

Archive copy. Do not circulate

copy 1
ARCHIVES

Vol 18 - no 2

SAN DIEGO, CALIFORNIA
STATE COLLEGE LIBRARY

ARCHIVES
SDSU

Bulletin
San Diego State Teachers College

— AND —

Announcement of Courses
1930-1931



June, 1930

CALIFORNIA STATE PRINTING OFFICE
SACRAMENTO, 1930

75668

SAN DIEGO, CALIFORNIA
STATE COLLEGE LIBRARY

Bulletin
San Diego State Teachers College

— AND —

Announcement of Courses

1930-1931



June, 1930

The Educational Quarterly

BULLETIN OF THE

State Teachers College of San Diego

Volume Eighteen

JUNE, 1930

No. 2

STATE TEACHERS COLLEGE OF SAN DIEGO

Administered Through

DIVISION OF NORMAL AND SPECIAL SCHOOLS

OF THE

STATE DEPARTMENT OF EDUCATION

VIERLING KERSEY.....Superintendent of Public Instruction
ex officio Director of Education
SAM H. COHN.....Deputy Director of Education

STATE BOARD OF EDUCATION

CHARLES ALBERT ADAMS.....Humboldt Bank Building, San Francisco
ALLEN T. ARCHER.....215 West 6th Street, Los Angeles
MRS. MINNIE BRADFORD.....3400 I Street, Sacramento
E. P. CLARKE.....Riverside
MRS. MARY ROBERTS COOLIDGE.....Dwight Way End, Berkeley
GORDON GRAY.....San Diego
MRS. IRENE HEINEMAN.....1838 North Kenmore, Hollywood
C. L. McLANE (President).....1027 Van Ness Avenue, Fresno
MRS. DAISIE L. SHORT.....1010 Harvard Road, Oakland
MRS. AMY S. STEINHART.....2400 Steiner Street, San Francisco

OFFICERS

EDWARD L. HARDY.....President
IRVING E. OUTCALT.....Vice President
JESSE W. AULT.....Acting Dean of Education and
Principal of Training School
ARTHUR G. PETERSON.....Dean of Liberal Arts
MRS. ADA HUGHES COLDWELL.....Dean of Women
CHARLES E. PETERSON.....Dean of Men
CHARLES R. SCUDDER.....Chairman Board of Student Advisors
MARGUERITE V. JOHNSON.....Registrar
MAY ESTELLA MORROW.....Assistant Registrar
DOROTHY MAY HARRISON.....Secretary to the Registrar
GEORGIA C. AMSDEN.....Faculty Secretary
MRS. CHARLOTTE G. ROBINSON.....Librarian
GENEVIEVE KELLY.....Assistant Librarian
F. W. VAN HORNE.....Business Secretary
MARY IRWIN McMULLEN.....Secretary to President
C. L. FISKE.....Superintendent of Buildings
MARTIN ROTH.....Superintendent of Grounds
A. L. SEELIG.....Superintendent of Heating and Electrical Equipment

*Published Quarterly by the State Teachers College of San Diego,
SAN DIEGO, CALIFORNIA*

Entered as second-class matter, April 15, 1913, at the post office, San Diego,
California, under the act of August 24, 1912

CALENDAR 1930-1931

SUMMER SESSIONS, 1930.

Term I, six weeks, June 23-August 1.
Term II, four weeks, August 4-26.

FALL SEMESTER, 1930-1931.

September	10,	8.00 a.m.,	College Aptitude Test.*
September	10,	1.30 p.m.,	Assembly of New Students.
September	11,	8.00 a.m.,	Examination in Subject A. (English Composition.)
September	11,	10.30 a.m.,	Assembly of New Students.
September	11,	1.30 p.m.,	Fundamentals Test.*
September	12,	8.30-12 a.m. and 1.00-2.00 p.m.,	Registration of Old Students.
September	13,	8.30-12 a.m. and 1.00-2.00 p.m.,	Registration of New Students.
September	15,		Class Work Begins.
November	11,		Legal Holiday.
November	27-30,		Thanksgiving Recess.
December	13,		Christmas Recess Begins.
January	5,		Class Work Resumes.
January	19-23,		Final Examinations for Mid-Year Graduates.
January	29,		Mid-Year Examinations Begin.

SPRING SEMESTER, 1931.

February	5-8,		Mid-Year Registration Period.
February	5,	8.00 a.m.,	College Aptitude Test.*
February	5,	1.30 p.m.,	Assembly of New Students.
February	6,	8.00 a.m.,	Examination in Subject A (English Composition).
February	6,	10.30 a.m.,	Fundamentals Test.*
February	6,	8.30-12.00 a.m. and 1.00-2.00 p.m.,	Registration of Old Students.
February	7,	8.30-12.00 a.m. and 1.00-2.00 p.m.,	Registration of New Students.
February	9,		Class Work Begins.
March 28-April 5,			Easter Recess.
May	1,		Dedication Day.
June	10-16,		Final Examinations.
June	19,		Annual Commencement Exercises.

SUMMER SESSIONS, 1931.

Term I, six weeks, June 29-August 7.
Term II, four weeks, August 10-September 1.

* See page 18.

FACULTY

- EDWARD L. HARDY, LL.D., President
B.L., University of Wisconsin; M.A., University of Chicago; LL.D., 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. ACTING DEAN OF EDUCATION, PRINCIPAL OF TRAINING SCHOOL, 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.)
- ARTHUR G. PETERSON, M.A. DEAN OF LIBERAL ARTS, EX OFFICIO IN GENERAL CHARGE OF LOWER DIVISION STUDIES, AND PROFESSOR OF 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 College.
(Appointed September, 1921.)
- ADA HUGHES COLDWELL DEAN OF WOMEN
Student, Hopkins Art School and California Medical College, San Francisco; Columbia University. Special Study in Europe. Licensed Pharmacist, State of California.
Grade teacher, Alameda, California; Head of Home Economics Department, University of Montana, summer session of 1915.
(Appointed Head of Home Economics Department September, 1907; Dean of Women June, 1915.)
- CHARLES E. PETERSON, A.B. DEAN OF MEN AND ASSOCIATE PROFESSOR OF PHYSICAL EDUCATION AND DIRECTOR OF PHYSICAL EDUCATION FOR MEN
A.B., State Teachers College of San Diego.
Student, Oregon Agricultural College, University of California, and two years under Robert Krohn.
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.)
- JOHN R. ADAMS, M.A. INSTRUCTOR IN ENGLISH
A.B., M.A., University of Michigan.
Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington.
(Appointed September, 1923.)
- GEORGIA C. AMSDEN ASSISTANT 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.)

LAURENCE EDWIN ANDERSON, M.S.

INSTRUCTOR IN PHYSICS
AND MATHEMATICS

B.S., M.S. (Civil Engineering), University of California.
Student, American Bridge Company Night School.
Assistant Engineer with Shell Oil Company at Wilmington, California, and Curacao, Dutch West Indies; Assistant Valuation Engineer, Spreckels Sugar Company, Spreckels, California; Engineer with San Joaquin River Water Storage District, Los Banos, California; Assistant Hydraulic Engineer, California State Department of Public Works, Divisions of Engineering and Irrigation and Water Rights; Detailer with American Bridge Company, Gary, Indiana; Designer, Bridge Department, Santa Fe Railroad, Chicago.
(Appointed September, 1929.)

RUTH G. BAGLEY, A.M.

ASSOCIATE PROFESSOR OF ENGLISH

A.B., University of Michigan; A.M., University of California.
Graduate student, University of Illinois and Columbia University.
Head of Department of English, State Normal School, Oshkosh, Wisconsin; Instructor, San Diego Junior College. Travel in Europe.
(Appointed September, 1921.)

O. W. BAIRD, M.A.

ASSOCIATE 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 Sound, Tacoma, Washington.
(Appointed September, 1927.)

GERTRUDE SUMPTION BELL, M.A.

PROFESSOR OF PSYCHOLOGY

A.B., Indiana University; M.A., Stanford University.
Graduate student, Indiana State Normal School; Research Work, Clark University.
Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor, School of Education, Indiana University.
(Appointed August, 1916.)

MARY BENTON

ASSOCIATE PROFESSOR OF ART

Student, Rosemont Dezaley, Lausanne, Switzerland; Chicago Art Institute; New York School of Art; Teachers College, Columbia University; pupil of W. J. Whittemore, miniature painter, and of Sara Butterworth, craftsman.
(Appointed July, 1916.)

LESLIE P. BROWN, M.A.

ASSOCIATE PROFESSOR OF SPANISH

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.)

M. EUSTACE BROOM, M.A.

ASSISTANT PROFESSOR OF EDUCATION

A.B., M.A., University of Illinois.
Student, University of Chicago; graduate student, University of Southern California.
Assistant in Psychology, University of Illinois; Teacher in Illinois high schools; Superintendent of Schools, Illinois and West Virginia; Instructor in Education, Extension Division, Concord State Normal School, West Virginia; Teacher, Francis W. Parker School of San Diego; Associate Editor, *The High School Teacher*.
(Appointed February, 1928.)

ROY E. CAMERON, Ph.D.

ASSISTANT PROFESSOR OF ECONOMICS

A.B., Ph.D., University of California.
Student, Creighton University.
Professor of Economics, University of Omaha; Teaching Fellow in 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.Ed., Michigan State College; B.S., A.M., Teachers College, Columbia University. Graduate Public School Music Course, Ypsilanti Conservatory of Music.
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.

ASSISTANT 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, 1929.)

HELEN LOIS DALE, M.A.

INSTRUCTOR IN BIOLOGY

A.B., M.A., Stanford University.
Graduate student, Stanford University.
Teaching Assistant in Biology, Reed College; Instructor in Zoology, Mills College; Assistant and Acting Instructor in Biology, Stanford University.
(Appointed September, 1928.)

WALDO H. FURGASON,* B.A.

INSTRUCTOR IN BIOLOGY

B.A., St. Olaf College.
Diploma, St. Olaf School of Music; graduate student, University of Southern California and Stanford University.
Teaching Fellow, St. Olaf College; Instructor in Music, Roosevelt Junior High School, San Diego.
(Appointed September, 1926.)

MORRIS HUBBARD GROSS, A.B.

INSTRUCTOR IN PHYSICAL 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.)

EDITH C. HAMMACK, B. A.

TRAINING SUPERVISOR AND ASSISTANT
PROFESSOR OF EDUCATION

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

DOROTHY R. HARVEY, M.A.

INSTRUCTOR IN BIOLOGY

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.)

* On leave of absence 1929-1930 and 1930-1931.

- ROBERT D. HARWOOD, PH.D. ASSISTANT PROFESSOR OF ZOOLOGY
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 Univer-
sity; Stream Survey, Conservation Department, New York.
(Appointed September, 1928.)
- WALTER B. HERREID, A.B. INSTRUCTOR IN PHYSICAL EDUCATION
A.B., Washington State College.
Graduate student, University of California and University of South-
ern 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.
(Appointment effective September, 1930.)
- MARGUERITE VEASEY JOHNSON, A.M. REGISTRAR AND ASSISTANT
PROFESSOR OF CULTURE
HISTORY
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.)
- MYRTLE ELIZABETH JOHNSON, PH.D. PROFESSOR OF BIOLOGY
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.)
- SYBIL ELIZA JONES, M.L. ASSISTANT PROFESSOR OF ENGLISH
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.)
- GENEVIEVE KELLY, A.M. INSTRUCTOR IN SOCIOLOGY
A.B., University of California; A.M., Columbia University.
Student, Los Angeles Public Library School. Travel in Europe.
Teacher, Corcoran Union High School. Librarian, Northern Arizona
Normal School, Flagstaff; Scripps Foundation for Research in Popula-
tion Problems, Oxford, Ohio.
(Appointed September, 1924.)
- MARJORIE KELLY, 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.)
- GUINIVERE KOTTER, M.A. TRAINING SUPERVISOR AND ASSISTANT
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.)
- 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.)

- 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-
fornia.
Instructor, Principia School, St. Louis, Missouri; Teaching Fellow
in History, University of California; Acting Assistant Professor of
American History, Pomona College.
(Appointed September, 1924.)
- GEORGE R. LIVINGSTON, M.A. ASSOCIATE PROFESSOR OF MATHEMATICS
B.S., M.A., University of California.
Instructor, San Diego Junior College; Head of Department of
Mathematics, Santa Barbara Junior College.
(Appointed September, 1921.)
- MARY RANKIN MOON, A.B. INSTRUCTOR IN ART
A.B., University of California.
Student, State Teachers College of San Diego and Colorado Springs
Academy of Fine Arts. Travel in Europe.
(Appointed September, 1926.)
- ABRAHAM P. NASATIR, PH.D. ASSISTANT PROFESSOR OF HISTORY
A.B., M.A., Ph.D., University of California.
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,
AND APPOINTMENT SECRETARY
Ph.B., Ohio State University; M.A., University of Southern Cali-
fornia.
Graduate student, University of Chicago.
Principal of Ohio High Schools; Superintendent of Schools in
Illinois; Supervisor, Junior High Schools, San Diego.
(Appointed July, 1921.)
- WALTER T. PHILLIPS, M.A. ASSISTANT PROFESSOR OF SPANISH
AND FRENCH
A.B., University of Washington; M.A., Stanford University.
Graduate student, University of California and University of
Washington.
Teaching Assistant in Spanish and graduate scholarship in Spanish,
Stanford University; Assistant Professor of Modern Languages, Wil-
lamette University.
(Appointed September, 1927.)
- LEO FRANCIS PIERCE, PH.D. PROFESSOR OF CHEMISTRY
B.S., Grinnell College; M.Sc., Tulane University; Ph.D., Stanford
University.
Graduate student, Tulane University; University Fellowship, Stan-
ford University.
Research Assistant and Instructor, University of Idaho; Professor
of Chemistry, Washburn College; Instructor, Tulane University;
Deutsche Chemische Gesellschaft; Lecturer in Chemistry, Mercy
Hospital, San Diego.
(Appointed September, 1923.)
- ALICE M. RAW, A.B. INSTRUCTOR IN PHYSICAL EDUCATION
A.B., University of Southern California.
Graduate student, University of Southern California; travel in
Europe.
(Appointed September, 1923.)
- 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.)

- DUDLEY H. ROBINSON, B.Sc.** INSTRUCTOR IN CHEMISTRY
B.Sc. in Sugar Engineering, University of Louisiana.
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.)
- CHARLES R. SCUDDER, A.B.*** ASSOCIATE PROFESSOR OF INDUS-
TRIAL ARTS
A.B., State Teachers College of San Diego.
Student, University of Illinois and State Normal School, Bellingham,
Washington; graduate student, University of Southern California.
Teacher of Industrial Work, East Chicago, Indiana, and Grand
Rapids, Michigan; Director of Industrial Arts, Evanston, Illinois;
Muncie Normal Institute, Muncie, Indiana; State Normal School,
Bellingham, Washington.
(Appointed September, 1918)
- W. T. SKILLING, M.S.** PROFESSOR OF ASTRONOMY
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 Physics, University of California. (Appointed September, 1901)
- FLORENCE L. SMITH, M.A.** ASSOCIATE PROFESSOR OF ENGLISH
A.B., Northwestern University; M.A., University of 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.
Head of Department of Music, State Teachers College, Winona, Min-
nesota. (Appointed September, 1922.)
- MARIAN PEEK SMOOR, A.M.** TRAINING SUPERVISOR AND ASSISTANT
PROFESSOR OF EDUCATION
A.B., A.M., Stanford University.
Travel in Europe.
Teacher in Public Schools; Assistant in History, Stanford Univer-
sity; Dean of Women, State Normal School, Cheney, Washington;
Instructor, Francis W. Parker School, San Diego, California.
(Appointed September, 1923)
- CHRISTINE SPRINGSTON, B.M.** INSTRUCTOR IN MUSIC
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
and Olga Steeb of Los Angeles. "Diploma of Execution," Conserva-
toire American, Fontainebleau, France; Supervisor of Music, Needles,
California; Assistant in Piano, Organ and Theory, University of
Redlands; Instructor, San Diego High School.
(Appointment effective September, 1930)
- HARRY C. STEINMETZ, A.M.** INSTRUCTOR IN EDUCATION
A.B., University of California; A.M., University of Southern Cali-
fornia.
Assistant in Journalism, University of the Philippines, Manila;
Assistant in Educational Psychology, University of California; Instruc-
tor, Glendale Union High School and San Mateo Junior College.
(Appointment effective September, 1930.)
- S. LAVENDER STOVALL, B.S.** ASSOCIATE PROFESSOR OF MECHANIC ARTS
B.S. (Electrical Engineering), University of California.
Student, University of Texas.
Research and design of apparatus, General Electric Company;
Chief Engineer of Mt. Whitney Power and Electric Company; Irriga-
tion Engineering; Efficiency Engineer, oil fields of California.
(Appointed September, 1924.)

* On leave of absence February 1, 1930, to January 31, 1931.

- ALVENA SUHL, M.A.** ASSISTANT 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 EDU-
CATION AND DIRECTOR OF PHYSICAL
EDUCATION FOR WOMEN
B.S. and Bachelor's Teaching Diploma, Teachers College, Columbia
University.
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, B.A.** ASSISTANT PROFESSOR OF ENGLISH
B.A., (Hons. Oxon.), University of Oxford.
Student, University of Arizona. Holder of Arizona Rhodes Schol-
arship to Oxford. Graduate student, University of California.
Instructor in Dramatics, Francis W. Parker School, San Diego,
California. (Appointed September, 1926.)
- 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,
Visalia, California. (Appointed September, 1921.)

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;
Certificat d'Etudes Françaises, University of Paris.
Assistant in French, University of Chicago; Head of French
Department, Rockford College, Rockford Illinois; Instructor in Uni-
versity of California, Extension Division, San Diego, California.
- LYMAN BRYSON, A.M.** PROFESSOR OF ANTHROPOLOGY
A.B., A.M., University of Michigan.
Director of San Diego Museum. Journalist. Editor of publications
of International Red Cross.
- LESLIE S. EVERTS, B.L.** ASSISTANT PROFESSOR OF COMMERCE
B.L., University of Wisconsin.
C.P.A., California, Wisconsin; Public Accountant in Milwaukee,
Wisconsin, and San Diego, California.
- CONSTANTINE PANNUNZIO, Ph.D.** PROFESSOR OF SOCIOLOGY
A.B., A.M., Wesleyan University, Middletown, Connecticut; Ph.D.,
Brookings Institution, Washington, D.C.
Sometime Fellow in Social Research, New York University. Fellow
in Social Economics at the Brookings Graduate School, Washing-
ton, D. C.
- ROBERT HUNTER PATERSON** ASSISTANT PROFESSOR OF ART
Graduate, Maryland Institute of Art, Baltimore.
Student, New York School of Fine and Applied Art, Johns Hopkins,
and New York University.
Assistant in the College of Fine Arts, New York University;
Assistant on the Staff of American Federation of Arts, Washington,
D. C., and Assistant Director of San Diego Fine Arts Gallery.

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

SPENCER L. ROGERS, A.B. INSTRUCTOR IN ANTHROPOLOGY
A.B., State Teachers College of San Diego.

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.

EDMUND BARKHAM GARNER, A.B. ASSISTANT IN PHYSICAL EDUCATION
A.B., State Teachers College of San Diego.
Instructor, Memorial Junior High School, San Diego.

MEDICAL EXAMINERS

FRANCES ALLEN, M.D. MEDICAL EXAMINER AND ADVISER FOR WOMEN
O. S. HARBAUGH, M.D. MEDICAL EXAMINER AND ADVISER FOR MEN

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 four-year 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. (See pages 31 and 39 for curricula in Commerce.)

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: General Elementary School, General Junior High School, Special Secondary in Art, Special Secondary in Music, Special Secondary in Physical Education.

ENVIRONMENT AND STANDARDS

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, and the Director of the San Diego Museum is a member of the faculty of the college. 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 schools, 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

The main college building houses the library, the auditorium, the gymnasium, offices, laboratories, and classrooms. The training school is housed in three separate units.

The building for applied arts was made ready for occupancy in September, 1922, as a result of the remodeling of the old training school

building. A new building for physical education of men was finished January 1, 1923, and new quarters for the physical education of women at the same date.

The institution has facilities and equipment as follows:

A college library of 32,000 volumes.

Laboratories for physics, chemistry, and biological science.

Studios, shops, and laboratories for the courses in fine and industrial arts.

For physical education, a well-equipped gymnasium, lockers and showers, classrooms, and athletic field, tennis courts, etc.

On January 1, 1931, the college will remove to its new campus and buildings.

STANDARDS OF HEALTH, SCHOLARSHIP AND CHARACTER

All entering students will be required to meet the health standards set by the department of physical education, and all lower division students, unless excused for cause, will be required to take the courses in physical education, prescribed for freshmen and sophomores. Furthermore, each student will be 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 thorough-going 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 opportunity 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, etc., 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 a first term of six weeks and a second term of four weeks. Students may enter at the beginning of either semester and at the beginning of either 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 and 13 for the fall semester, and February 6 and 7 for the spring semester. A duly certified transcript of the applicant's record must be in the possession of the Registrar on or before the day of the applicant's registration.

ADMISSION TO COLLEGE

I. Freshman Standing.

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.

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, 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 Standing.

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 deficiency.

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 two regularly appointed days at the beginning of each semester, one for old students and the other for new ones. 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 advisers. 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 in the last part of each semester, when they may hold more lengthy consultations with their advisers than on registration day. Since registration is not complete until all fees and course charges 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.* (c) Social Relations Test. (d) Speech 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 each course entered.

CHANGES IN REGISTRATION

Changes in program may be made only with the approval of the student's adviser. The late registration fee of \$2 is required for the addition of one or more courses after the first week of the semester, if the student is responsible for the change. 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.

* This is required mainly for classification purposes. The results must be considered by students and advisers in the making of schedules. Students 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.

EXPENSES

SEMESTER FEES

Registration fee.....	\$1 50
Part-time (less than six units) registration fee.....	5 00
Late registration fee (penalty).....	2 00
Fee for additional transcript.....	1 00
Special examination fee.....	2 00
Evaluation of record fee.....	2 00

Other fees are being revised and information concerning them can be obtained by addressing the Registrar.

LIVING EXPENSES

The Dean of Women 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 procured at from \$40 to \$45 per month. Apartments consisting of one room, kitchenette and bath, renting at \$18 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. All those listed are in the vicinity of 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 for men is conducted by the Dean of Liberal Arts. The professional loan fund is administered for students in the teacher-training courses, seniors being eligible for assistance. The general loan fund is available for short time loans to worthy young men and women who have been in attendance at the college one or more years. A loan fund is also administered by the Associated Women Students, The Kiwanis Club of San Diego, the City Teachers' Association, the Scottish Rite Woman's Club, and the Entre Nous Club have set aside funds for student loans.

ADMINISTRATIVE REGULATIONS

OFFICERS FOR CONSULTATION

Concerning the housing and living arrangements of students, rules of conduct, dates and arrangements for all student social affairs, personal advice (women)—The Dean of Women.

Concerning matters of student-body policy, leaves of absence (men), personal advice (men), etc.—The Dean of Men.

Concerning supervision of practice teaching, conference, 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, school 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 supervisors of training.

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

Concerning appointments to teaching positions.—The Appointment Secretary.

Concerning use of the building.—Superintendent of Buildings.

CLASSIFICATION

Regular students are those students who have complied with the requirements of admission and are registered in 12 or more units of work.

Limited students are partial course students who, for adequate reasons, have been permitted to register for less than 12 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 30 to 59 units of work are classified 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 ($\frac{1}{2}$ 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 under 21 years of age will be allowed to register for less than 12 units without the permission of the Registrar.

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 transcript of record with recommendation, in transferring to another collegiate institution, a student must have earned as many grade points as he has earned units of credit; 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 teaching in the training school 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.

ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

A limited student who fails to pass in all subjects for which he is registered and every other student who fails to pass in 12 units of work in any semester is ineligible in the next succeeding semester to represent the college in connection with any athletic, literary, musical, dramatic, social, or other organization.

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; this applies also in the case of complete withdrawal from college. 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.

LEAVE OF ABSENCE

A leave of absence from college for a period not to exceed two weeks may be obtained for satisfactory reasons from the Dean of Women or the Dean of Men. If the student concerned fails to return to college, he

should notify the Registrar's Office. A leave of absence does not relieve the student from making every possible attempt to complete the work of each course to the satisfaction of the instructor. Enforced absence beyond two weeks necessitates obtaining the permission of each instructor to continue in the course; if the student is refused permission to return to one or more classes, he should arrange at the Registrar's Office for withdrawal from these courses.

APPOINTMENT OF SERVICE

The department of recommendations has charge of the placement of graduates, assisting them in securing teaching positions and assisting superintendents and boards of school trustees in finding qualified teachers.

Recommendations are based on records which indicate every item in the candidate's equipment and particular care is taken to select for nomination in each case a teacher who can meet the requirements of the position.

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, Delta Kappa (Chemistry), Engineering Club, Golden Quill, International Relations Club, Kappa Delta Pi (National Education Honor), Men's Glee Club, Pendragon, Psychology Club, Silver Scroll, Spanish Club, Skull and Dagger, Treble Clef Club.

Men: Associated Men Students, College Band, College "Y" Club, Delta Phi Beta, Epsilon Eta, Eta Omega Delta, Kappa Phi Sigma, Omega Xi, Phi Lambda Xi, Sigma Lambda, Tau Delta Chi.

Women: Associated Women Students, College Y. W. C. A., Women's Athletic Association, Delta Chi Phi, Gamma Phi Zeta, Komo, Phi Kappa Gamma, Phi Sigma Nu, Pro Re Nata, S. A. B. E. Club, Shen Yo, Sigma Pi Theta, Tau Zeta Rho.

Men's Athletics: Football, baseball, basket ball, track, swimming, and tennis.

Women's Athletics: Basket ball, rowing, swimming, and tennis.

Publications: The Aztec (weekly), Del Sudoeeste (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 held during the Commencement season; other meetings take place on dates of important athletic contests.

DEGREE REQUIREMENTS

GENERAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

The electives must be so chosen that, with the required work, the student will have a total of 6 units of credit in English, 12 units in social science and 12 units in natural science. Courses in journalism or in speech arts are not accepted as satisfying the English requirements. The electives in natural science 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 in the third or fourth year. 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; simply an exemption of the requirements will be permitted.

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). 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.

The course in American Institutions (Political Science 101), or the substitute courses in Political Science 113 or History 171A-171B, is required of all candidates for the A.B. degree.

The minimums in education required by the State run from 12 to 24 or more units, and may be ascertained at registration.

A minimum of 124 units of college work is required. Not less than 54 of these units must be earned in the junior and senior years. All candidates for the A.B. degree must complete 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 are to be taken in the fall or spring semester.

The number of grade points acquired in this college by the candidate for a degree must be equal to the number of units registered on his permanent record card. (See page 21 for an explanation of scholarship grades and grade points.)

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.

Students are urged to fulfill the requirements for at least two credentials, as for example, the General Junior High School and Elementary credentials, the Special credential in Art, Music, or Physical Education and the General Junior High School credential; it is also desirable to secure a General Elementary School credential. In such cases, the curriculum for each credential sought must be completed in full. This will facilitate placement upon graduation, especially for inexperienced teachers.

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, physical education, and social sciences (economics, geography, history, political science, sociology). 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 pre-secondary major to avoid the necessity of making up an undergraduate deficiency.

Specific requirements for presecondary majors in art, chemistry, commerce, economics, English, foreign language, geography, history, and zoology may be found in the section giving the presecondary degree curricula and also immediately preceding the course descriptions in those subjects.

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, are advised to use their electives to lay a foundation for that work.

CURRICULA LEADING TO TEACHING CREDENTIALS

A.B. Degree With General Elementary School Credential

FRESHMAN YEAR

First Semester—		Units of Credit
Biology 10A, ¹ General (unless taken in high school)-----	3	
Social Ethics-----	0	
Geography 1 or 1A, Elements (Natural Science)-----	3 or 2	
Physical Education 1A or 52A-----	$\frac{1}{2}$	
Art 6A, Structure-----	2	
Second Semester—		
Biology 10B, ¹ General (unless taken in high school)-----	3	
Geography 2 or 2A, Regions (Social Science)-----	3 or 2	
Physical Education 1B or 52B-----	$\frac{1}{2}$	
Education XIX, Art in the Elementary School-----	2	
Either Semester—		
Social Economics 10, Introduction to Social Science-----	3	
Electives, ² including two minors ³ (for the year)-----	12 or 14	
	32	

SOPHOMORE YEAR

First Semester—		
Psychology 1A, General-----	3	
Music 1A, Sight-singing and Ear-training-----	2	
Physical Education 1C or 52, Play Activities (women)-----	$\frac{1}{2}$	
Second Semester—		
Education XVII, Music in the Elementary School-----	2	
Physical Education 53, Administration of Phys. Educ.-----	2	
Physical Education 1D or 52D-----	$\frac{1}{2}$	
Either Semester—		
Education I, Introductory Principles of-----	3	
Art 61A, Elementary Crafts-----	2	
Art 61B, Elementary Crafts-----	2	
Electives, including two minors ⁴ (for the year)-----	15	
	32	

¹ 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.
² See first paragraph of Degree Requirements.
³ Unless minor is English, Natural Science or Social Science.
⁴ If 6 units in minor taken in Freshman year, none needed in Sophomore year.

JUNIOR YEAR

First Semester—		Units of Credit
Education CXXVA, Curricular Activities—Lower Levels--	3	
Education CXXVI, Children's Literature-----	2	
Education CXXIX, Mathematics in the Elementary School	2	
Psychology 102C, Genetic-----	3	
Second Semester—		
Education CXVI, Practice Teaching-----	3	
Education CXXVB, Curricular Activities—Upper Levels--	3	
Either Semester—		
Education CVIII, Educational Measurements-----	3	
Physical Education 151, Health Education-----	2	
Political Science 101 (or substitute)-----	2	
Electives, including two minors (for the year)-----	7	
	30	

SENIOR YEAR

First Semester—		
Education CXVI, Practice Teaching-----	6	
Second Semester—		
Education CVI, Philosophy-----	3	
Electives, including two minors ⁵ (for the year)-----	21 or 18	
	30	

⁵ If 6 units in minor taken in Junior year, none needed in Senior year.

A.B. Degree With General Junior High School Credential

FRESHMAN YEAR

First Semester—	Units of Credit
Biology 10A, ¹ General (unless taken in high school)-----	3
Social Ethics -----	0
Geography 1 or 1A, Elements (Natural Science)-----	3 or 2
Physical Education 1A or 52A-----	$\frac{1}{2}$
Second Semester—	
Biology 10B, ¹ General (unless taken in high school)-----	3
Geography 2 or 2A, Regions (Social Science)-----	3 or 2
Physical Education 1B or 52B-----	$\frac{1}{2}$
Either Semester—	
Social Economics 10, Introduction to Social Science-----	3
Electives, ² including major and minor ³ (for the year)-----	16 or 18
	32

SOPHOMORE YEAR

First Semester—	Units of Credit
Psychology 1A, General-----	3
Physical Education 1C (men) 52, Play Activities (women)-----	$\frac{1}{2}$
Second Semester—	
Physical Education 1D or 52D-----	$\frac{1}{2}$
Either Semester—	
Education I, Introductory Principles-----	3
Electives, ² including major and minor ⁴ (for the year)-----	25
	32

JUNIOR YEAR

First Semester—	Units of Credit
Education CXXVB, Curricular Activities—Upper Levels--	3
Political Science 101, American Institutions (or substitute)	2
Psychology 102C, Genetic-----	3
Education CVIII, Educational Measurements-----	3
Second Semester—	
Education CXVI, Practice Teaching-----	3

¹ 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.

² See first paragraph of Degree Requirements.
³ Unless major or minor is English, Natural Science or Social Science.

⁴ If 6 units in minor taken in Freshman year, none needed in Sophomore year.

Either Semester—	Units of Credit
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—	Units of Credit
Education CXVI, Practice Teaching-----	6
Second Semester—	
Education CXXI, Principles of Secondary Education-----	2
Either Semester—	
Education, elective -----	2
Electives, including major and minor ⁵ (for the year)-----	19 or 22
	30

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 the senior high school, junior high school, and elementary school.

LOWER DIVISION

	Units
Art 6A-6B, Structure.....	4
Art 61A-61B, Elementary Crafts.....	4
Education I, Introductory Principles.....	3
Education XIX, Art in the Elementary School.....	2
Physical Education 1A-1B, 1C-1D (Men); 52A-52B, 52C-52D (Women).....	2
Psychology 1A, General.....	3
Social Economics 10, Introduction to Social Science.....	3
Social Ethics (First semester, freshman year).....	0
Electives, including additional Art for major†.....	43
	64

UPPER DIVISION

Education CXVI, Practice Teaching (4 units in special field)....	9
Education CXIX, Art in the Junior High School.....	2
Education CXXI, Principles of Secondary Education.....	2
Education CXXVB, Curricular Activities—Upper Levels.....	3
Education, elective (suggested: Education CVI or CVIII or CXXX).....	3
Political Science 101, American Institutions (or substitute).....	2
Electives, including additional courses in Art.....	39
	60

† See first paragraph of Degree Requirements.

SUMMARY

	Units
Art major.....	50
Education.....	24
English.....	6
Natural Science.....	12
Physical Education.....	2
Political Science 101, American Institutions.....	2
Psychology.....	3
Social Science (including Soc. Econ. 10 and Pol. Science 101).....	12
Electives.....	15
	124

Students who wish to secure the General Junior High School Credential may arrange their electives to satisfy the requirements of that pattern if they choose Social Science or Natural Science as an academic teaching major. Complete requirements may be found on page 28.

A. B. Degree With Special Credential in Commercial Education

In April, 1930, after the material for this Bulletin had been prepared, the State Board of Education authorized the granting of the special certification curriculum with a major in Commerce, leading to the A.B. degree. This credential entitles the holder to teach Accounting or Secretarial Training subjects in the senior high school, junior high school, and the elementary school.

The lower division requirements are the same as those for the pre-secondary curriculum in Commerce, listed on page 39, except that Soc. Econ. 10 is to be substituted for Orientation; Hygiene 1 or 2 may be omitted; no Foreign Language is required, and Geog. 1 may be used in reducing the Natural Science requirement.

Upper division requirements include Econ. 18A-18B, 121, 140; Educ. I or Psych. 102C, Educ. CXVI, CLX, CXXI, Methods in Commercial Subjects; Geog. 141, Pol. Sci. 101, Psych. 2A, special subject requirements in Accounting or Secretarial Training and one-half year, or 1000 hours, of approved experience in the field named on the credential.

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 the senior high school, junior high school, and the elementary school.

LOWER DIVISION

	Units
Applied Music*	6
Education I, Introductory Principles (Sophomore year)	3
Education XVII, Music in the Elementary School	2
Music 1A-1B, 1C-1D, Sight Singing and Ear Training	8
Music 2A-2B, Appreciation and History	4
Music 4A-4B, Elementary Harmony	6
Physical Education 1A-1B, 1C-1D (Men); 52A-52B, 52C-52D (Women)	2
Psychology 1A, General (Sophomore year)	3
Social Economics 10, Introduction to Social Science	3
Social Ethics (First semester, freshman year)	0
Vocal Ensemble and Choral Music	2
Electives†	15
	64

UPPER DIVISION

Applied Music*	12
Education CVI, Philosophy	3
Education CXVI, Practice Teaching (at least 4 in Music)	9
Education CXXI, Principles of Secondary Education	2
Education CXXVII, Music in the Secondary School	2
Education, elective	3
Music 103A-103B, Appreciation and History	2
Music 105A-105B, Advanced Harmony	4
Music 107A, Conducting	2
Music 108A, Instrumentation	2
Political Science 101, American Institutions (or substitute)	2
Vocal Ensemble and Choral Music	2
Electives	15
	60

* Applied Music to be distributed as follows:

Orchestral instrument(s)	6
Piano, 2 years	6
Voice, 2 years	6

(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.

† See first paragraph of Degree Requirements.

SUMMARY

Education	24
English	6
Music major	50
Natural Science	12
Physical Education	2
Political Science 101, American Institutions	2
Psychology	3
Social Science, including Social Econ. 10 and Pol. Sci. 101 as above	12
Electives	15
	124

By choosing Natural Science or Social Science as the minor, the General Junior High School Credential may also be earned with this degree. Complete requirements may be found on page 28.

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 the senior high school, junior high school, and elementary school.

MEN

LOWER DIVISION

	Units
Anthropology 50A-50B, General (sophomore year)-----	6
Biology 10A-10B, General (unless taken in high school)-----	6
or	
Zoology 1A-1B, General-----	8
Education I, Introductory Principles (sophomore year)-----	3
Hygiene 1, Personal and Civic-----	1
Music 2A, History and Appreciation-----	2
or	
Speech Arts 1A, Elements of Public Speaking-----	3
Physical Education:	
1A-1B, 1C-1D-----	2
6A, Tennis-----	$\frac{1}{2}$
54, Administration-----	2
Psychology 1A, General (sophomore year)-----	3
Red Cross Swimming Test-----	$\frac{1}{2}$
Social Economics 10, Introduction to Social Science-----	3
Social Ethics (first semester, freshman year)-----	0
Electives†-----	32-35
	64

UPPER DIVISION

Education CXVI, Practice Teaching-----	9
Education CXXI, Principles of Secondary Education-----	2
Education CXXVB, Curricular Activities—Upper Levels-----	3
Education, elective-----	7
Physical Education:	
101, Emergencies-----	1
151, Health Education-----	2
155, Applied Anatomy-----	2
CLVIA-CLVIB, Sports Methods-----	4
CLXIIA-CLXIIIB, Gymnastic Activities-----	4
163, Aquatics-----	$1\frac{1}{2}$
165, Self Defense-----	$1\frac{1}{2}$
CLXVI, Technique of Officiating-----	1
171, Community Recreation-----	2
CLXXII, Principles-----	2
CLXXIV, Tests and Measurements-----	2
Sports and Athletics-----	1

† See first paragraph of Degree Requirements.

MEN—Continued

UPPER DIVISION—Continued

	Units
Political Science 101, American Institutions (or substitute)---	2
Psychology 102C, Genetic (first semester, junior year)-----	3
Zoology 100, Embryology-----	3
or	
Zoology 114A, Genetics-----	2
or	
Zoology 121, Entomology-----	3
Electives-----	16-12
	64

SUMMARY

Education-----	24
English-----	6
Hygiene-----	1
Music 2A or Speech Arts 1A-----	2 or 3
Natural Science (including Biol. 10A-10B or substitute and upper division Zoology)-----	12
Physical Education major-----	30
Political Science 101, American Institutions-----	6
Psychology-----	3
Social Science (including Soc. Econ. 10, Anthro. 50A-50B and Political Science 101)-----	12
Electives-----	31 or 30
	124

Students are advised to secure the General Junior High School Credential in addition. The requirements may be met at the same time if a suitable academic teaching major is chosen; the minor subject may be omitted. For complete requirements, see page 28.

WOMEN

LOWER DIVISION

	Units
Anthropology 50A-50B, General.....	6
Biology 10A-10B, General (unless taken in high school).....	6
or	
Zoology 1A-1B, General.....	8
Education I, Introductory Principles (sophomore year).....	3
Hygiene 2, Personal and Civic.....	2
Music 2A, History and Appreciation.....	2
or	
Speech Arts 1A, Elements of Public Speaking.....	3
Physical Education:	
52, Play Activities.....	1
52A-52B, 52D.....	11
53, Administration.....	2
55, Swimming.....	2
56, Tennis.....	2
Psychology 1A, General.....	3
Social Economics 10, Introduction to Social Science.....	3
Social Ethics (first semester, freshmen year).....	0
Electives†.....	31-33
	64

UPPER DIVISION

Education CVIII, Educational Measurements.....	3
Education CXVI, Practice Teaching.....	9
Education CXXI, Principles of Secondary Education.....	2
Education CXXVA, Curricular Activities—Lower Levels.....	3
or	
Education CXL, Educational Statistics.....	3
Education CVI, Philosophy.....	3
Education, elective.....	3
Physical Education:	2
151, Health Education.....	2
155, Applied Anatomy.....	2
CLVIA-B, Sports Methods.....	4
CLVIII, Stunts and Tumbling.....	1
CLX, Formalized Activities.....	2
161, Folk Dancing.....	2
164, Dancing.....	2
170, Recreational Leadership.....	2
CLXXIII, Principles.....	2
or	
CLXXIV, Tests and Measurements.....	2
CLXXV, Current Problems.....	2
CLXXVII, Individual Program Adaptations.....	2

† See first paragraph of Degree Requirements.

WOMEN—Continued

UPPER DIVISION—Continued

	Units
Political Science 101, American Institutions (or substitute)---	2
Psychology 102C, Genetic (first semester, junior year)-----	3
Zoology 100, Embryology-----	3
or	
Zoology 114A, Genetics-----	2
or	
Zoology 121, Entomology-----	3
Electives -----	11-10
	60

SUMMARY

Education -----	24
English -----	6
Hygiene -----	2
Music 2A or Speech Arts 1A -----	2 or 3
Natural Science (including Biol. 10A-10B or substitute and upper division Zoology)-----	12
Physical Education major-----	28
Political Science 101, American Institutions-----	6
Psychology -----	6
Social Science (including Soc. Econ. 10, Anthro. 50A-50B and Political Science 101)-----	12
Electives -----	32 or 31
	124

Students are advised to secure the General Junior High School Credential in addition. The requirements may be met at the same time if a suitable academic teaching major is chosen; the minor subject may be omitted. For complete requirements, see page 28.

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.

SAN DIEGO, CALIFORNIA
STATE COLLEGE LIBRARY

REQUIREMENTS FOR THE JUNIOR CERTIFICATE AND THE A.B. DEGREE IN THE PRE-SECONDARY 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, economics, English, geography, history, Romanic languages, zoology, and † commerce.

The junior certificate will be granted on the completion of 64 units of college work and the degree on the completion of 124 units. 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.

LOWER DIVISION

FRESHMAN YEAR	Units Sem. I	Units Sem. II
Social Ethics	—	—
Orientation	1	—
Physical Education	1½	1½
Hygiene	—	—
English ¹	1 or 2	—
Foreign Language ² or electives	3	3
Social Science ³	3-5	3-5
Natural Science ⁴ or electives, ⁵ including preparation for the major	3	3
	2-5	5-7
	16½	16½
SOPHOMORE YEAR		
Physical Education	1½	1½
Foreign Language ²	3	3
Additional year course ⁶	3	3
Social Science ³	3	3
Natural Science ⁴ or electives	3	3
Electives, ⁵ including preparation for the major	3	3
	15½	15½

¹ The English requirement may be satisfied either in the freshman year or in the sophomore year.

² At least 15 units in not more than two languages. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement.

³ To be chosen from the following: Anthropology 50A-50B, Economics 1A-1B, * 11, 18A-18B, * Geography 1-2, * History 4A-4B, * 5A-5B, * 8A-8B, * Political Science 1A-1B, Psychology 1A-1B, Social Economics 50.

⁴ Twelve units required.
A maximum of 6 units of the following high school laboratory courses may be used to meet the natural science requirement when these courses are offered in the third or fourth year of the high school. Each year of the high school course will be counted in satisfaction of 3 units of the requirement: Physics, * Chemistry, * Botany, Biology, Physiology, Zoology.

A minimum of 6 units must be chosen from the following: Astronomy 1, 11, Biology 10A-10B, * Botany 2A, * 2B, * 4, Chemistry 1A-1B, * 6A-6B, * 7-8, * Geology 1A, Physics 2A-2B, 3A-3B, * 1A-1B, * 1C-1D, * Zoology 1A, * 1B, * 100.*

* A total of not more than 12 units of the applied and vocational courses listed below will be counted toward the degree or the junior certificate:

Agriculture 20, 26; Art 61A-61B; Journalism 53A-53B, 153A-153B; Music 1A, 1B, 1C-1D, 19A-19B, 19C-19D, 20A-20B, 20C-20D, 109A-109B, 110A-110B, 119A-119B, 119C-119D, 120A-120B, 120C-120D, 121A-121B, all courses in Applied Music; Physical Education 1A-1B, 1C-1D, 3A-B to 14A-B, 52A-52B, 52C-52D, 52, 53, 54, 55, 56, 151, 155 and all courses with Roman numbers; Secretarial Training A, 1A-1B, 2A, 3A, 5A-5B.

* 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 or Latin C-D.

Mathematics: 1A and 1B or any combination of 3A, 3B, 6, 8, C.

* At least one of the courses marked with an asterisk must be chosen to meet the social science requirement and the natural science requirement, respectively.

† Presecondary Curriculum with Major in Commerce.

In April, 1930, after the arrangement of this Bulletin had been completed, the State Board of Education authorized the presecondary curriculum with a major in Commerce, leading to the A.B. degree. The curriculum with a major in Commerce, leading to the A.B. degree, is the lower division requirements conform to the above pattern except that (1) English 1A-1B must be taken to satisfy the English requirement, (2) a total of only 10 units of foreign language (modern) are needed instead of 15 units, and (3) the social science requirement in the freshman year must be elected from Hist. 4A-4B, 8A-8B, or Pol. Sci. 1A-1B. The upper division requirements stated on page 41 must be met in full.

Presecondary major (lower division): Econ. 1A-1B, 11, 14A-14B (6 units); Geol. 1-2, and Mathematics 2.

Presecondary major (upper division): 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. 160, 161, 162, and 9 units in electives.
B. Banking and Finance: Econ. 131, 133, 134, 135, and 6 units in electives.

C. County and Municipal Administration: Econ. 122, 131, 151, and 3 units electives in Economics; Soc. Econ. 150, 155; Pol. Sci., 6 units. Recommended 6 additional units in Pol. Sci. to complete a minor in Pol. Sci., with Pol. Sci. 1A-1B which should be taken in the lower division; a reading knowledge of French or German.

D. Marketing and Merchandising: Econ. 123, 125, 171, and 9 units electives.

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

LOWER DIVISION REQUIREMENTS FOR 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.

Art

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, 50A-50B or the accepted equivalents, and four elective units in art.

Chemistry

Chemistry 1A-1B with a grade of C or better. Chemistry 6A-6B, 11-12, Physics 2A-2B or 1A-1B, Mathematics C and 3A-3B or their equivalent, and a reading knowledge of German. Recommended: Physics 3A-3B or 1C-1D, Mathematics 4A-4B.

Economics

Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B, 8A-8B; Psychology 1A, 2B; Geography 1, and 2. Recommended: Social Economics 50; Economics 14A-14B, 18A-18B.

English

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

Foreign Languages

Group major: French A-B, C-D and Spanish A-B, C-D.

Geography

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

History

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.

Zoology

Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, 7 and 8, French, German, Botany 2A, 2B, 4, and 5.

* * * * *
Additional lower division majors available for the Junior certificate may be found immediately preceding the course descriptions in the fields of astronomy, journalism, mathematics, physics, political science, psychology and speech arts.

UPPER DIVISION

For requirements in upper division courses, residence requirements, and scholarship requirements for graduation, see regulations under the heading General Requirements for the Degree of Bachelor of Arts.

For restrictions on applied and vocational courses see footnote 5 under lower division requirements.

Political Science 101, American Institutions, or the substitute course in Political Science 113 or History 171A-171B, is required of all candidates for the A.B. degree.

Three units in general psychology must be included in the upper division program if not taken in the lower division.

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 must be chosen from the following list:

Ed. I, Introductory Principles (lower division elective); Ed. CXXI, Principles of Secondary Education; Ed. CVI, Philosophy of Education; Ed. CVII, History of Education; Ed. CVIII, Educational Measurements; Ed. CIX, Educational Administration and Supervision; Ed. CXXX, Educational Psychology; Ed. CXL, Elementary Statistics; Psychology 102C, Genetic Psychology.

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, physical education, physics, political science, psychology, zoology.

The major requirements of one of the following fields must be completed:

Art

Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-B, 150A-B, 152A, 195, and eight 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-B, 16A-B, 117; French A-B, History 4A-B, 111A-B; Speech Arts 55A-B, 155A-B.

Chemistry

All units in excess of fourteen are counted as upper division units when taken in the junior or senior year. The minimum requirement for the major must include Chemistry 7-8, 101-102 and 123-124. The organization of the course for the major student must follow a definite plan approved by the department. The related minor must also be approved by the department.

Economics

Required: Economics 100 and 140, with 9 units selected from the following: Economics 121, 123, 127, 131, 133, 134, 135, and 171. Elective: 3 upper division units in general and applied economics; 6 additional upper division units in any combination of general and applied economics, social economics, and economic geography.

English

Thirty-six units in English, of which not more than six may be in journalism and public speaking and not more than nine in composition. At least fifteen 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.

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.

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 paper, the subject matter to be arranged in consultation with the instructor.

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.

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 pre-professional 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: Pre-legal, pre-medical, pre-dental, social service, commerce, engineering, pre-agricultural, accountancy, secretarial training.

COURSES OF INSTRUCTION

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.

Courses numbered from 1 to 99 and I to XCIX are lower divisions (freshman or sophomore) courses; those numbered 100 and above or C 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 twelve 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 a course will count as lower division credit.

AGRICULTURE

SKILLING

20. Nature Study.

A 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 (2).

SKILLING

26. Home Floriculture.

A study of ornamental gardening to familiarize students with material used in gardening and methods of propagation. A part of the work consists in lath house practice and visits to nurseries, greenhouses and florists. The course is especially designed to furnish a part of the equipment needed by those intending to teach nature study and general science. May not be credited toward the requirement in natural science.

Fall and Spring (2).

ANTHROPOLOGY

Anthropology 50A-50B. Man's Evolutionary History. BRYSON, ROGERS

Prehistoric evidences of man. Classification of races. Primitive society. Prerequisite: Sophomore standing.

Year course (3-3).

ART

Preparation for the presecondary major (lower division), required also 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-B, 50A-B or the accepted equivalents, and four elective units in art.

Presecondary major (upper division): Not less than twenty-four units of upper division art. These shall include Art 112A, 115A-B, 150A-B, 152A, 195, and eight 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-B, 106A-B, 117; French A-B; History 4A-B, 111A-B; Speech Arts 55A-B, 155A-B.

LOWER DIVISION COURSES

Art Appreciation and History

5. Fundamentals.

MOON

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).

50A. Appreciation and History.

MOON

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.

Fall (2).

50B. Appreciation and History.

POLAND, PATTERSON, MOON

The period from the Renaissance through the Modern School, treated in the same manner as in Art 50A.

Spring (2).

Design.

6A. Structure.

MOON, KELLY, BENTON

Fundamentals of design and composition and theory of color. Basis course used as a prerequisite for all advanced art work.

Fall and spring (2).

6B. Structure (continued).

MOON, KELLY, BENTON

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A.

Fall and spring (2).

11A. Industrial Design.

KELLY

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-B.

Fall (2).

11B. Applied Design.

KELLY

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

Spring (2).

14A. Lettering.

KELLY

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.

KELLY

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. Prerequisites: Art 6A, 14A.

Spring (3).

52A. Stage Design.

BENTON

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.

MOON, KELLY

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).

Drawing and Painting

KELLY

A-B. Freehand Drawing.

Semester I: Problems involving perspective are given 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).

KELLY

15A-15B. Painting.

Semester I: The representation of still life, flowers, and figure poses in water color and oils.

Semester II: Landscape and figure painting emphasized. Prerequisite: Art A-B.

Year course (2-2).

Crafts

MOON, BENTON

61A-61B. Elementary Crafts.

Practical problems in the handling of materials through such problems as clay modeling and pottery, paper making, book binding, weaving, basketry, and elementary woodworking, involving such projects as puppet-show construction, toys, etc.

Year course (2-2).

UPPER DIVISION COURSES

Art Appreciation and History

POLAND, PATTERSON

150A-150B. Art Research.

A critical and analytical study for advanced students, involving lectures, original research and discussion at the Fine Arts Gallery. Prerequisite: Art 50B.

Year course (2-2).

Design

KELLY

112A. Composition.

Quick, imaginative composition of natural forms in black and white and color. Prerequisites: Art A-B, 6A-6B, 15A.

Fall (2).

112B. Illustration.

KELLY

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

Spring (2).

152A. Stage Design.

BENTON

See Art 52.

152B. Stage Costume.

KELLY

Costume studied in relation to drama. Original designs for mood and character. Practical problems in designing and decorating costumes and accessories for college productions. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52.

Spring (3).

152C. Stagecraft.

JONES

Study of stage terminology and technique. Scene building and decoration. Study of materials and their treatment for stage effects. Experience in setting and lighting college productions. Prerequisite: Art 52 or 152A.

Spring (3).

195. Home Decoration.

BENTON

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. Life Drawing.*

Charcoal and pencil drawing from the nude model. Short poses for memory training and long poses for drawing and technique.

Fall and spring (2).

115B. Life Drawing and Painting.*

Drawing and painting from nude and costume models. Prerequisite: Art 115A.

Fall and spring (2).

115C. Advanced Painting.*

Painting from nude and costume models. Portraiture. Prerequisites: Art 115A, Art 115B.

ASTRONOMY

Preparation for the major in Astronomy (lower division) required 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.

* These courses can be taken in the night class at the college or at the San Diego Academy of Fine Arts. Special fees will be charged.

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 are made. Especial attention is given to the methods and instruments by means of which astronomical knowledge has been gained. An observatory equipped with a six-inch Alvin Clarke telescope is used for observation. Demonstrations are given with a large spectrometer. Also a good selection of lantern slides is used to illustrate various topics. Prerequisites: Elementary Algebra and Plane Geometry.

Fall and spring (3).

5. Historic Development of Astronomy.

SKILLING

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

(2).

11. Modern Astronomy.

SKILLING

Stars and nebulae. A study of 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.

(3).

BIOLOGICAL SCIENCES

(Biology, Botany, Physiology, Zoology)

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

Preparation for the pre-secondary major in zoology (lower division): Zoology 1A, 1B, and high school chemistry or Chemistry 1A. Recommended: Chemistry 1B, 7 and 8, French, German, Botany 2A, 2B, 4 and 5.

Preparation for the major in Botany (lower division), required for the Junior certificate: Botany 2A, 2B, 4, and Chemistry 1A.

Pre-secondary 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. (The college now offers two years of work in preparation for the botany major.)

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

Fees: A fee of \$2 is required in all laboratory courses in this department. 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 heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. The aim of the course is to acquaint the student with the basic facts of biology. It is designed not only to give the general student an acquaintance with living 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 Biology 10C, Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1A or Botany 2A for credit.

Year course beginning either fall or spring (3-3).

10C. General.

An outline of the main facts and principles of biology and their bearing upon human life. Lectures, demonstrations, and conferences. Designed for students who do not expect to specialize in botany or zoology. Not open for credit to students who have taken Biology 10A-10B, Zoology 1A, or Botany 2B, but students who have taken 10C may elect Zoology 1A or Botany 2A for credit. Two lectures and one conference hour per week.

Fall and spring (3). (Not offered in 1930-1931.)

BOTANY

LOWER DIVISION COURSES

2A. General.

HARVEY

A study of the 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).

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.

(2).

UPPER DIVISION COURSES

102. Plant Geography.

HARVEY

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

Fall (2).

104. Taxonomy.

HARVEY

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

Spring (3).

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. Credit and hours to be arranged in each case. Open to students who have completed at least three units of lower division work in the department with a grade of A or B.

Fall and spring (1 or 2).

PHYSIOLOGY

DALE

100. Physiology of Exercise.

A study of the mechanism of the human body with special reference to the physiology of the motor system. Lectures, demonstration experiments, class discussions, and reports. Prerequisite: Zoology 1B or Biology 10B.

Fall (2). (Not offered in 1930-1931.)

ZOOLOGY

LOWER DIVISION COURSES

HARWOOD

1A. General.

An introduction to animal biology dealing with structure, functions and evolution of animal life. Laboratory work supplements the lectures and is based on the study and observation of living and preserved material. The course, valuable to the general student as well as to the biology specialist, will acquaint one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4).

HARWOOD

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 one hour of lecture per week. Prerequisite: Zoology 1B or Biology 10B.

Given alternate years. (Not offered in 1930-1931.)
Spring (3).

112. Invertebrate.

M. E. JOHNSON

The structure, classification, habits, and life histories of the invertebrates of the region, particularly of the marine fauna. One hour of lecture and six hours of laboratory per week. Prerequisite: Biology 10A-10B or Zoology 1A.

Given alternate years. (Not offered in 1931-1932.)
Fall (3).

114A. Genetics.

DALE

A study of the laws of inheritance in plants and animals. Two lectures per week.

Fall (2).

114B. Evolution.

DALE

A study of the development of theories of evolution. Two lectures per week.

Fall (2).

121. Entomology.

HARWOOD

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

Given alternate years. (Not offered in 1930-1931.)
Spring (3).

113A. Taxonomy and Natural History of the Vertebrates.

HARWOOD

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

Given alternate years.
Fall (3).

113B. Ornithology.

DALE

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 1A-1B, Biology 10A-10B, or 10C.

Spring (3).

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. Credit and hours to be arranged in each case. Open to students who have completed at least three units of lower division work in the department with a grade of A or B.

Fall and spring (1 or 2).

CHEMISTRY

Preparation for the presecondary major (lower division) required also for the Junior certificate: Chemistry 1A-1B, with a grade of C or better. Chemistry 6A-6B, Chemistry 11-12, Physics 2A-2B or 1A-1B, Mathematics C and 3A-3B or their equivalent, and a reading knowledge of German. Recommended: Physics 3A-3B or 1C-1D, Mathematics 4A-4B.

Presecondary major (upper division): All units in excess of fourteen are counted as upper division units when taken in the junior or senior year. The minimum requirement for the major must include Chemistry 7-8, 101-102 and 123-124. The organization of the course for the major student must follow a definite plan approved by the department. The related minor must also be approved by the department.

LOWER DIVISION COURSES

1A-1B. General Chemistry.

PIERCE, ROBINSON

The general principles, laws of chemical combination, and a description of the elements and their important compounds. Two lectures, one quiz and two laboratory sessions per week. The second semester laboratory is qualitative analysis throughout. Prerequisites: High school chemistry or high school physics and trigonometry.

Year course (5-5).

PIERCE

6AA. Qualitative Analysis.

A study of qualitative separations and theories as applied not only to solutions but to ores, slags, alloys, and solid salts. One hour lecture and quiz, three laboratory periods. Prerequisite: Chemistry 1A-1B.

Fall (4).

PIERCE, ROBINSON

6A-6B. Introductory Quantitative Analysis.

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).

ROBINSON

7-8. Organic Chemistry.

A study of the carbon compounds (aliphatic and aromatic) and their derivatives, including the synthesis of different compounds and the proof of their constitution. A general consideration of the subject and the principles involved. Two lectures or quiz and one laboratory period, first semester; one lecture or quiz and two laboratory periods, second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3).

ROBINSON

11-12. Mathematics of Chemical Calculation.

Applied mathematics for chemical calculation, including the calculus as applied to physico-chemical problems. Not counted as upper division credit.

Year course (3-2).

UPPER DIVISION COURSES

101-102. Advanced Inorganic Chemistry.

PIERCE

The laws and theories of elementary work from the viewpoint of physical chemistry. The laboratory work covers such typical items as gas laws, mol weights, laws of combination, ionization, equilibria (homogeneous, heterogeneous and complex) and electrochemistry. Two lectures, two laboratory periods per week. Prerequisites: Chemistry 1A-1B, 6A-6B, 7-8, 11-12.

Year course (4-4).

110. Industrial Chemistry.

ROBINSON

A course of lectures on the application of chemistry to the arts. The most important industries are embraced and principles of evaporation, distillation, sublimation, filtration, crystallization, calcination, refrigeration, use of fuels and water purification are discussed. Prerequisites: Chemistry 6B-8.

Spring (3).

123-124. Organic Preparations.

PIERCE

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

Hours to be arranged.

Year course (2 to 5-2 to 5).

125. History of Chemistry.

PIERCE

Development from time of Geber on reading, report, and seminar basis. Considers both experimental advances and production of the experimenters by the Ostwalds, Remsen, Emil Fisher, and Victor Meyer. Prerequisites: Chemistry 101-102.

Fall and spring (2).

130. Teaching of Chemistry.

PIERCE

Laboratory planning, fitting, optional fields of development beyond basic matter are covered. Relative methods of presentation and a consideration of various texts and manuals are considered. Prerequisites: Chemistry 101-102.

Spring (2).

200. Research.

THE STAFF

Special investigational work on such problems as equipment and the library will permit. Open to students of senior standing only. Prerequisites: Chemistry 102, 124.

Fall and spring (2 to 5).

ECONOMICS

Preparation for the presecondary major in Economics (lower division), required also for the Junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B, 8A-8B; Psychology 1A, 2B; Geography 1 and 2. Recommended: Social Economics 50; Economics 14A-14B, 18A-18B.

Presecondary major (upper division) required: Economics 100 and 140, with 9 units selected from the following: Economics 121, 123, 127, 131, 133, 134, 135, and 171. Elective: Three upper division units in general and applied economics; 6 additional upper division units in any combination of general and applied economics, social economics, and economic geography.

LOWER DIVISION COURSES

1A-1B. Principles of Economics.

CAMERON, A. G. PETERSON

The basic principles of economics: utility wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. The aim of the course is (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).

WRIGHT

11. Economic History of the United States.

A comprehensive survey of American economic development and of national legislation in the field of industry.

Spring (3).

WRIGHT

14A-14B. Accounting.

A knowledge of bookkeeping not required and not advantageous. A study of 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 consolidations; branch store accounting, etc., keeping in view the best modern accounting practice. Eight hours lecture and laboratory.

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

STANTON

18A-18B. Commercial Law.

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

A. G. PETERSON

100. Modern Economic Thought.

A study of 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

A study of the 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

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

Spring (3). (Not offered in 1930-1931.)

125. Advertising and Salesmanship.

Principles and problems.
(4)

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.

Spring (3). (Not offered in 1930-1931.)

131. Public Finance.

CAMERON

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

Spring (3).

133. Corporation Finance.

CAMERON

A study of 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 a study of the investment of personal savings.

Spring (3).

135. Money and Banking.

CAMERON

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). (Not offered in 1930-1931.)

140. Statistical Methods.

BROOM

An introductory study of the statistical measures and devices most commonly used in connection with work in the field of economics. Opportunity given to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Two years of high school algebra.
(3)

151. Personnel Administration.

A. G. PETERSON

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.

Spring (3).

160. Advanced Accounting.

WRIGHT, EVERTS

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.

Fall (3).

161. Cost Accounting.

WRIGHT, EVERTS

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.

Spring (3). (Not offered in 1930-1931.)

162. Accounting Systems.

WRIGHT, EVERTS

The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems.

Spring (3).

171. Transportation.

CAMERON

The development of railway transportation; railroad financing; rates 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.

Fall (3).

Economic Geography

(See Geography)

Social Economics

LOWER DIVISION COURSES

COLDWELL

A. Social Ethics.

Required of all entering students. A course aimed to place the student in contact with ways and means of knowing the fundamental principles of good breeding and social usage. It deals particularly with the relations of women to society—of men to society. One hour per week for 9 weeks.

Fall and spring. No credit.

A. G. PETERSON

1. Orientation:

An orientation course planned to furnish educational and vocational guidance. Lectures and collateral reading. Required of all freshmen who are candidates for the Junior certificate or the degree in the pre-secondary curricula.

Fall and spring (1).

2A. Home Making.

COLDWELL

A general view of the place of the home in society, administration of the household, budgeting of incomes to cover shelter, food, clothing, savings, and social life.

Field work, assigned reference reading, and theme writing required. Lectures, class discussions, recitations.

Fall and spring (2).

10. Introduction to Social Science.

PANUNZIO, A. G. PETERSON

A study of man's descent, race, social organization, ideals of conduct, and civilization. Modern problems.

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 is recommended.

Fall and spring (3).

UPPER DIVISION COURSES

150. Science of Society.

PANUNZIO

An advanced study of social environment, basic sociological concepts and principles, social institutions and organizations, social origins, social progress, social control, and social values. Open to students who have taken Economics 1A-1B or Social Economics 50 and to other properly qualified juniors and seniors by special arrangement. Texts, directed reading, lectures, reports on research.

Fall (3).

151. Social Problems.

PANUNZIO

Progress, social change, and social adjustment; with a detailed study of the problems of population, the family, social problems of economic life and of problems of socialization. Prerequisite: Social Economics 50 or equivalent or Economics 1A-1B. Upper division students who have not met the above prerequisite may be admitted by special permission of instructor.

Spring (3). (Not offered in 1930-1931.)

185. Introduction to Social Investigation.

PANUNZIO

Theory and practice of social science research. Selection of a social or economic topic for investigation by each student, on which he conducts researches, makes frequent reports of progress, and has opportunity to cooperate with the Sociological Laboratory of Neighborhood House. Open by permission of the instructor to such juniors and seniors as have shown in Social Economics 150 an interest in some specific field and a capacity to undertake research.

Spring (3).

Social Psychology

(See Psychology)

Secretarial Training

A. Business Mathematics.

WRIGHT

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

Fall. No credit.

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 typewritten 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 (4-4).

2A. Typewriting.

AMSDEN

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 laboratory practice.

Fall (2).

3A. Office Methods and Appliances.

WRIGHT

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 book-keeping 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.

AMSDEN

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. Stenography.

AMSDEN

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

Spring (3).

EDUCATION

LOWER DIVISION COURSES

1. Education—Introductory Principles.

BROOM

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).

XVII. 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. Procedure in presenting rote songs, ear training, elementary notation, sight singing, and part singing. Conducting. Prerequisite: Music 1A.

Fall and spring (2).

XIX. Art in the Elementary School.

BENTON

A practical application of the elements and principles of art to problems for grades 1-6. Presented through lectures, reports, demonstration lessons and laboratory work. Prerequisite: Art 6A or its equivalent.

Fall and spring (2).

UPPER DIVISION COURSES

CVI. Philosophy of Education.

BROOM

A study of the fundamental biological, psychological, and 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).

CVII. 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.

Fall (3).

CVIII. Educational Measurements.

STEINMETZ

A brief survey of the history of scientific measurement in the elementary field; a study of the nature of intelligence tests, especially of the practical uses of group intelligence tests; the practical use of achievement tests. Simple statistical training in handling data through practical problems. Open only to students who have passed the Fundamentals test.

Fall and spring (3).

CIX. Educational Administration and Supervision.

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 CXXV-B, CVIII or equivalents.

Spring (2).

CX. Educational Organization and Supervision.

BROOM

A study of types of supervision and methods of evaluating and improving teaching. Prerequisites: Education CXXV-B, CVIII or equivalents.

(2)

CXI. English in the Junior High School.

BAGLEY

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.

(2)

CXII. Mathematics in the Junior High School.

RICHARDS

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 Test.

(2)

CXIV. Social Science in the Junior High School.

NIDA

This course for prospective junior high school teachers attempts to meet the problem of 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 securing direct experience and training through a suitable school and other survey and study projects, and of developing a genuine and continuing interest in social and civic problems through observation and reading, will be discussed and illustrated. Prerequisites: Four units of geography and six units of history.

Fall (2).

AULT AND SUPERVISORS

CXVI. Practice Teaching.

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 will be 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.

The practice teaching requirements of a minimum of eight units and a maximum of twelve units are usually reduced for those who have had successful teaching experience. The usual requirement for inexperienced teachers is nine 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 subjects.

Prerequisites: Passing grade in Fundamentals Test; C average in all college work and in work of 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.

CXVIII. Class Management.

CORBETT

A discussion of the problems arising in connection with schoolroom discipline; methods of securing a wholesome school "spirit" and the application of civic principles to school life.

(2)

CXIX. Art in the Junior High School.

BENTON

Art curriculum planning for junior high schools and studio problems and discussion. Prerequisite: Education XIX and preparation for a teaching major in Art.

Spring (2).

CXX. A-B. Science in the Junior High School.

Courses in the content, methods, field work, textbooks, laboratory work, equipment, and reference reading for Junior High School Science. Prerequisite: 18 units of college science.

CXX-A. Biology.

JOHNSON

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

Fall (2).

CXX-B. Physical Sciences.

SKILLING

Prerequisite: Eighteen units of college science including Physics 2A-2B or equivalent and high school or college chemistry.

Spring (2).

CXXI. 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 problem of individual dif-

ferences and to that of articulation of the secondary school with the lower and higher schools. Prerequisites: Psychology 1A and Education I, or equivalents.

Fall and Spring (2).

CXXIV. Romance Languages in the Junior High School. BROWN

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.

(2)

CXXV-A. 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 CXXVIII.

Candidates for the Elementary Credential are required to take both Education CXXV-A and CXXV-B, preferably in the order listed. If candidates for both the elementary and junior high school credentials prefer not to take both Education CXXV-A and CXXV-B, they should consult their advisers concerning their choice. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

Fall and spring (3).

CXXV-B. Curricular Activities—Upper Levels. SMOOR

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 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 CIV. See note under Education CXXV-A concerning these two courses. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

Fall and spring (3).

CXXVI. Children's Literature. CORBETT

A study of 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. A study of source material and its classification. A critical 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 Hours.

Fall and spring (2).

CXXVII. 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 XVII.

Fall (2).

CXXIX. 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).

CXXX. Educational Psychology.

BROOM

A study of the learning process, including such topics as laws and types of learning, curves of learning and of forgetting, economy of learning, amount, rate and limits of improvement, spread of improvement or transfer and experimental studies in learning. Prerequisite: Psychology 1A.

Spring (3).

CXL. Elementary Statistics.

BROOM

An introductory study of the statistical measures and devices most commonly used in connection with educational work. Data taken from typical school conditions. Opportunity given to obtain practice in the use of calculating machines and other aids to computation.

Fall (3).

CXLV. Organization and Administration of Music Education.

L. D. SMITH

Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work. Prerequisites: Education XVII and CXXVII.

Spring (2).

CLX. Vocational Education.

SCUDDER, WRIGHT

Aims and objectives of vocational education of less than college grade.

Spring (3).

CLXI. Junior Business Training.

WRIGHT

The methods and content of the course in the elements of business training as offered in the junior high school.

Fall (2).

CLXIII. Secretarial Training.

AMSDEN

Methods and content of courses in stenography, typing and office procedure.

Fall (2).

CLXIV. Bookkeeping.

WRIGHT

A study of various types of bookkeeping method with considerable study of content.

Fall (2).

ENGLISH

Preparation for the pre-secondary major (lower division), required also for the Junior certificate: English 1A-1B and six units from 56A-56B, 52A-52B. Recommended: A reading knowledge of German or French.

Pre-secondary major in English—Required: Thirty-six units in English, of which not more than six may be in journalism and public speaking and not more than nine in composition. At least fifteen units in upper division courses must be completed in the junior and senior years.

LOWER DIVISION COURSES

1A-1B. Composition.

ADAMS, BAGLEY, F. L. SMITH, 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).

OUTCALT

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.

Year course (3-3).

OUTCALT

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 dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3).

BAGLEY, ADAMS

56A-56B. Survey of English Literature.

A study of the most important masterpieces of English literature from the Anglo-Saxon period to the Victorian age.

Year course (3-3).

WALKER

60. Periodical Literature.

A study of current literature, in content and form, as presented by leading periodicals, with the purpose of promoting intelligence and discrimination in reading with immediate interest. Discussions and written papers dealing with contemporary essays, fiction and poetry.

Fall and spring (3).

UPPER DIVISION COURSES

OUTCALT

101. Modern Prose Fiction.

A study of recent and contemporary fiction in drama, 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. First semester, artistic narrative, with description. Second semester, the essay, the magazine article, criticism, the newspaper syndicate article. Outside readings. Prerequisite: One year of college composition.

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

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.

BAGLEY

A study of Pope, Swift, Johnson, Goldsmith, Fielding, Burns, and their contemporaries as interpreters and teachers of their age.

Spring (3).

119. The Romantic Poets.

ADAMS

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).

121. Browning and His Contemporaries.

WALKER

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

Spring (3).

130A-130B. American Literature.

OUTCALT

Semester I: A survey of American literature and its backgrounds from 1607 to the Civil War. Semester II: Recent American literature, with its backgrounds from the Civil War to the present time, giving special attention to the development of prose fiction in the novel, short story and drama.

Year course (3-3). (Not offered in 1930-1931.)

151. Medieval Literature.

BAGLEY

A study of the literature of the fourteenth century, especially the verse romances, Piers Plowman, 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 74.)

Speech Arts

(See page 87.)

FOREIGN LANGUAGES

Preparation for the major in a foreign language (lower division), required for the Junior certificate: Sixteen units of credit in the language chosen for the major. Recommended: History 4A-4B.

Preparation for the pre-secondary group major in Romanic languages (lower division): French A-B, C-D, and Spanish A-B, C-D.

Pre-secondary group major (upper division): Eighteen upper division units in one language or twelve units in one language and six units in the other.

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.

French

LOWER DIVISION COURSES

CRAMER, PHILLIPS

A-B. Elementary.

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 prose writers; study of the principles of French prosody, with temporary prose writers; study of French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those 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).

L. P. BROWN

C-D. Intermediate.

Reading and composition; study of standard prose as a basis for class work; collateral reading with résumés and written reports in French; 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, should enter French D.

Year course (3-3).

CRAMER

SC. Scientific.

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

E. M. BROWN

101A-101B. Conversation and Composition.

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

Year course (3-3). (Not offered in 1930-1931.)

102A-102B. Introduction to French Classics.

E. M. BROWN

A study of selected works of Corneille, Racine, Moliere, and other writers of the seventeenth century. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Not offered in 1930-1931.)

105A-105B. Modern French Drama.

E. M. BROWN

Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others will be 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).

109A-109B. Survey of French Literature.

E. M. BROWN

A course intended to give a broad foundation for further study in French literature. The chief movements and writers from the sixteenth through the nineteenth centuries are studied, with selected readings. Prerequisite: French D, or its equivalent, with grade of C.

Year course (3-3). (Not offered in 1930-1931.)

German

LOWER DIVISION COURSES

A-B. Elementary.

CRAMER

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 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 work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or three years high school German, or its equivalent. Students with credit for four years high school German, or its equivalent, should enter French 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).

Latin

M. V. JOHNSON

C. Ciceronian Prose.

Reading in Latin and discussion of several of Cicero's orations; consideration of rhetorical devices and historical setting. Review of Latin syntax. Attention to comprehension of the meaning in the Latin order. Not open to students with credit for Cicero in high school. Prerequisite: Two years of high school Latin.

Fall (3).

M. V. JOHNSON

D. Augustan Poetry.

Reading in Latin of portions of Vergil's *Aeneid*, with special attention to literary qualities, metrical form, and the relation of this poem to its time and to other epics. Artistic translation emphasized. Selections from Ovid possibly included. Not open to students with credit for Vergil in high school. Prerequisite: Latin C, or three years of high school Latin.

Spring (3).

Spanish

LOWER DIVISION COURSES

L. P. BROWN, PHILLIPS

A-B. Elementary.

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and resúmenes; 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).

PHILLIPS

C-D. Intermediate.

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

L. P. BROWN

101A-101B. Conversation and Composition.

Prerequisite: Spanish D, or its equivalent, with grade of C. Year course (3-3). (Not offered in 1930-1931.)

L. P. BROWN

102A-102B. Introduction to Spanish Classics.

Reading from several types of classical literature. Gil Blas, 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).

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 1930-1931.)

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.) (Not offered in 1930-1931.)

General Language

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. Open to all students except first semester freshmen.

Spring (2).

GEOGRAPHY

Preparation for the presecondary major in Geography (lower division); required also for the junior certificate: Geography 1 or 1A, 2 or 2A, 3 and Geology 1A. 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, 1A. Introduction to Geography; Elements.

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 are related to human activities. Open to all students.

Geography 1, fall and spring (3).

Geography 1A, fall and spring (2).

2, 2A. 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. Regions are compared with regard to different stages of development. Prerequisite: Geography 1 or 1A.

Geography 2, fall and spring (3).

Geography 2A, fall and spring (2).

3. Elementary Meteorology.

BLAKE

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.

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.

Fall (3).

116D. 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. Prerequisites: Geography 1 or 1A.

Fall (3).

117. Geography of Europe.

CLARK

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

Spring (3).

121. Geography of North America.

CLARK

A study of the natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1 or 1A.

Fall (3). (Not offered in 1930-1931.)

124. Geography of Asia.

SUHL

A study of the cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1 or 1A.

Spring (3).

135A. Geography of the San Diego Area.

CLARK, SUHL

Historical, economic, and other regional factors of the geography of San Diego. Independent regional field work required. Prerequisites: Geography 1, 2 and 3 and Geology 1A.

CLARK, SUHL

135B. Advanced Field Work.

Prerequisite: Geography 135A.

Spring (2).

SUHL

141. Economic Geography.

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 or 1A and 2 or 2A.

Fall (3).

Geology

SUHL

1A. General.

A study of the surface features of the earth, agencies and processes of change, and evolution of topographic forms.

Fall and spring (3).

GERMAN

(See Foreign Languages.)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education.)

HISTORY

Preparation for the presecondary major in history (lower division), required also 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.

Pre-secondary major (upper division): Twenty-four units in upper division course 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 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

A study of 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 is placed 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. The course is based on H. E. Bolton's "Syllabus of the History of the Americas."

Year course (3-3).

UPPER DIVISION COURSES

LESLEY

111A-111B. Ancient History.

A study of the social, economic, political and cultural development of the Greek states, with emphasis upon the growth of democracy, attempts at federal union, imperialism, and Hellenism. The second semester covers 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). (Not offered in 1930-1931.)

LESLEY

121A-121B. Medieval History.

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. This course covers the period 500-1500 A. D.

Year course (3-3).

LESLEY

145A-145B. Europe Since 1789.

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).

LESLEY

146A-146B. Diplomatic History of Europe.

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 is placed upon the period 1870-1930. (Not credited for students with credit for History 151A-151B.)

Year course (3-3). (Not offered in 1930-1931.)

NASATIR

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 and the Pacific.

Year course (3-3). (Not offered in 1930-1931.)

NASATIR

161. South America Since Independence.

A study of the republics of South America. Attention will be directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Time will be devoted to a survey of present-day conditions, political, economic, and social.

Spring (3).

163. Mexico and the Caribbean Countries.

NASATIR

In general this course will follow the plan outlined in History 161. Special attention will be paid to the relations of the United States with these countries, and to the recent developments in Mexico.
Fall (3).

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

LEONARD

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.
Year course (3-3).

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

LEONARD

The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy, the Civil War, and reconstruction; the growth and progress of the United States to the World War.
Year course (3-3). (Not offered in 1930-1931.)

199. Special Course for Advanced Students.

LEONARD

This course is required of all students with a history major in the pre-secondary curriculum, and is 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 required of all men in the freshman year. A study of sex hygiene and the hygienic principles of exercise, bathing, sleep, etc. Investigations by each student of special topics which serve to vitalize the means for protecting and improving the health of the community. Required of all freshmen who are candidates for the Junior certificate or the degree in the pre-secondary curricula.
Fall and spring (1).

2. Personal and Civic (Women).

TANNER

An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene is studied 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 are studied in detail. Reports following personal investigation of at least three major topics are 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 pre-secondary curricula.
Fall and spring (2).

INDUSTRIAL ARTS

3A. Mechanical Drawing.

SCUDDER

Use and care of instruments, lettering, geometrical problems, orthographic projections, revolution, developments, intersections, tracing and blue printing. Nine hours per week.
Fall and spring (3).

21. Descriptive Geometry.

STOVALL

Twenty-one or more plates required and four examinations given. The plates deal with the customary problems of points, lines, planes, perpendiculars, parallels, distances, angles, solids, developments, warped surfaces, intersections, etc. The aim of the course is to create originality, and to develop the ability of the student to visualize and present on paper problems which are theoretical or practical. Prerequisite: Mechanical Drawing 3A or the high school course in mechanical drawing.
Fall (3).

22. Machine Drawing and Design.

STOVALL

Function of machines; motion, force, and work in machines; analysis of mechanism; velocity, acceleration, and effort diagrams; parallel motions, cams; ratchets; toothed wheels; valve gear and design. Three lectures and two drafting periods. Prerequisite: Industrial Arts 21.
Spring (5).

23. Materials of Construction.

ANDERSON

Structural properties and adaptability of various materials commonly used in building construction.
Spring (2).

24. Applied Mechanics.

STOVALL

Problems concerning the action of external forces on rigid bodies; composition and resolution of forces; equilibrium; rectilinear and curvilinear motion; acceleration, linear and angular; harmonic motion; translation and rotation; moment of inertia, kinetic and potential energy; work and power; friction; machines; efficiency. Prerequisites: Mathematics 3A-3B and Physics 1A 1B.
Fall (3).

25. Elements of Electrical Engineering.

STOVALL

A general survey of the field of electrical engineering. Single and poly-phase circuits; power-factor, reactance, generators, motors, transformers, and transmission of power. Prerequisites: Mathematics 3A-3B and Physics 1C.
Spring (3).

JOURNALISM

Preparation for the major in journalism (lower division) required for the junior certificate: History 4A-4B or 8A-8B, Psychology 1A, 2B, Secretarial Training 2A, Political Science 1A-1B, Economics 1A-1B, English 1A-1B, 52A-52B, Journalism 51A-51B. Recommended: English 4A-4B, 60, Speech Arts 1A-1B, Social Economics 50, Anthropology 50A-50B, Economics 18A-18B, Music 2A-2B or Art 5.

The aim of the course in journalism is to offer introductory training in the principles and practice of journalistic writing only after a good foundation in correct speaking and writing of English has been laid, and to prepare for the necessarily broad field of the profession of journalism by introductory work in as many of the fields of literature, history, political science, social science, economics, the arts, etc., as is possible. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

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

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).

Journalism 100. News Editing. F. L. SMITH

Practice in copyreading, proofreading, headline writing, and newspaper makeup. Prerequisite: Journalism 51A-51B or equivalent.

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.

LATIN

(See Foreign Languages)

MATHEMATICS

Preparation for the major (lower division) required for the junior certificate: Mathematics 3A, 3B, 4A, and 6 or equivalent. Recommended: Physics, astronomy, and a reading knowledge of French and German.

LOWER DIVISION COURSES

C. Plane Trigonometry. LIVINGSTON

Instruction in the use of logarithms, slide rule, and calculating machine. Prerequisites: Elementary algebra and plane geometry.

Fall (3).

1A-1B. Elementary Functions. LIVINGSTON

Theory and use of algebraic, trigonometric, logarithmic, and exponential functions; introductory work in analytic geometry and calculus. Prerequisites: Plane geometry and one and one-half years of high school algebra.

Year course (3-3).

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: Plane trigonometry and two years of high school algebra, or equivalent.

Fall (2).

3A-3B. Analytic Geometry and Calculus. LIVINGSTON

A unified course in analytic geometry and differential calculus, together with an introduction to the integral calculus. The work of the first semester is complete in itself and may be elected by those wishing only an introductory course. Prerequisites: Trigonometry, plane and solid geometry, and two years of algebra in the high school. Students lacking one or two semesters of the high school work, should ordinarily take part or all of 1A-1B, before or concurrently with 3A-3B, according to the judgment of the department.

Year course (3-3).

4A-4B. Analytic Geometry and Calculus—Higher Course. STOVALL

Analytic geometry, both plane and solid; calculus, both differential and integral with special emphasis on their practical use in engineering work. Prerequisite: Mathematics 3A-3B.

Year course (3-3).

6. Introduction to Projective Geometry. LIVINGSTON

The construction and study of conic sections by means of perspectives, poles and polars, and involutions. Prerequisite: Plane trigonometry.

Spring (3).

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 and one, one and one half or two years of high school algebra. After the first few weeks the class meetings will be reduced from five to three except for the few who require extra drill and review.

Fall (3).

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, projective geometry, and calculus.

Fall (3). (Not offered in 1930-1931.)

102. Elementary Algebra for Advanced Students. LIVINGSTON

Selected topics viewed from the standpoint of higher mathematics. Prerequisites: Introductory courses in analytic geometry and calculus. Spring (3). (Not offered in 1930-1931.)

104. History of Mathematics.

A non-technical course open to students who have some knowledge of the fundamental ideas of mathematics. (3). (Not offered in 1930-1931.)

111. Theory of Equations.

LIVINGSTON

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisites: Mathematics 3A-3B. Fall (3).

112. Analytic Geometry of Space.

LIVINGSTON

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 4A. Spring (3).

N. B.—Upper division credit will be granted for Mathematics 4B when taken after the sophomore year.

MUSIC

For course in preparation for Public School Music teaching refer to curriculum in Music Education, page 32.

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

LOWER DIVISION COURSES

1A. Sight Singing and Ear Training-Fundamentals of Music.

L. D. SMITH

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. This is the basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrken: Fundamentals of Music. Fall and spring (2).

1B. Sight Singing 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. Spring (2).

1C-1D. Advanced Sight Singing and Ear Training.

L. D. SMITH

Tonal and rhythmic dictation, rhythmic writing and sight singing in two, three, and four parts. Text—Wedge: Advanced ear training and sight singing. Prerequisite: Music 1A-1B. Year course (2-2).

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).

4A-4B. Harmony (Elementary).

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: 1A, or the equivalent.

Three units; both semesters.

19A-B-C-D. Instrumental Ensemble.

BEIDLEMAN

The practice and performance of string, wind, and brass instruments. Year course (1-1).

20A-B-C-D. 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 will be considered in detail; study of song material suitable for junior and senior high school.

Fall or 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. Prerequisites: 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. Prerequisite: Music 4A-4B.

Year course (2-2).

106A-106B. Applied Harmony.

BEIDLEMAN

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

Year course (2-2).

107A. Conducting.

BEIDLEMAN

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

Fall (2).

108A. Instrumentation.

BEIDLEMAN

Theory and practice of arranging music for instrumental combinations. Prerequisite: 4A-4B.

Fall and spring (2).

109A-109B. Violin Class Principles. BEIDLEMAN

Methods and materials for teaching violin in classes. Prerequisite: At least some playing ability on the violin.

Year course (1-1).

110A-110B. Piano Class Principles. SPRINGSTON

Materials and methods used in piano classes in the elementary schools. Prerequisite: At least two years of piano lessons.

Year course (1-1).

119A-B-C-D. Instrumental Ensemble. BEIDLEMAN

(See 19A-B-C-D)

120A-B-C-D. Vocal Ensemble and Chorus. L. D. SMITH

(See 20A-B-C-D)

121A-B. Voice Class Principles. L. D. SMITH

Class methods in the fundamentals of singing, including breathing, tone production, resonance, enunciation and interpretation. Prerequisite: At least one year of vocal study.

Fall and spring (1).

MUSICAL ORGANIZATIONS

11A-11B or 111A-111B. Treble Clef (Women's) Glee Club. L. D. SMITH

11C-11D or 111C-111D. (Second Year)

Membership based on competitive try-outs.

Year course ($\frac{1}{2}$ - $\frac{1}{2}$).

12A-12B or 112A-112B. Men's Glee Club. BEIDLEMAN

12C-12D or 112C-112D. (Second Year)

Membership based on competitive try-outs.

Year course ($\frac{1}{2}$ - $\frac{1}{2}$).

13A-13B or 113A-113B. Orchestra. BEIDLEMAN

13C-13D or 113C-113D. (Second Year)

Year course ($\frac{1}{2}$ - $\frac{1}{2}$).

14A-14B or 114A-114B. Band. BEIDLEMAN

14C-14D or 114C-114D. (Second Year)

Year course ($\frac{1}{2}$ - $\frac{1}{2}$).

Applied Music

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

15A-15B or 115A-115B. Stringed Instruments.

15C-15D or 115C-115D. (Second Year)

16A-16B or 116A-116B. Wind Instruments.

16C-16D or 116C-116D. (Second Year)

17A-17B or 117A-117B. Voice.

17C-17D or 117C-117D. (Second Year)

18A-18B or 118A-118B. Piano (Pipe Organ).

18C-18D or 118C-118D. (Second Year)

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.

1A. (Freshman year.) Self-defense and track and field fundamentals.

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

1B. Tennis, swimming and golf.

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

1C. (Sophomore year.) Instruction and competition in handball, basket ball and speedball.

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

1D. Instruction and competition in volley ball, baseball and track.

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

3A or B. Track. Spring ($\frac{1}{2}$).

4A or B. Baseball. Spring ($\frac{1}{2}$).

5A or B. Basket ball. Spring ($\frac{1}{2}$).

6A or B. Tennis. Fall and spring ($\frac{1}{2}$).

7A or B. Boxing. Fall and spring ($\frac{1}{2}$).

8A or B. Wrestling. Fall and spring ($\frac{1}{2}$).

9A or B. Cross country. Fall ($\frac{1}{2}$).

10A or B. Swimming. Fall ($\frac{1}{2}$).

13A or B. American football. Fall ($\frac{1}{2}$).

14A or B. Gymnastics. Spring ($\frac{1}{2}$).

Courses fulfilling degree requirements for physical education majors and meeting state requirements for teaching credentials in physical education.

C. E. PETERSON

54. Administration of Physical Education.

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, the organization of the leadership of students, the 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).

UPPER DIVISION COURSES

101. Emergencies.

HERREID

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

A study of the mechanics of the human skeletal and muscular systems, and an analysis of their actions in games, formalized activities and general body movements, mechanical strength and durability as influenced by anatomical factors.

(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 (1½).

165. Self-defense Activities.

Both theory and practice of boxing, wrestling and weaponless defense.

Fall and spring (1½).

171. Community Recreation.

C. E. PETERSON AND STAFF

A course 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 campcraft, the elementary training of a scoutmaster being part of the course.

Spring (2).

CLVI-A. Sports Methods.

C. E. PETERSON AND STAFF

Different theories and methods of teaching the more highly organized sports: American football, baseball, basket ball, tennis, and track.

Fall (2).

CLVI-B. 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).

CLXII-A. 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.

Fall (2).

CLXII-B. 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 are given chief attention, although games of low organization are also considered.

Spring (2).

CLXVI. 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 and spring (1).

CLXXII. 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).

CLXXIV. Physical Education Tests and Measurements.

(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 class 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.

LOWER DIVISION COURSES

52A. Formalized Activities and Group Games. RAW AND ASSISTANTS

Fall and spring (½).

52B. Stunts and Apparatus. RAW AND ASSISTANTS

Fall and spring (½).

52C. Athletic Games and Sports. RAW AND ASSISTANTS

Fall and spring (½).

52D. Rhythmical Activities. RAW AND ASSISTANTS

Fall and spring (½).

52. Game Activities.

TANNER

Games suitable for large or small groups in elementary and junior high schools are studied and played. These include rhythmic activities, games of low organization and modified athletic games. Required for the elementary school credential instead of 52C.

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

53. Administration of Physical Education.

TANNER

Consideration of physical education problems, administration of tests, methods of classifying children for play activities, developing leaders, and carrying on intramural ideals. Particular attention is given posture problems. The content and administration of the state program in physical education form the basis of the course.

Fall and spring (2).

55. Swimming.

Required of all freshmen women majoring in physical education.

($\frac{1}{2}$)

56. Tennis.

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

($\frac{1}{2}$)

UPPER DIVISION COURSES

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).

155. Applied Anatomy.

(See Men's Department.)

(2)

158. Stunts and Tumbling.

RAW

A practical course in personal technique. Progressive series of individual, dual, and group stunts, including simple pyramids.

($\frac{1}{2}$)

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. Dancing.

RAW

An introductory course to the fields of interpretative, character, and tap dancing. Particularly adapted to meet needs of prospective physical education teachers.

(2)

170. Recreational Leadership.

TANNER AND STAFF

Fundamentals of recreational leadership are 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)

174. Campcraft.

TANNER AND STAFF

The technique of life in open camp is developed by camp experience. This is 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)

CLVII-A-B. Sports Methods.

RAW

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).

CLX. Formalized Activities.

TANNER

A study of 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)

CLXXXIII. Principles of Physical Education.

TANNER

The relation of physical education to other phases of education, with emphasis upon health and social adaptation.

(2)

CLXXXIV. Physical Education Tests and Measurements.

(2)

CLXXXV. 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.

(2)

CLXXXVII. Individual Program Adaptations.

TANNER

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.

(2)

PHYSICS

Preparation for the major in Physics (lower division) required for the Junior certificate: Required: Physics 1A-1B and 1C-1D; Chemistry 1A-1B; Mathematics C, 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

LOWER DIVISION COURSES

1A-1B. General.

ANDERSON, MOE

Mechanics, properties of matter, and heat. This course aims at 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, one recitation and one laboratory period each week. Prerequisites: High school physics or chemistry and trigonometry.

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).

3A-3B. Physical Measurements.

MOE

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. These exercises are usually taken in conjunction with Physics 2A-2B.

Year course (1-1).

UPPER DIVISION COURSES

106. Optics.

BAIRD

A study of refraction, color, interference, diffraction, polarization, radiation, and optical instruments.

Fall (3). (Not offered in 1930-1931.)

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 1930-1931.)

PHYSIOLOGY

(See Biological Sciences)

POLITICAL SCIENCE

Preparation for the major in Political Science (lower division): required 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.

LEONARD

A comparative study of typical European governments and the government of the United States. The first semester: England, France, Germany, Italy and Switzerland. The second semester: The lesser European states and the United States.

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 and for all candidates for a teacher's credential. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Those taking History 171A-171B or Political Science 113 are excused from this requirement. Attention is called to the fact that this course is offered only during the fall semester.

Fall (2).

111. Theory of the State.

LEONARD

The nature of the state, its organization and activities, and its relation to individuals and to other states.

Fall (3).

113. American Political Ideals.

LEONARD

Underlying theories and principles of American governmental policy.

Spring (3).

PSYCHOLOGY

Preparation for the major in Psychology (lower division) required for the Junior certificate: Required: Psychology 1A and 1B, Zoology 1A-1B or Biology 10A-10B. Recommended: French, German, chemistry, physics.

LOWER DIVISION COURSES

STEINMETZ, BELL

1A. General.

An introductory survey of the entire field of psychology. In the study of normal adult human behavior, and the factors which condition it, a conservative position is taken, leaving the student as nearly as possible unbiased toward the special schools of psychology. Prerequisite to all courses in Psychology and in Education. Not open to Freshmen, but to Sophomores without prerequisite. Not credited for students who have already earned credit for Psychology 2A.

Fall and spring (3).

1B. General.

BELL

An extensive and intensive study of the entire field of adult human behavior. Prerequisite: Psychology 1A.

Spring (3).

2B. Applied.

STEINMETZ, BELL

A general survey of the results of modern psychology applied to self-improvement, and to the work of the lawyer, physician, clergyman, merchant, and educator. The purpose of the course is to give intelligent basis for discrimination in these fields between scientific, legitimate psychology and the pseudo-psychology that is popular because of its simplicity and plausibility or because of its mysticism.

Spring (3).

UPPER DIVISION COURSES

102C. Genetic—Growth and Development of the Child.

BELL, STEINMETZ

A study of the mental and physical growth and development of the child. Special emphasis is given to norms of structure and function as a basis for an interpretation of variations from them. Behavior problems and the growth of personality traits and conditioning factors of physical and mental hygiene are also stressed. Each student makes an intensive study of one child presenting a problem of physical or mental maladjustment. Case study technique is included. Prerequisite: Psychology 1A and Education CVIII taken previously or at the same time.

Fall and spring (3).

105. Clinical (Mental Testing).

BELL

A brief review of the history and rationale of intelligence testing is followed by a discussion of the Stanford revision of the Binet-Simon Test, with demonstration and practice. The best group tests of intelligence are discussed and demonstrated. Experience in giving, scoring and interpreting results is required. The purpose of this course is to give teachers information on the subject, to enable each student to find out if by inclination and endowment he is fitted to do scientific testing and to put him in the way of becoming skilled in giving and interpreting intelligence tests. Prerequisite: Psychology 1A, Education CVIII. Recommended: Psychology 102C and Education CXL.

(3)

145. Social.

The instinctive and reflective side of man, and his adjustments to civilization. Personality, suggestion and imitation, leadership, the crowd, public opinion, social control, etc. Prerequisite: Psychology 1A.

(2-3)

EDUCATIONAL PSYCHOLOGY

(See Education)

SECRETARIAL TRAINING

(See Economics)

SOCIAL ECONOMICS

(See Economics)

SPANISH

(See Foreign Languages)

SPEECH ARTS

Preparation for the major in Speech Arts (lower division) required for the Junior certificate: Speech Arts 1A-1B, Speech Arts 3A and 5A or Speech Arts 55A-55B.

LOWER DIVISION COURSES

1A-1B. Elements of Public Speaking.

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). (Not offered in 1930-1931.)

3A. Advanced Public Speaking.

Survey of public speaking methods. Study of selections; observation of speaking in community. Organization and delivery of speeches. Analysis of individual problems in speech making. Participation in a public debate or oratorical contest, or the presentation of an equivalent amount of practical speaking before public assemblies.

The membership of the class limited to twenty. Consultation with the instructor required previous to registration for the course.

Spring (2). (Not offered in 1930-1931.)

5A. Argumentation and Debate.

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.

Fall (3). (Not offered in 1930-1931.)

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).

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, etc. Special attention given to creative work and practical experience.

Year course (3-3).

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). (Not offered in 1930-1931.)

SURVEYING

1A-1B. Plane Surveying.

ANDERSON

Use and adjustment of surveying instruments, computations and map-making, 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. Prerequisites: Trigonometry and Mechanical Drawing.

Year course (3-3).

2. Summer Class in Surveying.

ANDERSON

Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, 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) (Not offered in 1930-1931.)

ZOOLOGY

(See Biological Sciences)

INDEX

	Page
Administration and Supervision Credentials.....	37
Admission Requirements—	
Advanced Standing.....	17
Freshman Standing.....	17
Special Standing.....	43
Agriculture.....	23
Alumni Association.....	43
Anthropology.....	23
Appointment Service.....	43
Art, Courses in.....	30
Art, Special Credential in.....	46
Astronomy.....	18
Auditors.....	47
Biological Sciences.....	48
Biology.....	48
Botany.....	14
Buildings and Equipment.....	4
Calendar.....	15
Calendar and Registration.....	18
Changes in Registration.....	51
Chemistry.....	20
Classification.....	14
Climate.....	18
College Aptitude Test.....	31
Commerce, Special Credential in.....	13
Culture and Recreation.....	38
Curricula for the A.B. Degree—Presecondary.....	38, 42
For Junior Certificate.....	
Curriculum for the A.B. Degree with—	
General Elementary School Credential.....	26
General Junior High School Credential.....	28
Special Credential in Art.....	30
Special Credential in Commerce.....	31
Special Credential in Music.....	32
Special Credential in Physical Education (Men).....	34
Special Credential in Physical Education (Women).....	36
Special Credential in Physical Education (General).....	24
Degree Requirements—General.....	21
Disqualification.....	52
Economics.....	52
Education.....	26
Elementary School Credential, General.....	22
Eligibility for Extra-Curricular Activities.....	21
Eligibility for Practice Teaching.....	63
English.....	18
English Composition Test.....	22
Examinations—	
At Special Times.....	22
Conduct of.....	22
Special.....	5
Faculty.....	19
Fees.....	65
Foreign Languages.....	65
French.....	18
Fundamentals Test.....	68
General Language.....	68
Geography.....	66
German.....	21
Grade Points.....	

	Page
Health and Physical Education.....	70
Historical Sketch.....	13
History.....	70
Hygiene.....	72
Industrial Arts.....	73
Journalism.....	74
Junior Certificate.....	38, 42
Junior High School Credential, General.....	28
Late Registration.....	18
Latin.....	67
Leave of Absence.....	22
Living Expenses.....	19
Loan Funds.....	19
Lower Division Courses (definition).....	43
Mathematics.....	74
Matriculation.....	17
Music, Courses in.....	76
Music, Special Credential in.....	32
Officers for Consultation.....	19
Organizations.....	23
Physical Education, Courses for—	
Men.....	79
Women.....	81
Physical Education, Special Credential in the—	
Men's Department.....	34
Women's Department.....	36
Physical Examination.....	18
Physiology.....	49
Physics.....	83
Political Science.....	85
Presecondary Degree.....	38
Probation and Disqualification.....	21
Psychology.....	85
Registration.....	17
Routine and Procedure.....	15
Scholarship Grades and Grade Points.....	21
Secretarial Training.....	57
Self-Help and Loan Funds.....	19
Social Economics.....	55
Social Relations Test.....	18
Spanish.....	67
Speech Arts.....	87
Speech Test.....	18
Standards of Health, Scholarship, and Character.....	15
Study-Lists Limits.....	20
Supervision Credential.....	37
Surveying.....	88
Tests.....	18
Units of Work and Study-Lists Limits.....	20
Upper Division Courses (definition).....	43
Withdrawals from Class.....	22
Zoology.....	49