences  
Waldick, Kevin Alan, Exercise and Nutritional Sciences  
Weaver, Matthew, Aerospace Studies  
Wetzel, Robert A., Music  
Wilds, John, Music  
Wimboprasetyo, Djoko, Music  
Winston, Carl, School Of Hospitality, Tourism and Management  
Wojtysiak, Martin J., Aerospace Studies  
Woolley, Mark Stephen, Naval Science  
Yim, Ilkyu Philip, Aerospace Studies  
Zhao, Yao, Music  
Zuniga, George E., Military Science

## SCIENCES

Angione, Ronald J., Astronomy  
Barlow, Steven, Biological Sciences  
Cordero, Elizabeth D., Psychology  
Dinsdale, Elizabeth Ann, Biological Sciences  
Flahan, Carl Mark, Biological Sciences  
Garg, Rajni, Sciences, General  
Hovell, Melbourne F., Psychology  
Huntington, Barbara Weeks, Biological Sciences  
Konopka, Courtney Charles, Computer Science  
Lange, James Evan, Psychology  
Maloy, Stanley, Sciences, General  
Marovac, Nenad, Computer Science  
Martin, Estralita, Psychology  
Mellors, Robert J., Sciences, General  
Mellors, Robert J., Geological Sciences  
Neel, James, Biological Sciences  
Paolini, Paul, Sciences, General  
Paolini, Christopher P., Computer Science  
Rahn, Matthew E., Sciences, General  
Rahn, Matthew E., Biological Sciences  
Ritblatt, Shulamit N., Psychology  
Root, William, Computer Science  
Root, William, Mathematics  
Simmons, Roger, Psychology  
Thomas, Mary Prouty, Computer Science  
Thomson, Douglas Alexander, Psychology  
Tuba, Imre, Mathematics  
Ulloa, Emilio C., Psychology  
Verzi, Diana W., Mathematics

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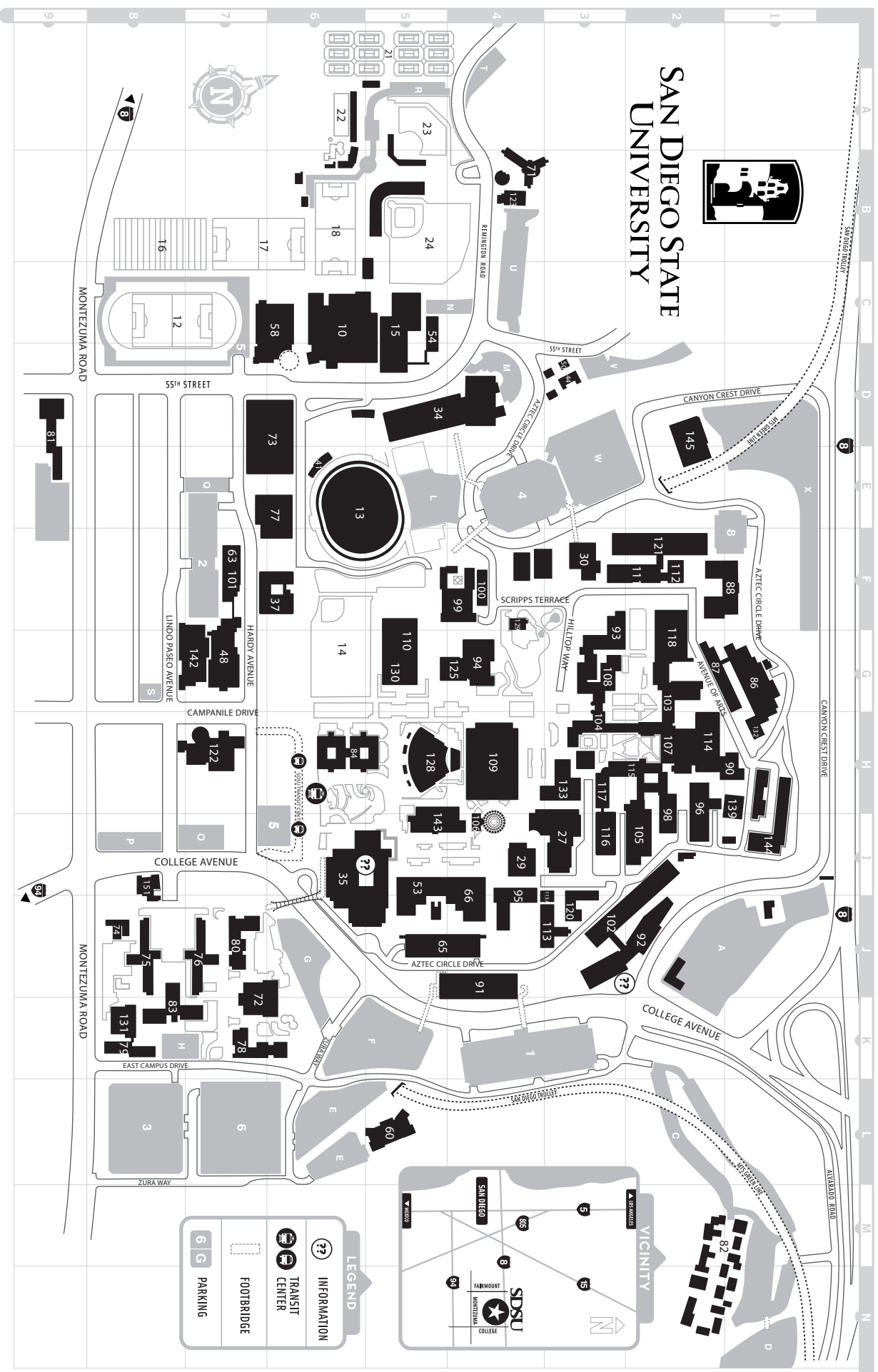
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Curriculum: Stephanie Samuels and Karen R. Tom

Director of Communications, Enrollment Services: Leah Singer

Catalog production: Kristina Velarde and Drew Little

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