Bulletin

San Diego State Teachers College

-AND-

Announcement of Courses
1933-1934



June, 1933

CALIFORNIA STATE PRINTING OFFICE HARRY HANMOND, STATE PRINTER SACRAMENTO, 1933

Bulletin

San Diego State Teachers College

-AND-

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June, 1933

State Teachers College of San Diego

Volume Twenty-one

JUNE, 1933

No. 2

STATE TEACHERS COLLEGE OF SAN DIEGO

Administered Through

DIVISION OF NORMAL AND SPECIAL SCHOOLS

OF THE

STATE DEPARTMENT OF EDUCATION

	Superintendent of Public Instruction ex officio Director of Education
SAM H. COHN	Deputy Director of Education
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ALLEN T. ARCHER	Los Angeles
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DANIEL C. MURPHY	San Francisco
MISS ALICE H. DOUGHERTY	Oakland
MISS ALICE ROSE POWER	San Francisco
OFF	FICERS
EDWARD L. HARDY	President
IRVING E. OUTCALT	Vice President
JESSE W. AULT	Dean of Education
ARTHUR G. PETERSON	Dean of Liberal Arts
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MARGUERITE V. JOHNSON	Registrar
JOHN PAUL STONE	LibrarianFinancial Secretary
	ate Teachers College of San Diego o, California

CALENDAR 1933-1934

SUMMER SESSIONS, 1933.

Term I, six weeks, June 26-August 4.

Term II. three weeks, August 7-August 26.

FALL SEMESTER, 1933-1934.

September 11, 8.30-12.00 a.m., Preregistration of Old Students.

September 11, 8.00 a.m., College Aptitude Test.*

September 11, 2.30 p.m., Fundamentals Test.*

September 12, 8.00 a.m., Examination in Subject A (English Composition).

September 12, 10.00-12.00 a.m., Entrance Examination in Music (by Appointment).§

September 12, 8.30-12.00 a.m., Registration of Old Students.

September 12, 8.30-12.00 a.m. and 1.00-3.00 p.m., Payment of Fees by Students Who Preregistered.

September 12, 1.30 p.m., Official Assembly for New Students— Attendance Required.

September 13, 8.30-12.00 a.m., Registration of New Students with Clear Admission and Returning Students.

September 14, 8.30-12.00 a.m., Registration of New Students with Provisional Admission and Returning Students.

September 14, 1.30 p.m., Student Body Assembly.

September 18, Class Work Begins.

Thanksgiving Recess, Thanksgiving Day and the Friday following.

December 16. Christmas Recess Begins.

January 2, Class Work Resumes.

January 29-February 2, Mid-Year Examinations.

SPRING SEMESTER, 1934.

February 5, 8.30-12.00 a.m. and 1.00-3.00 p.m., Preregistration of Old Students with Initials A-L.

February 6, 8.30-12.00 a.m. and 1.00-3.00 p.m., Preregistration of Old Students with Initials K-Z.

February 6, 9.00 a.m., College Aptitude Test.*

February 6, 1.00 p.m., Fundamentals Test.*

February 7, 8.00 a.m., Examination in Subject A (English Composition).

February 7, 10.00-12.00 a.m., Entrance Examination in Music (by Appointment).§

February 7, 8.30-12.00 a.m., Registration of Old Students.

February 7, 8.30-12.00 a.m. and 1.00-3.00 p.m., Payment of Fees by Students Who Preregistered.

February 7, 1.30 p.m., Official Assembly for New Students— Attendance Required.

February 8, 8.30-12.00 a.m., Registration of New Students with Clear Admission and Returning Students.

February 9, 8.30-12.00 a.m., Registration of New Students with Provisional Admission and Returning Students.

February 9, 1.30 p.m., Student Body Assembly.

February 12, Class Work Begins.

Mar.24-Apr.1, Easter Recess.

May 1, Dedication Day.

May 30, Memorial Day.

June 8-14, Final Examinations.

June 15, Annual Commencement Exercises.

SUMMER SESSIONS, 1934.

Term I, six weeks, June 25-August 3.

Term II, three weeks, August 6-August 25.

^{*} See page 22. § See page 41.

FACULTY

EDWARD L. HARDY, LL.D., President SCHOOL ADMINISTRATION B.L., University of Wisconsin; M.A., University of Chicago; LLD., La Verne College.

Study of European secondary schools. Principal of San Diego High School. (Appointed September, 1910.)

IRVING E. OUTCALT, M.A. VICE PRESIDENT AND PROFESSOR OF ENGLISH

A.B., M.A., Stanford University. Student, University of Illinois; graduate study and research work, Stanford University. Travel in Europe.

Head of Department of English, San Diego High School. (Appointed September, 1912.)

J. W. AULT, M.A. DEAN AND PROFESSOR OF EDUCATION

B.S., Valparaiso University; M.A., University of South Dakota. Student, Miami University; graduate student, University of Iowa and University of Southern California.

Superintendent of city schools; conductor and instructor in teachers institutes; Professor of Education at Southern State Teachers College, Springfield, South Dakota. (Appointed September, 1925.)

DEAN OF LIBERAL ARTS, EX OFFICIO IN GENERAL CHARGE OF LOWER DIVISION STUDIES, AND PROFESSOR OF ARTHUR G. PETERSON, M.A. ECONOMICS

A.B., College of the Pacific; M.A., Stanford University. Graduate student, University of Southern California. Vice Principal of San Diego High School and Director of Junior (Appointed September, 1921.)

CHARLES E. PETERSON, A.B. DEAN OF MEN AND ASSOCIATE PROFESSOR OF PHYSICAL EDUCATION AND DIREC-TOR OF PHYSICAL EDUCATION FOR

A.B., State Teachers College of San Diego. Student, Oregon Agricultural College, University of Caifornia, and two years under Robert Krohn; graduate student, Claremont Colleges.

Director of Playgrounds, Portland, Oregon; Director of Physical

Education, Y. M. C. A.; Physical Education and Recreation work in the United States Army Camp; Director of Physical Education in Junior High School, Berkeley, California. (Appointed July, 1921.)

MARY IRWIN McMULLEN, A.B. DIRECTOR OF PERSONNEL (WOMEN) AND PLACEMENT SERVICE AND ASSIST-ANT PROFESSOR OF EDUCATION

A.B., State Teachers College of San Diego. Public school teacher, Oakland, California. (Appointed Secretary to the President July, 1926; Director of Personnel and Placement Service July, 1930.)

JOHN R. ADAMS, M.A. ASSISTANT PROFESSOR OF ENGLISH

A.B., M.A., University of Michigan.
Graduate student, University of Southern California.
Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington.

(Appointed September, 1928.) (Appointed September, 1928.)

GEORGIA C. AMSDEN ASSOCIATE PROFESSOR OF COMMERCE Gregg School, Chicago; special secretarial training in various institutions; University of California summer session and extension division work.

Teacher in University of California summer school; Traveling Representative and Secretary for the Federal Board for Vocational Education, France, World War; in charge of Stenographic Division, Department of Personnel, American Red Cross Headquarters, Paris, World War; Secretary, Standard Life and Accident Insurance Company, Detroit, Michigan; Assistant Editor and Reporter, Daily Press, Ypsilanti, Michigan; Instructor, San Diego High School. (Appointed September, 1925.)

GUINIVERE KOTTER BACON, M.A. TRAINING SUPERVISOR AND ASSO-CIATE PROFESSOR OF EDUCATION

B.S., Utah Agricultural College; M.A., Stanford University. Graduate student, Stanford University; University of California; Teachers College, Columbia University.

Teacher in Public Schools; Primary Supervisor.

(Appointed July, 1928.)

O. W. BAIRD, M.A.

PROFESSOR OF PHYSICS

A.B., University of Wisconsin; M.A., University of California.
Graduate student, University of Minnesota.
Head of Science Department, University of Wisconsin High School and Stadium High School, Tacoma, Washington; Assistant in Physics Department, University of Washington, Seattle.

(Appointed September, 1921.)

FRED BEIDLEMAN, B.Mus. ASSOCIATE PROFESSOR OF MUSIC

B.S., B.Mus., Columbia University.

Teacher of Music, Boys High School, Brooklyn, N. Y.,; Instructor, Columbia University; Head of Violin Department, University of Illinois; Assistant Professor of Music, University of North Dakota; Professor of Music and Director of the Conservatory College of Puget (Appointed September, 1927.)

GERTRUDE SUMPTION BELL, M.A. PROFESSOR OF PSYCHOLOGY

A.B., Indiana University; M.A., Stanford University.
Graduate, Indiana State Normal School; Research Work, Clark
University. Travel in Europe.

Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor, School of Education, Indiana University, (Appointed August, 1916.)

ANNA CRON BOREN, A.B.

INSTRUCTOR IN ART

A.B., State Teachers College of San Diego.
Graduate, Kansas State Normal School, Emporia. Student University of Chicago; State Teachers College of Pittsburg, Kansas; Massachusetts Institute of Technology; Stout Institute.
Teacher in rural and city schools in Kansas and Pennsylvania; Supervisor of Manual Arts, city schools of Emporia, Kansas; Professor of Manual Arts and Director of Department, College of Industrial Arts, Denton, Texas.

(Appointed September, 1930.)

MARJORIE KELLY BORSUM, A.B.

INSTRUCTOR IN ART

A.B., University of California at Los Angeles. Pupil in Paris, of Andre Lhote, Painter, and of Mme. Alexandra Exter, Russian Stage Designer. Instructor in Fine Art, Pasadena Junior High School.

(Appointed September, 1927.)

BAYLOR BROOKS, B.A.

INSTRUCTOR IN GEOGRAPHY

B.A., Stanford University. Graduate student, University of Arizona; Harvard University; Oxford University; Stanford University. Travel in Europe.

Member of staff, Yosemite Field School of Natural History; Summer Lecturer, National Park Service, Yellowstone and Yosemite.

(Appointed September, 1931.)

ASSOCIATE OF EDUCATION M. EUSTACE BROOM, Ph.D. A.B., M.A., University of Illinois; Ph.D., University of Southern California.

Student, University of Chicago. Assistant in Psychology, University of Illinois; Teacher, High School, Elizabeth, Illinois; Superintendent of Schools, Scales Mound, Illinois, and Bramwell, West Virginia; Instructor in Education, Extension Division, Concord State Normal School, West Virginia; Teacher, Sion Division, Concord State Normal School, West Virginia; Teacher, Francis W. Parker School of San Diego; Lecturer and Visiting Assistant Professor of Education, University of Southern California; Visiting Assistant Professor of Education (summer session), the George Washington University; Associate Editor, The High School Teacher. (Appointed February, 1928.)

ASSOCIATE PROFESSOR OF SPANISH LESLIE P. BROWN, M.A.

A.B., Yale University; M.A., Harvard University. Instructor in French and Spanish, Northwestern University; Harvard University; University of North Carolina; University of Chicago. (Appointed July, 1922.)

ROY E. CAMERON, Ph.D. ASSOCIATE PROFESSOR OF ECONOMICS

A.B., Ph.D., University of California.

Student, Creighton University.

Professor of Economics, University of Omaha; Teaching Fellow in (Appelling September, 1929.) Economics, University of California. (Appointed September, 1929.)

VINNIE B. CLARK, A.B. ASSOCIATE PROFESSOR OF GEOGRAPHY

A.B., University of Wisconsin.

Graduate student, University of Chicago; University of Mexico. Travel in Mexico and Europe

Assistant in Geography, University of Wisconsin; Teacher, Oak Park High School, Illinois; Instructor in summer session, University of California at Los Angeles. (Appointed September, 1914.)

KATHERINE E. CORBETT, A.M. TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION

B.Pd., Michigan State College; B.S., A.M., Teachers College, Columbia University

Graduate Public School Music Course, Ypsilanti Conservatory of

Teacher in Public Schools, Ypsilanti, Michigan; Training Supervisor, Kent State Normal College, Ohio; Evening High School, San Diego. (Appointed July, 1921.)

J. GRANT CRAMER, M. A. ASSOCIATE PROFESSOR OF MODERN LANGUAGES

A.B., M.A., New York University.

Student, Columbia Law School; University of Leipzig, Germany.
Twenty years residence, travel and study in Europe.
Instructor, French and German, Lehigh University, Bethlehem, Pennsylvania; Associate Professor, Modern Language Department, Boston University; Captain of Infantry, United States Army, Military Intelligence Division. (Appointed September, 1928.)

JAMES ENSIGN CROUCH, M.S. INSTRUCTOR IN BIOLOGY B.S., M.S., Cornell University.

Assistant in Ornithology, Cornell University. (Appointed September, 1932.)

ERBY CHESTER DEPUTY, Ph.D. ASSISTANT PROFESSOR OF EDUCATION

A.B., University of Denver; A.M., Ph.D., Columbia University. Graduate student, University of Southern California.

Teacher in rural schools and principal of high schools, Indiana.

Assistant Professor, University of Arkansas and Kansas State Teachers College. (Appointed September, 1931.)

JOHN MORTIMER GLEASON, M.A. ASSISTANT PROFESSOR OF MATH-EMATICS

A.B., M.A., University of California.

Student, Hope College, University of Michigan, and University of Southern California. Teaching Fellow in Mathematics, University of California. (Appointed September, 1930.)

ASSISTANT PROFESSOR OF PHYSICAL MORRIS HUBBARD GROSS, A.B. EDUCATION

A.B., State Teachers College of San Diego. Teacher, Chula Vista Grammar School; Basket Ball Coach, U. S. Marines and U. S. Naval Hospital. (Appointed September, 1929.)

TRAINING SUPERVISOR AND ASSOCIATE EDITH C. HAMMACK, B.A. PROFESSOR OF EDUCATION

B.A., State Teachers College of San Jose. Graduate of State Normal School of San Diego; graduate student, University of California. (Appointed February, 1911.) Public School Teacher.

ASSISTANT PROFESSOR OF BOTANY DOROTHY R. HARVEY, M.A. A.B., State Teachers College of San Diego; M.A., University of Southern California, Graduate student, Scripps Institute for Biological Research, La Jolla; University of California. Public School Teacher. (Appointed September, 1924.)

ASSOCIATE PROFESSOR OF ZOOLOGY ROBERT D. HARWOOD, PH.D. B.A., Pomona College; Ph.D., Cornell University. Assistant in Biology, Cornell University; Field Entomologist, Natural Survey of Illinois; Teacher, Kern County Union High School and Junior College, Bakersfield; Assistant in Entomology, Cornell University; Stream Survey, Conservation Department, New York. (Appointed September, 1928.)

ASSISTANT PROFESSOR OF PHYSICAL WALTER B. HERREID, A.B. EDUCATION

A.B., Washington State College, Graduate student, University of California and University of Southern California. Freshman Football Coach, Washington State College; Director of Physical Education, Aberdeen High School, Aberdeen, Washington; Director of Physical Education, Santa Maria Union High School;

Coach, Huntington Park Union High School. (Appointed September, 1930.)

ASSISTANT PROFESSOR OF ART EVERETT GEE JACKSON, A.B.

A.B., State Teachers College of San Diego. Student, Agricultural and Mechanical College of Texas; Art Institute of Chicago.

Associate Professor, Sul Ross Teachers College, Alpine, Texas; Instructor, Academy of Fine Arts, San Diego; painter. (Appointed November, 1930.)

REGISTRAR AND ASSOCIATE MARGUERITE VEASEY JOHNSON, A.M. PROFESSOR OF LATIN

A.B., Radcliffe College; A.M., Columbia University. Teacher of Latin, History and French; Assistant in the Registrar's Office, Teachers College, Columbia University. (Appointed July, 1927.)

PROFESSOR OF BIOLOGY MYRTLE ELIZABETH JOHNSON, Ph.D. B.S., M.S., Ph.D., University of California. Research Assistant, Scripps Institute for Biological Research, La Jolla; Instructor, Pasadena High School. (Appointed September, 1921.)

ASSISTANT PROFESSOR OF ENGLISH SYBIL ELIZA JONES, M.L. B.L., M.L., University of California. Director, Junior Players of Pasadena Community Playhouse; Drama Instructor in Chouinard Art School, Los Angeles; Organizing Secretary and Instructor in Play Writing of Summer Art Colony at Pasadena Community Playhouse; Drama Organizer and Director of San Diego Community Service. (Appointed September, 1925.)

JOSEPH SUMNER KEENEY, PH.D. INSTRUCTOR IN ENGLISH A.B., M.A., Yale University; Ph.D., University of California. Instructor in English, Yale in China, Changsha, China; Instructor, San Diego Army and Navy Academy; Instructor in English, University of California. (Appointed February, 1933.)

GENEVIEVE KELLY, A.M. INSTRUCTOR IN SOCIOLOGY A.B., University of California; A.M., Columbia University. Student, Los Angeles Public Library School. Graduate student, University of Chicago. Travel in Europe. Teacher, Corcoran Union High School. Librarian, Northern Arizona Normal School, Flagstaff; Scripps Foundation for Research in Population Problem. lation Problems, Oxford, Ohio.

CHARLES B. LEONARD, Ph.D. PROFESSOR OF HISTORY A.B., M.A., Ph.D., University of California. Instructor in History, Lowell High School, San Francisco; Teaching Fellow in History, University of California,

(Appointed September, 1921.)

(Appointed September, 1924.)

LEWIS B. LESLEY, M.A. ASSOCIATE PROFESSOR OF HISTORY A.B., Stanford University; M.A., University of California. Native Sons' Traveling Fellow in Europe from University of Cali-

Instructor, Principia School, St. Louis, Missouri; Teaching Fellow in History, University of California; Acting Assistant Professor of American History, Pomona College. Summer session staff, Claremont Colleges (Appointed September, 1924.)

GEORGE R. LIVINGSTON, M.A. ASSOCIATE PROFESSOR OF MATHEMETICS B.S., M.A., University of California. Instructor, San Diego Junior College; Head of Department of Mathematics, Santa Barbara Junior College.

(Appointed September, 1921.)

ELMER ALLEN MESSNER, M.A. A.B., M.A., Stanford University. INSTRUCTOR IN CHEMISTRY Student, Marquette University, Milwaukee, Wisconsin; State Teachers College of San Diego. Registered Assistant Pharmacist, State of Wisconsin; Visconsin; Wisconsin: Licentiate in Pharmacy, State of California. Graduate Student, University of Breslau, Germany

(Appointed September, 1931.) CHESNEY RUDOLPH MOE, M.A. A.B., M.A., Stanford University. INSTRUCTOR IN PHYSICS

Student, State Teachers College of San Diego. (Appointed September, 1931.)

ABRAHAM P. NASATIR, PH.D. A.B., M.A., Ph.D., University of California. ASSOCIATE PROFESSOR OF HISTORY Native Sons' Traveling Fellow in History in Europe,
Assistant Teaching Fellow in History, University of California;
Instructor in History, State University of Iowa.

(Appointed January, 1928.) WILLIAM L. NIDA, M.A. PROFESSOR OF EDUCATION, SUPERVISOR OF PUBLIC SCHOOL PRACTICE TEACHING

Ph.B., Ohio State University; M.A., University of Southern Cali-

Graduate student, University of Chicago.
Principal of Ohio High Schools; Superintendent of Schools in Illinois; Supervisor, Junior High School, San Diego. (Appointed July, 1921.)

ASSOCIATE PROFESSOR OF ART LENA PATTERSON, M.A. A.B., B.S., Ohio University; M.A., Columbia University.

Student, Cincinnati Art Academy; Chicago Art Institute; Otis Art Institute; Rudulph Schaeffer School; Reimann School and Itten School, Berlin, Germany; Zweybruck School, Vienna, Austria.

Assistant, Ohio University: Professor, State Teachers College, Kirksville, Missouri; Assistant Scholar, Art Department, Columbia University: Instructor, Chouinard School of Art, Los Angeles. (Appointed July, 1933.)

PAUL LEWIS PFAFF, B.A.

INSTRUCTOR IN ENGLISH

B.A., Stanford University. Student, State Teachers College of San Diego; graduate student, laremont Colleges. (Appointed September, 1931.) Claremont Colleges.

ASSOCIATE PROFESSOR OF SPANISH WALTER T. PHILLIPS, M.A. AND FRENCH

A.B., University of Washington; M.A., Stanford University. Student, National University of Mexico; Institute of French Education, Pennsylvania State College.

Teaching Assistant in Spanish, Stanford University; Assistant Professor of Modern Languages, Willamette University; Instructor (Appointed September, 1927.) in Spanish, Brown University.

ASSISTANT PROFESSOR OF PHYSICAL EDUCATION ALICE M. RAW, A.B. A.B., University of Southern California. Graduate student, University of Southern California. Travel in (Appointed September, 1923.) Europe.

MABEL M. RICHARDS, A.M. TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION

B.S., A.M., University of Missouri, Graduate student, University of Southern California. Rural, City and High School Teacher; City Superintendent of Schools; Supervisor of Mathematics, Training School, State Teachers College, Warrensburg, Missouri; Director in Demonstration School, Northeast Missouri State Teachers College. (Appointed September, 1921.)

ASSISTANT PROFESSOR OF CHEMISTRY DUDLEY H. ROBINSON, M.S. B.Sc. in Sugar Engineering, University of Louisiana; M.S., State University of Iowa Chemist, University of Louisiana Sugar House; Raceland Sugar Factory; State Sugar House, Louisiana; Research Chemist, Thornley and Company; Chief Chemist, Pacific Marine Chemicals, Inc. (Appointed September, 1928.)

INSTRUCTOR IN ANTHROPOLOGY SPENCER L. ROGERS, A.M. AND ENGLISH

A.B., State Teachers College of San Diego; A.M., Claremont Colleges. Student in Archaeology, School of American Research, Santa Fe, Curator in Anthropology, San Diego Museum; honorary curator in prehistory, San Diego Museum. (Appointed September, 1930.)

PROFESSOR OF ASTRONOMY W. T. SKILLING, M.S.

B.S., M.S., University of California. Student, State Normal School, Los Angeles; Stanford University. Teacher, Los Angeles County and City public schools; Assistant in hysics. University of California. (Appointed September, 1901.) Physics, University of California.

ASSOCIATE PROFESSOR OF ENGLISH FLORENCE L. SMITH, M.A. A.B., Northwestern University; M.A., University of Chicago. Graduate student, Medill School of Journalism, Chicago. Instructor, State Normal School, Oshkosh, Wisconsin.
(Appointed July, 1917.)

L. DEBORAH SMITH, A.M. ASSOCIATE PROFESSOR OF MUSIC Mus.B., A.B., Oberlin College; A.M., Columbia University.

Graduate student, Stanford University.

Head of Department of Music, State Teachers College, Winona, Minnesota. (Appointed September, 1922.)

MARIAN PEEK SMOOR, A.M., TRAINING SUPERVISOR AND ASSOCIATE PROFESSOR OF EDUCATION

A.B., A.M., Stanford University. Travel in Europe. Teacher in Public Schools; Assistant in History, Stanford University; Dean of Women, State Normal School, Cheney, Washington; Instructor, Francis W. Parker School, San Diego, California. (Appointed September, 1923.)

CHRISTINE SPRINGSTON, B.M. B.A., B.M., University of Redlands.
Graduate student, University of Redlands and University of Southern California; student in piano with A. E. Guerue of St. Louis ASSISTANT PROFESSOR OF MUSIC and Olga Steeb of Los Angeles. "Diploma of Execution," Conserva-

and Olga Steep of Los Angeles. Diploma of Execution, toire Americain, Fontainebleau, France. Supervisor of Music, Needles, California; Assistant in Piano, Organ and Theory, University of Redlands; Instructor, San Diego High

(Appointed September, 1930.) HARRY C. STEINMETZ, A.M., ASSISTANT PROFESSOR OF PSYCHOLOGY A.B., University of California; A.M., University of Southern Cali-

Assistant in Journalism, University of the Philippines, Manila; Assistant in Educational Psychology, University of California; Instructor, Glendale Union High School and San Mateo Junior College. (Appointed September, 1930.)

JOHN PAUL STONE, M.S., in Library Science B.S., Northwest Missouri State Teachers College; M.S., University of Illinois Library School.

Instructor in English and Public Speaking, Senior High School, Joplin, Missouri; Library work, University of Illinois Library; Professor of Library Science, Louisiana State Teachers College. (Appointed September, 1930.)

ALVENA SUHL, M.A. ASSOCIATE PROFESSOR OF GEOGRAPHY A.B., M.A., University of California. Teaching Fellow, University of California; teacher in public schools.

(Appointed September, 1926.)

JESSIE RAND TANNER, B.S. ASSOCIATE PROFESSOR OF PHYSICAL EDUCATION AND DIRECTOR OF PHY-SICAL EDUCATION FOR WOMEN

B.S. and Bachelor's Teaching Diploma, Teachers College, Columbia

Graduate, Boston Normal School of Gymnastics; Graduate student, University of California and University of Southern California. Tutor, Brookline, Massachusetts; Supervisor of Physical Education, San Diego County Rural Schools, 1921-1923. (Appointed July, 1904.)

FRANKLIN D. WALKER, PH.D. ASSOCIATE PROFESSOR OF ENGLISH B.A., (Hons. Oxon), University of Oxford; Ph.D., University of California.

Student, University of Arizona; Holder of Arizona Rhodes Scholarship to Oxford; Graduate student, University of California.

Instructor in Dramatics, Francis W. Parker School, San Diego, 1926.) (Appointed September, 1926.)

CURTIS REYNOLDS WALLING, E.E. INSTRUCTOR IN MATHEMATICS AND INDUSTRIAL ARTS

A.B., E.E., Stanford University. Student, State Teachers College of Fresno; graduate student, Stanford University. Graduate student training course, Westing-

house Electric and Manufacturing Company, East Pittsburgh, Penn-(Appointed September, 1931.) sylvania.

W. H. WRIGHT, M.A. ASSOCIATE PROFESSOR OF COMMERCE B.S., M.A., University of California, Head of Department of Commerce, Visalia Union High School, (Appointed September, 1921.) Visalia, California,

ASSOCIATE (PART-TIME) MEMBERS OF THE FACULTY

ELIZABETH McPIKE BROWN, Ph.D. Assistant Professor of French Ph.B., M.A., Ph.D., University of Chicago. Diplôme de Phonétique, Ecole des Hautes Etudes, Paris, France;

Certificate d' Etudes Francaises, University of Paris.

Assistant in French, University of Chicago; Head of French Department, Rockford College, Rockford, Illinois; Instructor in University of California, Extension Division, San Diego, Californa,

DEAN BLAKE INSTRUCTOR IN METEOROLOGY AND CLIMATOLOGY Meteorologist, United States Weather Bureau, San Diego.

MARIAN EVANS, B.S. INSTRUCTOR IN EDUCATION

B.S., New York University. Graduate, State Normal School, Los Angeles; Student, University of California, University of New Mexico, State Teachers College of

Teacher, San Bernardino, Sierra Madre, San Marino: Director of Visual Education Activities, San Diego City Schools,

REGINALD POLAND, A.M. PROFESSOR OF ART A.B., Brown University; A.M., Princeton University; A.M., Harvard University.

Fellowship from Princeton University to American Academy at

Director of Denver Art Association: Educational Secretary, Detroit Institute of Art; Director of San Diego Fine Arts Gallery.

WILL J. STANTON, LL.B. ASSISTANT PROFESSOR OF LAW

LL.B., University of Michigan. Graduate student, University of Michigan. Editor legal journal; practicing attorney, Michigan and California.

Instructor, San Diego High School and Junior College.

ASSISTANTS

BRITTON A. NICOL. B.S. SURVEYING AND INDUSTRIAL ARTS AUDREY BOWEN PETERSON, A.B. TRAINING SCHOOL HILDE MARIE KRAMER WALKER GERMAN

SUPERVISORS IN THE EUCLID SCHOOL

HELEN K. SYLVESTER MURIEL CLAYTON MRS. AGNES E. CRAFFORD RUTH MERRILL

PRINCIPAL RUTH M. COOPER MRS. MARIE M. JOHNSON VESTA M. PETERSEN

MEDICAL EXAMINER

O. S. HARBAUGH, M.D.

C. L. FISKE

MEDICAL EXAMINER

LIBRARY STAFF

JOHN PAUL STONE, M.S. IN LIBRARY SCIENCE LIBRARIAN GENEVIEVE KELLY, A.M. ASSISTANT LIBRARIAN IN CHARGE OF CATALOGING LULU GERMANN, B.S. ASSISTANT LIRBARIAN IN CHARGE OF CIRCULATION. HARRIET B. STOVALL ASSISTANT LIBRARIAN IN CHARGE OF MENDING AND LETTERING ALICE E. PRATT, PH.D. ASSISTANT LIBRARIAN IN CHARGE OF REFERENCE WORK CHARLOTTE G. ROBINSON LIBRARIAN OF TRAINING SCHOOL

STAFF OF REGISTRAR'S OFFICE

MARGUERITE V. JOHNSON, A.M.

DOROTHY MAY HARRISON

MADOLYN M. BARNES, B.A.

REGISTRAR

ASSISTANT TO THE REGISTRAR

SECRETARY TO THE REGISTRAR

STAFF OF BUSINESS OFFICE

F. W. VAN HORNE
L. J. CROUCH
ASSISTANT FINANCIAL SECRETARY
MAYME J. SULLIVAN
TELEPHONE OPERATOR

STAFF OF PERSONNEL AND PLACEMENT OFFICE

MRS. MARY IRWIN MCMULLEN, A.B.

DIRECTOR
SECRETARY

TRAINING SCHOOL STAFF

ERBY CHESTER DEPUTY, Ph.D. PRINCIPAL FLORENCE WIGGINS SECRETARY

MAINTENANCE STAFF

MARTIN ROTH

A. L. SEELIG

W. T. BOWEN

BUILDINGS

GROUNDS

HEAT AND MECHANICAL EQUIPMENT

CUSTODIAN

THE COLLEGE

HISTORICAL SKETCH

The State Teachers College of San Diego, usually designated the San Diego State College and formerly known as the State Normal School of San Diego, was established by legislative enactment March 13, 1897, and received its first class in the autumn of 1898. In April, 1921, the school, together with all of the California normal schools, received by act of the Legislature, later approved by the Governor of the State and becoming effective July 28, 1921, the designation of State Teachers College, its full legal title being, "State Teachers College of San Diego."

In June, 1921, under an enactment of the legislative session of the same year, known as the "Junior College Law," the San Diego Junior College was merged with the State Teachers College of San Diego. Under the arrangement thus made, collegiate courses of the lower division (freshman and sophomore years) were offered, both to students preparing for the work of the upper division (junior and senior years) of colleges and universities and to students preparing themselves for the teaching service in the new three and four-year curricula recently established by the State Board of Education. The four-year curricula leading to the A.B. degree (major in Education) were established for this institution June 30, 1923.

Since July 1, 1927, the courses formerly carried as "junior college" courses have been offered as lower division courses of the regular fouryear curricula. On July 12, 1928, the college was authorized by the State Board of Education to offer presecondary curricula with majors in Chemistry, History, English and Romanic languages, and special secondary certification curricula with majors in Physical Education, and Art, all of them leading to the A.B. degree. On January 6, 1930, the State Board of Education authorized the following additional majors in the presecondary curricula: Art, Biological Science (Zoology now offered), and Social Sciences (Economics, Geography and History now offered); also the special secondary certification curriculum with a major in Music. On April 12, 1930, the presecondary major in Commerce was authorized by the State Board of Education, and also the special secondary certification curriculum with a major in Commerce. On June 27, 1931, and on March 18, 1932, presecondary majors in Music and Mathematics were authorized respectively in the same manner.

For the certification of teachers, the authorized courses (elementary, junior high school and special secondary) are offered and, requiring four years of work, lead to the A.B. degree with any one or a combination of the following credentials: Elementary School, Junior High School, Special Secondary in Art, Special Secondary in Commerce, Special Secondary in Music. Special Secondary in Physical Education.

ENVIRONMENT AND STANDARD

OPPORTUNITIES FOR CULTURE AND RECREATION

Environmental conditions other than physical must be taken into account by the student choosing a college. In cultural standards in art, music, literature, and science, San Diego is a favorable college city because, while it is not large, yet it has certain metropolitan advantages for the student. Many of these are to be found in the heritage resulting from the San Diego Exposition of 1915-16, including the buildings themselves, which in their consistent and effective carrying out of motifs of the best types of Spanish colonial art, make up one of the finest exhibits in architecture in America. Housed in these buildings are exhibits in anthropology and culture history which are unsurpassed in certain fields, together with natural history collections, and materials for the study of American archaeology. There is complete cooperation with the directing boards controlling the collections. The Fine Arts Gallery contains excellent exhibitions of paintings. There are plans for the development of a Public Conservatory of Music for which the great out-of-door organ furnishes a beginning. Balboa Park, in which all of these facilities are located, also contains a modern horticultural farm and a great stadium for games, community gatherings, and pageants.

At La Jolla, within the city limits, the Scripps Institution of Oceanography, operated by the University of California, gives opportunity for important cooperation in the biological field.

The courses in commerce and other branches of economics will be considerably aided by San Diego's growing importance as a commercial point particularly as the college will be able, as is planned, through its department of economics, to assist the local Chamber of Commerce in industrial and commercial surveys.

The teacher-training program profits because of the policy of cooperation generously followed by the City School Department, which has resulted in a plan for laboratory work in practice teaching in the city schools. San Diego's fine system of schools, with all of the modern divisions of kindergarten, elementary school, junior high schools, and senior high schools, furnishes unusual opportunities for observation and demonstration to students in training, and for cooperation between the specialists of the city school system and the college.

PHYSICAL CONDITIONS: CLIMATE

The physical conditions in San Diego for study are unsurpassed, since sustained intellectual effort can be maintained always with comfort in the cool, even climate of the place. Temperatures are usually shown on a globe by lines which pass through regions of the same degree of heat or cold. Red lines of 60 degrees and 70 degrees, showing the summer temperature at San Diego, enclose Alaska and Siberia. Blue lines of 59 degrees and 60 degrees, showing the winter temperature at San Diego, enclose Egypt and Arabia. Thus San Diego may be said to have Alaskan summers and Egyptian winters.

Recreational opportunities of an unusual number and variety are open to students, because of the combination of bay, sea beach, mesas, foothills, and mountains, all within compass of two hours travel by automobile. Outdoor sports of all kinds, including swimming and rowing, are possible the year round.

BUILDINGS AND EQUIPMENT

On February 1, 1931, the college was moved to the new buildings and campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The campus has an area of one hundred twenty-five acres. The new buildings are part of a general plan to be completed within the next few years. This plan calls for one style of architecture for the entire group of the Spanish-Moorish type, which is well suited to the landscape and climate of the region. The buildings now in use include the Academic Building, which houses lecture halls, classrooms, and administrative offices; Science Building; Library; Little Theater; Training School; Scripps Cottage (a social clubhouse for women students); the Student Building, housing the soda fountain, cafe, and bookstore. A structure of the duplex gymnasium type, with adequate facilities for the physical education and development of both men and women is in process of construction and will be ready for use in September, 1933. Improvement of the campus which will furnish playing fields and courts for collegiate sports and athletics will also be completed. The training school is supplied with its own, separate play spaces.

AFFILIATED PRACTICE SCHOOL

The Euclid School, a San Diego City elementary school, is affiliated with the college for practice teaching purposes. Cadets are assigned to teach in this school after having had successful initial experience in the Training School or elsewhere. The assignment is for a full half-day for the semester and carries a maximum of seven and one-half units of credit.

STANDARDS OF HEALTH, SCHOLARSHIP AND CHARACTER

All entering students are required to meet the health standards set by the department of physical education, and all lower division students, unless excused for cause, are required to take the courses in physical education, prescribed for freshmen and sophomores. Furthermore, each student is expected as a matter of efficient student and community life to keep himself in the best possible physical condition.

Standards of scholarship are based upon high entrance standards. Frequent ratings of the student are made by his instructors, so that he may at all times know how he stands; but the ability of the student to manage his own educational career and to come reasonably near to his best capabilities are factors that will count in his final ratings.

Since standards of character, as developed by and measured by honest student work, and as revealed by evidences of the possession of thoroughgoing self-respect and community feeling, particularly as to ideals in the important matters of citizenship and future parenthood, are more important than all else, every student will have full oportunity to show that he is worthy and that he has the capacity and the will to manifest and develop character.

ROUTINE AND PROCEDURE

Outside of the necessary routine and procedure in the conduct of registration, class attendance, conduct of examinations, and the like, college affairs are controlled by standards which are the result of experience or which reflect a very definite public opinion and college morale. There is no honor "system," but there is a standard of honor as to honesty in college work. Matters of personal conduct are not the subject of rules and regulations, but are affairs of personal and individual responsibility. Problems of conduct and control affecting the student body or student groups are dealt with as they arise (if they are not already the subject of custom, or of student body by-laws) and usually, are settled by student action.

ORGANIZATION

THE CALENDAR AND REGISTRATION

The college year is divided into the fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six, nine and three weeks. Students may enter at the beginning of either semester and at the beginning of either the six or the three weeks' summer term.

The Summer Session meets the needs of regular students who wish to gain credits toward the A.B. degree, of teachers in service who wish further professional training and of liberal arts students who wish to secure supplemental credit or to shorten the time for completion of work in the lower division.

Registration of students will be made September 12, 13, and 14 for the fall semester, and February 7, 8, and 9 for the spring semester. Those entering as freshmen must see that the high school principal's recommendation is on file before registration day. This recommendation must be made on a form furnished by the college. Those entering with advanced standing must submit transcripts of record covering high school and college work by August 20, January 20, and June 10 for admission to the Fall and Spring semesters and the Summer Session, respectively. An application for evaluation must also be filed, stating which curriculum is desired. In the case of transcripts arriving after the dates specified, persons will run the risk of being obliged to register as special students, without adequate advice concerning their programs with reference to requirements.

ADMISSION TO COLLEGE

GENERAL REQUIREMENTS

Every person admitted as a student to this college must be of good moral character, of good health, and of that class of persons, who, of proper age, would be admitted to the public schools of the state without restriction. At entrance, every student must take an examination to determine his physical fitness for the teaching profession.

A candidate for admission under any of the three following types of standing, must submit the names of three persons by whom he or she has been employed (including the latest employer), if the candidate has not been in attendance at school or college during the semester preceding entrance. These names should be placed on file with the Registrar at least three weeks before the date for registration.

I. Freshman Standing

Graduates of accredited public high schools of California, graduates of other schools of California, and graduates of schools of secondary grade of other states recognized by this college as equal in rank to an accredited public high school of California, who have completed a regular four-year course of study and who are recommended by the principal of the school in which such course of study was completed, may be admitted to undergraduate standing.

Candidates may be admitted by either of two methods:

1. Regular (clear) admission. High school graduates who present twelve recommended units and principals' certificates of recommendation, will be granted regular admission. Graduates of three-year senior high schools must present nine recommended units earned in grades ten, eleven and twelve.

2. Provisional admission. High school graduates who present fewer than the prescribed number of recommended units, but who through their principals' estimations and recommendations, present satisfactory evidence of ability to profit by courses in teacher training, who have abilities, interests and talents desirable in teaching, and who pass suitable college aptitude tests, may be admitted as provisional students. At the close of the first semester in residence, a complete reevaluation of the credentials and records of all such students will be made. Students will then be granted clear admission, dropped from the college, or for sufficient reason continued as provisional students.

Certificates of successful examinations before the College Entrance Examination Board will be accepted to admit candidates who can not meet the requirements of either of the above methods. The entrance examinations of the Board are held in June each year (in California, at Berkeley, Los Angeles, San Diego, and other places). Applications for examinations must be addressed to the College Entrance Examination Board, 431 West 117th street, New York. They must be made upon a blank form to be obtained from the secretary of the Board upon request.

II. Advanced Standing

Students from other institutions of recognized collegiate rank may be admitted to advanced standing upon such terms as the Committee on Advanced Standing may deem equitable. In any case a student must have a scholarship record equal to a C average in this college. Every such candidate is required to present a duly certified statement of his college record together with a statement showing in detail the basis upon which the applicant was matriculated and the preparatory subjects for which matriculation credit was given.

Credit is given only for regular college work in institutions uniformly recognized as standard colleges, or colleges maintained primarily for the training of teachers, or professional schools in those fields in which this

college grants a special credential.

Holders of California Teachers' Certificates, or holders of similar certificates recognized by the California State Board of Education, may be admitted with credit to be determined by the Committee on Advanced

N. B.—Transcripts of record from other institutions will not be returned or copies of them made.

III. Special Standing

Either of the two following types of candidate may be admitted as a special student, provided he is at least 21 years of age. (Applicants will not ordinarily be admitted directly from the secondary schools to the status of special students.)

1. High school graduates who did not make a sufficient number of recommended grades to obtain a principal's recommendation may be admitted as special students in such courses as they seem qualified to undertake. In such cases candidacy for graduation depends upon meeting the scholarship requirement of a "C" average.

2. A candidate who has not had the opportunity to complete a satisfactory high school course, but who is considered competent to undertake certain courses, may be admitted to special standing. Entrance examinations in the subjects of fundamental importance for the work proposed will be assigned whenever it seems advisable. Such a student may become a candidate for graduation upon removing the high school

MATRICULATION RECOMMENDATIONS FOR CERTAIN CURRICULA

In planning to comply with the foregoing requirements for freshman standing, the prospective student is advised to arrange his high school program so as to enable him to enter without handicaps the work of the curriculum to which he seeks admission. Although deficiencies in certain subjects may be removed after admission to freshman standing, such removal will not only reduce the student's opportunity for elective study but may make it necessary for him to extend his college course beyond the normal period of time required for its completion.

In general preparation for a teacher-training curriculum, the prospective student should have attained proficiency in reading, spelling, handwriting, arithmetic, and the use of English.

In preparation for major work in the biological sciences and in the premedical and predental curricula, the prospective student is advised to include chemistry or physics and French or German. For a college major in mathematics or physics, the student should include French or German, geometry, algebraic theory and trigonometry in his high school program, and for a major in chemistry he should include algebraic theory and physics or chemistry. Algebraic theory and trigonometry are recommended for a major in commerce. In his preparation for engineering curricula, the prospective student is strongly urged to lay a good foundation in the study of elementary algebra, plane geometry, algebraic theory, trigonometry, physics, chemistry, and mechanical drawing. For a major in English or a foreign language, the study of Latin is recommended.

MATRICULATION

A student is matriculated when he has satisfied all entrance requirements. The standing of all students is conditional during the first semester of residence.

REGISTRATION PROCEDURE

REGISTRATION

Registration takes place on regularly appointed days at the beginning of each semester. Faculty advisers representing every curriculum assist students in the planning of their programs, but students are urged to study the requirements of the curriculum they intend to follow and to decide upon their choice of electives before consulting their advisors. New students should not expect assistance with their programs until registration day. After their first registration, however, students are given the privilege of planning their programs during the preregistration period immediately preceding the regular registration days, when they may hold more lengthy consultations with their advisers than on registration day. Since registration is not complete until fees have been paid, students should be careful to provide themselves with sufficient funds on registration day.

TESTS REQUIRED AT REGISTRATION TIME AND LATER

(See Calendar for dates.)

1. An examination for the determination of physical fitness is required

of all students at entrance. Appointments are made during registration. 2. All students entering the college are required to take the following tests, mainly for purposes of guidance and assistance: (a) College Aptitude Test. (b) English Composition Test.* Exceptions may be made for students who register for six units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.

3. The Fundamentals Test in reading, spelling, arithmetic and handwriting is a prerequisite for certain courses in Education (see descriptions of courses in Education). Exceptions may be made for former graduates of this college and for graduates of approved four-year colleges.

LATE REGISTRATION

A new student who registers after the close of the first week of the semester is subject to a limitation of his program. A fee of \$2 must be paid for registration after the regular registration period. After the first week of the semester, the instructor's approval must be secured for

CHANGES IN REGISTRATION

Changes in program may be made only with the approval of the student's adviser. In addition, the instructor's approval must be secured for entering a course after the first week.

AUDITORS

Regular auditors must register in the usual way, though this may be done on the first day on which they have classes, without payment of the late fee.

SEMESTER FEES (SUBJECT TO REVISION)

Fees Collected on Registration Day

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	Fee	Deposit
Registration fee (resident students-7 units or more)	\$6.50	
Registration fee (resident students—6 units or less) \$2.50 per unit with \$12.50 maximum		
Registration fee (nonresident students—		
(First semester residence)	75.00	
(Subsequent semesters)	37.50	
Late registration fee (penalty)	2.00	
Contingent fee	8.00	*\$4.00
Towel 2	1.00	* 50
Locker (combination padlock)	.25	* .75
(key)	.25	* .25
Parking fee	.50	

OTHER FEES AND DEPOSITS (Subject to Revision)

	Fee	MIS	Deposi
Fee for additional transcript	\$1.00		
Special examination fee	2.00		
Evaluation of record fee	2.00		
College Aptitude Test	2.00		
English: Subject A	.25		
Fundamentals Test	.50		
Biology	1.50		
Botany	1.50		
Chemistry: 1A, 1B, 6A, 6B, 7, 8	7.50		\$5.00
101, 102	2.50		5.00
106A, 106B, 107, 108	7.50		5.00
123, 124 (per unit)	2.50		5.00
200 (per unit)	1.00		2.50
Art	1.00		
Geography and Geology	1.00		
Music: 2A, 2B	.50		
Physics: 1A, 1B, 1C, 1D, 3A, 3B, 107A, 107B	2.50	*	2.00
Practice Teaching (Education 116) (per unit)	.75		
Speech Arts: 55A, 55B, 55C, 55D	1.00		
155A, 155B, 156A, 156B	1.00		
Surveying: 1A, 1B		*	2.00
Training School contingent fee	2.50		
Zoology: 1A, 1B	3.50		
100	2.50		
121	1.50		
Contingent book and collateral fee (subject to arrangement in each course) from	.25	to	1.00

^{*} Students having deposits from the first semester do not pay the deposits the second semester. † Students taking six units, or less, pay a contingent fee of only \$2.50.

^{*}This is required mainly for classification purposes. The results must be considered by students and advisers in the making of schedules. Students are the making of schedules. dents are themselves primarily responsible in the matter of overcoming deficiencies. No student whose use of the English language continues to be notably inaccurate or inadequate should expect to receive a certificate of graduation from the college.

LIVING EXPENSES

Since no dormitories are maintained for the college campus, it is impossible to supervise the living quarters of college students. Students are required to keep the office of the Dean informed of their places of residence if not living with parent or guardian, and every effort is made to assist them in choosing suitable living accommodations.

The Director of Personnel will furnish upon request addresses of homes in which board and room may be secured; also lists of apartment houses and single rooms which may be patronized by students.

Board and room, two meals per day, may be patronized by students, to \$35 per month. Apartments, consisting of one room, kitchenette and bath, renting at \$20 to \$35 per month, will accommodate one or two persons. Single rooms with kitchen privileges at from \$10 to \$20 per month are also available. While at present there are very few accommodations in the immediate vicinity of the college, all of those listed are within reasonable distance and easily accessible to the college.

SELF HELP AND LOAN FUND

A limited amount of clerical work in offices and library may be offered from time to time, but ordinarily is not sufficiently remunerative to reduce expenses materially. An employment service is conducted by an administrative committee, members of which are the Director of Personnel, the Dean of Men and the Dean of Liberal Arts.

The San Diego State College Loan Foundation has been established for the purpose of helping worthy students with insufficient financial are available to students who have been in attendance at the college ciated Women Students, the Kiwanis Club of San Diego, the City Nous Club.

The College Y. W. C. A. has established a scholarship fund and awards one hundred dollars, payable in ten monthly payments, to a tained by the Associated Men Students.

ADMINISTRATIVE REGULATIONS

OFFICERS FOR CONSULTATION

Concerning the housing and living arrangements of students, dates and arrangements for all student social affairs, personal advice (women)—The Director of Personnel.

Concerning matters of student-body policy, personal advice (men), etc.

—The Dean of Men.

Concerning supervision of practice teaching, conference, credential requirements, etc.—The Dean of Education.

Concerning matriculation, program of studies and teaching, credits, etc.

—The Registrar and the Board of Student Advisers.

Concerning health and physical condition, college athletics, rowing, etc.—The Director of Physical Education (women); The Director of Physical Education (men).

Concerning relations to the training school, to pupils, routine, etc.—The Principal of the Training School.

Concerning student-body affairs.—The executive officers of the student-body; the Dean of Liberal Arts; the Director of Personnel; Dean of Men.

Concerning appointments to teaching positions—The Director of Placement Service.

Concerning use of the buildings—The Superintendent of Buildings.

CLASSIFICATION

Regular students are those students who have complied with the requirements of admission and are registered in 7 or more units of work.

Limited students are partial course students who, for adequate reasons,

have been permitted to register for less than 7 units of work.

Special students are mature students who have not satisfied all entrance requirements and who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students.

For convenience in administration, students who have completed 0 to 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units as seniors.

UNITS OF WORK AND STUDY-LISTS LIMITS

A unit of credit represents approximately, for the average student, three hours of actual work per week through one semester—one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work.

Sixteen units, in addition to physical education (a unit), constitute a normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program. Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at the college, a program of 17 units, in addition to physical education, will be credited provided the student was registered for at least 12 units in the preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though such course is in excess of the units credited for graduation. Credit for a program that does not conform to the above regulations can be obtained only by permission of the Scholarship Committee, upon petition. No student will be allowed to register for less than 12 units without the approval of the academic dean of his department.

SCHOLARSHIP GRADES AND GRADE POINTS

The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point

per unit; F, minus one point per unit.

The grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work which may be of higher order but which is incomplete for some acceptable reason. Ordinarily to change an I to another grade the work must be completed within a year. In case of failure in a course, no credit is given until the course has been repeated.

To qualify for a certificate in any curriculum or for a diploma of graduation or for a transcript of record with recommendation, in transferring to another collegiate institution, a student must have earned as many grade points as the number of units he has attempted; that is, he must have attained an average of at least C grade in all work undertaken at the college. On a transcript of record for a student whose scholarship is below a C average, the honorable dismissal shall be qualified by the phrase "except for scholarship."

ELIGIBILITY FOR PRACTICE TEACHING

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, passed the Fundamentals Test or its equivalent, and whose entire record, and also his record for the preceding semester, does not average C grade.

PROBATION AND DISQUALIFICATION

A scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

A student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit be reduced, in the case of a regular student to an amount less than 12 and, in case of a limited student, to an amount less than the average number of units carried per semester.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee. All applications for reinstatement must be in writing.

SPECIAL EXAMINATIONS

Special examinations are classified as (1) matriculation examinations; (2) final examinations taken at other than the regular time; (3) examinations taken for the purpose of removing conditions; (4) examinations for advanced standing.

For every special examination given, the student shall pay a fee of two dollars at the business office. The instructor shall give such examination only on the presentation by the student of a receipt showing that the fee has been paid.

EXAMINATIONS AT SPECIAL TIMES

No final examinations shall be given to individual students before the regular final. Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of the dean of the department and the instructor concerned.

CONDUCT OF EXAMINATIONS

All final examinations shall be written in Blue Books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

WITHDRAWALS FROM CLASS

A student may not withdraw from class without the permission of the proper study-lists officer on a "change of registration card," which must be filed in the Registrar's Office. An unauthorized withdrawal from a class will result in a mark of failure on the student's record. A withdrawal after the sixth week of a semester except for reasons beyond the student's control is interpreted as a failure in the course. A student who is obliged on account of ill health to withdraw completely from college after the sixth week may, upon presentation of a physician's certificate, have his courses dropped from his record without penalty if he has maintained a C average in all his studies up to the beginning of the current semester. Any student who withdraws completely from college for any other cause after the sixth week may have those courses in which his grade was C or better at the time of his withdrawal dropped from his record without penalty, but a grade of F (failure) will be recorded for all courses in which his work was below C at that time.

PLACEMENT SERVICE

A Placement Office is maintained by the college as a clearing house of employment information for superintendents and employing boards and students of the college. While the purpose of this office is to assist candidates in securing positions, it is the primary aim of the office to bring about a better adjustment of the teacher to the community. A complete record of college attainments is kept in a confidential file for each registrant of the office and this material is made available to employers. Recommendations are based on records which indicate every item in the candidate's equipment, and particular care is taken to select in each case the candidate who can best meet the requirements of the position. A fee of \$2 is payable each year in which active service is desired.

STUDENT LIFE

ORGANIZATIONS

Student affairs, and organizations to foster them, are many and varied, but are well coordinated through the central student body organization. The Associated Students. The following list indicates the major activities:

Art Guild, College Orchestra, El Club Azteca, Engineering Club, Four Arts Guild, Gamma Psi (English); International Relations Club, Men's Glee Club, Mu Gamma (Music), Pendragon, Philharmonia, Psychology Club, Spanish Club, Skull and Dagger, Treble Clef Club.

National Honor Societies: Delta Kappa (Chemistry), Kappa Delta Pi (Education), Pi Gamma Mu (Social Science).

Men: Associated Men Students, Blue Key (national), College Band, Physical Education Club, Alpha Phi Omega (national), Delta Pi Beta, Epsilon Eta, Eta Omega Delta, Kappa Phi Sigma, Omega Xi, Phi Lambda Xi, Sigma Lambda, Tau Delta Chi.

Women: Associated Women Students, Cap and Gown, College Y. W. C. A., Women's Athletic Association, Alpha Phi Delta, Alpha Sigma Alpha, Delta Chi Phi, Gamma Phi Zeta, Kappa Theta, Phi Kappa Gamma, Phi Sigma Nu, Sigma Pi Theta, Tau Zeta Rho, Theta Chi.

Men's Athletics: Football, baseball, basket ball, track, swimming, tennis, cross country, wrestling, fencing, and golf.

Women's Athletics: Rowing, swimming, tennis, golf, horseback riding, and seasonal sports.

Publications: The Aztec (weekly), Del Sudoeste (year book), and El Palenque (quarterly).

ALUMNI ASSOCIATION

The college has an active alumni association. Since its reorganization in March, 1929, the Association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The Association also sponsors the organization of Aztec clubs in various communities. Information concerning the Association may be obtained by writing the secretary at the college.

DEGREE REQUIREMENTS

GENERAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN THE CURRICULA WITH TEACHING CREDENTIALS

Total Units, Length of Time, and Residence

A minimum of 124 units of college work is required, representing a four-year course. Students who are planning to secure California teaching credentials through graduation from this college are urged to follow the curriculum pattern for the credential or credentials which they wish to earn, throughout the entire four years. Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.¹

Admission to Upper Division Teacher Training

Students are not admitted to upper division status in teacher training on the basis of merely having completed the lower division work. Application for admission to upper division work should be made during the final semester of the sophomore year and a committee of the faculty, appointed for this purpose, will review the candidate's records and make recommendations regarding admission. In the main, this committee will be guided by the following factors:

- The completion of the lower division work of a given curriculum with a scholastic record equal to or better than the average for all students in the lower division.
- Physical fitness as shown by a prescribed examination given by a college physician.

Fitness for teaching, to be based on recommendations by members
of the faculty and on the judgment of the committee as a result of
personal interviews with the candidate.

Upper Division Course Requirements

At least 40 of the units completed during the junior and senior years shall be in upper division courses (see definition under heading Courses of Instruction); junior standing requires 60 units of credit. Introductory courses open to first-semester freshmen when taken in the junior or senior year may involve either additional work or reduction in the number of units of credit.

Summary of Basic Requirements, Common to All Curricula in This Group

	Education21	units
1	Lower division courses in English 6	units
	Lower division courses in natural science12	
	Physical Education activity2	units
	Political Science 101, or substitute2	units
	Psychology 1A3	units
	Lower division courses in social science12	units

Explanation of the basic requirements:

In the different curricula leading to the various teaching credentials, specific courses are required in the various subjects listed in the summary which may total more than the minimum given in the summary. In addition, the following information must be taken into consideration in connection with fulfilling the requirements in each subject.

English

Courses in journalism or in speech arts are not accepted in satisfying this requirement.

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¹ Graduates of this college and teachers in service in California have until the summer of 1935 to complete the requirement without attendance during the academic year. Graduates from the three-year (ninety-six unit) course, which was in force from 1928 to 1930, may earn the requisite number of units to make a total of one hundred twenty-four by summer session and extension work, provided they attend for two consecutive summers of nine weeks each immediately before graduation, or one summer session of nine weeks with six units of extension work during the same year, taken at this college or in courses given by the University of California by members of the San Diego State Teachers College faculty. From eight to ten units must be taken during these summers in special "residential degree" courses. Graduates from less than the three-year curriculum and other teachers in service in California will be granted the privilege of the arrangement of two summer sessions with the additional qualifications that all lower division requirements must be satisfied before they are accepted as candidates and that their subject matter offering must be made to conform to present standards. Complete information concerning details may be obtained by writing to the Registrar.

DEGREE REQUIREMENTS FOR THE CURRICULA WITH TEACHING CREDENTIALS

Natural Science

The electives may be reduced to a minimum of 6 units if the student presents acceptable grades from the high school in natural science in laboratory courses offered exclusively for the third or fourth year students. In general, each year's work of high school science will thus reduce the requirements by 3 units of credit. No college credit will be given for the high school work; merely an exemption of the requirements will be permitted. The college courses which may be used in satisfaction of this requirement are: Agriculture 20, Astronomy 1, 5, 11; Biology 10A-10B, Botany 2A-2B, 4, 5, 7; Chemistry 1A-1B, 6A-6B, 7-8; Geography 1, 3; Geology 1A, 1B; Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A-1B.

Political Science 101

Political Science 113 or History 171A-171B or History 173A-173B will be accepted as substitutes for this requirement.

Social Science

Courses in the following departments may be used in satisfaction of this requirement: Anthropology, Economics (except 14A-14B and 18A-18B), Geography (except 1 and 3), History, Political Science, Social Economics.

Major and Minor Requirements

For the elementary school credential, two academic teaching minors are required; for the junior high school credential, or for both the elementary and junior high school credentials together, an academic teaching major and an academic teaching minor are required. An academic teaching major consists of 24 units in a field other than education, twelve of which must be in the upper division. An academic teaching minor consists of 12 units in a field other than education, six of which must be in the upper division. Academic teaching majors and minors may be established in the following fields: English, foreign languages,

mathematics, natural sciences, and social sciences (economics, geography, history, political science, social economics). Academic teaching minors may also be established in art, music, and physical education.

Combinations of Credentials

In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the requirements.

Scholarship

The number of grade points acquired in this college by the candidate for a degree must be equal to the number of units attempted. (See page 26 for an explanation of scholarship grades and grade points.)

Preparation for Graduate Work

Students who take the A.B. degree with only a special credential and who contemplate doing graduate work for a master's degree at another institution of higher learning in an academic field, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his academic teaching major is advised so to arrange his electives as to complete the presecondary major to avoid the necessity of making up an undergraduate deficiency.

¹ Candidates for the academic teaching major in the field of the natural sciences must meet the general requirement of twelve units of natural science in the lower division including Biology 10A-10B, unless taken in high school. The remaining eighteen units must be chosen so as to include a year course in physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics goldery)

chemistry, physics, zoology).

² Candidates for an academic teaching major in the field of the social sciences must meet the general requirements of twelve units of social science in the lower division including Geography 2 and Social Economics 10. The remaining eighteen units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science).

CURRICULA LEADING TO TEACHING CREDENTIALS

A.B. Degree With Elementary School Credential

	-		Married .	
FRESHMAN YEAR				

Biology 10A,¹ General (unless taken in high school) 3 Geography 1, Elements (Natural Science) 3 Physical Education 1A or 36A ½ Art 6A, Structure 2 2	First Semester—	Units
Physical Education 1A or 36A 1 Art 6A, Structure 2 Second Semester— Biology 10B,¹ General (unless taken in high school) 3 Geography 2, Regions (Social Science) 3 Physical Education 1B or 36B 1 Education 19, Art in the Elementary School 2 Either Semester— Social Economics 10, Introduction to Social Science 3 Electives,² including two minors² (for the year) 12 Sophomore Year First Semester— Psychology 1A, General 3 Music 1A, Music Reading and Ear-training 2 Physical Education 1C or 37 2 Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School 6 Physical Education 53, Physical Education in the Elementary School 6 Physical Education 9 Physical Education 1D or 38A 2 Either Semester— Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 4 Electives, including two minors⁴ (for the year) 14½ or 15	Biology 10A, General (unless taken in high school)	3
Second Semester— Biology 10B,¹ General (unless taken in high school) 3 Geography 2, Regions (Social Science) 3 Physical Education 1B or 36B ½ Education 19, Art in the Elementary School 2	Geography 1, Elements (Natural Science)	3
Second Semester— Biology 10B,¹ General (unless taken in high school) 3 Geography 2, Regions (Social Science) 3 Physical Education 1B or 36B ½ Education 19, Art in the Elementary School 2	Art 6A Structure	100
Biology 10B,¹ General (unless taken in high school) 3 Geography 2, Regions (Social Science) 3 2 2 2 2 2 2 2 2 2		
Geography 2, Regions (Social Science) 3 4 Education 19, Art in the Elementary School 2 Either Semester— Social Economics 10, Introduction to Social Science 3 Electives, including two minors (for the year) 12 32	Second Semester—	
Geography 2, Regions (Social Science) 3 4 Education 19, Art in the Elementary School 2 Either Semester— Social Economics 10, Introduction to Social Science 3 Electives, including two minors (for the year) 12 32	Biology 10B, General (unless taken in high school)	3
Either Semester— Social Economics 10, Introduction to Social Science 3 Electives,² including two minors³ (for the year) 12 SOPHOMORE YEAR First Semester— Psychology 1A, General 3 Music 1A, Music Reading and Ear-training 2 Physical Education 1C or 37 2 Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A Either Semester— Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 2 Electives, including two minors⁴ (for the year) 14½ or 15	Geography 2, Regions (Social Science)	3
Social Economics 10, Introduction to Social Science	Education 10 Art in the File	1
Social Economics 10, Introduction to Social Science 3 Electives,² including two minors³ (for the year) 12 32	Education 13, Art in the Elementary School	2=0
Sophomore Year 12 32 32	Either Semester—	
Sophomore Year 12 32 32	Social Economics 10, Introduction to Social Science	3
SOPHOMORE YEAR First Semester— Psychology 1A, General— Music 1A, Music Reading and Ear-training— Physical Education 1C or 37— Second Semester— Education 17, Music in the Elementary School— Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A— Either Semester— Education 1, Introductory Principles— Art 61A, Elementary Crafts— Art 61B, Elementary Crafts— 2 Electives, including two minors 4 (for the year)— 14½ or 15	Electives, including two minors (for the year)	12
SOPHOMORE YEAR First Semester— Psychology 1A, General— Music 1A, Music Reading and Ear-training— Physical Education 1C or 37— Education 17, Music in the Elementary School— Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A— Either Semester— Education 1, Introductory Principles— Art 61A, Elementary Crafts— Art 61B, Elementary Crafts— Electives, including two minors 4 (for the year)— 14½ or 15		THE RESERVE OF THE PARTY OF THE
First Semester— Psychology 1A, General— Music 1A, Music Reading and Ear-training— Physical Education 1C or 37— Education 17, Music in the Elementary School— Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A— Either Semester— Education 1, Introductory Principles— Art 61A, Elementary Crafts— Art 61B, Elementary Crafts— Electives, including two minors 4 (for the year)— 13 24 25 26 27 27 28 29 20 20 21 20 21 21 21 21 21 21		
Psychology 1A, General 3 Music 1A, Music Reading and Ear-training 2 Physical Education 1C or 37 2 Second Semester— Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A 2 Either Semester— Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 2 Electives, including two minors 4 (for the year) 14½ or 15	SOPHOMORE YEAR	
Art 61A, Music Reading and Ear-training 2/½ or 1 Second Semester— Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A 2 Either Semester— Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 2 Electives, including two minors 4 (for the year) 14½ or 15	First Semester—	
Art 61A, Music Reading and Ear-training 2/½ or 1 Second Semester— Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A 2 Either Semester— Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 2 Electives, including two minors 4 (for the year) 14½ or 15	Psychology 1A, General-	3
Second Semester— Education 17, Music in the Elementary School	Music IA, Music Reading and Ear-training	2
Education 17, Music in the Elementary School 2 Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education	Inysical Education IC or 37	1/2 or 1
Education 17, Music in the Elementary School Physical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education 1D or 38A Either Semester— Education 1, Introductory Principles————————————————————————————————————	Second Schiester—	
Thysical Education 53, Physical Education in the Elementary School, or Physical Education 54, Administration of Physical Education Physical Education Physical Education 1D or 38A Either Semester— Education 1, Introductory Principles Art 61A, Elementary Crafts Art 61B, Elementary Crafts Electives, including two minors 4 (for the year) 14½ or 15	Education 17. Music in the Elementary School	2
Physical Education 54, Administration of Physical Education 2 Physical Education 1D or 38A ½ Either Semester— Education 1, Introductory Principles————————————————————————————————————	Inysical Education 53. Physical Education in the Florier	
Physical Education 2 2 2 2 2 2 2 2 2	of Physical Education 54 Administration of	
Either Semester— Education 1, Introductory Principles————————————————————————————————————	Inysical Education	9
Education 1, Introductory Principles 3 Art 61A, Elementary Crafts 2 Art 61B, Elementary Crafts 2 Electives, including two minors ' (for the year) 14½ or 15	Duty and Education 1D of 38A	2
Art 61B, Elementary Crafts 2 Electives, including two minors 4 (for the year) 14½ or 15		
Art 61B, Elementary Crafts 2 Electives, including two minors 4 (for the year) 14½ or 15	Education 1, Introductory Principles	3
Electives, including two minors 4 (for the year) 2 14½ or 15	Lit Old, Elementary (Fafts	0
	The orb, Enementary Crafts	0
32	two minors' (for the year)	14½ or 13
		32

JUNIOR YEAR

JUNIOR 1EAR	
First Semester-	Units
Education 125A, Curricular Activities—Lower Levels	
Education 126. Children's Literature	2
Education 129, Mathematics in the Elementary School	2
Psychology 102, Genetic	_ 3
Second Semester—	
Education 116, Practice Teaching	_ 3
Education 116, Practice Teaching Leducation 125B, Curricular Activities—Upper Levels	3
Either Semester—	
Education 108, Educational Measurements	_ 3
Physical Education 151, Health Education	_ 2
Physical Education 151, Health Education————————————————————————————————————	2
Electives including two minors (for the year)	7 2000
at the second of the particular and the second of the seco	
	30
SENIOR YEAR	
First Semester—	
	0
Education 116, Practice Teaching ⁷	- 0
Second Semester—	
Education 106 a philosophy	_ 3
Education 106,6 philosophy Electives, including two minors 5 (for the year)	. 21
HAR TO THE ROLL OF	- N 12
	30
SUMMARY	
Art 6A, 61A, 61B	
Education 1, 17, 19, 100, 108, 110, 120A, 120D, 120, 120	. 32
English	- 6
Music 1A	- 2
Natural Science (incl. Biology 10A-10B and Geography 1)	6 00 61
Physical Education 1A-B-C-D or 36A-36B, 37A, 38A; 53; 151_	0 or 05
Political Science 101	6
Social Science (incl. Social Economics 10 and Geography 2)	394 or 40
Electives, including two academic teaching minors	
	124
	ONION WOOM

<sup>Possible substitutions for the requirement in Biology 10A-10B.

1. Botany 2A-2B and Zoology 1A-1B—16 units.
2. High school Botany plus Zoology 1A-1B.
3. High school Zoology plus Botany 2A-2B.
4. High school Botany plus high school Zoology.

See Summary of Basic Requirements.

Unless minor is English, Natural Science or Social Science.

If 6 units in minor taken in freshman year, none needed in sophomore year.</sup>

⁵If 6 units in minor taken in junior year, none needed in senior year.
⁶Not required if junior high school or special credential is earned at the same time.

⁷ Candidates for the elementary school credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

A.B. Degree With Junior High School Credential

First Semester— Biology 10A,¹ General (unless taken in high school) Geography 1, Elements (Natural Science) Physical Education 1A or 36A Second Semester— Biology 10B,¹ General (unless taken in high school) Geography 2, Regions (Social Science) Physical Education 1B or 36B Either Semester— Social Economics 10, Introduction to Social Science Electives,² including major and minor³ (for the year)	3 ½ 3 3 ½
Geography 1, Elements (Natural Science) Physical Education 1A or 36A Second Semester— Biology 10B,¹ General (unless taken in high school) Geography 2, Regions (Social Science) Physical Education 1B or 36B Either Semester— Social Economics 10, Introduction to Social Science	3 ½ 3 3 ½
Second Semester— Biology 10B,¹ General (unless taken in high school) Geography 2, Regions (Social Science) Physical Education 1B or 36B Either Semester— Social Economics 10, Introduction to Social Science	3 3 1 2
Second Semester— Biology 10B,¹ General (unless taken in high school) Geography 2, Regions (Social Science) Physical Education 1B or 36B Either Semester— Social Economics 10, Introduction to Social Science	3 3 1 2
Biology 10B,¹ General (unless taken in high school) Geography 2, Regions (Social Science) Physical Education 1B or 36B Either Semester— Social Economics 10, Introduction to Social Science	
Either Semester— Social Economics 10. Introduction to Social Science	
Either Semester— Social Economics 10, Introduction to Social Science	
Either Semester— Social Economics 10, Introduction to Social Science	
Social Economics 10. Introduction to Social Science	9
Electives,2 including major and minor3 (for the year)	
	16
(11 110) (11)	_
	32
SOPHOMORE YEAR	
First Semester—	
Psychology 1A, General	3
Physical Education 1C or 38A	1 0000
Second Semester—	
Second Semester— Physical Education 1D or 38B	1/2
Either Semester—	
Education 1, Introductory Principles	3
Electives, including major and minor (for the year)	25
	-
	32
First Semester— JUNIOR YEAR	
Education 125B, Curricular Activities—Upper Levels———————————————————————————————————	3
Psychology 102 Canatia Institutions (or substitute)	2
Education 108, Educational Measurements	3
Second Semester—	The state of
Education 116, Practice Teaching	
 Possible substitutions for the requirements in Biology 10 Botany 2A-2B and Zoology 1A-1B—16 units. High school Botany plus Zoology 1A-1B. High school Zoology plus Botany 2A-2B. High school Botany plus high school Zoology. See Summary of Basic Requirements. Unless major or minor is English, Natural Science or Soci year. 	A-10B:
2 See Summary of Basic Requirements. Unless major or minor is English No.	
'If 6 units in minor taken in freshman year, none needed in	al Scien

Either Semester—	Units
Curriculum in Field of Academic Major	. 2
Physical Education 151, Health Education	2
Electives, including major and minor (for the year)	12
	30
SENIOR YEAR	
First Semester—	
Education 116, Practice teaching	3
Second Semester—	
Education 121, Principles of Secondary Education	3
Either Semester—	
Education, elective	2
Electives, including major and minor ⁵ (for the year)	20
SUMMARY	
Education 1, 108, 116, 121, 125B, Curriculum in Field of Aca-	
demic Major, and elective in Education	22
English	6
Natural Science (incl. Biology 10A-10B and Geography 1)	
Physical Education 1A-B-C-D or 36A-36B, 38A-38B; 151 Political Science 101	
Political Science 101Psychology 1A, 102	6
Social Science (incl. Social Economics 10 and Geography 2) Electives, including academic teaching major and minor	12
melmine and the configuration of the configuration	124

⁵ If 6 units in minor taken in junior year, none needed in senior year.

A.B. Degree With Special Credential in Art

This course leads to the A.B. degree and to the Special Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

LOWER DIVISION

LOWER DIVISION	
	Inits
Art 6A-6B, StructureArt 61A-61B, Elementary Crafts	4
Art 61A-61B, Elementary Crafts	4
Education 1, Introductory Principles	3
Education 19, Art in the Elementary School	9
†English	0
	10
†Natural Science	12
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B (women)	ON FRE
Peychology 14 G	2
Psychology 1A, General	3
Bocial Science, Incl. Social Econ 10 Intro to Conial Colores	12
Electives, including additional Art for major	16
Note the second	_
	64
	niestelin
UPPER DIVISION	
Education 116, Practice Teaching (4 units in special field)	6
Education 119, Art in the Junior High Cohool	2
	3
Education 120D, Ollffichiar Activities Times T	9
	0
	2
Electives, including additional courses in Art	41
distributal courses in Art.	41
	-
cases using at federal soon many votest of maket worker hi utless	60
SUMMARY	
Art majorEducation	50
Physical Education Political Science 101 American Latinia	12
Political Science 101, American Instituti	2
Political Science 101, American Institutions	2
Social Science (including See Factor)	3
Electives	12
	15
	-
	124

[†] See Summary of Basic Requirements.

A.B. Degree With Special Credential in Commerce

This course leads to the A.B. degree and to the Special Credential in Commerce, which entitles the holder to teach commercial subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field must be submitted.

Economics 1A-1B, Principles of	Units
Economics 11, Economic History of the United States Economics 14A-14B, Accounting Economics 18A-18B, Commercial Law Education 1, Introductory Principles	
Economics 11, Economic History of the United States Economics 14A-14B, Accounting Economics 18A-18B, Commercial Law Education 1, Introductory Principles	9
Economics 14A-14B, Accounting	- 0
Education 1, Introductory Principles	- 8
English 1A 1D Composition	- 6
English 1A-1B, Composition	- 3
	3
Geography 1, Elements (Natural Science)	- 0
Geography 2, Regions (Social Science)Mathematics 2, Mathematics of Investment	3
*Natural Science	9
Physical Education 1A-1B-1C-1D (men); 36A-36B-38A-38H	
(women)	3
Psychology 1A, GeneralSecretarial Training A, Business Mathematics	1
Secretarial Training A, Business Mathematics	3
Social Economics 10, Introduction to Social Science	- 0
Elective	- 0
UPPER DIVISION	65
Economics 121, Business Administration	. 3
Economics 140 Statistical Methods	- 3
Economics 160A-160R Advanced Accounting	. 6
Economics 161, Cost AccountingEconomics 163, Machine Accounting	3 3
Economics 163, Machine Accounting	- 3
Education S21, Penmanship Methods (to be taken in Sum mer Session)	4
Education 116, Practice Teaching	- 6
Education 121, Principles of Secondary Education	9
Education 163, Stenography	- 5
Education 164, Bookkeeping	2 2 2
Education 165, TypewritingEducation, Elective (Educational Psychology recommended)_	
Geography 141, Economic Geography	3
Political Science 101, American Institutions	2
Canada in maining 14 1D Typowriting	· · · ·
Secretarial Training 5A-5B, Stenography	10
occidental Training on on, some	-

^{*} See Summary of Basic Requirements.

SUMMARY

Economics	41
Education	23
English	6
Geography	9
Mathematics	3
Natural Science (in addition to Geography 1)	9
Physical Education	2
Louised Science 101. American Institutions	2
Psychology	2
Secretarial Training	20
Social Economics 10 Introduction of the Social Economics 10 Introduction	3
Social Economics 10—Introduction to Social Science	0
	3

A.B. Degree With Special Credential in Music**

This course leads to the A.B. degree with a Special Credential in Music entitling the holder to teach music in senior high, junior high, and elementary schools.

Education 17, Music in the Elementary School ‡English *Music, Applied Music 1A-1B, 1C-1D, or 1B, 1C, 1D, 1E, Music Reading ar Ear Training Music 2A-2B, Appreciation and History Music 4A-4B, Elementary Harmony Music 11, or 12, or 20 ‡Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38 (women)	1E, Music Reading and ory
*Music, Applied Music 1A-1B, 1C-1D, or 1B, 1C, 1D, 1E, Music Reading ar Ear Training Music 2A-2B, Appreciation and History Music 4A-4B, Elementary Harmony Music 11, or 12, or 20 Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	1E, Music Reading and ory
Music 1A-1B, 1C-1D, or 1B, 1C, 1D, 1E, Music Reading an Ear Training Music 2A-2B, Appreciation and History Music 4A-4B, Elementary Harmony Music 11, or 12, or 20 Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	orynen); 36A-36B, 38A-38B
Music 4A-4B, Elementary Harmony Music 11, or 12, or 20 Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	nen); 36A-36B, 38A-38B
Music 4A-4B, Elementary Harmony Music 11, or 12, or 20 Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	nen); 36A-36B, 38A-38B
Music 11, or 12, or 20 Natural Science Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	nen); 36A-36B, 38A-38B
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38	nen); 36A-36B, 38A-38B
Physical Education 1A-1B, 1C-1D (men); 30A-30B, 60A 50	vear)
(women)	vear)
Downless 14 Conorel (sonhomore vear)	Intro. to Social Social
Social Science, incl. Soc. Econ. 10, Intro. to Social Science.	

Education 116, Practice Teaching (at least 4 units in Music) Education 121, Principles of Secondary Education	-
Education 127, Music in the Secondary School	2
Music 103A-103B, Appreciation and History	4
Music 105A-105B, Advanced Harmony Music 107A-107B, Conducting Music 108, Instrumentation	

* Applied Music to be distributed as follows:

	Orches	tral instrument(s) chestra (if qualified)	(Including at least one year and/or Instrumental Ensemble) 6
**;;	Piano Voice		

(Applied Music credits, 1½ units per semester, for not less than one lesson per week, with six hours practice per week, totaling at least ten hours instruction and one hundred hours practice per semester. Applied Music is taken under outside private teachers, subject to the approval and supervision of the music department of the college, which determines credit and grades by examination. Upper division credit not allowed for beginning work in applied music.

‡ See Summary of Basic Requirements.

‡ Minimum attainment for completion of Piano Requirement in Music curriculum is the ability to play accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

** Applicants for admission to the Music curriculum will be required to take an entrance examination in Piano, to determine their ability to play satisfactorily hymns and folk songs of the type found in the Golden play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs. Those not able to meet this requirement must study piano without credit until able to pass such an examination. They may also take examinations in Fundamentals of Music, and Harmony, for advanced standing in these subjects.

UPPER DIVISION COURSES-Continued

A.B. Dagree Wilh Special Gredential in Studies.	Units
Music 111, or 112, or 120	2
Political Science 101, American Institutions (or substitute)	_ 2
Electives	_ 16
	124
SUMMARY	
Education	21
English	
Music major	50
Natural Science	_ 12
Physical Education	_ 2
Political Science 101, American Institutions	
Psychology	_ 3
Social Science (including Soc. Econ. 10)	_ 12
Electives	16
	124

A.B. Degree With Special Credential in Physical Education

This course leads to the A.B. degree and to the Special Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

MEN

LOWER DIVISION

no white Division	
	Units
Biology 10A-10B, General (unless taken in high school) or	6 hell
Zoology 1A, General	4
Education 1, Introductory Principles (sophomore year)	3
†English	- 6
Hygiene 1	2
Hygiene 1	2 or 4
Physical Education:	
1A-1B 1C-1D	2
1A-1B, 1C-1D	
54. Administration	2 4
62A. 62B. Gymnastic Activities	4
62A, 62B, Gymnastic Activities*Sports and AthleticsPsychology 1A, General (sophomore year)	3
Psychology 1A. General (sophomore year)	3
Dal Com Comming Work	
†Social Science, incl. Soc. Econ, 10 and 50	12
Speech Arts 1A, Elements of Public Speaking	3
Zoology 1B, General	4
Electives	11
	64
UPPER DIVISION	
Education 116, Practice teaching	6
Education 121 Principles of Secondary Education	3
Education 125B, Curricular Activities—Upper Levels	3
Education elective	6

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els 3
6
1
2
4
12
2
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3
1 2 2 4 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2

[†] See Summary of Basic Requirements.

* Men majoring in Physical Education must actively participate in three sports each year.

MEN—Continued

Political Science 101, American Institutions (or substitute) 2 Psychology 102, Genetic (first semester, junior year) 2 Zoology 100, Embryology 2 Or Zoology 114A, Genetics 2	3	
Psychology 102, Genetic (first semester, junior year) Zoology 100, Embryology Cor Zoology 114A, Genetics School Sc	3	
Psychology 102, Genetic (first semester, junior year) Zoology 100, Embryology Or Zoology 114A, Genetics	3	
Zoology 100, Embryology		
or	2	
Zoology 121, Entomology	3	
Electives	9-10	
6	0	
SUMMARY		
Education2	1	
English	6	
Speech Arts 1A	3	
Natural Science (including Biol. 10A-10B or substitute and Zoology 1B)1	2	
Physical Education major2	9	
Political Science 101, American Institutions	2 6	
0 . 10	2	
Zoology (upper division)	2 or	2
Electives2	27-28	
1 manual to a 12	24	

WOMEN

LOWER DIVISION	
	Unit
Biology 10A-10B, General (unless taken in high school) or	6
Zoology 1A, General	4
Education 1, Introductory Principles (sophomore year)	3
English	6
Hygiene 2, Personal and Civic	2
Natural Science	
Physical Education:	
36A, Formalized Activities, Group Games, Stunts	
36B, Athletic Games	
37, Game and Rhythmic Activities	
38A, Recreational Activities	$\frac{1}{2}$
53, Physical Education in the Elementary School	- Sec.
55A-55B, Swimming	
56, Tennis	
57, Golf	
58, Rowing	DERES TANKS
Psychology 1A, General Sociology Social Economics 50, General Sociology	The State of the S
Social Science, incl. Soc. Econ. 10, Intro. to Social Science.	
Speech Arts	3
Zoology 1B	THE PERSON NAMED IN
Electives	
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UPPER DIVISION	
	3
Education 108, Educational Measurements	100000000000000000000000000000000000000
Education 116. Practice Teaching	6
Education 116, Practice Teaching	- 6
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels	6 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Education 140, Educational Statistics—————————————————————————————————	- 6 - 3 - 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education 125A, Curricular Activities—Lower Levels Official 140, Educational Statistics—————————————————————————————————	- 6 - 3 - 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 140, Educational Statistics Or Education 106, Philosophy	6 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 140, Educational Statistics Or Education 106, Philosophy	6 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs	6 3 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 140, Educational Statistics Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy	6 3 3 3
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 140, Educational Statistics Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy	- 6 - 3 - 3 - 3 - 3 - 3 - 2 - 2 - 4
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy 157A-157B, Sports Methods 158, Stunts and Tumbling	6 3 3 3 3 3 2 2 2
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy 157A-157B, Sports Methods 158, Stunts and Tumbling 160, Formalized Activities	6 3 3 3 3 2 2 4 1 2
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy 157A-157B, Sports Methods 158, Stunts and Tumbling 160, Formalized Activities 161, Folk Dancing	6 3 3 3 3 2 2 4 1 2 2
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy 157A-157B, Sports Methods 158, Stunts and Tumbling 160, Formalized Activities 161, Folk Dancing	6 3 3 3 3 1 2 2 1 2 2 2 2
Education 116, Practice Teaching Education 121, Principles of Secondary Education Education 125A, Curricular Activities—Lower Levels Or Education 106, Philosophy Physical Education: 102, Emergency and Safety Programs 151, Health Education 154, Applied Anatomy 157A-157B, Sports Methods 158, Stunts and Tumbling 160, Formalized Activities 161, Folk Dancing 163, Technique of Teaching Activities	6 3 3 3 2 2 4 1 2 2 2 2 2
154, Applied Anatomy	6 3 3 3 3 2 2 2 2

WOMEN-Continued

UPPER DIVISION—Continued	nits
153, Administration of Secondary Physical Education	2
175, Current Problems	-
177, Individual Program Adaptations	2
Political Science 101, American Institutions (or substitute)	2
Psychology 102, Genetic (first semester, junior year)	3
Zoology 100, Embryology	estimination of
or	
Zoology 106, Comparative Anatomy of the Vertebrates or	
Zoology 121, Entomology	3
Electives	5
and distribution and distribution of the cast	
	60
SUMMARY	
Education	21
English	6
Hygiene	2
Speech Arts	3
Natural Science (including Biol, 10A-10B or substitute, and	
Z0010gy 1B)	12
Thysical Education major	351
Political Science 101, American Institutions	2
rsychology	6
Social Science (including Social Economics 10 and 50)	12 units
Zoology (upper division)	3
Electives	211
-	
D. H.	124

Diploma of Graduation

A diploma of graduation carrying with it any of the credentials the college is authorized to grant or any combination of them may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of 24 units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must offer the equivalent of all of the requirements listed in the curriculum with the A.B. degree with the credential or credentials sought.

Administration and Supervision Credentials

The State Board of Education has authorized this college to make recommendations for the issuance of Administration and Supervision credentials for holders of Elementary and Junior High School credentials who have completed the required 15 units beyond the requirements for the teaching credential and who have completed two years of successful teaching experience. But holders of general secondary credentials must

take the required courses in and receive recommendation from an accredited graduate school, even though they may wish to qualify for administrative or supervisory work only on the elementary or junior high school level.

In order to secure the recommendation of this college for either one of these credentials, the following number of the 15 required units must be completed at this institution:

- 1. Graduates of this college-6, subsequent to graduation.
- 2. Graduates of other institutions-9.
- 3. County certified teachers-12.

REQUIREMENTS FOR THE JUNIOR CERTIFICATE AND FOR THE DEGREE OF BACHELOR OF ARTS IN THE PRESECONDARY CURRICULA

This course leads to the A.B. degree. Completion of the requirements of this curriculum also enables the graduate to satisfy the undergraduate requirements for the General Secondary credential which, with post-graduate work, will enable the holder to teach in a senior high school or junior college. The degree courses are limited to majors in art, chemistry, commerce, economics, English, geography, history, mathematics, music, Romanic languages, and zoology.

Total Units, Length of Time, and Residence

The junior certificate will be granted on the completion of 64 units of college work and the degree on the completion of 124 units, representing a four-year course. Certain requirements of the junior certificate may be met by courses taken in the high school. No high school course, however, can be used to reduce the amount of college work required for the junior certificate or for the degree. Not less than 54 units must be earned in the junior and senior years; at least 30 units of work at this college; twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation.

Upper Division Course Requirements

At least 40 of the units completed during the junior and senior years shall be in upper division courses (see definition under heading Courses of Instruction); junior standing requires 60 units of credit. Introductory courses open to first-semester freshmen when taken in the junior or senior year may involve either additional work or reduction in the number of units of credit.

Minor Subject

A minimum of 12 units in a minor subject is required, at least 6 units of which shall be in upper division courses completed in the junior and senior years. Minors are available in the following subjects: art, chemistry, economics, English, foreign language, geography, history, mathematics, music, physics, political science, psychology, zoology.

Subject Matter Requirements in the Lower Division

Physical Education 2	i+a
Hygiene 1 or 2	units
Hygiene 1 or 2	units
The state of the s	
Second Including Social Booness as 40	
	HILLIS
Year-course in foreign learning 12	units
Year-course in foreign language in addition to the 15-unit	
	units
Lower division subjects and the above requirements,	units
Lower division subjects required for the major. See page 51.	

Explanation of lower division requirements listed above:

English

This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following year-courses: English 1A-1B, 4A-4B, 12A-12B, 52A-52B, 56A-56B.

Foreign Language

At least 15 units in not more than two languages required in the lower division, except that only 10 units in a modern language are required in the commerce major. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. A minimum of two high school units is acceptable in any language except Latin, in which one unit is permissible.

DEGREE REQUIREMENTS IN THE PRE-SECONDARY CURRICULA

Social Science

Courses must be chosen from the following list: Anthropology 50A-50B, Economics 1A-1B,* 11, 18A-18B, Geography 1-2,* History 4A-4B,* 5A-5B,* 8A-8B,* Political Science 1A-1B,* Social Economics 10, 50.

Natural Science

Twelve units are required from the following lists of high school and

college courses.

Only those high school courses that are offered exclusively for students in the third or fourth year may be used. Each year of high school work in science will be counted in satisfaction of 3 units of the requirement. Not more than 6 units may be counted from the following high school laboratory courses: Physics,* Chemistry,* Botany, Biology, Physiology, Zoology.

Six or more units must be chosen from the following college courses: Astronomy 1, 11, Biology 10A-10B,* Botany 2A*-2B,* 4, 5, Chemistry 1A*-1B,* 6A-6B,* 7-8,* Geology 1A, 1B, Physics 2A-2B, 3A-3B,*

1A-1B,* 1C-1D,* Zoology 1A*-1B.* 100.*

Additional Year-Course

In addition to the minimum requirement of 15 units in not more than two languages, of 6 units in English, and of year courses in high school elementary algebra and plane geometry, 6 units must be chosen from one of the following groups:

Modern foreign language: Any two consecutive college courses.

Latin: Two years of high school courses in Latin.

Mathematics: 3A-3B, 7A-7B, or any combination of 1, 3A, 8. Students with the Commerce major may take Mathematics 1 and 2, or Mathematics B, C and 2, or equivalent.

Philosophy: 5A-5B.

Electives

Among both electives and required work, a total of not more than 12 units of the applied and vocational courses listed below will be counted toward the junior certificate or the A.B. degree, in both the lower and upper division combined:

Agriculture 20; Art 61A, 61B; Journalism 53A-53B, 153A-153B; Music 1A, 1B, 1C-1D, 1E, 19A-19B, 19C-19D, 20A-20B, 20C-20D, 110A-110B, 119A-119B, 119C-119D, 120A-120B, 120C-120D, all courses in Applied Music, and all musical organizations; Physical Education 2A-B to 14A-B, 37, 53, 54, 55, 56, 57, 62A, 62B, 151, 153, 155, 156A, 156B, 157A, 157B, 160, 163, 165, 166, 168, 170, 171, 172, 173, 174, 175, 177, 178A, 178B, 179, 180; Secretarial Training, all courses.

Recommended Program for Meeting the Lower Division Requirements

Treduction of the state of the		Hermanistra
	Units	Units
FRESHMAN YEAR	Sem. I	Sem. II
Social Economics 10	_ 3	
Social Economics 10Physical Education	1	1
Hygiene 1 or 2	9	Comos
English	3	1 3
Foreign Language or electives	3.5	3-5
Contact Color	_ 0 0	203 /20
Social Science		
Natural Science and/or electives, including preparation		41-61
for the major	- 2-42	45-05
	10	10
	10	10
SOPHOMORE YEAR		
Physical Education	1	1000 2
Foreign Language	3.00	3
Additional year course	3	3
Social Science	3	3
Notal Science	3	3
Natural Science or electives	21	planta in the
Electives, including preparation for the major	- 92	Supplemental State of the State
	16	16

Lower Division Subjects Required for the Pre-Secondary Majors

The student is advised to choose his major as early in his college course as practicable so that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year may make it impossible to satisfy the upper division requirements within the normal period of two years.

Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 5, 6A-6B, 50 or the accepted equivalents, and six elective units in art.

Chemistry

Chemistry 1A-1B with an average grade of C or better, Chemistry 6A-6B or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

^{*} At least one of the courses marked with an asterisk must be chosen meet the social science power marked with an asterisk must be chosen to meet the social science requirement and the natural science requirement,

Commerce and managed between

Economics 1A-1B, 11, 14A-14B (6 units); English 1A-1B; Geography 1-2; Mathematics* 1, and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.**

Economics

Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A, 4A; Geography 1 and 2. Recommended: Social Economics 50; Economics 14A-14B,

English

English 1A-1B and nine units from 12A-12B, 52A-52B, 56A-56B. Recommended: A reading knowledge of German or French.

Foreign Languages

Group major: French A-B, C-D and Spanish A-B, C-D. The group major requirements are based on the assumption that the student will have taken courses in the high school, equivalent to the college course in elementary French or Spanish.

Economics 1A-1B	History 41 and an an
Economico 101-14B	History 4A-4B, 8A-8B or Political Science 1A-1B- Hygiene
Foreign Ton- 6	Natural Science 12
Geography 1-2	Physical Education 2 Social Economics 1 2

Geography

Geography 1, 2, 3 and Geology 1A-1B. Recommended: A reading knowledge of French or German.

History

History 4A-4B, 5A-5B, or 8A-8B, and either Political Science 1A-1B, Sconomics 1A-1B Economics 1A-1B, or Geography 1 and 2. No student shall enroll in more than one of the Geography 1 and 2. more than one of the three history courses at a time. Students who wish to major is his three history courses at a time. wish to major in history and who have had less than two years of European history in history and who have had less than two years of European history in high school must take History 4A-4B or 5A-5B.

Mathematics

Mathematics 3A-3B, 4A-4B, and 8. With permission of the department, 7A-7B may replace 3A-3B, and 14A may replace 4A-4B. Recommended: Physics, Surveying, Descriptive Geometry, Astronomy and a reading knowledge of Franch and Control of Geometry, Astronomy and a reading

Music 1A-1B, 2A-2B, 4A-4B, and 2 units of electives in music. The dectives in music in both laws. electives in music in both lower and upper division must include at least * For the equivalent of Mathematics 1, see the prerequisite to Mathematics 2.

** Summary of all lower division requirements for the commerce major.

6 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. Upper division credit will not be given for beginning work in Applied Music. (For restrictions on applied courses, see page 50.)

Zoology

Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, French, German, Botany 2A, 2B, 4, and 5.

Subject Matter Requirements in the Upper Division

Annuality . * and ready * inches or . * had a ready * as a ready at the late of

Psychology 1A (unless elected in lower division)	3		,	units
Political Science 101 or 113	2	or	3	units
Education	12		HO IS	units
Minor (minimum in upper division courses)	6		1	units
Major black black for the profile out and	-			
Electives to make a grand total of 124 units.				

Explanation of upper division requirements listed above:

Political Science

History 171A-171B or History 173A-173B may be substituted to meet this requirement.

Education

A minimum of 12 units in education is required and a maximum of 18 units will be counted toward the degree. The courses in education for the minimum requirement must be chosen from the following list:

Ed. 1, Introductory Principles (lower division elective); Ed. 121, Principles of Secondary Education; Ed. 106, Philosophy of Education; Ed. 107, History of Education; Ed. 108, Educational Measurements; Ed. 109, Educational Administration and Supervision; Ed. 137, Comparative Education; Ed. 130, Educational Psychology; Ed. 140, Elementary Educational Statistics; Psychology 102, Genetic Psychology.

Major

The specific requirements in each major field are listed in the paragraphs immediately following.

Electives

These must be so chosen that, with the required subjects, a minimum of 40 units will be completed in upper division courses after the student has attained upper division standing. See, also, restrictions concerning the choice of applied and vocational courses, as explained on page 50.)

Major Requirements in the Various Fields

Art

Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 150, 152A, 195, and ten upper division elective units in art.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 4A-4B, 106A-106B, 117; French A-B; History 4A-4B, 111A-111B; Speech Arts 55A-55B, 155A-155B.

Chemistry

A minimum of twenty upper division units in Chemistry including Chemistry 101-102. The choice of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

Commerce

Econ. 18A-18B (it is recommended that this be taken in the lower division if possible), 121, 140, and 18 units additional chosen in one of the following groups:

- A. Accounting: Econ. 160A-160B, 161, 163, and 6 units in electives. B. Banking and Finance: Econ. 131, 133, 134, 135, and 6 units in electives.
- C. Marketing and Merchandising: Econ. 123, 125, 171, and 9 units n electives.

Geog. 141 may be used in the electives under A, B, C.

Economics

Required: Economics 100, 140 and 199, with 7 units selected from the fellowing: Economics 121, 123, 127, 131, 133, 134, 135, 171 and 194. Elective: 3 upper division units in general and applied economics 6 additional upper division units in any combination of general and applied economics, and economic geography.

English

Forty-two units in English, of which six lower division units may be in journalism and speech arts and three upper division units may be in composition. At least eighteen units in upper division courses must be completed in the junior and senior years.

Foreign Languages

Group major: Eighteen upper division units in one language or twelve units in one language and six units in the other.

Geography

Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

History Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must in his senior year, enroll in History 199, in connection with which he will write a pure the interior will write a paper, the subject matter to be arranged in consultation

Mathematics

Twenty-four units of upper division work in mathematics, or eighteen units in mathematics and six units in closely related subjects, arranged in consultation with the chairman of the department. Mathematics 111, 112, and 119 should be included in every major, except that students who have taken 14B need not take 119. Related courses offered by other departments include Statistical Methods (Economics 140), Mathematics in the Elementary School and in the Junior High School (Education 129 and 112) and certain upper division courses in chemistry and physics.

Music

Music 103A-103B, 105A-105B, 106A-106B, 107A-107B, 108, and 10 units of upper division elective courses in music. (See statement concerning Applied Music under lower division requirements.)

Zoology

(1) At least a C average in upper division major courses. (2) Twentyfour units of upper division courses in zoology or 18 in the major subject and six in related courses in botany, organic chemistry, physics and physiology.

Lower Division Arrangements and the Junior Certificate

The State Board of Education has authorized fields in which majors and minors may be given in the California Teachers Colleges as follows: Agriculture, Art, Biological Science, Education, Commercial Education, English, Foreign Languages, Home Economics, Industrial Arts Education, Mathematics, Music, Physical Education, Physical Science, Philosophy, Psychology, Social Science.

Since the professional training of teachers requires the maintenance of the standard lower division courses in the field of letters and science, certain courses are available for students of this college who wish to make adaptations of their lower division curricula to correspond to the typical lower division preprofessional curricula. The completion of a curriculum will give junior standing upon transfer to a college offering upper division work in the appropriate field. Such available adaptations of freshman and sophomore courses offered by this college are: Prelegal, premedical, predental, social service, engineering, preagricultural, accountancy, secretarial training. Special advisers have been appointed for each of the above curricula, who will assist students at registration time in making out programs so that they may qualify for the Junior Certificate. A list of these advisers is published in the Time Schedule each semester.

COURSES OF INSTRUCTION

Figures in parenthesis indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses.

Freshmen are not admitted into upper division courses. First semester sophomores who have an average grade of not less than 2.0 grade points and second semester sophomores who have an average grade of not less than 1.5 grade points may enroll in an upper division course provided they were registered in at least 12 units in the preceding semester. It is understood that ordinarily the instructor will be consulted by sophomores wishing to take upper division courses. In such cases an upper division course will count as lower division credit.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a

semester of 18 weeks.

The semester for offering courses is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester's work may seek permission from the instructor to take the second half of the course. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

YEAR COURSES OPEN TO REGISTRATION IN THE MIDDLE OF THE YEAR

OF ITE	YEAR			
Economics 18A-18B Economics 160A-160B English 4A-4B English 12A-12B English 52A-52B English 56A-56B English 106A-106B French 101A-101B French 105A-105B French 110A-110B Spanish 101A-101B Spanish 102A-102B Spanish 105A-105B Spanish 105A-105B History 4A-4B History 5A-5B	History 8A-8B History 111A-111B History 121A-121B History 145A-145B History 146A-146B History 156A-156B History 171A-171B History 173A-173B History 181A-181B Music 2A-2B Music 103A-103B Music 110A-110B Political Science 1A-1B Speech Arts 55A-55B Speech Arts 55C-55D Speech Arts 55C-55D			
Speech Arts 1564 1569				

Speech Arts 156A-156B

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes.

AGRICULTURE

20. Nature Study.

 Λ course to show the student what material, selected from the various sciences, may be woven into a nature study course suitable for children, with special reference to school and home gardening and agriculture. The subject matter covered is partly drawn from the physical sciences, astronomy, physics, etc. (for the upper grades), and partly from life studies of the plant and animal world (for lower grades). May be credited as natural science only for students majoring in Education.

Fall and Spring (3).

ANTHROPOLOGY

LOWER DIVISION COURSES

50A-50B. Man's Evolutionary History.

Origin and antiquity of man. Classification of races. Origin and development of civilization. Prerequisite: Sophomore standing or special arrangement with instructor. Students wishing to take the second half of the course without the first half should consult the instructor.

Year course (3-3).

51A-51B. The American Indian.

Pre-Columbian cultures of the American Indian. Origin and migration of New World peoples. Prerequisite: Sophomore standing or special arrangement with instructor. Students wishing to take the second half of the course without the first half should consult the instructor. Year course (3-3). (Not offered in 1933-1934.)

52. Primitive Cultures.

ROGERS

History and cultural development of primitive races of mankind. Particular consideration given to religion, arts and social organization of living primitive peoples.

Fall (3). (Subject to withdrawal in 1933-1934.)

ROGERS

53. Primitive Religious Culture. Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural. Spring (3). (Subject to withdrawal in 1933-1934.)

UPPER DIVISION COURSE

150A-150B. Social Anthropology.

ROGERS

Backgrounds of human society and contemporary problems in human biology and culture conflict considered from anthropological point of view. Students wishing to take the second half of the course without the first half should consult the instructor.

Year course (3-3). (Not offered in 1933-1934.)

Charles and the College of ART's will applied and agreed

Lower division preparation for the presecondary major (in art) and for the junior certificate: Eighteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 5, 6A-6B, 50 or the accepted equivalents, and six elective units in art.

Presecondary major (upper division): Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-115B, 150,

152A, 195, and ten upper division elective units in art.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 4A-4B, 106A-106B, 117; French A-B; History 4A-4B, 111A-111B; Speech Arts 55A-55B, 155A-155B,

LOWER DIVISION COURSES

Art Appreciation and History

5. Fundamentals.

JACKSON

An illustrated lecture course intended to increase appreciation and give a basic understanding of the elements and principles of art as expressed in the architecture, painting, sculpture, and crafts of the past and present. Fall and Spring (2).

50. Appreciation and History.

JACKSON

A survey of the development of painting, sculpture, architecture, and handicrafts from the dawn of art to the Renaissance, by means of illustrated lectures and discussion. (Not open to freshmen, except by special permission.)

Fall (3). 6A. Structure.

Design

BORSUM

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced art work. Fall and Spring (2).

6B. Structure (continued).

BORSUM

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A. Fall and Spring (2).

11A. Industrial Design.

Problems in creating original designs for decorative and useful articles, jewelry, lamps, and objects that may be made in various materials by hand or machine process. Prerequisite: Art 6A-6B. Fall (2). (Offered in even-numbered years.)

11B. Applied Design.

Designing and completion of actual objects by the students. Such processes involved as carving, painting, dyeing, block printing, batik and the like. Prerequisites: Art 6A-6B, 11A.

Spring (2). (Offered in odd-numbered years.)

14A. Lettering.

BORSUM

A study of fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.

Fall (2).

14B. Posters and Commercial Art.

BORSUM

The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisite: Art 6A, 14A.

Spring (3).

52A. Stage Design.

Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theater. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A. Fall (3).

94. Costume Design.

BORSUM

Original problems in designing modern costumes. A study of line, color, texture, type, and suitability to the wearer and to the occasion; foreign and historic influence on dress. Prerequisite: Art 6A.

Fall (3). (Offered in odd-numbered years.)

Drawing and Painting

JACKSON

A-B. Freehand Drawing.

Semester I: Problems involving perspective to develop ability to draw

still life, furniture, exteriors, interiors, and the like.

Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.

Year course (2-2).

15A-15B, Life Drawing.*

JACKSON

Drawing from the nude model. Does not duplicate the former course in painting, numbered Art 15A-15B.

Year course, beginning either Fall or Spring (2-2).

16A-16B. Painting.

JACKSON

Semester I: Composition of still life and flower forms in water color. Semester II: Landscape and more advanced composition in water color. Prerequisite: Art A-B. No credit for students having completed Art Year course, beginning either Fall or Spring (2-2). 15A-15B, painting.

^{*} These courses may be taken in extension classes offered by the college, at the Fine Arts Gallery, Balboa Park. Instructor: Mr. Jackson.

Crafts

61A. Elementary Crafts.

Practical problems in elementary craft work, book binding, basketry, weaving, puppetry (including the dramatization and production of a puppet play), and demonstration of such processes as paper making, papier-mache, paper decoration through batik, and the like. Prerequisite: Art 6A when possible.

Fall and Spring (2).

61B. Elementary Crafts.

BOREN

Aimed to develop creative expression; to gain a certain ability to use simple tools, and some knowledge of suitable materials for elementary schools. The work covers toys in wood, tin, and the like; elementary clay modeling and pottery; demonstrations of cement mixing and of soldering and the adaptation of these processes to student-conducted activities. Prerequisite: Art 6A.

Fall and Spring (2).

62. Elementary Manual Training,

BOREN

Benchwork with hand tools suitable for children in the elementary school. This includes making of model airplanes, gliders, boats, simple furniture, and the like, stressing the freer type of manual arts. Prerequisites: Art 6A, 61B.

Fall and Spring (2).

UPPER DIVISION COURSES.

Art Appreciation and History

150. Appreciation and History.

JACKSON

The period from the Renaissance through the Modern School, treated in the same manner as in Art 50. Spring (3).

Design

112A-112B. Composition.

JACKSON

Imaginative composition of natural forms in black and white and color. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B. Year course (3-3).

112C. Illustration.

JACKSON

Composition fulfilling the requirements of book illustration from poetry, imaginative tales, and legends, in black and white and color. Prerequisite: Art 112A.

Spring (3). (Offered in odd-numbered years.)

152A. Stage Design.

See Art 52.

152B. Stage Costume.

BORSUM

Costume studied in relation to drama. Original designs for mood and character. Practical problems in designing and decorating costumes and accessories for college production. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A. Spring (3). (Offered in even-numbered years.)

152C. Stagecraft.

Stage terminology and technique. Scene building and decoration. Materials and their treatment for stage effects. Experience in setting and lighting college productions. Prerequisite: Art 52A or 152A. Spring (3).

195. Home Decoration.

House planning and landscaping. Interior decoration. Study of period styles and modern decoration. Illustrated lectures and original problems. Prerequisites: Art A, 6A.

Spring (3).

Drawing and Painting

115A-115B. Life Drawing and Painting.*

JACKSON

Drawing and painting from nude and costume models. Year course, beginning either Fall or Spring (2-2).

115C-115D. Advanced Life.*

JACKSON

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisites: Art 115A-115B. Year course, beginning either Fall or Spring (2-2).

116A-116B. Advanced Painting.

JACKSON

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B. Year course, beginning either Fall or Spring (2-2).

ASTRONOMY

Lower division preparation in astronomy for advanced work and for the junior certificate: Astronomy 1, Plane Trigonometry, Mathematics 3A-3B, 4A-4B, Physics 2A-2B and 3A-3B, or 1A-1B and 1C-1D; a reading knowledge of French or German.

1. Descriptive Astronomy.

SKILLING

A cultural course planned to give as comprehensive a view as possible of the solar system and the stars. Only calculations of an elementary nature. Especial attention to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope used for observation. Demonstrations given with a large spectrometer; also a good selection of lantern slides used to illustrate various topics. Prerequisite: Elementary Algebra and Plane Geometry.

Fall and Spring (3).

5. Historic Development of Astronomy.

SKILLING

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1.

^{*} These courses may be taken in extension classes offered by the college, at the Fine Arts Gallery, Balboa Park. Instructor: Mr. Jackson.

11. Modern Astronomy. Skilling

Stars and nebulae. Modern methods and instruments used in the observatory. Theory of matter as it applies to such studies. Prerequisites: Astronomy 1 and a knowledge of Physics.

BIOLOGICAL SCIENCES

(Biology, Botany, Zoology)

General students who wish to take only one or two courses in this department should register for Biology 10A-10B, 114A or 114B; (see below for prerequisites for each course).

Lower division preparation in botany for advanced work and for the

junior certificate: Botany 2A, 2B, 4, 5, and Chemistry 1A.

Lower division preparation for the presecondary major in zoology and for the junior certificate: Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B. French, German. Botany 2A, 2B, 4, and 5.

Presecondary major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in

botany, organic chemistry, physics, and physiology.

Students preparing to teach science in the junior high school should try to include in their courses work in zoology, botany, physics, chemistry (at least high school chemistry, and Education 120). The following are also desirable: geography, geology, anthropology, astronomy, and upper division biological sciences. See page 32.

Fees: A fee is required in all laboratory courses in this department. (See page 23 for list of fees.) The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an

extra charge must be made.

BIOLOGY

LOWER DIVISION COURSES

10A-10B. General

M. E. JOHNSON The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology Designed not only to give the general student an acquaintance with living this ing things and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany, but not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken Zoology 1A, or Botany 2A. dents who have taken 10A-10B may elect Zoology 1A, or Botany 2A for credit

Year course (3-3).

BOTANY

LOWER DIVISION COURSES

2A. General.

HARVEY

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and two three-hour laboratory periods per week. Fall (4).

2B. General.

HARVEY

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4).

4. California Plants.

HARVEY

Classification and ecology of representative orders of flowering plants of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week.

Spring (2). (Offered in even-numbered years.)

5. Trees and Chaparral.

HARVEY

Practice in the determination of the important species of the San Diego region. One lecture and three hours laboratory per week, with several Saturday field trips.

Spring (2). (Offered in odd-numbered years.)

7. Plant Physiology.

The functions of plants including metabolism, absorption, conduction, transpiration, respiration, growth and movement. One lecture and one three-hour laboratory period per week. Prerequisite: Biology 10A-10B or Botany 2A.

Fall (2). (Offered in even-numbered years.)

UPPER DIVISION COURSES

102. Plant Geography.

HARVEY

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2). (Offered in odd-numbered years.)

104. Taxonomy.

HARVEY

Identification, classification, and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisite: Botany 2A-2B, 4.

Spring (3). (Offered in even-numbered years.)

106. Marine Plant Biology.

HARVEY

Marine algae of the San Diego region, including a study of structure. development, identification, and distribution. Collecting trips to the various beaches. One hour lecture and six hours laboratory per week. Prerequisite: A laboratory course in general biology or botany.

Spring (2 or 3). (Offered in odd-numbered years.)

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT (M. E. Johnson in charge)

Reading or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of lower division work in the department with a grade of A or B.

Fall and Spring (1 or 2).

ZOOLOGY

LOWER DIVISION COURSES

1A. General.

HARWOOD

An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material. Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two threehour laboratory periods per week.

Fall (4).

1B. General.

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A. Spring (4).

UPPER DIVISION COURSES

100. Embryology.

M. E. JOHNSON

The development of vertebrates as illustrated by the frog, chick and pig. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biology 10B.

Spring and Fall (4). (Offered in odd-numbered years.)

106. Comparative Anatomy of the Vertebrates.

Dissection, study, and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.

Fall (4). (Offered in odd-numbered years.)

112. Marine Zoology.

M. E. JOHNSON

Designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of the organisms. Frequent collecting trips to the beach and study of the living animals in the laboratory. Prerequisite: A laboratory course in elementary Biology or Zoology.

Fall (3).

114A. Genetics.

General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention

given to the Mendelian interpretations of the facts of inheritance. Two lectures per week. Fall (2).

114B. Evolution.

The development of theories of evolution. Two lectures per week. Spring (2).

121. Entomology.

HARWOOD

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4). (Offered in odd-numbered years.)

113A. Taxonomy and Natural History of the Vertebrates. HARWOOD

Frequent field trips and the identification of preserved material. One hour of lecture and six hours of laboratory per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (3). (Offered in even-numbered years.)

113B. Ornithology.

CROUCH

The study and identification of birds, especially those of the Pacific coast and the San Diego region. Six hours per week of lectures, laboratory, or field excursions. Prerequisite: Zoology 1B, or Biology 10B.

Spring (3). (Offered in odd-numbered years.)

113C. Field Study of Birds.

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week. Prerequisite: Zoology 1B or Biology 10B.

Spring (1).

199. Special Study.

INSTRUCTORS OF THE DEPARTMENT (M. E. Johnson in charge)

Reading or work other than is outlined in the above courses. Admission only by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of work in the department with a grade of A or B.

Fall and Spring (1 or 2).

CHEMISTRY

Lower division preparation for the presecondary major in chemistry and for the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 6A-6B or 7-8, Physics 2A-2B and 3A-3B or their equivalent, Mathematics 7A-7B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in Chemistry or to transfer to another college, and there work for a degree with a major in Chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Presecondary major (upper division): A minimum of twenty upper division units in Chemistry including Chemistry 101-102. The choice

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of a related minor and the organization of the course of the major student must follow a definite plan approved by the department.

LOWER DIVISION COURSES

1A-1B. General Chemistry.

MESSNER, ROBINSON

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5).

2A. Descriptive Chemistry.

A one-semester lecture course designed for students who do not expect to do further work in chemistry but who desire an appreciation and understanding of the subject. The fundamental laws of chemistry, the constitution of matter, radioactivity, and a brief discussion of the field of organic chemistry, besides the customary description of the properties and uses of the more common chemical substances.

Fall and Spring (3).

6A-6B. Introductory Quantitative Analysis.

MESSNER

Determinations by gravimetric, volumetric, and electro-analysis, particular attention being given to the cultivation of laboratory technique. One hour quiz and lecture, and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

7-8. Organic Chemistry.

ROBINSON

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

UPPER DIVISION COURSES

101-102. Advanced Inorganic Chemistry.

MESSNER

The laws and theories of elementary work from the viewpoint of physical chemistry. Laboratory work covering such topics as gas lawmol weights, laws of combination, ionization, equilibrium relationships, and electrochemistry. Two lectures, two laboratory periods per week. Prerequisites: Chemistry 1A-1B, 6A-6B, and Mathematics 7A-7B or

Year course (4-4).

106A-106B. Quantitative Analysis.

MESSNER

An upper division course covering the same field as Chemistry 6A-6B but including some more advanced work. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

107-108. Organic Chemistry.

An upper division course covering the same field as Chemistry 7-8 but including some more advanced work. Two lectures and one laboratory period per week first semester; two lectures and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B. Year course (3-4).

110. Industrial Chemistry.

An introductory lecture course designed to acquaint the student with types of apparatus and unit processes of importance in the industry. A few typical industrial processes discussed in detail. Prerequisites: Chemistry 1A-1B and credit or registration in Chemistry 6A-6B and 7-8. Spring (3).

112. Industrial Analysis.

ROBINSON

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 6A-6B. Spring (2).

114. Biochemistry.

MESSNER

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism. as well as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Chemistry 1A-1B and 7-8. Spring (3).

123-124. Organic Preparations.

ROBINSON

A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.

Year course, beginning either Fall or Spring (2 to 5-2 to 5).

125. History of Chemistry.

ROBINSON

Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 101-102.

Fall and Spring (2).

199. Special Topics.

INSTRUCTORS OF THE DEPARTMENT

Supervised individual work in specialized branches of chemistry such as coloid chemistry, biochemistry, applications of the phase rule, etc. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Open only to upper division students who have shown their ability to do A or B work in chemistry.

Fall and Spring (1-3).

ECONOMICS

Lower division preparation for the presecondary major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-SB; Psychology 1A, 4A; Geography 1 and 2. Recommended: Social Economics 50; Economics 14A-14B, 18A-18B.

Presecondary major (upper division) in economics, required: Economics 100, 140 and 199, with 7 units selected from the following: Economics 121, 123, 127, 131, 133, 134, 135, 171, and 194. Electives: Three upper division units in general and applied economics; 6 additional upper division units in any combination of general and applied economics, and economic geography.

Lower division preparation for the presecondary major in commerce and for the junior certificate: Economics 1A-1B, 11, 14A-14B (6 units); English 1A-1B; Geography 1-2; Mathematics * 1 and 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Presecondary major (upper division) in commerce, required: Economics 18A-18B (it is recommended that this be taken in the lower division if possible), 121, 140, and 18 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 162, and 6 units in electives.

B. Banking and Finance: Economics 131, 133, 134, 135, and 6 units

C. Marketing and Merchandising: Economics 123, 125, 171, and 9 units in electives.

Geography 141 may be used in the electives under A. B. C.

LOWER DIVISION COURSES

1A-1B. Principles of Economics.

CAMERON

The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monolopy, and large scale production; property; economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement.

Year course (3-3).

11. Economic History of the United States.

WRIGHT

A comprehensive survey of American economic development and of national legislation in the field of industry. Fall (3).

14A-14B. Accounting.

WRIGHT

A knowledge of bookkeeping not required and not advantageous. The balance sheet; profit and loss statement; various types of books of original entry; the opening, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and con-

solidations; branch stores accounting, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3 or 4-3 or 4).

18A-18B. Commercial Law.

STANTON

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence.

Year course (3-3).

UPPER DIVISION COURSES

100. Modern Economic Thought.

A. G. PETERSON

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3).

121. Business Administration.

A. G. PETERSON

Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B.

Fall (3).

123. Marketing.

CAMERON

Our distributive organization and its functions, including the marketing of both agricultural and manufactured products. Prerequisite: Economics 1A-1B.

Spring (3).

125A. Advertising.

SHORE

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Fall (2). (Not offered in 1933-1934.)

125B. Salesmanship.

MITCHELL

Salesmanship, the market basket of knowledge; the mechanics of the mind; overcoming fear; the human element in selling; meeting competition; analyzing a sale in advance and methods of using this analysis in consummating a sale; personal attributes; selling an invisible commodity; selling a specialty; retail selling; the steps of a sale. Actual merchandise will be used in demonstration. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Spring (2). (Not offered in 1933-1934.)

^{*} For the equivalent of Mathematics 1, see the prerequisite to Mathematics 2.

127. Urban Land Economics.

CAMERON

The development of urban economy, location and structure of cities, urban land utilization, city planning and zoning, taxation, housing, urban land credit and land valuation, with special emphasis upon local conditions. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1933-1934.)

131. Public Finance.

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1933-1934.)

133. Corporation Finance.

CAMERON

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financing of reorganizations. Prerequisite: Economics 1A-1B. Fall (3).

134. Investments.

CAMERON

Investment analysis and the investment of personal savings. Spring (3).

135. Money and Banking.

The elements of monetary theory. History and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B. Fall (3).

140. Statistical Methods.

BROOM

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, and measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Mathematics B and C, or equivalents, or Mathematics I. Only two units of credit are available for this course in the case of students who previously have completed Spring (3).

151. Personnel Administration.

Principles of scientific management, labor turnover, selection and placement of personnel, discipline and discharge, methods of wage payment, health and safety, labor participation in management. Prerequisite:

Spring (3). (Not offered in 1933-1934.)

160A-160B. Advanced Accounting.

An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3). (Not offered in 1933-1934.)

161. Cost Accounting.

WRIGHT

Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.

Spring (3).

162. Accounting Systems.

WRIGHT

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.

Spring (3). (Not offered in 1933-1934.)

163. Machine Accounting.

WRIGHT

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to good accounting practice and yet meet the practical accounting requirements that are found in many classes at business. In addition to a thorough study of machine installations therefore requires considerable practice in the operation of standard accounting machinery.

Prerequisite: Economics 14A-14B.

Fall (3).

CAMERON

The development of railway transportation; railroad financing; rates and rate making; government operation of rail-

and rate making; government regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems. Prerequisite: Economics 1A-1B.

Spring (3). (Not offered in 1933-1934.)

194. International Economic Relations.

A. G. PETERSON

A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world economy touching upon a number of special problems involved and supplemented by an introductory study of materials constitutional traderials covering the processes, principles, and policies of international trade.

The course concerns itself primarily with the economic basis of international relations, but political aspects are almost constantly taken into account in recognition of the fact that international relations are frequently political in form but economic in content.

Spring (3).

THE STAFF

199. Special Study.

Designed exclusively for seniors with a major in economics or commerce.

Spring (2).

Economic Geography

(See Geography)

Social Economics

LOWER DIVISION COURSES

10. Introduction to Social Science.

A. G. PETERSON

An introduction to college objectives and college problems followed by a study of man's descent, race, social organizations, ideals of conduct, and civilization. Modern problems. Required of all freshmen who are candidates for a degree in teacher training.

Fall and Spring (3).

50. General Sociology.

KELLY

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change. Previous preparation in biology and psychology recommended.

Fall and Spring (3).

Social Psychology

(See Psychology)

Secretarial Training

A. Business Mathematics.

WRIGHT

A practical course in the mathematics of business. Development of the ability to add, subtract, and divide rapidly and accurately. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1).

1A-1B. Typewriting.

AMSDEN

A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of type written material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Ordinarily no credit given for this course except in the curricula in accountancy and secretarial training. Ten hours lecture and laboratory practice.

Year course (3-3).

2A. Typewriting.

A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours labora-

Spring (2).

3A. Office Methods and Appliances.

Practice and principles of office management, including organization, arrangement, and operation. Study and use of modern office appliances, such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Trips made to local establishments to study at first hand actual business conditions. Prerequisite: Secretarial Training 1A or its equivalent.

Spring (3).

5A-5B. Stenography.

An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year. Ordinarily no credit given for this course except in the curricula in accountancy and secretarial training.

Year course (5-5).

6A. Advanced Stenography.

AMSDEN

Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary material. Fall (3).

EDUCATION

LOWER DIVISION COURSES

1. Education-Introductory Principles.

BACON, DEPUTY

An orientation course in professional education. A preliminary survey covering briefly the historical and philosophical background of the modern public school and culminating in a consideration of modern educational practice, with special reference to public and quasi public organizations which more or less directly participate in the program of education.

Fall and Spring (3).

17. Music in the Elementary School.

L. D. SMITH

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Proceedings: cedure in presenting rote songs, ear training, elementary notation, sight singing, and part singing. Conducting. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2).

Discussion of the elements and principles of art and their place in the 19. Art in the Elementary School. art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with examples of children's work and opposition of the experience with mediums used in elementary school problems. Prerequisite: Art 6A.

Fall and Spring (2).

UPPER DIVISION COURSES

AULT

106. Philosophy of Education.

The fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with a view to the formulation of a working philosophy for the educative process.

Designed as a culmination of the studies of education and its procedures. Open only to students with senior standing. Spring (3).

107. History of Education.

AULT

A brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education S107, History of Education in the United States (offered in the summer session)

Fall (3).

108. Educational Measurements.

BROOM

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects. Open only to students who have passed the Fundamentals Test. Fall and Spring (3).

109. Educational Administration and Supervision. BROOM, HARDY

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125B, 108 or equivalents. Spring (2).

110. Educational Organization and Supervision.

BROOM

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125B, 108 or equivalents.

111. English in the Junior High School.

F. L. SMITH

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

112. Mathematics in the Junior High School.

The subject matter, management of it, and methods of teaching it in a junior high school curriculum in general mathematics. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graphic representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisites: Psychology 1A and a passing grade in the Fundamentals (2)

114. Social Science in the Junior High School.

NIDA

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, through the medium of such social studies in the junior high school curriculum as history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educative purposes on this level. Prerequisites: Four units of geography and six units of history.

Fall (2).

116. Practice Teaching.

AULT AND SUPERVISORS

Systematic observation, participation, and actual teaching under competent supervision in the Training School and in the city schools of San Diego. The general plan for a student who has not had teaching experience is to take one period of practice teaching daily for a semester and two periods daily for another. In some cases the second assignment is for a half day. Only in case of an extreme emergency will a student who has not had experience in teaching be permitted to satisfy all practice teaching requirements in a single semester. It is planned to distribute the practice teaching assignments so that the student will have some experience in both upper and lower grades, with the emphasis on the grade or grades in which the student is particularly interested. Deviation from this plan is very liable to result in unsatisfactory training and is tolerated only when unavoidable.

One period of teaching daily for a semester is usually credited with two or three units and two periods with four to six units, depending upon the character of the assignment and the work. When more time is

needed the student is assigned to additional practice. Practice teaching requirements may be reduced for those who present evidence of successful public school experience. The maximum amount of credit allowed for this course is twelve units. Practice teaching credit is usually reduced to four units by the universities. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal amount of acceptable units in other sub-

Jects. No grade below a C is acceptable for credit in this course. Prerequisites: Passing grade in Fundamentals Test and completion of 75 units of college work; C average in all college work and in work of the press is the preceding semester; three units of credit in Psychology and six units of credit in Education. No credit will be given for this course unless registration is made in the office of the Dean of Education.

119. Art in the Junior High School.

Art curriculum planning for junior high schools and studio problems and discussion. Prerequisite: Education 19.

120A. Biological Sciences in the Junior High School. M. E. Johnson The content, methods, field work, textbooks, laboratory work, equipment, and reference reading for junior high school biological sciences.

Proposition of the proposition of t Prerequisite: Eighteen units of college science including Biology 10A-10B or Zoology 1A-1B and Botany 2A-2B.

Fall (2).

120B. Physical Sciences in the Junior High School.

SKILLING

The content, methods, field work, textbooks, laboratory work, equipment, and reference reading for junior high school physical sciences. Prerequisite: Eighteen units of college science including Physics 2A-2B or equivalent and high school or college chemistry. Spring (2).

121. Principles of Secondary Education.

NIDA

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future development. Particular attention to the method of directing learning in the secondary schools. Prerequisites: Psychology 1A and Education 1, or equivalents. Open only to students with senior standing. Fall and Spring (3).

124. Romance Languages in the Junior High School.

PHILLIPS A consideration of the main questions of pronunciation, grammar, composition, reading, texts, etc., as applied to teaching elementary classes in French and Spanish; the different methods; their history and value. Prerequisite: Two years of college French or Spanish.

125A. Curricular Activities-Lower Levels.

HAMMACK

Units of work: characteristics of children in the primary grades; organization of the activity program, activities and materials based on children's interests and need through the local environment; teaching and learning procedures for acquiring basic abilities, reading, language, writing, use of numbers; observation and participation in actual classroom situations. No credit for those who have had Education 128.

Candidates for the Elementary Credential are required to take both Education 125A and 125B, preferably in the order listed. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

125B. Curricular Activities-Upper Levels.

Units of work; characteristics of children in middle and upper grades; organization of the program in terms of children's interests and capacities techniques of ties; techniques of developing abilities in reading, use of numbers and language expression; investigations of methods and materials of the basic studies; observation of typical teaching procedures. No credit for those who have had Education 104. See note under Education 125A concerning these two courses. Prerequisites: Psychology 1A and a passing grade is the European Presequisites: Fall and Spring (3).

126. Children's Literature.

The principles of selection underlying the choice of literature for the elementary school, with special emphasis on the social and educational status of the child. Source material and its classification. A critical examination and avaluation and avaluati examination and evaluation of new literary materials for children's use

and a discussion of the best illustrators of books for children. Practice in developing technique in story telling through practical work in Story

Fall and Spring (2).

127. Music in the Secondary School.

L. D. SMITH

Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation. Prerequisite: Education 17. Fall (2).

129. Mathematics in the Elementary School.

RICHARDS

A discussion of the applications of psychology and experimental education to the teaching of arithmetic and elementary general mathematics, together with study and observation of the newer methods as used under ordinary classroom conditions. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test. Fall and Spring (2).

130. Educational Psychology.

BROOM

Man's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A. Spring (3).

137. Comparative Education.

AULT

School systems of England, France, Germany, and Denmark; traits of Deoples; Origin and development of school systems; literacy of populations; traditional influences; characteristic types of schools and educational properties of teachers. tional procedures; governmental and private support; training of teachers.

An upper division course open only to students who have had Education 1. A knowledge of History of Education desirable but not required. Fall (3).

140. Elementary Educational Statistics.

BROOM

An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to computation. Data for statistical research taken from typical school situation. situations. Only 2 units allowed students who have taken Economics 140. Fall (3).

145. Organization and Administration of Music Education.

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests;

creative work. Prerequisite: Education 17. Fall (2). (Offered in even-numbered years.) 160. Vocational Education.

WRIGHT

Aims and objectives of vocational education of less than college grade. Spring (3). (Not offered in 1933-1934.)

161. Junior Business Training.

WRIGHT

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2).

AMSDEN

163. Stenography.

Methods and content of courses in stenography. Prerequisite: Secretarial Training 5A.

Fall (2).

WRIGHT

164. Bookkeeping. Various types of bookkeeping method, with considerable study of content.

Fall (2).

AMSDEN

165. Typewriting. Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2).

170. Visual Aids in Education. Psychological principles underlying the use of visual aids in education; the sphere of the visual method; materials classified as visual aids; guiding principles in the selection of pictures and methods of using visual aids. Practical laboratory experience in the work of a supervisor in selecting, organizing, distributing, and evaluating visual aids and in demonstrations to teachers; the care and operation of projectors and photographic laboratory equipment.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the education department and with the instructor.

Fall and Spring (2).

199. Educational Problems.

EDUCATION STAFF (Dean of Education in Charge)

A course for senior students in teacher training who have shown ability to work independently on educational problems. Admission only by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3).

ENGLISH

Lower division preparation for the presecondary major in English and by the jurior could be a 121. for the junior certificate: English 1A-1B and nine units from 12A-12B, 56A-56B, 50A-56B, 50A-56A-56B, 52A-52B. Recommended: A reading knowledge of German or French.

Presecondary major (upper division)—Required: Forty-two units in English, of which six lower division units may be in journalism and speech arts and three upper division units may be in composition. At least eighteen units in upper division courses must be completed in the junior and senior years.

LOWER DIVISION COURSES

1A-1B. Composition.

Adams, Keeney, Pfaff, Rogers, F. L. Smith, F. D. Walker 1A. A course in writing directed to a mastery of technical correctness and a training in the organization of material. 1B. Practice in effective writing based on extensive reading of modern literature.

A classification test in Subject A must be taken before admission. Year course, beginning Fall and Spring (3-3).

4A-4B. Great Books.

A survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek Epic and Tragedy, Norse Eddas, and other literature of religious and communal character; and highly significant masterpieces in poetry and prose by great authors down to the nineteenth century.

10. Recreational Reading.

Development of personal tastes for leisure time reading through lectures and oral or written reports. May be taken a second time with new Fall and Spring (1).

12A-12B. Modern Prose: Nonfiction.

Semester I: Studies in scientific, social, and cultural thought in Engandered F. D. WALKER land and in America since 1850. Reading from selected books by such representative authors as Darwin, Huxley, Carlyle, Newman, Henry Adams, Mark Twain, Walter Lippmann. Discussions and reports. Semester II: A survey of the trends in recent biography based upon reading in in nineteenth and twentieth centuries. Lectures, discussions, and Year course (3-3).

52A-52B. Types of Literature.

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of typical poems. to the study of dramatic poetry; typical poems, Semester II; Included and short story; elements of poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

56A-56B. Survey of English Literature.

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age. Year course (3-3).

UPPER DIVISION COURSES

101. Modern Prose Fiction.

F. L. SMITH

Recent and contemporary fiction in novel and short story, beginning with Meredith and including the best British and American fiction of today.

Spring (3).

106A-106B. Advanced Composition.

F. L. SMITH

A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition.

Year course (3-3). (Either semester may be taken first.)

116, Elizabethan Literature.

ADAMS

An introduction to the principal writers from Wyatt and More to Jonson and Bacon. Approximately equal attention is given to the nondramatic poetry, the prose, and the drama of the period.

Spring (3). 117. Shakespeare.

OUTCALT

Extensive reading of Shakespeare's plays, with special attention to a select group of the comedies and another of the tragedies. Lectures and special reports.

Fall (3).

118. Makers of Eighteenth Century Literature.

KEENEY

Pope, Defoe, Swift, Johnson, Goldsmith, Fielding, and their contemporaries as interpreters and teachers of their age. Spring (3).

119. The Romantic Poets.

A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.

Fall (3).

Fall (3).

121. Poetry of the Victorian Period.

F. D. WALKER

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought. Spring (3).

130. Recent American Literature.

OUTCALT

A survey of American literature with its backgrounds from the Civil War to the present time. Extensive reading in recent poetry, fiction, etc. Lectures, discussion, and reports, Spring (3).

143. The Development of the English Novel. History of the English novel from the beginnings to Hardy. Extensive

reading of novels with reports. Lectures and discussion.

F. D. WALKER

C.D. Intermediate.

E. M. BROWN, L. P. BROWN

Reading and composition; study of standard prose as a basis for class ork; collision reports in French; work; collateral reading with resumés and written reports in French;

6-4157

151. Medieval Literature.

KEENEY

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer. Fall (3).

160. Milton and Dryden.

ADAMS

Studies in the poetry of the seventeenth century, relating it to the thought and the social life of the age. Spring (3).

JOURNALISM

(See page 90.)

SPEECH ARTS

(See page 107.)

FOREIGN LANGUAGES

Lower division preparation for advanced work in a foreign language and for the junior certificate: Sixteen units of credit in the language chosen for the major. Recommended: History 4A-4B, Geography 118. Lower division preparation for the presecondary group major in the

Romanic languages: French A-B, C-D, and Spanish A-B, C-D.

The group major requirements are based on the assumption that the student will have taken courses in the high school equivalent to the college course in elementary French or Spanish. A student who offers matriculation credit for only two years of the high school course in a Romanic language may take a placement test to determine his eligibility for the third semester of the college course.

Presecondary group major (upper division). Eighteen upper division units in one language or twelve units in one language and six units in the

other, taken in the junior and senior years.

French

LOWER DIVISION COURSES

A-B. Elementary.

E. M. BROWN, CRAMER, PHILLIPS Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary temporary prose writers; study of the principles of French prosody, with memory work. Credit not given for French A unless followed by French B. Stud B. Students who have had one year of French in high school should register for the students who have had one year of French in high school should register for the students. register for French A, but will receive only two units of credit. Those who have who have had two years of French in high school should register for French B, in which case they will receive four units of credit.

Year course (5-5).

study of French prosody, with selections for memorizing; dictation. Class work conducted mainly in French. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for four years of high school French, or its equivalent, should enter French D.

Year course (3-3).

SC. Scientific.

CRAMER

Readings taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports.

Fall (2).

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

E. M. BROWN

Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Not offered in 1933-1934.)

E. M. BROWN

105A-105B. Modern French Drama. Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3).

110A-110B. Modern French Novel.

E. M. BROWN

A study of the French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Bazin, Barres, Romain Rolland land, A Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D or its equivalent, with grade of C.

Year course (3-3). (Not offered in 1933-1934.)

German

LOWER DIVISION COURSES

A-B. Elementary.

CRAMER, H. K. WALKER

Pronunciation, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for German A, but will receive only two units of credit. Those who have had two years of German in high case of German in high school should register for German B, in which case they will receive four units of credit.

Year course (5-5).

C-D. Intermediate.

CRAMER

Reading and composition; study of standard prose as basis for class ork; collateral work; collateral reading with written reports; German conversation, with the toyer, with the texts read as a basis; dictation. Prerequisite: German B or three years high and as a basis; dictation. three years high school German, or its equivalent. Students with credit

for four years high school German, or its equivalent, should enter German D.

Year course (3-3).

SC-SD. Scientific.

CRAMER

Fall semester. Readings in scientific reader on chemistry, physics, etc.; occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German C with a grade of C or four years of high school German.

Year course (2-2).

Spanish

LOWER DIVISION COURSES

A-B. Elementary.

L. P. BROWN, PHILLIPS

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers; study of the principles of Spanish prosody, with memory work. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school should register for Spanish B, in which case they will receive four units of credit.

Year course, beginning either Fall or Spring (5-5).

C-D. Intermediate.

PHILLIPS

Reading and composition; study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; a study of Spanish prosody, with selections for memorizing; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3).

UPPER DIVISION COURSES

101A-101B. Conversation and Composition.

L. P. BROWN

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3). (Not offered in 1933-1934.)

L. P. BROWN

102A-102B. Introduction to Spanish Classics. Reading from several types of classical literature. Lazarillo de Tormes, and other novels of Roguery; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Not offered in 1933-1934.)

105A-105B. Modern Spanish Drama.

L. P. BROWN

The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3). (Not offered in 1933-1934.)

110A-110B. Novel and Short Story in Spain.

L. P. BROWN

The development of the novel and short story in Spain from 1830 to the present time: Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3).

General Language

LOWER DIVISION COURSE

A. Latin and Greek Word Derivation.

L. P. BROWN

A general and elementary course in philology. Latin and Greek roots of most frequent occurrence in English. Interrelations and development of meaning of the different words in English derived from the given roots. Not open to freshmen.

Spring (2).

GEOGRAPHY

Lower division preparation for the presecondary major in geography and for the junior certificate; Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Presecondary major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1. Introduction to Geography; Elements.

BROOKS, CLARK, SUHL The fundamental principles of geography, the distribution of life upon the earth, and the effects of environment upon the activities of man. Climate, land forms, bodies of water, natural resources, and location in their relation to human activities. Open to all students.

Fall and Spring (3).

2. Introduction; Natural Regions and the Distribution of Population and of Cultures.

CLARK, SUHL The application of the fundamental principles of geography to the various regions of the world. Comparison of regions with regard to diferent stages of development. Prerequisite: Geography 1. Fall and Spring (3).

3. Elementary Meteorology. An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Fall and Spring (3).

UPPER DIVISION COURSES

113. Climatology.

BLAKE

A survey of the different climates of the world and their effect upon vegetation and human activities. Special attention given to the climate of different parts of the United States. Prerequisite: Geography 3. Spring (3). (Not offered in 1933-1934.)

116. Geography of South America.

CLARK

The climate, topography, and natural resources of the South American countries; the effect of those physical factors upon the economic, commercial, and racial problems of the different nations. Prerequisite: Geography 1. Spring (3).

117. Geography of Northwestern Europe.

CLARK

The physical environment of each of the nations of the area and their reactions to physical environment in their political and social relations. Importance of the countries in manufactures. This course is planned so to familiarize the student with modern European countries that he can read current periodical literature with understanding and interest. Prerequisite: Geography 1. Fall (3).

118. Geography of the Mediterranean Area.

CLARK

A treatment of Southern Europe, Western Asia, and Northern Africa as a unit and a comparison of the land forms, climates, types of native vegetation, cultivated crops, industrial status, and present world position; also the effect of geographic factors on the history of the area. Prerequisite: Geography 1.

Spring (3).

121. Geography of North America.

SUHL

The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.

Fall (3).

SUHL

The cultural regions of Asia, their physical environment, and historical 124. Geography of Asia. development. Prerequisite: Geography 1.

Spring (3).

135A. Geography of the San Diego Area: Rural. Directed field work within the county designed to familiarize pros-Pective teachers with the local area or field work and mapping of a small area and its geographic interpretation. Prerequisite: Geography 1 and 2.

Spring (2).

135B. Geography of the San Diego Area: Urban. Directed field work within the city designed to aid in teaching this region or directed field work in the analysis of urban evolution. Prerequisite: Geography 1 and 2.

Fall (2).

141. Economic Geography.

SUHL

A world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisite: Geography 1 and 2. Fall (3).

GEOLOGY

LOWER DIVISION COURSES

1A. General.

BROOKS

Materials of the earth; their composition, distribution, and modification through processes both mechanical and chemical, operating upon and within the earth, with the production of varied surface conditions. Three lectures and one two-hour laboratory period weekly.

Fall and Spring (3).

1B. Historical.

BROOKS

Geological history of the earth from time of probable origin to the present as interpreted through lithologic and paleontologic sequence, with especial attention to North America as illustrative of earth chronology. Three lectures and one two-hour laboratory period weekly. Prerequisite: Geology 1A.

Spring (3).

UPPER DIVISION COURSES

100. Physical Geology.

BROOKS

The evolution and description of structural and topographic features of the earth. Lectures, discussions, and problems. Prerequisite: Geology 1A.

Fall (3).

101. Geologic Problems.

BROOKS

Directed reading from a prepared syllabus introducing the several phases of geologic literature: or geologic reconnaissance of adjacent areas with elementary mapping: or selection and preparation of materials for the departmental collections, Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4).

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HISTORY

Lower division preparation for the presecondary major in history and for the junior certificate: History 4A-4B, 5A-5B, or 8A-8B, and either Political Science 1A-1B, Economics 1A-1B, or Geography 1 and 2. No student shall enroll in more than one of the three history

courses at a time. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B or 5A-5B.

Presecondary major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. In addition, the student must, in his senior year, enroll in History 199, in connection with which he will write a paper, the subject matter to be arranged in consultation with the instructor.

LOWER DIVISION COURSES

4A-4B. History of Modern Europe.

LESLEY

Development of European society and institutions from about 1500 A.D. to the present time.

Year course (3-3).

5A-5B. History of England.

NASATIR

The more important political, constitutional, and cultural phases of English development. The purpose of this course is to convey a good working knowledge of English history and to provide a survey of the part the Anglo-Saxon race has played in world history.

Year course (3-3).

8A-8B. History of the Americas.

NASATIR

A general survey of the history of the western hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international contest for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3).

UPPER DIVISION COURSES

111A-111B. Ancient History.

LESLEY

Semester I: Social, economic, political, and cultural development of the Greek states with emphasis upon the growth of democracy, attempts at federal union, imperialism, and Hellenism. Semester II: Roman history from the earliest times to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social, and religious developments in the republic and the empire.

Year course (3-3).

121A-121B. Medieval History.

LESLEY

General survey of European politics and the cultural development of the Middle Ages; the antecedents of the Renaissance; development of medieval life and institutions, feudalism, the church, the universities, and intellectual tendencies. The rise of towns, of new nations, and of new thought, especially in the twelfth and thirteenth centuries. Period covered 500-1500 A.D.

Year course (3-3). (Not offered in 1933-1934.)

145A-145B. Europe Since 1789.

LESLEY

Revolutionary era; conflict of reaction and liberalism; development of nationalism, with special attention devoted to the unification of Germany and Italy; events leading up to the World War and contemporary problems of Europe resulting from that conflict.

Year course (3-3). (Not offered in 1933-1934.)

146A-146B. Diplomatic History of Europe.

LESLEY

European diplomatic and colonial policies since 1648, with detailed attention to the basic factors in international organization and procedure. During the second semester special emphasis upon the period 1870-1914.

156A-156B. History of British Expansion.

A study of the growth, development, and break-up of the older overseas empire; the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the self-governing dominions; the crown colony system; India under British rule; and British expansion in Africa

Year course (3-3). (Not offered in 1933-1934.)

161. South America Since Independence.

A study of the republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial rela tions with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and Spring (3).

163. Mexico and the Caribbean Countries.

Same plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent Fall (3).

171A-171B. The Rise of the American Nation.

Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to about 1820. The completion of both semesters of this course meets the requirement on the United States

Year course (3-3). (Not offered in 1933-1934.)

173A-173B. The Expansion of the United States.

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; LEONARD the growth and progress of the United States to the World War. The completion of both semesters of this course meets the requirement on the United States Constitution, for graduation.

181A-181B. History of the West.

NASATIR

History of European expansion in North America. Emphasis upon the territorial growth of the United States; the diplomacy and politics of expansion, settlement, and development of the West.

Year course (3-3). (Not offered in 1933-1934.)

199. Special Course for Advanced Students.

Required of all students with a history major in the presecondary curriculum and to be attended during the senior year. Other students interested in history may be admitted with the permission of the instructor. Spring (2).

HYGIENE

LOWER DIVISION COURSES

1. Personal and Civic (Men).

C. E. PETERSON

An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Investigations by each student of special topics which serve to vitalize the means for protecting and improving the health of the community. It is especially desirable that this course be taken in the first semester of the freshman year. Fall and Spring (2).

2. Personal and Civic (Women).

TANNER

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective home makers. The laws and procedures in local civic health matters of particular interest to women studied in detail. Reports following personal investigation of at least three major topics required of each member, these reports being given and discussed before the class. Required of all freshmen who are candidates for the junior certificate or the degree in the presecondary curricula.

Fall and Spring (2).

INDUSTRIAL ARTS

LOWER DIVISION COURSES

NICOL

3A. Mechanical Drawing.

Use and care of drafting instruments, lettering, orthographic projections, developments, intersections, tracings. Drafting room six hours per week in the first semester and three hours per week in the second.

Year course (2-1).

21. Descriptive Geometry.

WALLING

Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisite: Industrial Arts 3A, and sophomore standing.

Fall (3).

22. Machine Drawing.

WALLING

Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Industrial Arts 21.

Spring (3).

23. Materials of Construction. WALLING

Structural properties and adaptability of materials used in engineering. Lectures. Open to sophomores. Spring (2).

25. Elements of Electrical Engineering.

WALLING

Mathematical and descriptive consideration of electrical circuits together with a general survey of the electrical industry. Lectures. Prerequisite: Mathematics 4A or 14A. Spring (3).

28. Elements of Heat Power Engineering.

WALLING

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisite: Mathematics 3B, Physics 1B. Primarily for engineering students other than mechanical or electrical.

Fall (3).

29. Elements of Radio Communication.

WALLING

Theory and characteristics of fundamental radio circuits. Theory and characteristics of the vacuum tube as detector, amplifier, and generator of alternating current power. Lectures. Prerequisites: Physics 1C, Mathematics 4A or 14A or enrollment in those courses. Fall (3).

Note. Both Industrial Arts 28 and 29 will not be given the same year. The course with the greater demand will be the one given.

JOURNALISM

Lower division preparation in journalism for advanced work and the junior certificate: History 4A-4B, 5A-5B, or 8A-8B; Psychology 1A-4A; English 1A-1B; Secretarial Training 2A; Political Science 1A-1B or Economics 1A-1B; Journalism 51A-51B. Recommended: English 10, or 12A-12B; Speech Arts 1A-1B; Social Economics 50; Economics 18A-18B; Journalism 53A-53B.

For the profession of journalism introductory work in the fields of literature, history, political science, social science, economics, the arts, etc.,

The aim in the specialized courses in journalism is to offer introductory training in the principles and practices of journalistic writing only after a good foundation in correct speaking and writing English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized,

LOWER DIVISION COURSES

F. L. SMITH Journalism 51A-51B. News Gathering and Reporting.

Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1A-1B, with high school Journalism or equivalents.

Year course (3-3).

Journalism 53A-53B. Applied Journalism.

F. L. SMITH

Credit earned for editorial or other staff work throughout a full semester on student publications such as The Aztec, El Palenque, Del Sudoeste. Fall and Spring (1 to 3-1 to 3).

UPPER DIVISION COURSES

Journalism 100. News and Manuscript Editing.

F. L. SMITH

Practice in copy reading, proof reading, headline writing, and newspaper makeup. Study of editorial pages. Prerequisite: Journalism 51A-51B or equivalent in composition.

Spring (3).

Journalism 153A-153B. Advanced Journalism Practice. F. L. SMITH Upper division work of the same type as that in 53A-53B, but with

advanced requirements. Fall and Spring (1 to 3-1 to 3).

Note.-Not more than six units in all will be given for journalism practice on student publications.

MATHEMATICS

Lower division preparation for the presecondary major in mathematics and for the junior certificate: Mathematics 3A-3B, 4A-4B. With permission of the department, 7A-7B may replace 3A-3B, and 14A may replace 4A-4B. Recommended: Physics, Surveying, Descriptive Geometry, Astronomy and a reading knowledge of French and German.

Presecondary major (upper division): Twenty-four units of upper division work in mathematics, or 18 units in mathematics and six units in closely related subjects, arranged in consultation with the chairman of the department. Mathematics 111, 112, and 119 should be included in every major, except that students who have taken 14B need not take 119. Related courses offered by other departments include Statistical Methods (Economics 140), Mathematics in the Elementary School and in the Junior High School (Education 129 and 112), and certain upper division courses in chemistry and physics.

LOWER DIVISION COURSES

GLEASON

A rapid review of the first year of high school algebra, followed by B. Intermediate Algebra. quadratics, proportions, progressions. Perrequisite: One and one-half years of high school algebra.

Fall (2).

C. Plane Trigonometry.

GLEASON

Right and oblique triangles; logarithms; identities and equations. Prérequisites: Plane geometry and one and one-half years of high school algebra.

Spring (2).

1. Elementary Functions.

LIVINGSTON

Algebra, numerical trigonometry, functions and graphs, introduction to calculus, with emphasis on applications. Prerequisites: Plane geometry and one and one-half years of high school algebra. Fall (3).

2. Mathematics of Investment.

WRIGHT

Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Mathematics 1 or B and C or trigonometry and two years of algebra in high school, or equivalent. Spring (3).

3A-3B. Analytic Geometry and Calculus.

GLEASON, WALLING

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry, plane and solid geometry, and two years of algebra in high school. Year course (3-3).

4A-4B. Intermediate Calculus.

LIVINGSTON

Integration, partial differentiation, infinite series and introduction to differential equations. Prerequisite: Mathematics 3A-3B, or a high grade in 7A-7B.

Year course (3-3).

7A-7B. Introduction to Analysis.

LIVINGSTON

Trigonometry, analytic geometry, differential calculus, introduction to integral calculus. Prerequisites: Plane geometry and two years of high school algebra.

Year course (4-4).

8. College Algebra.

LIVINGSTON

Rapid review of elementary algebra, followed by logarithms, progressions and series, permutations and combinations, probability, theory of equations. Prerequisites: Plane geometry, trigonometry, and two years of high school algebra or equivalent. Spring (3).

10A-10B. Appreciation and History of Mathematics.

THE STAFF

Recreational reading in the history and philosophy of mathematics. Open to those who are taking some other course in college mathematics. Year course $(\frac{1}{2}-\frac{1}{2})$.

14A-14B. Intermediate and Advanced Calculus.

GLEASON

Integration, partial differentiation, infinite series, differential equations and introduction to vector analysis. Prerequisites: Mathematics 3A-3B, or a high grade in 7A-7B. Year course (5-5).

UPPER DIVISION COURSES

101. Elementary Geometry for Advanced Students. LIVINGSTON Selected topics viewed from the standpoint of higher mathematics. Prerequisites: Introductory courses in analytic geometry, and calculus. Fall (3).

LIVINGSTON 102. Elementary Algebra for Advanced Students. Selected topics viewed from the standpoint of higher mathematics. Prerequisites: Introductory courses in analytic geometry and calculus. Spring (3).

104. History of Mathematics.

GLEASON

A nontechnical course open to students who have some knowledge of the fundamental ideas of mathematics. Fall (3).

105. Modern Geometry.

GLEASON

The geometry of the circle and the triangle. Prerequisite: Mathematics 3A-3B or 7A-7B.

Fall (3). (Not offered in 1933-1934.)

106. Projective Geometry.

GLEASON

The construction and study of conic sections by means of perspectives, poles and polars, and involutions. Prerequisite: Mathematics 105, or permission of the instructor.

Spring (3). (Not offered in 1933-1934.)

111. Theory of Equations.

LIVINGSTON

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisite: Mathematics 3A-3B or 7A-7B. Fall (3). (Not offered in 1933-1934.)

112. Analytic Geometry of Space.

LIVINGSTON

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 4A

Spring (3). (Not offered in 1933-1934.)

119. Differential Equations.

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or 14A. Spring (3).

MUSIC

For course in preparation for Public School Music teaching, refer to

curriculum in Music Education, page 41.

Lower division preparation for the presecondary major in music and for the Junior certificate: Music 1A-1B, 2A-2B, 4A-4B, and two units of electives in music. The electives in both lower and upper division must include at least six units in Applied Music (study of voice, or an instrument), of which at least three units must be in piano. Upper division credit will not be given for beginning work in Applied Music. (For restrictions on applied courses, see page 50.)

Presecondary major (upper division): Music 103A-103B, 105A-105B, 106A-106B, 107A, 107B, 108, and 10 units of upper division elective courses in music. (See statement concerning Applied Music under lower division requirements.)

For information regarding majors and minors in music, and other details not found here, consult the Music Education Adviser.

LOWER DIVISION COURSES

1A. Music Reading and Ear Training-Fundamentals of Music.

BEIDLEMAN, L. D. SMITH, SPRINGSTON

Elementary music theory; scale construction; drill in music reading both with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text-Gehrkens: Fundamentals of Music. Students majoring in music may be exempted from this course by examination.

Fall and Spring (2).

1B. Music Reading and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, sight singing with Latin syllables and with words. Text-Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent. Spring (2).

1C-1D. Advanced Music Reading and Ear Training. L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing, and sight singing in two and three parts. Text-Wedge: Advanced Ear Training and Sight Singing. Prerequisite: Music 1A-1B.

Year course (2-2).

1E. Advanced Music Reading and Ear Training. L. D. SMITH

Advanced tonal and rhythmic dictation, rhythmic writing, and sight singing in two, three, and four parts. Prerequisite: Music 1C-1D. Fall (2). (Offered in even-numbered years.)

2A-2B. Appreciation and History of Music.

SPRINGSTON

How and of what music is made. How to listen to, enjoy, and appreciate it. The development of music from the earliest times, with a particular effort to gain some acquaintance with the music of the various periods and composers by listening to examples of it. Illustrated with numerous phonograph records. A general fundamental, and nontechnical course, requiring no previous musical training or background. Year course (2-2).

4A-4B. Elementary Harmony.

SPRINGSTON

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the keyboard application of problems in harmonization, transposition, and modulation. Prerequisite: Music 1A, or the equivalent, and at least one year

Year course (3-3).

19. Instrumental Ensemble.

BEIDLEMAN

The practice and performance of music for small groups of string, wind, and brass instruments.

Fall and Spring $(\frac{1}{2})$.

20. Vocal Ensemble and Chorus.

L. D. SMITH

A general course open to all students but one which may be offered by music students toward satisfying the requirement in vocal ensemble. Mixed harmony in two, three, and four parts; voice quality, phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior high school.

Fall and Spring $(\frac{1}{2})$.

UPPER DIVISION COURSES

103A-103B. Appreciation and History of Music-Great Music.

SPRINGSTON

Study of the great masterpieces of music in the larger forms, by means of phonograph records and scores. Prerequisite: Music 2A-2B, or 4A-4B, or equivalent.

Year course (1-1).

105A-105B. Advanced Harmony.

BEIDLEMAN

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody writing. Prerequisite: Music 4A-4B.

Year course (2-2).

106A-106B. Applied Harmony.

BEIDLEMAN

Introduction Form and analysis. Polyphonic treatment of harmony. to musical composition. Prerequisite: Music 105A-105B.

Year course (2-2).

107A. Conducting.

REIDLEMAN

The technique of the baton. Methods and materials for use in directing choral organizations. Prerequisite: Music 1A-1B, or 4A-4B. Fall (1).

107B. Conducting (Instrumental).

Theory and practice of instrumental conducting, with study of materials and methods. Taught in conjunction with, and requiring participation in, Instrumental Ensemble (Music 119). Prerequisite: Music 107A.

Fall and Spring (1).

BEIDLEMAN

108. Instrumentation.

Theory and practice of arranging music for instrumental combinations.

Prerequisite: Music 4A-4B.

Spring (2).

110A-110B. Piano Class Principles.

Materials and methods used in piano classes in the elementary schools.

Prerequisite: At least two years of piano study.

Year course (1-1), beginning either semester.

119. Instrumental Ensemble.

BEIDLEMAN

(See Music 19.)

120. Vocal Ensemble and Chorus.

L. D. SMITH

(See Music 20.)

MUSICAL ORGANIZATIONS

11 or 111. Treble Clef (Women's) Glee Club.

L. D. SMITH

Membership based on competitive try-outs. (1-1.)

12 or 112. Men's Glee Club.

BEIDLEMAN

Membership based on competitive try-outs. (1-1.)

13 or 113. Orchestra.

BEIDLEMAN

(1-1.)

Applied Music

(Credit for applied music is available only for students majoring in music, and is subject to special permission and arrangement.)

15 or 115. Stringed Instruments.

16 or 116. Wind Instruments.

17 or 117. Voice.

18 or 118. Piano (Organ).

PHILOSOPHY

LOWER DIVISION COURSES

5A. Introduction to Philosophy.

STEINMETZ

Elementary orientation; the persistent problems of philosophy, especially in epistemology, metaphysics, and ethics; the Republic of Plato, and social systems. Prerequisite: Sophomore standing or consent of instructor.

Fall (3).

5B. The Philosophy of Science.

STEINMETZ

The problems of philosophy systematized according to related sciences; their achievements and perplexities; politico-economic movements; technology in modern civilization. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3).

UPPER DIVISION COURSES

105B. The Philosophy of Science. STEINMETZ

Same as Philosophy 5B, save that upper division students will be held to more exacting contribution. Spring (3).

120. Logic, and Philosophy of Mind.

STEINMETZ

Formal and functional logic; examination of reflective procedures in various fields; epistemological assumptions and traditional viewpoints, especially as illustrated in recent scientific writings; review of some psychological, experimentally supported explanations of thought. Prerequisites: Psychology 1A and Philosophy 5A. Spring (3).

PHYSICAL EDUCATION

Men's Department

A two-hour activity course each semester is required for the two years of lower division. A medical examination is given each student when entering and the work is fitted, as far as possible, to his needs. Physical efficiency tests are given at the beginning in order to classify the student as to his physical ability. These are repeated at the beginning of the three succeeding semesters in order to note improvement and to arrange balance of program so as to acquire all-round development. The content of the required two years is planned to give each student fundamental training in those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

LOWER DIVISION COURSES

- 1A. (Freshman year.) Self-defense and track and field fundamentals. Fall (1).
- 1B. Tennis, swimming, and golf. Spring (1).
- 1C. (Sophomore year.) Instruction and competition in handball, basket ball, and speedball. Fall (1).
- 1D. Instruction and competition in volley ball, baseball, and track. Spring $(\frac{1}{2})$.
- 2A or B. Golf. Spring (1).
- 3A or B. Track. Spring (1).
- 4A or B. Baseball. Spring (1/2).
- 5A or B. Basket ball. Spring (1).
- 6A or B. Tennis. Fall and Spring (1/2).
- 7A or B. Boxing. Fall and Spring (1/2).
- 8A or B. Wrestling. Fall and Spring $(\frac{1}{2})$.
- 9A or B. Cross country. Fall (1/2).
- 10A or B. Swimming. Spring $(\frac{1}{2})$.

7-4157

11A or B. Fencing. Fall and Spring $(\frac{1}{2})$.

13A or B. American football. Fall (1).

14A or B. Gymnastics. Spring (1/2).

The following courses fulfill degree requirements for physical education majors and meet state requirements for teaching credentials in physical education.

54. Administration of Physical Education.

GROSS

The problems that arise in the everyday experience of the instructor in physical education, such as policies in administration, classification of students, administration of activities, organization of the leadership of students, arrangement and care of the physical equipment, personal relationships with students, interdepartmental adjustments, rolls, records and reports. Material presented in latest State Department Manual used as basis.

Fall and Spring (2).

62A. Gymnastic Activities.

C. E. PETERSON

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology. Prerequisite: Sophomore standing.

Fall (2).

62B. Gymnastic Activities.

C. E. Peterson

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid building given chief attention, although games of low organization are also considered. Prerequisite: Sophomore standing.

Spring (2).

UPPER DIVISION COURSES

101. Emergencies.

GROSS

The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized. (1)

151. Health Education.

(See Women's Department.) Fall and Spring (2).

155. Applied Anatomy.

C. E. PETERSON

Mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors. (2). (Offered in alternate years.)

C. E. PETERSON AND STAFF

156A. Sports Methods. Different theories and methods of teaching the more highly organized sports: baseball, basket ball, tennis, and track. Fall (2).

156B. Sports Methods.

C. E. PETERSON AND STAFF

Methods of teaching those sports most adaptable to intramural and interclass competition: golf, handball, soccer, speedball, and volley ball. Spring (2).

163. Aquatics.

PHYSICAL EDUCATION STAFF

Details of handling an aquatic program, with stress on swimming, diving, and life-saving; both theory and practice. Spring (11).

165. Self-defense Activities.

Both theory and practice of boxing, wrestling, and weaponless defense. Fall and Spring (11).

166. Technique of Officiating.

GROSS

Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, high school, and interclass college competition.

Fall (1).

171. Community Recreation.

HERREID

Planned to meet the needs of the various workers in community playground systems apart from schools, as well as the needs of directors of play and recreation in social service institutions, industrial plants, shops, and factories. Special attention given to scout and camperaft.

Spring (2).

172. Principles of Physical Education.

C. E. PETERSON

The material which seeks to establish the place of physical education and to indicate its indispensable character in modern life.

Fall (2). (Offered in alternate years.)

179. Physical Education Tests and Measurements. (2).

180. American Football.

HERREID

Theory and practice of individual and team play. Each student taught the fundamentals of football. Two hours of lecture and three hours of laboratory.

Fall (2).

PHYSICAL EDUCATION

WOMEN'S DEPARTMENT

All new students are given a medical examination to the end that the physical needs of each student may be determined and her work planned accordingly. Two hours weekly of directed physical activity are required in freshman and sophomore years. Emphasis is upon rhythmic activities, games, and sports. In order to meet this requirement, students taking the curriculum leading to the A.B. degree with an elementary credential must take Physical Education 36A-36B, 37, and 38A. Those seeking the junior certificate or the degree in any of the presecondary curricula or the degree with the junior high school credential or with a special credential in art, commerce, or music, are required to take Physical Education 36A-36B, 38A-38B

LOWER DIVISION COURSES.

36A. Formalized Activities, Group Games, Stunts. RAW. TANNER Fall and Spring (1).

36B. Athletic Games. Fall and Spring (1). RAW

37. Game and Rhythmic Activities.

TANNER

Prerequisites: Physical Education 36A-36B. Fall and Spring (1).

38A. Recreational Activities (Elective).

Dancing, folk dancing, rowing, stunts, golf, horseback, swimming, tennis, or seasonal sports.

Fall and Spring (1).

38B. Recreational Activities (Elective). RAW. TANNER

Golf, horseback, swimming, tennis, or seasonal sports; or any one of the following that was not chosen in Physical Education 38A; dancing, folk dancing, rowing, or stunts.

Fall and Spring (1).

53. Physical Education in the Elementary School.

TANNER

Physical education problems, administration of tests, methods of classifying children for play activities, developing leaders, and carrying on intramural ideals. Particular attention given posture problems. The content of the state program in physical education forms the basis of the course. Prerequisite: Physical Education 37A must precede or accompany.

Fall and Spring (2).

*55. Swimming.

A. Beginning or intermediate (1).

B. Red Cross Life Saving Test (1).

Required of all freshmen women majoring in physical education.

*56. Tennis.

Required of all sophomore women majoring in physical education. Tests given on playing skills and knowledge of teaching technique. (3).

*57. Golf.

Required of all women majoring in physical education. (1).

58. Rowing.

No credit.

UPPER DIVISION COURSES

102. Emergency and Safety Programs.

RAW

Means by which the number of accidents, especially among children, may be reduced on street, playground, or at home; practical application of first aid methods. Of value to classroom teachers as well as to specialists in physical education.

(1).

151. Health Education.

TANNER

A course for teacher-training students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which may appear in the school; and the elements which underlie a health education program. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.

Fall and Spring (2).

TANNER 153. Administration of Secondary Physical Education.

Study of department organization and procedures with practical experience in administration. The college department and like departments in high schools serve as laboratories. Open only to seniors majoring in physical education.

(2).

TANNER

A study of the movements of the human body with especial reference 154. Applied Anatomy. to the physical activities and capacities of girls and women.

(2).

157A-157B. Sports Methods.

Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports—volley ball, basket ball, hockey, speedball, soccer, baseball, tennis, and track

activities. Year course (2-2).

RAW

A practical course in personal technique. Progressive series of indi-158. Stunts and Tumbling.

vidual, dual, and group stunts, including simple pyramids.

^{*} Women majoring in physical education are expected to select one yearly sport as a major activity and two others as minors. This requirement refers to rules, teaching methods, and technique of playing, as well as to the skills of the individual.

^{*}Women majoring in physical education are expected to select one yearly sport as a major activity and two others as minors. This requirement refers to rules, teaching methods, and technique of playing, as well as to the skills of the individual.

160. Formalized Activities.

TANNER

The scientific adaptation of formalized exercises to individuals and to groups; an activity and methods class with opportunity for supervised practice teaching; elementary exercises on apparatus. (2).

161. Folk Dancing.

RAW

A series of folk and national dances for elementary and junior high schools. Emphasis is placed on methods of presentation as well as upon ability to execute the various dances. Note books are required. (2).

164. Dance Activities.

RAW

A course introductory to dramatic expression, interpretative, character, and tap dancing, particularly adapted to elementary and junior high schools.

(2).

170. Recreational Leadership.

TANNER AND STAFF

Fundamentals of recreational leadership developed by instruction in Scout craft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. (2).

173. Principles of Physical Education.

TANNER

The relation of physical education to other phases of education, with emphasis upon health and social adaptation. (2).

174. Camperaft.

TANNER AND STAFF

The technique of life in open camp developed by camp experience, preceded by study of selection of equipment, proper outing clothes, tents, making beds in the open, making camp fires, camp cooking, and camp recreations. Enrollment only by permission of the instructor. (2).

175. Current Problems in Physical Education.

TANNER

The latest phases of general physical education; problems particularly related to the work with younger children, girls, and college women; the responsibility of the physical instructor toward emergencies and health service. Open only to seniors majoring in physical education.

177. Individual Program Adaptations.

Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventative measures which are not highly specialized corrective phases.

178A-178B. Camp Fire and Girl Scout Leadership.

The principles and procedures fundamental to leadership in these two important organizations for girls taught by authorized local directors.

Useful to college women interested in recreational aspects of social service. Open to all students.

A. Camp Fire Leadership (1).

B. Girl Scout Leadership (1).

PHYSICS

Lower division preperation in physics for advanced work and for the junior certificate: Required: Physics 1A-1B and 1C-1D; Chemistry 1A-1B; Mathematics C, 3A-3B and 14A-14B, or their equivalents. Recommended: A reading knowledge of French and German.

LOWER DIVISION COURSES

1A-1B. General.

MOE

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry and trigonometry, or concurrent registration in Mathematics C.

Year course (3-3).

1C-1D. General.

BAIRD

A continuation of Physics 1A-1B for students in the sophomore year, including magnetism, electricity, sound, and light. Two lectures and one laboratory period each week.

Year course (3-3).

2A-2B. General.

BAIRD

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

Year course (3-3).

MOE

3A-3B Physical Measurements.

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1).

MOE

3A-B. Physical Measurements.

Same as 3A-3B except that the work is completed in one semester. MOE

Spring (2).

98. Advanced Physical Measurements.

Lecture and laboratory work on advanced general physics.

Spring (2).

UPPER DIVISION COURSES

BAIRD

Refraction, color, interference, diffraction, polarization, radiation, and 106. Optics.

Fall (3). (Not offered in 1933-1934.) optical instruments.

107A-107B. Electrical Measurements.

BAIRD

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics. Year course (3-3).

108. Modern.

BAIRD

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3). (Not offered in 1933-1934.)

199. Special Study.

BAIRD, MOE

Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.

Fall and Spring (1 or 2-1 or 2).

POLITICAL SCIENCE

Lower division preparation in political science for advanced work and for the junior certificate: Political Science 1A-1B and Economics 1A-1B or History 4A-4B or Geography 1 and 2. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES.

1A-1B. Comparative Government.

A comparative study of typical European governments and the government of the United States. Semester I: England, France, Germany, Italy and Switzerland. Semester II: The lesser European states and

Year course (3-3).

UPPER DIVISION COURSES

101. American Institutions.

LEONARD

Origins and principles of the United States Constitution, and a survey of the political institutions which have developed under it.

Prescribed by the State law for all candidates for the bachelor's degree. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Those taking History 171A-171B, 173A-173B or Political Science 113 are excused from this requirement. Attention is called to the fact that this course is offered only during the Fall

Fall (2).

111. Theory of the State.

The nature of the State, its organization and activities, and its rela-LEONARD tion to individuals and to other states. Fall (3).

113. American Political Ideals.

LEONARD

Underlying theories and principles of American governmental policy. Meets the requirement on the United States Constitution for graduation. Spring (3).

PSYCHOLOGY

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biology 10A-10B, Philosophy 5A-5B. Recommended: French, German, Chemistry, Physics, and Anthropology.

LOWER DIVISION COURSES

1A. General.

BELL, STEINMETZ

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior; use of a work book assures individual participation and contribution. Furnishes basis for all other courses in psychology. No prerequisites except sophomore standing.

Fall and Spring (3).

1B. General.

BELL. STEINMETZ

Systematic psychologies, problems of development and of malfunction. Extensive readings of experimental studies: one thorough study required of each student. Prerequisites: Psychology 1A.

Spring (3).

4A. Applied.

BELL

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in business, education, music, art, speaking, writing, and in the professions. No credit for those who have had Psychology 2B. Prerequisite: Psychology 1A. Recommended: Psychology 1B. Fall (2).

4B. Psychology Applied in Business.

BELL

Applications of psychology to a wide range of problems encountered by the man in business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Spring (2).

UPPER DIVISION COURSES

102. Genetic (Growth and Development of the Child).

BELL, STEINMETZ

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of phy-

sical or mental maladjustment made by each student. Prerequisites: Psychology 1A, and Education 108 taken either previously or at the same time.

Fall and Spring (3).

105. Mental Testing.

BELL

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. The nature of intelligence and skill in testing it and interpreting results. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 102, Education 140. *Fall (3).

118. Mental Hygiene.

BELL

A study of mental health, or the normal mind; factors which contribute to, or disturb integration. Forms of maladjustment and their treatment. Prerequisite: Psychology 1A.

*Spring (2). (Not offered in 1933-1934.)

120. History of Psychology.

STEINMETZ

Historical development of psychology out of mental philosophy; sensationism; the body-mind problem; associationism; structuralism; functionalism; rise of the schools and experimental procedures. Prerequisite: Psychology 1A, 1B.

*Fall (2). (Not offered in 1933-1934.)

140. Contemporary Psychology.

STEINMETZ

Psychoanalysis, behaviorism, and gestalt psychology; the modern eclectic viewpoint; non-Aristotelian speculation; factor analysis; characteristic British, French, German, and American contributions; outstanding problems, publications and fields. Prerequisite: Psychology 1A, 1B, 120, or other upper division work in the department provided instructor and head of the department consent.

*Fall (2). (Not offered in 1933-1934.)

145. Social.

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A.

*Spring (3). (Not offered in 1933-1934.)

160. Experimental: Psychology of Learning.

BROOM

Preparatory study of learning, including such topics as laws of learning; improvement in learning; remembering; and forgetting; fatigue; and transfer of training. Extensive reading in reports of experimental studies in learning. Individual experimental work required of each student. Prerequisites: Psychology 1A, 1B, Recommended: Education 130.

*Fall (3). (Not offered in 1933-1934.) Educational Psychology. See Education 130. Educational Measurements. See Education 108.

SPEECH ARTS

Lower division prepartion in speech arts for advanced work and the junior certificate: 12 units selected from Speech Arts 1A-1B, 55A-55B, 55C-55D.

Students who complete the requirements for the special credential in speech arts at the time of graduation with the bachelor's degree or subsequently may be recommended by the department of education in the college to the State Department of Education for the issuance of that credential. The requirements demand: (1) 15 units in education courses, including Education 121, Education 116 (Practice Teaching in speech arts, 4 units), and a methods course in speech arts; (2) at least a teaching major in speech arts, consisting of 24 units with a minimum of 12 units in upper division courses taken as an upper division student.

The following courses are in the regular accredited curriculum of the English department, and six units may be counted in meeting the lower division requirements for the presecondary major in English. (See page 54.)

LOWER DIVISION COURSES

1A. Elements of Public Speaking.

PFAFF

Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type forms of speech.

Fall and Spring (3).

1B. Argumentation and Debate.

PEAFE

Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.

Spring (3).

1C. Oral Interpretation.

PEAFF

The oral interpretation of longer literary selections, both in poetry and prose; designed to assist the beginning student in drama as well as the student majoring or minoring in English literature.

Fall (3).

55A-55B. Play Production.

JONES

History and technique of dramatic production, with special emphasis on contemporary drama. Rehearsals and presentation of scenes and plays. Arranged for students interested in all the theater arts.

Year course (3-3).

^{*}It is planned to give the following courses in alternate years: Psychology 105 and 160; 118 and 145; 120 and 140.

^{*} It is planned to give the following courses in alternate years: Psychology 105 and 160; 118 and 145; 120 and 140.

55C-55D. Dramatic Interpretation.

JONES

Use of speaking voice, correct diction, gesture, and pantomime. Principles of characterization and standards of acting. Practical working knowledge of different types of plays through rehearsal and presentation. Year course (3-3).

UPPER DIVISION COURSES

155A-155B. Dramatic Workshop.

JONES

Advanced work along lines of student's individual dramatic interests: acting, directing, staging, costuming, play writing, and the like. Special attention given to creative work and practical experience. Prerequisites: Speech Arts 55A-55B.

Year course (3-3). (Not offered in 1933-1934.)

156A-156B. Advanced Play Production.

JONES

Special training in educational, recreational and community drama activities for professional use. Practical production experience. Prerequisite: Speech Arts 55A-55B and instructor's consent. Year course (3-3).

SURVEYING

LOWER DIVISION COURSES

1A-1B. Plane Surveying.

NICOL

Use and adjustment of surveying instruments, computations and mapmaking, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisite: Trigonometry and Mechanical Drawing.

Year course (3-3).

2. Summer Class in Surveying.

NICOL.

Practical field problems in reconnaisance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of selfreliance, accuracy, and professional skill on the part of the student. Four weeks course, commencing after the close of the second semester. Prerequisite: Surveying 1A-1B. (3).

3. Applied Astronomy.

NICOL

Lecture course in principles of practical astronomy for engineers. Lectures, supervised problem solution and assigned problem sets, on the fundamental formulae of spherical trigonometry and their application to the solution of observation on the sun and Polaris for time, latitude, and azimuth of a course.

Spring (1).

ZOOLOGY

(See Biological Sciences)

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