UNIVERSITY OF CALIFORNIA

BULLETIN

General Catalogue

Primarily for Students in the
DEPARTMENTS AT LOS ANGELES

Fall and Spring Terms • 1942-1943

For sale by the
STUDENTS COÖPERATIVE BOOK STORE, LOS ANGELES
PRICE, TWENTY-FIVE CENTS
UNIVERSITY OF CALIFORNIA BULLETIN
PUBLISHED AT BERKELEY, CALIFORNIA

Volume XXXVI : October 21, 1942 : Number 14

A series in the administrative bulletins of the University of California. Entered July 1, 1911, at the Post Office at Berkeley, California, as second-class matter under the Act of Congress of July 16, 1894. Issued monthly from November to June, four times a month in July, August, and September, and two times a month in October.

GENERAL INFORMATION

Letters of inquiry concerning the University of California at Los Angeles should be addressed to the Registrar, University of California, 405 Hilgard Avenue, Los Angeles, California.

Letters of inquiry concerning the University in general should be addressed to the Registrar, University of California, Berkeley, California.

For the list of bulletins of information concerning the several colleges and departments, see pages 3 and 4 of the cover.

In writing for information please mention the college, department, or study in which you are chiefly interested.

The registered cable address of the University of California at Los Angeles is UCLA.

Published by
UNIVERSITY OF CALIFORNIA PRESS
BERKELEY AND LOS ANGELES
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The Three-Term Program of the University

In the belief that students of college age should be given every opportunity to equip themselves adequately and promptly for the service of the Nation in wartime, the University of California has adopted a three-term calendar.

Freshmen and other new students will be admitted in June, October, and February, and may pursue their studies without interruption. By attending three terms continuously until the college course is completed, the time normally required to secure the bachelor's degree will be reduced by at least one year. This plan will make it possible for most students to earn their degrees before being called into military service.

The shortening of the program for the bachelor's degree will in no way affect the standard of work to be offered. The three terms will be alike in quality of instruction, variety of courses, facilities for research, and other essentials of sound education.

It should be understood that the three-year program is not mandatory for any student; it is possible, as in previous years, to complete the regular curricula leading to the bachelor's degrees by attending two terms a year for four years.
CALENDAR

FALL TERM

1942

Sept. 28, Monday  Applications for admission to undergraduate or graduate study in October, 1942, with complete credentials, should be filed on or before this date to avoid penalty of late application fee.

Oct. 7, Wednesday  9:00 A.M., Examination in Subject A.

Oct. 7, Wednesday
Oct. 8, Thursday  Consultation with advisers by new students.

Oct. 9, Friday

Registration of old students and reentransts (graduates and undergraduates):
8:00 A.M.- 9:30 A.M.—A-E,
9:30 A.M.-11:00 A.M.—F-K,
12:00 M.- 1:30 P.M.—L-R,
1:30 P.M.- 3:00 P.M.—S-Z,
3:00 P.M.- 4:00 P.M.—All initials.

Oct. 10, Saturday

Registration of new students (graduates and undergraduates):
8:00 A.M.—9:30 A.M.—A-L,
9:30 A.M.—11:00 A.M.—M-Z,
11:00 A.M.—1:00 P.M.—All initials.
Registration of any student, old or new:
11:00 A.M.—1:00 P.M.

Oct. 12, Monday  Instruction begins.

Oct. 15, Thursday  Last day to file registration books or to change study lists without fee.

Oct. 17, Saturday  9:00 A.M., Special examination in Subject A.

Oct. 26, Monday  Last day to file application for admission to candidacy for the master's degree or for the secondary teaching credentials in February, 1943.

Oct. 26, Monday  Last day to add courses to study lists.

Nov. 14, Saturday  Last day to file without fee, notice of candidacy for the bachelor's degree to be conferred in February, 1943.

Nov. 26, Thursday  Thanksgiving Day: an academic and administrative holiday in all departments.

Nov. 28, Saturday  End of mid-term period.

Dec. 5, Saturday  Last day to drop courses from study lists without penalty of grade F (failure).

Dec. 5, Saturday  Last day to file without fee, applications for supervised teaching.

Dec. 25, Friday  Christmas recess begins.

1943

Jan. 4, Monday  Classes begin after Christmas recess.

Feb. 1, Monday
Feb. 6, Saturday  Final examinations, fall term.

Feb. 6, Saturday  Last day of fall term.
Calendar 9

1943 SPRING TERM

Feb. 1, Monday Applications for admission to undergraduate or graduate study in February, 1948, with complete credentials, should be filed on or before this date to avoid penalty of late application fee.

Feb. 10, Wednesday 9:00 A.M., Examination in Subject A.

Feb. 10, Wednesday Consultation with advisers by new students.

Feb. 11, Thursday Registration of old students and reentrants (graduates and undergraduates):

Feb. 12, Friday

Feb. 18, Saturday Registration of new students (graduates and undergraduates):

Feb. 15, Monday Instruction begins.

Feb. 18, Thursday Last day to file registration books or to change study lists without fee.

Feb. 20, Saturday 9:00 A.M., Special Examination in Subject A.

Feb. 20, Saturday Last day to file applications for California Alumni Association Scholarships.

Feb. 20, Saturday Last day to file applications for fellowships and graduate scholarships for the academic year 1943-1944, tenable at Los Angeles.

Feb. 27, Saturday Last day to file application for admission to candidacy for the master's degree or for the secondary teaching credentials in June or in August, 1943.

Mar. 1, Monday Last day to add courses to study lists.

Mar. 20, Saturday Last day to file without fee, notice of candidacy for the bachelor's degree to be conferred in June, 1943.

Mar. 21, Sunday Charter week.

Mar. 22, Sunday Last day to file applications for undergraduate scholarships for the academic year, 1943-1944.

Apr. 1, Thursday End of mid-term period.

Apr. 10, Saturday Last day to drop courses from study lists without penalty of grade F (failure).

Apr. 10, Saturday Last day to file without fee, applications for supervised teaching.

Apr. 10, Saturday Last day to file notice of candidacy for the bachelor's degree to be conferred in June, 1943.

May 10, Monday Last day for filing in final form with the committee in charge, theses for the master's degree to be conferred in June, 1943.

May 81, Monday Final examinations, spring term.

June 5, Saturday Commencement week.

June 8, Sunday

June 12, Saturday SUMMER TERM, 1943*

June 18, Friday Registration.

June 19, Saturday Instruction begins.

June 21, Monday

* Probable dates.
THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

CULBERT L. OLSON, LL.B.
Governor of California and President of the Regents
Sacramento

ELLIS E. PATTERTON, A.B.
Lieutenant-Governor of California
State bldg, Los Angeles
417 Montgomery st, San Francisco

GORDON H. GARRAND
Speaker of the Assembly
Woodlake

WALTER F. DEXTER, M.A., Ed.D., LL.D.
State Superintendent of Public Instruction
Library and Courts bldg, Sacramento

STEWART MEIGS, B.S.
President of the State Board of Agriculture
Carpinteria

GEORGE U. HIND
President of the Mechanics Institute
280 California st, San Francisco

PAUL K. YOST, B.S.
President of the California Alumni Association
Security-First National Bank, Los Angeles

ROBERT GORDON SPEOUL, B.S., LL.D., Litt.D.
President of the University
250 Administration bldg, Berkeley
208 Administration bldg, Los Angeles

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the years indicated in parentheses. The names are arranged in the order of original accession to the Board.

JAMES KENNEDY MOFFITT, B.S., LL.D.
(1948)
599 Eighth st, San Francisco

CHARLES ADOLPH RAMM, B.S. (1944)
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1958)
425 S Windsor blvd, Los Angeles

CHESTER HARVEY BOWELL, Ph.B., LL.D.
(1952)
149 Tamalpais rd, Berkeley

MORTIMER FLEISHMACKER (1950)
155 Sansome st, San Francisco

GEORGE I. COCHRAN, LL.D. (1946)
Hotel Biltmore, Los Angeles

JOHN FRANCIS NEYLAN, LL.D. (1944)
Crocker First National Bank bldg, San Francisco

CHARLES COLLINS TRAGUE, LL.D. (1946)
Santa Paula

SIDNEY M. EHRMAN, B.L., LL.B., (1948)
700 Nevada Bank bldg, San Francisco

AMADEO PETER GIANNINI (1950)
Bank of America, 300 Montgomery st, San Francisco

FRED MOYER JORDAN, A.B. (1954)
427 W Fifth st, Los Angeles

FREDERICK W. ROMAN, Ph.D., Litt.D.
(1956)
214 Lomas dr, Los Angeles

EDWIN W. PAULEY, B.S. (1954)
950 S Broadway, Los Angeles

BRODIE E. AHLPFOUT, A.B. (1956)
689 S Spring st, Los Angeles

EDWARD H. HELLEA, A.B. (1958)
600 Market st, San Francisco
Officers of the Regents

OFFICERS OF THE REGENTS

Governor Culbert L. Olson, LL.B.
President
Sacramento

---
Chairman

Robert M. Underhill, B.S.
Secretary and Treasurer
2400 Administration bldg, Berkeley

**John U. Calkins, B.L., J.D.
Attorney
910 Crocker bldg, San Francisco

James H. Corley, B.S.
Comptroller
239 Administration bldg, Berkeley

** On war leave.

Deming G. Maclise, B.S.
Assistant Secretary
101 Administration bldg, Los Angeles

George D. Mallory, A.B.
Assistant Treasurer
240b Administration bldg, Berkeley

Ashley H. Conard, B.L., J.D.
Attorney for the Regents (pro tempore)

Reginald H. Linforth, A.B., J.D.
Associate Attorney for the Regents (pro tempore) and Attorney in Residence
Matters
910 Crocker bldg, San Francisco

Winfred W. Holstrom
Assistant Secretary
240b Administration bldg, Berkeley
THE UNIVERSITY OF CALIFORNIA

Note.—General information about instruction at Berkeley and Davis may be obtained by addressing the Registrar, University of California, Berkeley; for information about instruction at Los Angeles, address the Registrar, University of California Los Angeles; information concerning the schools and colleges in San Francisco may be obtained by addressing the deans in charge. University publications available to the inquirer are listed on the cover pages of this bulletin.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

President of the University:
Robert G. Sproul
208 Administration bldg, Los Angeles
250 Administration bldg, Berkeley

Vice-President and Provost of the University:
Monroe E. Deutsch
250 Administration bldg, Berkeley

Secretary and Treasurer of the Regents:
Robert M. Underhill
240 Administration bldg, Berkeley
George D. Mallory, Assistant Treasurer
240 Administration bldg, Berkeley
Deming G. Maclise, Assistant Secretary
101 Administration bldg, Los Angeles

Attorney for the Regents:
**John U. Calkins, Jr.
Ashley H. Conard, Attorney (pro tempore)
Reginald H. Linforth, Associate Attorney (pro tempore) and Attorney in Residence Matters
910 Crocker bldg, San Francisco

Business Office:
James H. Corley, Comptroller and General Business Manager
239 Administration bldg, Berkeley
Deming G. Maclise, Business Manager
101 Administration bldg, Berkeley
William J. Norton, Business Manager
311 Administration bldg, Berkeley
F. Stanley Duria, Assistant Comptroller
Medical Center, San Francisco
Ira F. Smith, Assistant Comptroller and Business Manager
College of Agriculture, Davis

Chief Accounting Officer:
Olof Lundberg
401 Administration bldg, Berkeley

Personnel Officer:
Boynton Kaiser
229 Administration bldg, Berkeley

Registrars:
Harry M. Showman
146 Administration bldg, Los Angeles

**Thomas B. Steel
William O. Pomeroy
Constance M. Steel, Assistant Registrar
128 Administration bldg, Berkeley

Deans of the Graduate Divisions—
Southern Section:
Bennet M. Allen, Acting Dean
186 Administration bldg, Los Angeles

Northern Section:
Charles B. Lipman
207 Administration bldg, Berkeley

Deans of Students:
Earl J. Miller, Dean of Undergraduates
202 Administration bldg, Los Angeles
Helen M. Laughlin, Dean of Women
Anne Stonebraker Kern, Assistant Dean of Women
299 Administration bldg, Los Angeles

**Hurford E. Stone, Dean of Students
Edwin O. Voorhies, Dean of Students
Elmer O. Goldsworthy, Assistant Dean
Brutus K. Hamilton, Assistant Dean
James A. Hamilton, Assistant Dean
Mary B. Davidson, Dean of Women
Allee G. Hoyt, Associate Dean of Women
Catherine DeMotte Greene, Assistant Dean of Women
201 Administration bldg, Berkeley

Deans of the Colleges of Letters and Science:
Gordon S. Watkins
Edgar L. Lasler, Assistant Dean
John W. Olmsted, Assistant Dean
292 Administration bldg, Los Angeles

Joel H. Hildebrand
Charles A. Anderson, Assistant Dean
Richard M. Eakin, Assistant Dean
Robert A. Nisbet, Assistant Dean
Stephen C. Pepper, Assistant Dean
210 Administration bldg, Berkeley

** On war leave.
Dean of the College of Agriculture:
Claude B. Hutchison

Dean of the College of Agriculture—Continued
**Stanley B. Freeborn, Assistant Dean
101 Giannini Hall, Berkeley

William H. Chandler, Assistant Dean
148 Physio-Biology bldg, Los Angeles

Knowles A. Ryerson, Assistant Dean
College of Agriculture, Davis

Dean of the College of Applied Arts:
Frederick W. Cozens
212 Josiah Royce Hall, Los Angeles

Dean of the College of Commerce:
Ewald T. Grether
120 South Hall, Berkeley

Dean of the College of Business Administration:
Howard S. Noble
250 Josiah Royce Hall, Los Angeles

Dean of the College of Chemistry:
Wendell M. Latimer
108 Gilman Hall, Berkeley

Dean of the College of Engineering:
Donald H. McLaughlin
132 Hearst Mining bldg, Berkeley

Dean of the Schools of Education:
Edwin A. Lee
231 Education bldg, Los Angeles

Dean of the Schools of Education—Continued
Frank N. Freeman
206 Haviland Hall, Berkeley

Dean of the School of Jurisprudence:
Alexander M. Kidd, Acting Dean
107 Boalt Hall of Law, Berkeley

Dean of Hastings College of the Law:
David E. Snodgrass
California bldg, 515 Van Ness av, San Francisco

Dean of the Medical School:
Francis S. Smyth
Medical Center, Third and Parnassus avs, San Francisco

Dean of the College of Dentistry:
Willard C. Fleming
Medical Center, Third and Parnassus avs, San Francisco

Dean of the College of Pharmacy:
Carl L. A. Schmidt
Troy C. Daniels, Assistant Dean
Medical Center, Third and Parnassus avs, San Francisco

Director of Admissions:
Merton E. Hill
Hiram W. Edwards, Associate Director
121 Administration bldg, Los Angeles
127 Administration bldg, Berkeley

Elizabeth M. Roberts, Assistant Director
117 Administration bldg, Los Angeles
Sue M. Love, Assistant Director
127 Administration bldg, Berkeley

Director of Relations with Schools:
Hiram W. Edwards
Merton E. Hill, Associate Director
William F. Meyer, Associate Director
Harrison M. Karr, Assistant Director
121 Administration bldg, Los Angeles
119 Administration bldg, Berkeley

Director of University Extension:
Baldwin M. Woods
Boyd B. Rakestraw, Associate Director
801 California Hall, Berkeley

Director of the School of Architecture:
Warren C. Perry
A Architecture bldg, Berkeley

Director of the School of Librarianship:
Sydney B. Mitchell
217 Library, Berkeley

Director of the George Williams Hooper Foundation (for Medical Research):
Karl F. Meyer
Medical Center, Third and Parnassus avs, San Francisco

Director of the School of Nursing:
Margaret A. Tracy
Pearl Castile, Assistant Director
8578 Life Sciences bldg, Berkeley
Medical Center, Third and Parnassus avs, San Francisco

Director of the School of Optometry:
Ralph S. Minor
301 Le Conte Hall, Berkeley

Director of the Lick Observatory:
Joseph H. Moore
Lick Observatory, Mount Hamilton

Director of the Scripps Institution of Oceanography:
Harald U. Sverdrup
Scripps Institution of Oceanography, La Jolla

** On war leave.
Administrative Officers

**Administrative Officers—Concluded**

**Director of the Agricultural Experiment Station:**
Claude B. Hutchison
101 Giannini Hall, Berkeley

**Stanley B. Freeborn, Assistant Director**
101 Giannini Hall, Berkeley

**Director of Citrus Experiment Station:**
Leon D. Batchelor
Citrus Experiment Station, Riverside

**Director of the California School of Fine Arts:**
William A. Gaw, Acting Director
800 Chestnut st, San Francisco

**Librarians:**
John E. Goodwin
234 Library, Los Angeles

Harold L. Leupp

Jerome K. Wilcox, Associate Librarian
Jens Nyholm, Assistant Librarian
208 Library, Berkeley

**Manager of the Bureau of Guidance and Placement:**
Herman A. Spindt
123 Education bldg, Los Angeles

102 Haviland Hall, Berkeley

Mildred E. Foreman, Manager, Bureau of Occupations

39 Administration bldg, Los Angeles

Vera Christie, Manager, Bureau of Occupations
South Hall Annex, Berkeley

**Manager of the University Press:**
Samuel T. Farquhar
University Press, Berkeley

**University Physicians:**

William J. Norris
Donald S. MacKinnon, Physician for Men
15 Library, Los Angeles

William G. Donald
Ruby L. Cunningham, Senior Physician
Ernest V. Cowell Memorial Hospital, Berkeley

Superintendent of the University Hospital:
F. Stanley Dune
University Hospital, Medical Center, San Francisco

**Superintendents of Grounds and Buildings:**

A. E. Davie
100 Mechanic Arts bldg, Los Angeles

E. A. Hugill
Grounds and Buildings, Berkeley

**On war leave.**
THE UNIVERSITY OF CALIFORNIA
FOUNDED 1868

THE UNIVERSITY OF CALIFORNIA is composed of academic colleges, professional schools, divisions, departments of instruction, museums, libraries, research institutes, bureaus, and foundations, and the University of California Press, situated on seven different campuses throughout the State, namely: Berkeley, Los Angeles, San Francisco, Davis, Riverside, Mount Hamilton, and La Jolla. A list of the divisions on each campus follows:

I. AT BERKELEY

The Colleges of
Letters and Science,
Agriculture (including the Department of Agriculture, the Agricultural Experiment Station, the Agricultural Extension Service, and the Giannini Foundation of Agricultural Economics),
Chemistry,
Commerce,
Engineering,
Pharmacy (first year of the B.S. curriculum).

The Schools of
Architecture,
Education,
Jurisprudence,
Librarianship,
Medicine (first year),
Optometry.

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, and providing lectures, recitals, moving pictures and other material for visual instruction).

The California Museum of Vertebrate Zoology.
The Museum of Paleontology.
The Anthropological Museum.
The Institute of Child Welfare.
The Institute of Experimental Biology.
The Bureau of International Relations.
The Bureau of Public Administration.
The William H. Crocker Radiation Laboratory.
The University of California Press.
II. AT LOS ANGELES
University of California at Los Angeles:
The College of Letters and Science,
The College of Business Administration,
The College of Applied Arts,
The College of Agriculture, including courses of instruction and the Agricultural Experiment Station's activities at Los Angeles,
The Lower Division in Engineering,
The School of Education,
The Summer School of Surveying,
The Bureau of Governmental Research,
The Senator William Andrews Clark Memorial Library.
The Los Angeles Medical Department. Graduate instruction only.

III. AT SAN FRANCISCO
The Medical School (second, third, and fourth years, including the University Hospital).
The School of Nursing.
The George Williams Hooper Foundation (for Medical Research).
The College of Dentistry.
The College of Pharmacy.
The California School of Fine Arts.
The Hastings College of the Law.

IV. AT DAVIS
The College of Agriculture, including the University Farm and certain divisions of the Department of Agriculture and the Agricultural Experiment Station.

V. AT RIVERSIDE
The College of Agriculture, including the Citrus Experiment Station.

VI. AT MOUNT HAMILTON
The Lick Astronomical Department (Lick Observatory).

VII. AT LA JOLLA
The Scripps Institution of Oceanography.

ELSEWHERE
In addition to the principal divisions named above, the University maintains the W. K. Kellogg Institute of Animal Husbandry at Pomona and several field stations of the Agricultural Experiment Station in various parts of the State.
HISTORY AND ORGANIZATION

The establishment of the University of California in 1868 came as the result of three separate movements—one originating in private initiative, one in State action, and one in Federal action.

Private action owed its inception to the foresight of the Reverend Henry Durant, who in 1853 opened in Oakland the Contra Costa Academy, under the auspices of the Presbytery of San Francisco and of the Congregational Association of Oakland. The name was soon changed to College School, in order to signify that the undertaking was only preparatory to a projected college. In 1855 the institution was incorporated under the name of College of California and was formally opened in 1860. Classes were graduated from 1864 to 1869, inclusive. In 1856 the College obtained a tract of land five miles to the north of Oakland and ten years later the name of Berkeley was given to the townsite about the new college campus.

State action had its start in the Constitutional Convention of 1849, which incorporated into the fundamental law recognition of and provision for a State University. There was constant public agitation down to 1868 for making the provisions effective.

Federal action began in 1853 when Congress gave the State 46,000 acres of land for a "seminary of learning." In 1862 the Morrill Act provided an additional grant of public lands for the establishment of an Agricultural, Mining, and Mechanical Arts College.

These three forces began working together to one end—the establishment of a University of California. The College of California contributed its buildings and four blocks of land in Oakland and its 160 acres of land in Berkeley; the Federal Government, the congressional gift of 150,000 acres of public lands; and the State, its property accumulated for the purpose, together with new legislative appropriations. The legislative act creating the University of California was signed by Governor Henry H. Haight on March 23, 1868, and the new institution opened its doors for instruction in September, 1869.

The first President was Henry Durant (1869-72). He was followed by Daniel Coit Gilman (1872-75), John LeConte (1875-81), William T. Reid (1881-85), Edward S. Holden (1885-88), Horace Davis (1888-90), Martin Kellogg (1890-99), Benjamin Ide Wheeler (1899-1919), David Prescott Barrows (1919-23), William Wallace Campbell (1923-30), Robert Gordon Sproul (1930-).

The University of California, under the terms of the Constitution of the State, is a public trust, charged with the function of providing education of collegiate grade. Through aid from the State and Federal governments, and by private gifts, it provides instruction in literature and the arts, in the sciences, and in the professions of architecture, engineering, teaching, law, medicine, dentistry, nursing, optometry, and pharmacy. Instruction in all of the colleges of the University is open to all qualified persons, without distinction of sex.
The administration of the University of California is entrusted, under the State Constitution, to a corporation styled the Regents of the University of California, consisting of the Governor, the Lieutenant-Governor, the Speaker of the Assembly, the State Superintendent of Public Instruction, the President of the State Board of Agriculture, the President of the Mechanics Institute of San Francisco, the President of the California Alumni Association, and the President of the University as members ex officio, and sixteen other regents appointed by the Governor. This corporation has "full powers of organization and government, subject only to such legislative control as may be necessary to insure compliance with the terms of the endowments of the University and the security of its funds." The corporation is also vested with the legal title and the management and disposition of the property of the University and the property held for its benefit, and has the power to take and hold, either by purchase, or by donation or by gift, testamentary or otherwise, or in any other manner, without restriction, all real and personal property for the benefit of the University or incidental to its conduct. It is further authorized to delegate to its committees or to the faculty or to others such authority or functions in the administration of the University as it may deem wise. Pursuant to this authority it has created an academic administrative body called the Academic Senate.

The Academic Senate consists of the President, Vice-Presidents, Deans, Directors, the Registrar (at Berkeley and Los Angeles), the University Librarians (at Berkeley and Los Angeles), and all professors and instructors giving instruction in any curriculum under the control of the Academic Senate. Instructors of less than two years' service are not entitled to vote.

The Academic Senate is divided into two sections: The Northern Section includes members of the Senate whose duties lie primarily in Berkeley, San Francisco, or Davis, or at Mt. Hamilton; the Southern Section includes members of the Senate whose duties lie primarily in Los Angeles, Riverside, or La Jolla. The President of the University is chairman, ex officio, of each Section of the Academic Senate.

The Senate, subject to the approval of the Regents, determines the conditions for admission, for certificates, and for degrees. It authorizes and supervises all courses of instruction in the academic and professional colleges and schools. It recommends to the Regents all candidates for degrees and has general supervision of the discipline of students.
HISTORY AND DEVELOPMENT

In March, 1881, the legislature of California created the Los Angeles State Normal School. Five acres of ground were donated at the corner of Fifth Street and Grand Avenue—the present site of the Los Angeles City Library. Instruction was begun in August, 1882, with a faculty of three teachers and an enrollment of sixty-one students.

Following a legislative appropriation in 1911, a new site of twenty-five acres on North Vermont Avenue was obtained for the Normal School. In the fall of 1913 the cornerstone was laid for the first building, Millsapgh Hall, named to commemorate Jesse F. Millsapgh, who was president during the period 1904–1917. The School was moved into its new quarters in September, 1914, where it existed until the summer of 1919.

Through legislative action made effective by the Governor's signature on July 24, 1919, the grounds, buildings, and records of the Los Angeles State Normal School were transferred to The Regents of the University of California. In September of that year, university instruction was begun under the name Southern Branch of the University of California. The educational facilities were expanded to include the freshman and sophomore years in Letters and Science beginning with September, 1919; the third and fourth years with September, 1923 and 1924, respectively. The degree of Bachelor of Arts was conferred in the College of Letters and Science for the first time in June, 1925. In 1922 the teacher-training courses were organized as a Teachers College. The degree of Bachelor of Education was conferred for the first time in June, 1923.

On February 1, 1927, the name of the institution was changed to University of California at Los Angeles.

The University is now engaged in building a new physical plant upon a campus of three hundred eighty-four acres which was bought and presented to the University by the cities of Santa Monica, Venice, Beverly Hills, and Los Angeles. The removal to the new site from North Vermont Avenue took place in August, 1929, and instruction in all departments was begun in the new buildings on September 23, 1929.

By action of the Regents work in the College of Agriculture was established at Los Angeles in November, 1930. The College of Business Administration was established in June, 1935, with instruction beginning in September, 1936; the College of Applied Arts and the School of Education were established July 1, 1939.

On August 8, 1933, graduate study at the University of California at Los Angeles leading to the degrees of Master of Arts and Master of Science, and to the Certificate of Completion for the general secondary and junior college
teaching credentials, was authorized by the Regents. Accordingly, in September, 1933, one hundred fifty candidates were admitted to work in the following fields: botany, economics, education, English, geography, geology, history, mathematics, philosophy, physics, political science, psychology, and zoology; the first master's degrees were conferred in June, 1934. To the fields first made available there have been added fifteen others. Beginning in September, 1936, candidates for the Ph.D. degree were accepted in the fields of English, history, mathematics, and political science; to these have been added chemistry, geology, Germanic languages, horticultural science, microbiology, philosophy, physical-biological science, physics, physics-meteorology, psychology, Romance philology, and zoology; the first doctorate was conferred in 1938. It is expected that other fields will be available in subsequent years, as circumstances warrant. In September, 1941, candidates for the degree of Doctor of Education were accepted.

SITE OF THE CAMPUS—CLIMATE

The Los Angeles campus of the University of California is situated on the lower south slope of the Santa Monica Mountains which overlook Hollywood and the western part of Los Angeles; the Pacific Ocean, visible from the grounds, is five miles distant in a direct line. The warmest month of the year is August, with a mean temperature of about 68°; the coolest is January, with a mean temperature of 49°; the annual rainfall is about 18 inches, mostly between December and March. Proximity to the ocean insures an even temperature without extremes; the daily range of variation is about fifteen degrees.

The University campus is within the corporate limits of the city of Los Angeles, west of Beverly Hills. It extends along the south side of Sunset Boulevard from Hilgard Avenue to Veteran Avenue, and is bounded on the south by LeConte and Gayley avenues; automobiles should turn south from Sunset Boulevard at Hilgard Avenue, or north from Wilshire Boulevard at Westwood Boulevard.

The campus may be reached by bus as follows: From Los Angeles business district (Fifth and Hill Streets), Los Angeles Motor Coach line, via Wilshire Boulevard, and Pacific Electric Co. Castellammare bus line, via Sunset Boulevard. From Los Angeles, western terminus of Pico car line, Bay Cities Transit Co. bus, via Pico and Westwood boulevards. From Hollywood (North Vermont Avenue and Hollywood Boulevard), Pacific Electric Co. bus, via Hollywood and Sunset boulevards. From Santa Monica, Pacific Electric Co. bus, via Wilshire Boulevard, and Bay Cities Transit Co. bus, via Santa Monica Boulevard.

Students coming to Los Angeles by rail may ordinarily obtain tickets and check baggage to West Los Angeles without additional cost if done at the time when the railroad ticket is purchased. The cost of carfare and baggage transfer from Los Angeles is thereby considerably reduced.
SURVEY OF CURRICULA

Instruction at the University of California at Los Angeles is offered in (a) the College of Letters and Science, with curricula leading to the degrees of Associate in Arts and Bachelor of Arts, curricula of the earlier years of the College of Dentistry, of the Medical School, and of the College of Chemistry; (b) the College of Business Administration, with curricula leading to the degrees of Associate in Arts and Bachelor of Science; (c) the College of Applied Arts, with curricula leading to the degrees of Associate in Arts, Bachelor of Arts, and Bachelor of Science, curricula of the earlier years of the College of Engineering, of the School of Optometry, and of the College of Pharmacy, and a curriculum leading to the Certificate in Public Health Nursing; and (d) the College of Agriculture, with curricula leading to the degree of Bachelor of Science. Students electing certain curricula in the College of Agriculture may register at Los Angeles for the first two years and then transfer to Berkeley or Davis to complete the requirements for the degree. The School of Education at Los Angeles supervises curricula leading to the Certificate of Completion for the various elementary and secondary teaching credentials, and for the administrative credential. Graduate study, leading to the degrees of Master of Science and Master of Arts, and to the degrees of Doctor of Philosophy and Doctor of Education also is available at the University of California at Los Angeles.

THE LIBRARY

The Library has more than 410,000 volumes that are accessioned and approximately 6900 periodicals and continuations are regularly received.

The Library is open daily. From Monday to Friday, inclusive, the hours during regular sessions are from 7:45 A.M. to 10 P.M.; Saturday, from 7:45 A.M. to 5 P.M.; Sunday, from 2 P.M. to 5 P.M. The reading rooms accommodate about 1700 students.

Supplementing the general library is the William Andrews Clark Memorial Library of about 26,000 volumes featuring primarily English literature and history of the United States Northwest.

UNIVERSITY EXTENSION

The Extension Division offers facilities to men and women who seek some form of higher education, but are prevented from taking up residence at the University. The University of California, therefore, provides, through the Extension Division, educational opportunities to adults living in any part of the State.

The work is carried on in five ways:

(1) Class Instruction. Classes are organized in cities and towns wherever a sufficient number of people can be secured who wish to study a subject. Instruction is offered in art, business methods, economics, education, engineering,
geography, history, languages, law, literature, mathematics, political science, psychology, public speaking, science, etc.

(2) Correspondence Instruction. Courses are given by mail in art, astronomy, composition and literature, drawing, economics, education, engineering, history, the languages, mathematics, music, philosophy, physics, political science, psychology, etc. Courses may begin at any time.

(3) Lectures, singly or in series, are provided for any committee, club, organization, or community in the State that will make the necessary arrangements for their delivery.

(4) Labor Education offers educational facilities designed to serve the needs of industrial workers.

(5) Visual Instruction. The Extension Division circulates visual aids such as motion picture reels, which cover many phases of educational work.

Persons desiring to take advantage of the facilities offered by any one of these departments may receive detailed information on request. Address the Extension Division, 130 Administration Building, University of California, Los Angeles, or 815 South Hill Street, Los Angeles, or University of California, Berkeley.
ADMISSION TO THE UNIVERSITY

STUDENT STATUS

The students who are admitted to the University of California at Los Angeles fall into two groups: undergraduates, and graduate students.

The undergraduates fall again into two groups: the regular students, and the special students.

The regular students are persons who have met all the requirements for admission to the University and who are pursuing, within the University, programs of study that comply with the established rules and regulations and lead to the degrees of Associate in Arts, Bachelor of Arts, or Bachelor of Science.

The special students are those persons twenty-one years of age or over who have not had the opportunity to fulfill the requirements laid down for the admission of regular students. Each student in this group is admitted only after special consideration. A special student cannot be a candidate for a degree. A special student may, however, at any time attain the status of regular student by satisfying all the requirements for that status in the college that he desires to enter.

Graduate students are of two designations: those in regular graduate status, and those in unclassified graduate status. Regular graduate students are graduates of this University or of other institutions with equivalent requirements for graduation, who are carrying on advanced (graduate) work for higher degrees or teaching credentials. Unclassified graduates are those who have received a recognized degree and who wish to undertake work leading to another bachelor's degree, or to complete preparation necessary for acceptance in regular graduate status; students so designated may take undergraduate courses only. Detailed information concerning admission to each student status follows.

ADMISSION IN UNDERGRADUATE STATUS

An applicant who wishes to enter the University must fulfill the general requirements for admission, as set forth below. Application blanks may be obtained from the Director of Admissions, 121 Administration Building, University of California, Los Angeles. Every applicant for admission is required to pay an application fee of $3 when the first application is filed. Remittance by bank draft or money order should be made payable to The Regents of the University of California.

Admission in Freshman Standing

Admission by Certificate—

A graduate of an accredited high school may enter the University in freshman standing provided the following conditions have been satisfied:
Admission to the University

1. Graduation. Graduation from an accredited high school usually requires the completion of sixteen matriculation units or credits in selected subjects.

2. Subject requirements. The high school program must include the following subjects, (a) to (f), inclusive, which represent the minimum subject requirements, and which must be approved by the high school principal as college preparatory courses.*

(a) History ................................ 1 unit.—This may consist of any two semesters of history, civics, or social science.

(b) English ................................. 3 units.—These may consist of any six semesters in English, public speaking, journalism, or drama.

(c) Mathematics ............................ 2 units.—These must consist of two semesters of elementary or advanced algebra, and two semesters of plane geometry, or solid geometry and trigonometry.

(d) Science ................................. 1 unit.—This may consist of a year course in one field of science, namely, biology, botany, chemistry, physical science, physics, physiology, or zoology. The science selected must be an advanced (3d or 4th year) laboratory science, and the two semesters must be in the same subject field.

(e) Foreign language....................... 2 units.—These must be in one language.

(f) Advanced (3d or 4th year) mathematics, or foreign language, or chemistry, or physics—1 unit; or two years of a second language—2 units 1 or 2 units.

3. Scholarship requirement. For any of these required subjects completed in the ninth grade (first year of high school), subject credit is given irrespective of the scholarship grade received, provided, of course, it is a passing grade. In the subjects completed in the last three years of the high school program, however, a scholarship average of grade B (based on a marking system of four passing grades: A, B, C, D) must have been maintained. In computing scholarship averages semester grades rather than year grades are used. For example, a semester grade A in either half of one prescribed course may be used with a semester grade C in either half of any other prescribed course to obtain a B average. Required subjects taken in the last three years of high school in which a grade D has been received will not be counted either in reckoning the required scholarship average or in satisfaction of the subject requirements. A grade earned by repeating a course, in which the original mark was not higher than C, may be counted.

Subject A: English Composition. An examination in English composition, designed to test the applicant’s ability to write English without gross errors in spelling, grammar, diction, sentence structure, and punctuation, is required of all undergraduate entrants. The examination is given at the opening of each

* Although this minimum program will entitle the student to entrance to the University, it will not give him the right to enter unconditionally the curriculum of his choice unless he has credit for the prescribed subjects. Information regarding the preparation required and recommended for each curriculum may be found in the later pages of this catalogue.
Additional Ways of Gaining Admission

Students who do not pass in the examination are required to take the Course in Subject A without unit credit toward graduation.

**ADDITIONAL WAYS OF GAINING ADMISSION**

The above-enumerated subjects have been selected as a central core of academic subjects for university preparation because it has been demonstrated that the student who completes them satisfactorily is most likely to be successful in his university work. In keeping, however, with the University's policy that no worthy student shall be denied admission, the Board of Admissions has been authorized to make certain exceptions to the general rules governing entrance for an applicant who may have subject shortages but a superior scholarship record. Every such applicant, upon submitting his official transcript of record, is given special consideration by the Director of Admissions. In general, an applicant with superior scholarship but with subject shortages may qualify for entrance to the University of California as follows:

1. If he ranks in the upper tenth of his class and has a substantial academic preparation, although he may have subject deficiencies.

2. If he has not less than 15 high school units of grade A or B in work taken in the ninth, tenth, eleventh, and twelfth years, or not less than 12 high school units of grade A or B in the work of the tenth, eleventh, and twelfth years; and not more than two subject deficiencies in the required list (a) to (f).

3. If he has not less than 15 high school units with no grade lower than C in work taken in the ninth, tenth, eleventh, and twelfth years; and not less than 6 high school units of grade A or B selected from the following 10 units of academic subjects:
   - Third- and fourth-year English
   - Third- and fourth-year mathematics
   - Third- and fourth-year laboratory science
   - Third- and fourth-year foreign language
   - Third- and fourth-year history

4. If he has not less than 15 high school units with no grade lower than C in work taken in the ninth, tenth, eleventh, and twelfth years; and passes the Examination in Subject A; and has grade A or B in the following subjects:
   - Plane geometry, 1 unit
   - Second-year foreign language, 1 unit
   - Third- or fourth-year laboratory science, 1 unit
   - Requirement (f), 1 unit.
Admission to the University

Removal of Admission Deficiencies

Deficiencies in the subject or scholarship requirements for admission in freshman standing by certificate may be removed in any one of the following ways:

(1) By courses in the University of California Extension Division which offers work of high school level, and college courses (class or correspondence) which may be taken to remove entrance deficiencies. Work taken in the Extension Division must be performed by achieving a standard satisfactory to the Board of Admissions, and the program of studies of the student must be approved by the Director of Admissions or by one of his associates, Berkeley or Los Angeles.

(2) By courses in the College of Agriculture of the University of California, at Davis (for applicants for admission to the College of Agriculture). Entrance deficiencies may be removed by an appropriate program made up of two-year curricula or degree courses, or by a program combining both types of work. Advice about this work should be sought from the Recorder, College of Agriculture, Davis, or from the Director of Admissions, University of California, Berkeley or Los Angeles.

(3) By courses in other four-year colleges completed with satisfactory grades, subject to the approval of the Director of Admissions. The requirements for admission in advanced standing must also be satisfied (see pages 30-31).

(4) By courses in junior colleges or State colleges completed with satisfactory grades and in proper amount. In addition, all requirements for admission to the University in advanced standing must be satisfied. The high school record of an applicant for admission with advanced standing from another collegiate institution will be considered on the same basis as the high school record of a student applying for admission to freshman standing in the University, provided his college record is satisfactory. Students who make up deficiencies in this way must continue in junior college or State college long enough to make up entrance deficiencies and, in addition, complete at least 15 units with a C plus average (1.5), or remain until completing 60 units with a C average (1.0). Students who completed the requirements in any one of the ways described on page 27 will qualify for admission, provided they have at least a C average in all college work presented for advanced standing.

(5) By junior college noncertificate courses representing work of nonuniversity level taken after high school graduation. The scholarship standards for these courses are the same as those required for work taken in the high school. Work that is clearly repetition may be offered to make up a subject, but not a scholarship deficiency, such work being awarded not higher than a C grade; other work must be completed with A or B grades in order to make up scholarship deficiencies. Students following this plan must continue in junior college
Removal of Admission Deficiencies

long enough to make up entrance deficiencies and, in addition, complete certificate work of at least 15 units with a C plus average (1.5), or 60 units with a C average (1.0).

(6) By postgraduate courses in accredited high schools.

(7) By College Entrance Board achievement and attainment tests.

Information Primarily for High School Principals and Faculty Advisers

Accrediting of schools in California. An accredited high school is one that has been officially recognized by the University as fulfilling the regulations laid down by the Regents of the University for the accrediting of secondary schools in California. The list of accredited schools is published by the University annually in the month of June or July. For blank forms of application for accrediting and for other information, school principals may communicate with the Director of Relations with Schools, Los Angeles or Berkeley.

Responsibility of high school authorities. The responsibility for the granting of certificates to high school students lies with the high school authorities, and students naturally will be guided by their respective principals in making their preparation for entrance to the University.

Upon the high school authorities rests also the responsibility for determining the scope and content of courses preparatory to admission to the University and for certifying the course to the University under the proper subject designation of the high school program.

Preparation for University Curricula

In addition to the subjects required for admission to the University, as outlined on page 26, certain preparatory subjects are recommended for each University curriculum which, if included in the high school program, will give the student a more adequate background for his chosen field of study.

Attention is directed especially to the fact that physics and chemistry are recommended in the preparation for the various curricula in the College of Letters and Science. This recommendation is made not only because of the value of each or both of these subjects as preparation for the courses of a particular curriculum, but also because completion of these subjects in the high school may meet a part of the requirements of the lower division of the College (see pages 64–65) and thereby give the student greater opportunity in his freshman and sophomore years at the University to choose elective subjects. However, it should be understood that neither chemistry nor physics is required for admission to the University.

Especial care should be exercised by the high school student in selecting a foreign language. The study of a foreign language is important not only because of its value in a broad cultural preparation but also because a reading knowledge of foreign languages may be very useful in the pursuit of advanced
work in many departments of the University. For department requirements and recommendations see the departmental announcements, page 115.

The high school student who plans to enter the University of California, but who at the outset of his high school course is uncertain concerning which of the several University curricula he may wish to follow, should provide himself with a wide range of opportunities by completing in high school a program of studies somewhat as follows: history, 1–4 units; English, 3–4 units; algebra, 1–2 units; geometry, 1–1 1/2 units; trigonometry, 1/2 unit; language, 2–4 units; science, including chemistry, 1 unit; mechanical drawing, 1 unit; special subjects, 1–4 units; a total of 16 units chosen from those listed above. Otherwise he may find graduation delayed, due to lack of proper matriculation prerequisites in required courses in the various colleges.

The student is cautioned with respect to the choice of electives that vocational or activities courses in the high school are not regarded as acceptable substitutes for basic academic studies in the preparation for University curricula. Unless this caution is observed, the student, even though he has been admitted to the University, may find that he is not equipped to do all the work necessary for the bachelor's degree in the normal four-year period.

**Admission in Advanced Standing**

An applicant for admission in advanced standing must present evidence that he has satisfied the subject and scholarship requirements prescribed for the admission of high school graduates in freshman standing, as described on page 26 (see also under Additional Ways of Gaining Admission, page 27), and that his advanced work in institutions of college standing has met the scholarship standard required of transferring students; namely, an average of grade C or higher in all work of college level undertaken.

An applicant may not disregard his college record and apply for entrance in freshman standing; he is subject without exception to the regulations governing admission in advanced standing. He should ask the registrars of all preparatory schools and colleges he has attended to forward complete official transcripts directly to the Director of Admissions. A statement of honorable dismissal from the last college attended must also be sent.

An applicant from a junior college or State college in California, who upon graduation from high school did not qualify for admission in freshman standing, must submit evidence that he has made up all entrance deficiencies and, in addition, has completed:

(a) Not less than 60 semester units of work acceptable for advanced standing in the college of the University to which admission is sought, with a scholarship average of at least grade C, or

(b) Not less than 15 semester units of acceptable advanced work with a distinctly high scholarship average.

The student should note that credit toward a degree in the University of
California for an extension course or courses completed in another institution will be allowed only upon the satisfactory passing at this University of an examination in the course or courses so offered, unless the other institution maintains a classification of extension courses similar to that established by the University of California.

Transfer to the University of California at Los Angeles in February. It is of special importance that a student in another institution who desires to transfer to the University of California at Los Angeles after the stated registration day of the second term should communicate in advance with the Office of Admissions, and should await assurance that late admission will be permitted before discontinuing studies in progress elsewhere. The applicant should state specifically the college in the University to which he wishes admission, and the amount of advanced credit which he expects to offer at the time of transfer.

Subject A: English Composition. Credit for Subject A (English Composition) is given upon certificate to those students who enter the University with credentials showing the completion elsewhere of the required training in composition. Of all other students, an examination by this University, at Los Angeles or at other centers of instruction, is required (see further statement, page 38).

Surplus matriculation credit. There is no provision for advanced standing in the University on the basis of surplus high school credit.

Teaching experience. No University credit is given for teaching experience. Students presenting evidence of successful teaching experience may substitute approved courses in education for part or all of the regular requirements in supervised teaching upon the recommendation of the Director of Training.

Removal of Scholarship Deficiencies by Applicants from Other Colleges

Applicants otherwise eligible who seek to transfer from other institutions of collegiate rank but whose college records fail to show a satisfactory scholarship average may be admitted only when the deficiency has been removed by additional work completed with grades sufficiently high to offset the shortage in grade points. This may be accomplished by work in the Extension Division of the University, or in other approved higher institutions.

ADMISSION OF SPECIAL STUDENTS

Special students are students of mature years who have not had the opportunity to complete a satisfactory high school program, but who, by reason of special attainments, may be prepared to undertake certain courses in the University. The conditions for the admission of each applicant under this classification are assigned by the Director of Admissions. Ordinarily, a personal interview is required before final action can be taken. In general, special
Admission to the University

students are required to confine their attention to some special study and its related branches.

Transcripts of record from all schools attended beyond the eighth grade must be submitted. An applicant for special status may be required to take an aptitude test and the Examination in Subject A. The Director of Admissions will supply, upon request, the forms of application for admission and for transcripts of high school record.

No person under the age of 21 years will be admitted as a special student, but the mere attainment of any given age is not in itself a qualification for admission.

An applicant will not be admitted directly from high school to the status of special student. Graduates of high schools are expected to qualify for admission in accordance with the usual rules; students so admitted, if not candidates for degrees, may, with the approval of the proper study-list officer, pursue elective or limited programs.

The University has no "special courses"; all courses are organized for regular students—that is, for students who have had the equivalent of a good high school education and have been fully matriculated. A special student may be admitted to those regular courses for which, in the judgment of the instructor, he has satisfactory preparation. A special student will seldom be able to undertake the work of the engineering and professional colleges or schools until he has completed the prerequisite subjects.

A special student may at any time attain the status of regular student by satisfying all the matriculation requirements for admission to the University.

Instruction is not offered in such essential preparatory subjects as elementary English, United States history, elementary physics, nor, except in the Extension Division, in elementary algebra, plane geometry, or elementary chemistry.

Students more than 24 years of age at the time of admission are excused from military science and physical education.

ADMISSION FROM SCHOOLS AND COLLEGES IN FOREIGN COUNTRIES

The credentials of an applicant for admission from a foreign country, either in undergraduate or graduate standing, are evaluated in accordance with the general regulations governing admission. An application and official certificates and detailed transcripts of record should be submitted to the Director of Admissions several months in advance of the opening of the term in which the applicant hopes to gain admittance. This will allow time for exchange of necessary correspondence relative to entrance and, if the applicant is admitted, be of assistance to him in obtaining the necessary passport visa.

An applicant from a foreign country whose education has been conducted in a language other than English may be admitted only after demonstrating
that his command of English is sufficient to permit him to profit by instruction in this University. An applicant’s knowledge of English is tested by an oral and written examination; this regulation applies to both graduate and undergraduate foreign students. The admission of an applicant who fails to pass this examination will be deferred until such time as he has acquired the required proficiency in the use of English.

Language credit for a foreign student. College credit for the mother tongue of a foreigner and for its literature is given only for courses taken in native institutions of college level, or for upper division or graduate courses actually taken in the University of California, or in another English-speaking institution of approved standing.

ADMISSION IN GRADUATE STANDING

As indicated on page 25, graduate students may be admitted as regular graduates or as unclassified graduates.

Applications for admission to regular graduate status will be received from graduates of recognized colleges and universities who propose to work for the degrees of Master of Arts or Master of Science, for the degree of Doctor of Education, or for the degree of Doctor of Philosophy in the fields of chemistry, English, geology, Germanic languages, history, horticultural science, mathematics, microbiology, oceanography, philosophy, physical-biological science, physics, physics-meteorology, political science, psychology, Romance philology, and zoology, or for the certificates of completion leading to the general secondary or junior college teaching credentials. Completed applications with supporting documents should be in the hands of the Registrar not later than September 28, 1942, for the term beginning October, 1942, and not later than February 1, 1943, for the term beginning February, 1943. Failure to observe these dates will necessitate the payment of a late application fee of $2.

The basis of admission to regular graduate status is the promise of success in the work to be undertaken, evidenced largely by the previous college record. In general a minimum undergraduate scholarship equivalent to a 1.5 grade-point average (half way between grades C and B) at the University of California at Los Angeles is prescribed. Notification of acceptance or rejection is sent to each applicant as soon as possible after the receipt of his application. Applicants are warned not to make definite arrangements for attending the University on the assumption that they will be accepted for admission, until they have received notification of acceptance.

Unclassified graduate status is open to students holding degrees from recognized institutions; no limitation is placed upon the number of students in this status. An unclassified graduate student is in general admitted to any undergraduate course for which he has the prerequisites; he may not enroll in any graduate course, nor is any assurance implied of later admission to regular graduate status. In the event of such admission the grade-point requirements
Admission to the University

for degrees and credentials will apply to all work done in unclassified graduate status; degree credit may be allowed for such work upon the special recommendation of the department of the candidate's field of study.

Applications to either status are to be made upon the forms provided for the purpose by the Registrar, and must be accompanied by the application fee (see below); transcripts of previous work must be submitted in accordance with the instructions on the application form.

An application fee of $3 is required of every student applying for admission to graduate status, even though he may have been in previous attendance at the University in other than graduate status.
GENERAL REGULATIONS

Certain general regulations govern residence and study in the academic departments. These regulations, unless otherwise stated, concern both graduate and undergraduate students.

REGISTRATION

Each student registers in person in the University of California at Los Angeles on days appointed for this purpose, at the beginning of each term. Registration covers the following steps: (1) filling out address card, paying fees, and receiving in exchange a card showing that the applicant has been enrolled in the University; (2) enrolling in courses according to instructions which will be posted on the University bulletin boards.

Late Admission and Registration

The student or prospective student should consult the University calendar and acquaint himself with the dates upon which students are expected to register and begin their work at the opening of the sessions. Failure to register upon the stated registration days is certain to cause difficulty in the making of a satisfactory program and to retard the progress both of the student himself and of each class to which he may be admitted.

A student who registers after the opening of the session and who later is found to be deficient in his work may not plead late admission as an excuse for his deficiency.

A fee of $2 is charged for late registration; this fee applies both to old and new students.

A qualified student or applicant who fails to register upon the stated registration days at the opening of the session, but who, nevertheless, appears during the first two weeks of instruction, will in general be permitted to register. After the first week, however, he is required to obtain the written approval of all the instructors in charge of his proposed courses and of the dean of his college, before his registration can be completed. An applicant for admission after the first two weeks of instruction must receive special approval of the Director of Admissions and the dean of the college to which he seeks admission. His study list must also be approved by the dean and the instructors concerned.

MEDICAL AND PHYSICAL EXAMINATION

All new students (graduate and undergraduate) must appear before the University Medical Examiners and pass a medical and physical examination to the end that the health of the University community, as well as the individual student, may be safeguarded. Evidence, satisfactory to the University Physicians, of successful immunization against smallpox is required.

Before coming to the University, every student is urged to have his own
physician examine him for fitness to carry on University work, and to have all defects capable of remedial treatment, such as diseased tonsils or imperfect eyesight, corrected. This will prevent possible loss of time from studies.

A medical examination is required of every student each year; returning students are requested to make appointments with the University Physicians at the time of registration.

**STUDENT HEALTH SERVICE**

The purpose of the Student Health Service is to conserve the time of students for their classwork and studies, by preventing and treating acute illnesses.

Each registered student at Los Angeles may, at need, have such consultations and medical care or dispensary treatment on the campus as the Student Health Service is staffed and equipped to provide, from the time of payment of his registration fee to the last day of the current term.

The Health Service does not take responsibility for certain chronic physical defects or illnesses present at the time of entrance to the University (as, for example, hernias, chronic bone and joint diseases or deformities, chronic gastro-intestinal disorders, fibroids of the uterus, chronically infected tonsils, tuberculosis, syphilis, malignant diseases, allergic and endocrine disorders, etc.).

**MILITARY SCIENCE, NAVAL SCIENCE, AND PHYSICAL EDUCATION**

Upon admission, every undergraduate student in the lower division, man or woman, must, unless officially notified of exemption, report immediately to the proper officer for enrollment in physical education,* in accordance with the directions in the Registration Circular or the announcements which may be posted on the bulletin boards. Every able-bodied male undergraduate in the lower division, who is under twenty-four years of age at the time of admission and who is a citizen of the United States, unless officially notified of exemption, must report immediately for enrollment in military or naval science. The student must list the courses in military or naval science and physical education upon his study card with other University courses. Upon petition a student more than twenty-four years of age at the time of admission will be excused from military science and physical education.

Information concerning the requirements in military science and physical education, including a statement of the grounds upon which a student may be excused from this work, may be obtained from the Registrar.

Petitions from students for excuse from, or deferment of, military science or physical education, filed by the petitioner after the expiration of two weeks following the date of the student's registration, will not be received except

* The University requirements in physical education referred to in this section cover Physical Education 8 (men) and 4 (women), 1 unit courses which are required of students in each term of the first and second years.
for illness or physical disability occurring after such date. A student who petitions to be excused from one of these subjects should nevertheless present himself to the proper instructors for enrollment while action on his petition is pending.

If a student subject to these requirements lists the prescribed course or courses on his study list, and thereafter without authority fails to appear for work in such course or courses, his neglect will be reported, after a reasonable time, to the Registrar, who, with the approval of the President, will notify the student that he is dismissed from the University. The Registrar will then inform the dean of the student's college or other officer in charge of the student's program of his dismissal. Upon the recommendation of the professor in charge of the work and with the approval of the President, the Registrar is authorized to reinstate the student and will notify the dean of the student's college (or other officer in charge of the student's study list) of such reinstatement.

The student is referred to the announcements of the departments of Military Science and Tactics and Physical Education in this catalogue.

Naval Science and Tactics
Enrollment in the Naval Reserve Officers' Training Corps Unit may not, at any one time, exceed two hundred seventy members, and students who wish to enroll should make formal application at the time of their admission to the University. Applications must be approved by the Chairman of the Department of Naval Science and Tactics. Students thus accepted are relieved of the work otherwise prescribed in military science, as set forth in these pages, and are required to take the courses prescribed by the Department throughout the four years.

In the lower division, the requirement in naval science amounts to 12 units, taken at the rate of 3 units a term. In the upper division the requirement in naval science is 4 units a term. The courses taken in any term in satisfaction of these requirements must be regularly listed, with other University courses, on the student's study list for that term. Neglect of the requirements is punishable by dismissal from the University.

For further information about the work of the Naval Unit, consult the Chairman of the Department of Naval Science and Tactics, Men's Gymnasium.

Gymnasiaums and Athletic Facilities
Separate gymnasiums for men and women were completed in the summer of 1932; each has an open air swimming pool. The building for men is 200 by 260 feet and has a gymnasium floor 100 by 150 feet; one wing of the building houses the headquarters of the departments of military science and tactics and of naval science and tactics. The building for women is of equal size and contains two gymnasium floors, of which the larger is 72 by 100 feet. These buildings are conveniently situated near the athletic grounds and tennis courts.
Lockers

Lockers are issued, as long as they are available, to registered students who have purchased standard locks. These are sold at $1 each, and may be used as long as desired, or may be transferred by the purchaser to another student.

**SUBJECT A: ENGLISH COMPOSITION**

With the exceptions noted below, every undergraduate entrant must, at the time of his first registration in the University, take an examination, known as the *Examination in Subject A*, designed to test his ability to write English without gross errors in spelling, grammar, sentence structure, or punctuation.

The examination in Subject A is given at the opening of each term. (See the *Registration Circular*, to be obtained from the Registrar.) A second examination for late entrants is given two weeks after the first examination in each term; for this examination a fee of $1 is charged.

The results of the first examination will be made known not later than the day preceding the date set for the filing of study lists for the current term. Papers submitted in the examination are rated as either "passed" or "not passed." A student who is not present at the examination in Subject A which he is required to take, will be treated as one who has failed.

Every student who does not pass in the examination in Subject A must, immediately after his failure, enroll in a course of instruction, three hours weekly, for one term, known as the *Course in Subject A*, without unit credit toward graduation. Should any student fail in the course in Subject A he will be required to repeat the course in the next succeeding term of his residence in the University.

A student who maintains in the course in Subject A a grade of A is permitted, on recommendation of the Committee on Subject A, to withdraw from the course at a date determined by that committee, and is given credit for Subject A.

Every student who is required to take the course in Subject A is charged a fee of $10, and the charge will be repeated each time he takes the course. This fee must be paid before the study list is filed.

No student will be granted the degree of Associate in Arts or a bachelor's degree until he has satisfied the requirement of Subject A.

In respect to grading, conditions, and failure, the course in Subject A is governed by the same rules as other University courses.

A student who has received a satisfactory rating in the College Entrance Examination Board examination in English 1, in English 1-2, or in the Comprehensive Examination in English, will receive credit for Subject A. A student who has passed an examination in Subject A given by the University at Berkeley or given under the jurisdiction of the University at various centers in the State annually in May or June, will receive credit for subject A.
A student who, at any time, has failed in the University examination in Subject A does not have the privilege of taking a second examination until he has completed the course in Subject A.

A student who enters the University of California at Los Angeles with credentials showing the completion elsewhere with a grade not lower than C, of one or more college courses in English composition (with or without unit credit) is exempt from the requirement in Subject A.

Passing the Examination in English for Foreign Students does not exempt a student from the Subject A requirement.

**AMERICAN INSTITUTIONS**

Every candidate for a bachelor's degree or a teaching credential is required to present evidence of knowledge concerning the Constitution of the United States and American institutions and ideals. This requirement is called the "Requirement of American Institutions." Candidates may complete this requirement in any one of the following ways:

1. By completing any one of the following courses:
   - American Institutions 101 (see page 269).
   - History 171 and 172, or 172 and 173.
   - Political Science 8A.
2. By presenting credit for an acceptable course completed at another collegiate institution.*
3. By passing the examination in American Institutions which is offered each term under the direction of the Academic Senate Committee on American Institutions. No fee is required for this examination, nor is degree credit granted for it. Detailed instructions, with dates of examinations, are posted upon the official bulletin boards at the proper time, or may be had at the information desk of the Registrar's Office.

**NATIONAL SERVICE COURSES**

Every undergraduate student is required as a condition of his attendance as a student, to enroll in and to complete at least one course directly serviceable to the Nation's war effort. Courses which may be so used are designated in special lists available at registration periods.

**PIANO TEST**

Every student entering a curriculum leading to the Certificate of Completion for the Kindergarten-Primary Teaching Credential must show ability to play on the piano music suitable for use with young children. Application for the test may be made to the departmental adviser. The test should be taken at the

* Candidates for general teaching credentials must have met this requirement at an approved California teacher-training institution.
time of admission; it must be taken before the student may be assigned to practice teaching. See the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

STUDY-LIST REGULATIONS

At the beginning of each term every student is required to file with the Registrar, upon a date to be fixed by the Registrar, a registration book containing, in addition to other forms, a detailed study list bearing the approval of a faculty adviser or other specified authority. Such approval is required for all students: undergraduate, graduate, and special.

The presentation of a study list by a student and its acceptance by the college is evidence of an obligation on the part of the student to perform faithfully the designated work to the best of his ability. Withdrawal from, or neglect of, any course entered on the study list, or a change in program without the formal permission of the dean of the college, makes the student liable to enforced withdrawal from the University, or to other appropriate disciplinary action.

Ample provision is made for the student who desires to withdraw from courses in which he is regularly enrolled. Petition for change in study list should be presented to the Registrar. Attendance upon all exercises is obligatory pending receipt of formal permission to discontinue.

STUDENT RESPONSIBILITY

Each student is responsible for compliance with the regulations printed in this catalogue and with official notices published in the Daily Bruin, or posted on official bulletin boards.

Application for leave to be absent, or excuse for having been absent from a University exercise, should be made to the instructor; if for unavoidable cause the student absents himself from all college exercises for one day or several days he should present his excuse to the dean of his college. Excuse to be absent does not relieve the student from completing all the work in each course to the satisfaction of the instructor in charge. For regulations concerning withdrawals from the University, see page 48 of this catalogue.

It is the duty of the student to inform the Registrar of changes of address.

AUTHORITY OF INSTRUCTORS

No student will be permitted to enter upon the study of any subject if, in the opinion of the instructor, he lacks the necessary preparation to insure competent work in the subject.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such ways as the instructor may determine, that he is performing the work of the courses in a systematic manner.

Any instructor, with the approval of the President, may at any time exclude
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from his course any student guilty of unbecoming conduct toward the instructor or any member of the class, or any student who, in his judgment, has neglected the work of the course. A student thus excluded will be recorded as having failed in the course of study from which he is excluded, unless the faculty otherwise determines.

DEGREES AND TEACHING CREDENTIALS

Detailed statements of requirements for the degree of Associate in Arts and for bachelor's degrees issued by the University will be found in this catalogue under headings of the several colleges and departments; for the master's degrees and the doctor's degrees, see the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION. The requirements for certificates of completion leading to teaching credentials are to be found in the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

Every undergraduate candidate for a degree or for the completion of a regular University curriculum leading to a teaching credential should fill out a form in his registration book, indicating his candidacy. The Registrar will then consult with the appropriate dean, and will advise the student whether the program he is undertaking will satisfy the requirements of his curriculum.

Degree residence. Every candidate for an undergraduate degree is required to have been enrolled throughout the year of residence in that college of the University in which the degree is to be taken; the last 24 units must be done in residence while so enrolled. It is permissible to offer a total of twelve weeks of intersessions, summer sessions, or postsessions attended in previous years as equivalent to one term; but, except as noted below,* the student must complete in resident instruction either the fall or spring term of his senior year. The regulation applies both to students entering this University from another institution and to students transferring from one college to another within the University.

All graduates receiving bachelor's degrees in any one calendar year—January 1 to December 31—are considered as belong to the "class" of that year.

CHANGE OF COLLEGE OR MAJOR

A student may be transferred from one college (major or department) of the University to another upon the approval of the dean or other responsible officer or committee of the college (or department) to which admission is sought. A form of petition for transfer is supplied by the Registrar.

No student is permitted to transfer from one major department to another after the opening of the last term of his senior year.

* Until September 15, 1948, students who have received teaching credentials from the Los Angeles State Normal School, the Southern Branch of the University of California, or the University of California at Los Angeles may complete the requirement of senior residence for the degree of Bachelor of Education by attendance at summer terms of the University of California.
Honors students include those who receive honorable mention with the degree of Associate in Arts in the College of Letters and Science, in the College of Applied Arts, in the College of Business Administration, or upon attaining junior standing in the College of Agriculture. Honors are granted also with the bachelor's degrees. For regulations concerning honors see the sections explanatory of the curricula of the various colleges, in later pages of this catalogue.

CREDIT AND SCHOLARSHIP

In both the University and the high school the student is credited, in respect to the amount of work accomplished, in terms of units; and in respect to quality of scholarship, in terms of grades. In a further, more exact determination of the student's scholarship, the University assigns a numerical value in points to each scholarship grade. These points are called grade points and are more fully described below.

High school credit, when it is offered in application for admission to the University, is reckoned in matriculation units; one matriculation unit represents one year's work in a given subject in the high school.

High school credit, when it is offered in satisfaction of high school graduation requirements, is measured in standard secondary units; that is, the credit granted for the study of a subject throughout the school year of from thirty-six to forty weeks, is stated in terms of the standard secondary unit. Each unit represents approximately one-quarter of a full year's work in high school; in other words, four standard secondary units represent one full year's work in high school.

Relation between high school matriculation units and University units. One year's work in the high school is considered to be equivalent to one University term's work of college level; that is, a student who desires to make up any high school subject deficiency by offering work of college level can in one University term earn credit equivalent to the credit of one year's work in high school.

In the University, a unit of credit represents one hour weekly of the student's time for the duration of one semester or term in lecture or recitation, with the time necessary for preparation, or a longer time in laboratory or other exercises for which outside preparation is not required. It is expected that most students will spend two hours in preparation for one hour a week of lecture or recitation. Each University unit credit is thus understood to represent at least three hours of the student's time, and the credit value of a course is reckoned in units on that basis.

STUDY-LIST LIMITS*

Concurrent enrollment in resident courses and in extension courses is permitted only when the entire program of the student has received the approval of the

* The course in Subject A which does not give units of credit toward the degree, nevertheless displaces 2 units from a student's allowable program.
proper dean or study-list officer and has been registered with the Registrar before the work is undertaken.

A student on scholastic probation, or subject to supervision of the Committee on Reinstatement, is limited to a program of 12 units each term, to which may be added the required 1-unit course in physical education.

In the College of Letters and Science or in the College of Applied Arts a student may present a study list aggregating 12 to 16 units each term without special permission. A student who has a heavy outside work program or who is not in good health is urged to plan, with the dean's approval, a study program below the 12-unit limit. After the first term a student may on petition carry a program of not more than 20 units, if in the preceding term he attained an average of at least two grade points for each unit of credit in his total program (of 12 units or more). A student in good academic standing, may without special permission add 1 unit of required physical education to the allowable study list. With this exception, all courses in military or naval science and physical education and repeated courses are to be counted in study-list totals. Any work undertaken in the University or elsewhere simultaneously with a view to credit toward a degree must also be included.

In the College of Business Administration, a student who is not restricted in his study list and who is not on probation may present a study list aggregating 12 to 18 units a term without special permission with respect to quantity of work, save that in his first term of residence the maximum is 16 units plus the required 1-unit course in physical education.

In the College of Agriculture a regular student who is free from deficiencies in the work of the previous term, and who is in good academic standing may register for not more than 18 units. To this maximum may be added the required physical education course of 1 unit.

Students enrolled in the lower division who are carrying work preparatory to admission to the junior year of the College of Engineering or the Curriculum in Optometry, and who are free from deficiencies in the work of the previous term, may register for not more than 18 units of new work. Students with deficiencies will be limited to 16 units, including repeated work. If students in these professional curricula later transfer to nonprofessional curricula in another college, their credits will be reduced in accordance with the limits of that college.

A special student ordinarily will have his study list specified at the time of his admission; it is limited to 16 units.

Regulations concerning study-list limits for graduate students will be found in the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.

Program Limitation

Undergraduate programs must not carry more than three consecutive hours of lecture, recitation, or discussion on any one day, nor may they carry a total
of more than five consecutive hours including laboratory, military or naval science, physical education, typing, or field work.

GRADES OF SCHOLARSHIP; GRADE POINTS
In the University, the result of the student's work in each course (graduate and undergraduate) is reported to the Registrar in one of six scholarship grades, four of which are passing, as follows: A, excellent; B, good; C, fair; D, barely passed; X and F, not passed. The designations "passed" and "not passed" may be used in reporting upon the results of certain courses taken by honor students in the College of Letters and Science.

Grade X indicates a record below passing, but one which may be raised to a passing grade without repetition of the course by passing a further examination or by performing other tasks required by the instructor. Grade F denotes a record so poor that it may be raised to a passing grade only by repeating the course.

The term "incomplete" is not used in reporting the work of students. The instructor is required, for every student, to assign a definite grade based upon the work actually accomplished, irrespective of the circumstances which may have contributed to the results achieved.

Course reports filed by instructors at the end of each term are final, not provisional.

Effective July 1, 1941, grade points are assigned to the respective scholarship grades as follows: for each unit of credit, the scholarship grade A is assigned 3 points; B, 2 points; C, 1 point; D, X, and F, no points. Removal of grade X or F entitles the student to grade points in accordance with the regulations stated under Removal of Deficiencies, below.

In order to qualify for the degree of Associate in Arts, or for any bachelor's degree at Los Angeles,* the student must have obtained at least as many grade points as there are units in the total credit value of all courses undertaken by him in the University of California.† A similar regulation is in effect in the colleges on the Berkeley campus.

REMOVAL OF DEFICIENCIES
A student who receives grade D, X, or F in a lower division course may, upon repetition of the course, receive the grade assigned by the instructor and grade points appropriate to that grade. The foregoing privilege does not apply to grades received in upper division or graduate courses. A student who receives grade X or F in an upper division or graduate course, may, upon successful repetition of the course, receive unit credit for the number of units passed, but ordinarily will not receive grade points. (For exceptions see below.)

* Candidates for teaching credentials must also maintain a C average in supervised teaching.

† Courses taken by honor students of the College of Letters and Science without letter grades are not counted in determining the grade-point status.
Removal of Deficiencies

For the purpose of raising grade X to a passing grade the student may, with the consent of the instructor concerned, and of the dean of the appropriate school, college or division, have the privilege of a condition examination. In courses of previous Intersessions and Summer Sessions, however, reexaminations for the removal of deficiencies are not provided by the University.

Any examination, term paper, or other exercise which the instructor may require in order for the student to have grade X raised to a passing grade in a course is a “condition examination.” For every such examination a formal permit, to be obtained in advance from the Registrar, must be shown to the instructor in charge of the examination; otherwise he will lack authority to consider and report upon the work submitted by the student. For every course in which a special examination is undertaken with a view to raising grade X to a passing grade, a fee of $2 is charged. The fee for a permit for two or more special examinations of this type is $3. There is no fee for a reexamination (final examination taken with the class), if the final examination is the only task required by the instructor from the student for the purpose of raising grade X to a passing grade and if this final examination is taken with the class not later than the close of the next succeeding term of the student’s residence in which the course is offered. A form of petition for a special examination or for admission to an examination with the class, with instructions concerning procedure, may be obtained from the Registrar. Grade X received by a student in a course in which a final examination is regularly held can be raised to a passing grade only by passing a satisfactory final examination in the course.

If a student who have received grade X in any course fails to raise it to a passing grade by the end of the next term of his residence in which the course is regularly given, then the grade shall be changed to F. If in the meantime, however, a student has repeated the course and has again received grade X, his grade in the course will remain grade X, as would be the case if he were taking the course for the first time. A student who fails to attain grade D or a higher grade in any course following a reexamination for the purpose of raising grade X to a passing grade, will be recorded as having received grade F in the course.

A student who raises a grade X or F, incurred in an upper division or graduate course, to a passing grade by successful repetition of the course, and a student who raises a grade X, incurred in any course, lower division, upper division, or graduate, to a passing grade by examination or by performing other tasks required by the instructor (short of actual repetition of the course), shall ordinarily receive no grade points. An exception to this rule is permitted, however, when the deficiency consists solely in the omission of the final examination or other required exercise on account of illness or other unavoidable circumstances, the student’s performance in all other respects having been satisfactory. In such circumstances the student may petition to have that grade
assigned which he would have received had the work been completed without delay, together with the appropriate number of grade points. His petition must set forth in detail the reasons for his failure to complete the course within the usual limit of time. The Registrar will then refer the petition to the proper authority for a decision.

Any student who is reported as having failed in any prescribed course in military or naval science or physical education, or the course in Subject A, will be required to repeat the course during his next regular term of residence in which the course may be given.

MINIMUM SCHOLARSHIP REQUIREMENTS
The following regulations apply to all undergraduate students at Los Angeles:

(A) Probation. A student shall be placed on probation
(1) If at the close of his first term his record shows a total deficiency of six or more grade points; or
(2) If at the close of any subsequent term, his grade-point average is less than 1.0 (a C average), computed on the total of all courses undertaken in this University for which he has received a final report.

(B) Dismissal. A student shall be subject to dismissal from the University
(1) If in any term he fails to pass with a grade of C or higher courses totaling at least 4 units; or
(2) If while on probation his grade-point average for the work undertaken during any term falls below 1.0 (a C average); or
(3) If after two terms of probationary status he has not obtained a grade-point average of 1.0 (a C average), computed on the total of all courses undertaken in this University for which he has received a final report.

A student dismissed for unsatisfactory scholarship will be excluded from the University for an indefinite period, with the presumption that his connection with the University will be ended by such exclusion.

Students at Los Angeles coming under the above regulations are subject to the supervision of the Committee on Reinstatement, which has adopted a policy of limiting study lists of students under its charge to twelve units or less, exclusive of required physical education.

The action to be taken in respect to students in graduate status who acquire scholarship deficiencies is left to the discretion of the Dean of the Graduate Division, Southern Section.

CREDIT BY EXAMINATION
 Provision is made whereby an undergraduate student in residence and in good standing may under certain conditions take examinations for degree credit either (a) in courses offered in the University, without formal enrollment in them, or (b) in subjects appropriate to the student's curriculum, but not offered as courses by the University. The results of all such examinations, with
grades and grade points, are entered upon the student's record in the same manner as for regular courses of instruction (see Grades of Scholarship, above). No fees are required.

Arrangements must be made in advance with the dean of the student's college; his approval and that of the instructor who is appointed to give the examination, are necessary before an examination can be given.

Application for examination for advanced standing on the basis of work done before entrance to the University should be made to the Admissions Office at the time of entrance to the University. If a student who has already matriculated proposes to enter upon study outside the University of California with a view to asking the University to examine him upon that work and to allow him credit toward the degree, he must make all arrangements in advance with the department concerned and with the Director of Admissions; fees are required for such validation examinations.

The application form for examinations may be obtained from the Registrar.

FINAL EXAMINATIONS

Final examinations are obligatory in all undergraduate courses except laboratory courses and other courses which, in the opinion of the Committee on Courses, because of resemblance to laboratory courses, require special treatment. In laboratory courses final examinations are held at the option of the department in charge. All examinations will, so far as practicable, be conducted in writing, and a maximum time will be assigned beforehand for each examination, which no student will be allowed to exceed. The time for examination sessions may not be more than three hours; normally the maximum time is two hours. Leave to be absent from a final examination must be sought by written petition to the proper faculty.

If a final examination is one of the regular requirements in a course, there can be no individual exemption from the examination, except as provided in the preceding paragraph.

Any department may examine a student, at the end of the term immediately preceding his graduation, in the major subject in which the department has given instruction; and a student to be examined in a major subject may, at the discretion of the department, be excused from all final examinations in courses in the department of the major subject in which he has been enrolled during the term. Credit value may be assigned to this general examination in the major subject.

Any student tardy at an examination may be debarred from taking it, unless an excuse for his tardiness, entirely satisfactory to the examiner, is presented.

Reexaminations are permitted only for the purpose of raising grade X (not passed) to a passing grade. In courses of previous Summer Sessions, however, reexaminations for the removal of deficiencies are not provided by the University. A student who has received grade B, C, or D in any course is not allowed a
reexamination for the purpose of raising the grade. Concerning methods of raising non-passing grades to passing grades, see under Removal of Deficiencies, above.

LEAVE OF ABSENCE AND HONORABLE DISMISSAL

A brief leave of absence, to expire on a definite date, may be issued to a student in good standing who finds it necessary to withdraw for a short time, but who wishes to retain his status in his classes and to resume his work before the close of the current term. No excuse for absence will relieve the student from the necessity of completing all the work of each course to the satisfaction of the instructor in charge. Petition forms for leaves of absence, with complete instructions, may be obtained at the office of the Registrar.

A student must apply for leave to be absent from or excuse for having been absent from any college exercise other than a final examination, to the instructor in charge of the exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for several days, in which event he should apply for a brief leave of absence as directed above. Leave to be absent from a final examination must be sought by written petition to the proper faculty.

An honorable dismissal may, upon petition, be issued to any student in good standing provided he complies with the instructions on the form of petition, which may be obtained from the Registrar.

A student is in good standing if he is entitled to enjoy the normal privileges of a student in the status in which he is officially registered. Students dismissed by reason of scholarship deficiencies, and students under supervision or on probation, may receive letters of honorable dismissal which bear a notation concerning their scholarship; students under censure or suspension may not receive an honorable dismissal but may receive transcripts of record which bear a notation concerning such censure or suspension.

Discontinuance without notice. Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

TRANSCRIPTS OF RECORD

Each student, upon formal application to the Registrar, may receive or may have issued on his behalf, without cost, one transcript showing all work taken by him in this division of the University. Subsequent transcripts will be issued upon application at a cost of 50 cents each.

DISCIPLINE

When a student enters the University it is taken for granted by the University authorities that he has an earnest purpose and that his conduct will bear out this presumption. If, however, he should be guilty of unbecoming behavior or
should neglect his academic duties, the University authorities will take such action as, in their opinion, the particular offense requires. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

There are five degrees of discipline: warning, censure, suspension, dismissal, and expulsion. Censure indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, with the presumption that the student's connection with the University will be ended by it. Expulsion is the most severe academic penalty, and is final exclusion of the student from the University.

By authority of the Academic Senate, the President of the University is entrusted with the administration of student discipline with full power to act.
MISCELLANEOUS INFORMATION

EXPENSES—LIVING ACCOMMODATIONS—EMPLOYMENT—
SCHOLARSHIPS—LOANS

GENERAL EXPENSES AND FEES*

The question of expense while attending the University is of importance to every student. It is difficult, however, to give specific information about yearly expenditures. In a student body of several thousand members there are so many different tastes, as well as such a wide range of financial resources, that each student must determine his budget in keeping with his own needs and financial condition. It is possible to live simply, and to participate moderately in the life of the student community, on a modest budget. The best help the University authorities can offer the student in planning his budget is to inform him of certain definite expense items, and acquaint him with others that he will in all probability have to provide for.

A table of estimated minimum, moderate, and liberal budgets for one college year of two terms is given on page 56.

Fees and deposits are payable preferably in cash. If a check is presented the face amount must not exceed all the fees to be paid.

Incidental fee. The incidental fee for all undergraduate students is $29 a term. This fee, which must be paid each term on the date of registration, covers certain expenses of students for library books, for athletic and gymnasium facilities and equipment, for lockers and washrooms, for registration and graduation, and for such consultation, medical advice, and dispensary treatment as can be furnished on the campus by the Student Health Service. It also includes the rights and privileges of membership in the Associated Students, valued at $4; see page 61. No part of this fee is remitted to those students who may not desire to make use of any or all of these privileges. If a student withdraws from the University within the first four weeks from the date of his registration, a part of this fee will be refunded. The incidental fee for graduate students is $25 each term; it does not include membership in the Associated Students.

Students who are classified as nonresidents of the State are required to pay, each term, in addition to the incidental fee, a tuition fee of $75.† It is important for every prospective student to note carefully the rules governing legal residence in the University, which are stated on page 53.

* During registration and for the first few days of instruction, fees will be paid as part of the registration procedure. Thereafter, they will be paid in the office of the Business Manager, Administration Building. The cashier's department of this office is open from 8:30 A.M. to 5 P.M. daily, and from 8:30 A.M. to 12 M. on Saturday.

† If a student registers for less than 12 units the tuition fee is $5 a unit or fraction of a unit, with a minimum of $25.
Fee reduction for graduate students. Graduate students in full-time occupations, who under the rules of the University are not permitted to carry a program of studies in excess of 4 units, may be allowed a reduction of the incidental fee from $25 to $15. The term “full-time occupations” is interpreted as applying to those persons who are in regular salaried positions and whose duties require their attention for seven or eight hours a day.

Tuition. The University charges a tuition fee to every student who has not been a legal resident of the state of California for a period of one year immediately preceding the opening day of the term during which he proposes to enroll. Such a student is classified as a nonresident. A student entering the University for the first time should read carefully the rules governing determination of residence, as quoted below, to the end that he may be prepared, in the event of classification as a nonresident of California, to pay the required tuition fee. This fee must be paid at the time of registration. The attention of the prospective student who has not attained the age of 22 years and whose parents do not live in the state of California, is directed to the fact that presence in the state of California for a period of more than one year immediately preceding the opening day of the term in which he proposes to attend the University, does not, of itself, entitle him to classification as a resident. An alien who has not made, prior to the opening day of a term in which he proposes to attend the University, a valid declaration of intention to become a citizen of the United States is classified as a nonresident student.

Tuition in the academic colleges is free to students who have been residents of the state of California for a period of one year immediately preceding the opening of the term during which they propose to attend the University. Students who are classified as nonresidents are required to pay a tuition fee of $75 each term. This fee is in addition to the incidental fee.

If a student is in doubt about his residence status, he may communicate with the Attorney for the Regents in Residence Matters. On the day preceding the opening day of registration and during the first week of instruction of each term the Attorney may be consulted upon the campus at a place which may be ascertained by inquiry at the Information Desk in the Registrar's Office; throughout the registration period, he may be consulted during the hours of registration at the place where registration is being conducted. At other times he may be consulted or communications may be addressed to him at Room 910, Crocker Building, San Francisco, California.

The eligibility of a student to register as a resident of California may be determined only by the Attorney for the Regents in Residence Matters. Every entering student, and every student returning to the University after an absence, is required to make a “Statement as to Residence” on the day of registration, upon a form which will be provided for that purpose, and his status with respect to residence will be determined by the Attorney soon after registration. Old students are advised that application for reclassification as a
Miscellaneous Information

resident student should be filed within ten days after regular registration; by late registrants, within one week after registration. Application for a change of classification with respect to some preceding term will not be received under any circumstances.

Laboratory fees. Laboratory charges, apportioned on the basis of materials used and for certain costs involved in the maintenance and operation of laboratory equipment, differ with the individual student's course, the range of fees in the elementary laboratories being from $1.50 to $31 a term. The fees are stated in the descriptions of the several courses in later pages of this catalogue.

Other Fees

Late payment fee. For delayed payment of any of the incidental, nonresident tuition, or departmental fees or deposits, $1. Departmental fees and deposits must be paid by date set for filing registration book.

Application fee, $3. This fee is charged every applicant for admission to the University, and is payable at the time the first application is filed. Applicants for graduate status must pay this fee, even though it may have been paid once in undergraduate status; see page 34.

Medical examination: original appointment, or deferment arranged in advance, no fee; fee for a second appointment, $1.

Late application for admission, $2.

Late registration, $2. (After date set as registration day.)

Late filing of registration book, $1. (More than five days after registration.)

Late examination in Subject A, $1.

For courses added or dropped after date set for filing registration book, $1 for each petition.

For reinstatement of lapsed status, $2.

For duplicate registration card, $1.

For late application for teaching assignment, $1.

For late notice of candidacy for the bachelor's degree, $2.

For late return of athletic supplies,* $1 minimum.

For failure to empty locker within specified time, $1.

Returned check collection, $1.

Deposit required of applicants for teaching positions who register with the Appointment Secretary: Persons registering with the Appointment Secretary are required to make a deposit of $5 to cover the clerical cost of correspondence and copying of credentials.

* Supplies or equipment not returned before the close of the fiscal year must be paid for in full; return after that date is not permitted.
Refunds

Refund of a part of the incidental fee is made to a student who withdraws from the University within four weeks from the date of his registration.

Refund on the nonresident fee of $75 is made in accordance with a schedule on file in the offices of the Registrar and Cashier; dates are computed from the first day of instruction of the term.

No claim for refund of fees will be considered unless such claim is presented during the fiscal year to which the claim is applicable. No student will be entitled to a refund except upon surrender to the Cashier of his registration certificate and receipt. Students should preserve their receipts.

Rules Governing Residence

The term "nonresident student" is construed to mean any person who has not been a bona fide resident of the state of California for more than one year immediately preceding the opening day of a term during which he proposes to attend the University.

The residence of each student is determined in accordance with the rules for determining residence prescribed by the provisions of Section 52 of the Political Code of California, provided, however:

1. That every alien student who has not made a valid declaration of intention to become a citizen of the United States, as provided by the laws thereof, prior to the opening day of the term during which he proposes to attend the University, is deemed to be a nonresident student.

2. That no person is deemed to have made a valid declaration of intention to become a citizen of the United States whose declaration of intention at the time when it is presented in support of an application for classification as a resident student in the University has lost its force or effectiveness, or who can not, under said declaration, pursue his declared intention of becoming a citizen of the United States.

Every person who has been, or who shall hereafter be classified as a nonresident student shall be considered to retain that status until such time as he shall have made application in the form prescribed by the Registrar of the University for reclassification, and shall have been reclassified as a resident student.

Every person who has been classified as a resident student shall, nevertheless, be subject to reclassification as a nonresident student and shall be reclassified as a nonresident student whenever there shall be found to exist circumstances which, if they had existed at the time of his classification as a resident student, would have caused him to be classified as a nonresident student. If any student who has been classified as a resident student shall be determined to have been erroneously so classified, he shall be reclassified as a nonresident student, and if the cause of his incorrect classification shall be found to be due to any concealment of facts or untruthful statement made by him at or before the time
of his original classification, he shall be required to pay all tuition fees which
would have been charged to him except for such erroneous classification, and
shall be subject also to such discipline as the President of the University may
approve.

The nonresident tuition fee may be remitted in whole or in part in the case
of students in regular graduate status [except in the professional schools, e.g.,
Jurisprudence, Medicine, Education (leading to the Ed.D. degree), and except
in the case of foreign students whose tuition is paid by their governments],
who have proved that they are distinguished scholars and who are carrying full
programs of work toward the fulfillment of requirements for academic higher
degrees. No graduate student in regular graduate status, no matter how dis-
tinguished his scholarship may have been, will be exempted from the payment
of the tuition fee if he is merely carrying some lower division courses for his
cultural advancement.

The term distinguished scholarship in connection with the question of exemp-
tion from the payment of the tuition fee is interpreted as follows: the scholar-
ship standing must have been excellent throughout a period of no less than two
years just preceding the time of application for this privilege. Moreover, only
students from institutions of high standing in scholarly work will be con-
sidered. Applicants for this privilege will be required to have sent to the Dean
of the Graduate Division confidential letters about themselves from persons
who are thoroughly acquainted with their personalities and their intellectual
achievements. It should be clear from these statements, therefore, that only the
decidedly exceptional student will be eligible for the privilege of exemption
from the payment of tuition if he is a nonresident. Students exempted from the
tuition fee pay only the incidental fee.

The privilege of exemption from the nonresident tuition fee may be revoked
at any time at the discretion of the Dean of the Graduate Division if in his
judgment a student fails to maintain distinguished scholarship, or if he proves
himself unworthy in other respects.

LIVING ACCOMMODATIONS AND GENERAL EXPENSES

FOR WOMEN

A list of approved accommodations for women students is prepared for dis-
tribution at the beginning of each term by the Dean of Women and may be
obtained at her office, 239 Administration Building. No woman is permitted
to complete her registration until her living accommodations have received the
approval of the Dean of Women. Women are not permitted to live in public
apartments unless satisfactory arrangements concerning chaperonage are made
in advance with the Dean of Women.

Mira Hershey Hall, made available by the will of the late Miss Mira Hershey,
is the only dormitory maintained on the Los Angeles campus. It is conveniently
situated on the campus and accommodates 128 women students. Board and
room costs $50 a month. Applications for residence should be filed with the Dean of Women as early as possible.

A number of desirable privately owned halls of residence offer accommodations to women; two, each with a capacity of 50 students, provide board and room for from $45 to $55 a month; others, with capacities ranging from 20 to 90, have housekeeping accommodations for from $18.75 to $25 a month. Twenty dollars a month is suggested as a sufficient amount for food for housekeeping students. Private homes offer housekeeping accommodations for as low as $16 a month, and board and lodging for $40 or more a month.

Self-supporting women students usually can get board and lodging in exchange for three hours of household work daily. All self-supporting women should consult the staff of the Dean of Women with respect to their plans.

Extracurricular expenses may be kept at a minimum. The expense of participating in general and honorary or professional organizations need not cost more than $5 a term. Membership in a social sorority may be estimated at from $12 to $30 a month, in addition to the cost of board and lodging.

The student living at home, although she may have no expense for board and lodging, must plan for transportation and lunch on the campus. While transportation varies according to the location of each student’s home, $10 a month is an average estimate. Lunches may be estimated at $5 to $10 a month. Some students reduce or eliminate this expense by bringing their lunches from home.

Personal expenses are obviously variable items. The average woman student’s estimate for clothing is from $100 to $300 for each University year; for drugs and beauty shop, from $15 to $40; for recreation, from $10 to $50.

**LIVING ACCOMMODATIONS AND GENERAL EXPENSES FOR MEN**

The cost of attending the University varies greatly with the individual student; however, the majority of men students living away from home spend between $600 and $800 a year. Students classified as nonresidents of California must also pay the tuition fee of $75 each term.

The cost of board and room is estimated as from $40 to $50 a month. A list of rooming and boarding houses for men is prepared by the Dean of Undergraduates, and may be obtained at Room 202, Administration Building. The University does not maintain on the Los Angeles campus any dormitories for men. Students attending the University and living at home should make an estimate of the cost of transportation and include this item in the year’s budget.

The initiation fees for professional fraternities vary from $5 to $12, and for social fraternities from $50 to $100. The dues for social fraternities average about $5 a month and the cost of living in a fraternity house averages about $40 a month. This amount does not include the cost of social affairs which may be given by the fraternity in the course of the year.

There are also cooperative housing units for men in which each student gives
several hours a week to the work of the organization, and thereby greatly reduces his cash outlay for room and board. Information concerning the co-operative units is available at the Office of the Dean of Undergraduates.

**PRINCIPAL ITEMS OF EXPENSE ESTIMATED ON A TWO TERMS' BASIS**

<table>
<thead>
<tr>
<th>Expense Items</th>
<th>Minimum</th>
<th></th>
<th>Moderate</th>
<th></th>
<th>Liberal</th>
<th></th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Men</td>
<td>Women</td>
<td>Men</td>
<td>Women</td>
<td>Men</td>
<td>Women</td>
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<tr>
<td>Incidental Fee</td>
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<td>$58</td>
<td>$58</td>
<td>$58</td>
<td>$58</td>
<td>$58</td>
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<td>Books and Supplies</td>
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<td>40</td>
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<td>60</td>
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<td>Board and Room or Housekeeping</td>
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<td>225</td>
<td>325</td>
<td>335</td>
<td>400</td>
<td>405</td>
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<tr>
<td>Miscellaneous (Recreation, club dues, laundry, drugs, etc.)</td>
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<td>30</td>
<td>75</td>
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<td>200</td>
<td>250</td>
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<td><strong>Total</strong></td>
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<td>$333</td>
<td>$498</td>
<td>$508</td>
<td>$718</td>
<td>$773</td>
</tr>
</tbody>
</table>

Note.—It is impossible to include in the above figures such variable items as clothes or transportation to and from home, or fees other than the incidental fee. Students classified as nonresidents of the State must also add to their estimated budgets the yearly tuition fee of $150.

**SELF-SUPPPORT AND STUDENT EMPLOYMENT**

Many students earn part, and a few earn all, of their expenses while attending the University. The University authorities are eager to offer as much encouragement as possible to students who must maintain themselves, but long experience has brought out the fact that the self-supporting student, early in his college life, may have to face unforeseen problems which affect his welfare.

University work demands the best that a student can give to it. The following statements are made, therefore, not to discourage the able student who must do outside work, but to forearm him with facts and information so that he may plan carefully and intelligently, and by so doing overcome many of the difficulties that might otherwise lead to disappointment and failure.

(1) Whenever possible, it is wise for a student to use his savings to make the first term of residence in the University one of freedom to give all time to academic work. He may then have an opportunity to adjust himself to new surroundings, to establish sound habits of study, and to maintain a good scholastic standing, and thereby build a foundation for the rest of his University course. By the end of the first term the student should know the demands of university life and his own capabilities well enough to make it possible to plan, for subsequent terms, a combined program of studies and work for self-support. Furthermore, a new student usually has difficulty in finding remunerative employment.
(2) The regular undergraduate four-year course based on an average of 15 units of academic work a term is organized on the supposition that students will give the major part of their time and attention to their studies while attending the University. Therefore, a student who must give considerable time and energy to outside work should consider at the outset the possibility that more than the usual eight terms (four years) may be required to complete the program for the degree, if he is to maintain his scholastic standing and his health, and to enjoy the advantages of university life.

With reasonable diligence, a student in good health carrying an average program of study in the undergraduate departments can give as much as twelve hours a week to outside employment without seriously interfering with his college work; employment in excess of this amount should be accompanied by a reduction of the academic program carried.

(3) Students who are not physically strong or in good general health should not, under ordinary circumstances, attempt to be wholly self-supporting because of the danger of jeopardizing health and academic progress.

Bureau of Guidance and Placement

Students desiring employment should register with the Bureau of Occupations, 39 Administration Building.

Little can be done in obtaining employment for students who are not actually on the ground to negotiate for themselves. Since, in general, it is difficult for a stranger to get remunerative employment, no student should come to Los Angeles expecting to become self-supporting at once but should have on hand sufficient funds to cover the expenses of at least the first term.

Board and lodging can frequently be had in exchange for three hours of household work daily. Opportunities also exist for obtaining employment on an hourly basis in the following fields: typing and stenography, clerical work, housework, care of children, general manual labor, etc. The rates paid for this kind of employment vary from twenty-five to seventy-five cents an hour. A student qualified to do tutoring and other specialized types of work can occasionally find employment on a remunerative basis.

The National Youth Administration program is also handled through the Bureau of Occupations and is available to a limited number of needy students with good scholarship who are unable to secure other employment.

Through its full-time placement service, the Bureau of Occupations recommends graduates and students for positions in fields other than teaching or educational research. This service is available to students when they leave the University or if they desire an improvement in their employment situation after having had some experience.

Appointment Office for Teachers. The Appointment Secretary recommends graduates, students, and former students for positions in universities, colleges, junior colleges, high schools, and elementary schools, and for educational re-
search, thereby assisting qualified candidates to obtain permanent employment or promotion in the work for which they have prepared themselves. A fee of $5 is charged each candidate for clerical services; there is no expense to school officials seeking teachers through this office. Communications should be addressed to the Manager of the Bureau of Guidance and Placement, 123 Education Building.

The University reserves the right to refuse to extend its cooperation to candidates who apply for positions for which they are manifestly unfit. In every recommendation the aim is to keep in mind the best available persons, remembering candidates already employed as well as those who may be out of employment.

Candidates for positions are urged to inform the office of the result of their candidacy, and of their desires for future promotion or change of occupation. All persons who obtain the services of students through either the Bureau of Occupations or the Office of the Appointment Secretary are urged to inform the Manager of the Bureau of Guidance and Placement concerning the quality of service given.

UNDERGRADUATE SCHOLARSHIPS

The Committee on Scholarships of the University of California at Los Angeles recommends annually for award a limited number of scholarships to undergraduate students in the University of California at Los Angeles. Because of the limited number of scholarships available, the Committee must restrict the awards to students who have been in attendance at least one semester (except for the Alumni Freshman Scholarships described below). The Committee rates all candidates with respect to scholarship, need, and character, and bases its recommendations upon relative ratings of all the candidates applying at any one time. Applications for these scholarships with letters and testimonials, should be filed with the Registrar on or before March 25 preceding the academic year for which the awards are to be made; if received later they will not ordinarily be considered until the following year. A blank form of application, which gives all the necessary information, may be obtained from the Registrar.

No vacancies exist for the year 1942–1943.

The scholarships awarded for the year 1942–1943 were as follows:

University Scholarships: twenty-one of $200 each.

Charles N. and Jennie W. Flint Scholarships: five of $200 each, two of $150 each, and four of $100 each.

E. B. Campbell Scholarships: four of $50 each, awarded to freshmen who have completed one term at the University of California at Los Angeles.

Lena De Groff Scholarships: four of $75 each.

The Governor Gage Scholarship of approximately $300.

The Governor Stephens Scholarship of approximately $300.

The Governor Merriam Scholarship of approximately $300.
Scholarships and Fellowships

M. Effie Shambaugh Scholarship of $38.
Walter Loewy Scholarships: two of $200 each.
Lulu Chilton Scattergood Scholarship of $150.
Faculty Women’s Club Scholarship of $125.
Alexander Korda Films Scholarship of $75.
Will Rogers Memorial Scholarships: thirteen varying from $50 to $200 each.
Will Rogers Memorial Awards: eleven varying from $50 to $300 each.

A limited number of scholarships known as the LaVerne Noyes Scholarships are available to needy veterans of the World War or their children; thirteen were awarded for 1942–1943.

Certain scholarships were available for students in the College of Agriculture; for definite information consult the PROSPECTUS OF THE COLLEGE OF AGRICULTURE.

Graduate registered nurses may apply for public health nursing scholarships made available through federal funds. Application may be made at any time, addressing the University Appointment Office. Awards will be made at the beginning of each term, in accordance with funds available. Applicants need not have been previously enrolled but should meet University admission requirements for the Public Health Nursing curriculum.

In addition to the above-enumerated scholarships, there are several whose recipients are named by the donors; among them is the American Legion Auxiliary Scholarship, which is awarded to the child of a World War veteran.

Alumni Freshman Scholarships

The California Alumni Association makes available each year a certain number of scholarships to entering freshmen. These Alumni Freshman Scholarships consist of cash awards of varying amounts for freshmen who enroll on any of the three campuses. Candidates for the Alumni Freshman Scholarships may receive information by writing to the Executive Manager, California Alumni Association, 301 Stephens Union, University of California, Berkeley. Information concerning similar scholarships available for the Los Angeles campus only may be had from Mr. John B. Jackson, University of California at Los Angeles Alumni Association, 402 Westwood Boulevard, Los Angeles. Applications must be on file on or before February 15 in any one year.

In the selection of the beneficiaries of these awards, the alumni committees in charge will choose applicants not only with substantial scholastic ability but also of high character and outstanding qualities of leadership, who give promise of reflecting credit upon themselves and the University.

GRADUATE SCHOLARSHIPS AND FELLOWSHIPS

For information concerning graduate scholarships, consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.
LOANS
Various organizations and individuals have contributed toward the building up of several student loan funds. The gifts for this purpose are administered by the University in accordance with the conditions laid down by the donors, and are sufficient to make small loans, for short periods of time and usually without interest, to students in an emergency; application should be filed at least ten days in advance. For further information, apply to the Dean of Undergraduates or the Dean of Women.

PRIZES
The generosity of alumni and friends of the University also provides each year for competitive prizes and awards in several fields. The following awards were announced at Commencement, June 3, 1942:

Alpha Chi Delta Award. Given by the Alpha Chi Delta Fraternity to the junior woman in economics, commerce or business administration with the highest academic standing attained during the freshman and sophomore years.

Alpha Chi Sigma Prize. Awarded by Alpha Chi Sigma Fraternity on the basis of a competitive examination in freshman chemistry.

Alpha Kappa Psi Medallion Award. Given by the Alpha Kappa Psi Fraternity to the man graduating in business administration with the best scholastic average attained in the last three years of undergraduate study.

Blue Circle C Society Honor Medal. Awarded on the basis of scholarship, character and service.

Chi Omega Prize. Awarded by the Gamma Beta Chapter of Chi Omega Sorority in the fields of economics, political science, sociology or psychology to the outstanding senior woman in one of the above mentioned departments.

Gimbel Prize. A medal and prize given by Mr. Jake Gimbel to the man who has shown the best attitude toward the University in athletic endeavor.


Mu Phi Epsilon Prizes. Given by the Los Angeles Alumnae Club of Mu Phi Epsilon to the women students winning the music competition in voice or any musical instrument.

Phi Beta Awards. Given by Phi Beta Fraternity to the outstanding senior for activity and scholarship in the field of music and dramatics.

Phi Chi Theta National Key Award. Given by the Local Chapter of Phi Chi Theta to the junior woman in business administration or commerce with the highest record in scholarship, leadership, and activities.

Phi Lambda Upsilon Prize. Awarded on the basis of a comprehensive examination covering the four-year course of undergraduate chemistry.

Pi Mu Epsilon Prize. Awarded on the basis of a competitive examination in calculus.
PUBLIC LECTURES, CONCERTS, AND ART EXHIBITS

As opportunity offers, the University presents to its members and to the public lectures of general and of special or scholarly interest by qualified persons. These lectures are intended to supplement and stimulate the work of all departments of the University.

The musical interests of the University are served by numerous concerts open also to the public. The University organ, installed in 1930 as a gift of an unnamed donor, makes possible the offering of a regular series of programs. In 1941–1942 these comprised fifty-one weekday noon recitals, and seven Sunday concerts, besides special concerts and music incidental to other gatherings. In addition to the organ, there are special concerts which in 1942–1943 will include recitals by Richard Bonelli, Rose Bampton, Artur Schnabel and Mischa Elman. Three young artists, selected competitively, will appear on the series as well as a performance of the San Carlo Opera Company. Programs of an unusual type of music are offered once a month by the Collegium Musicum, University music society. Student musical programs include the University Glee Clubs and the University Bands from the Los Angeles and Berkeley campuses, the University Symphony Orchestra, the A Cappella Choir, and weekly student recitals and hours of recorded music arranged by student music fraternities.

In the past year a group of illustrated lectures was presented under the auspices of the University Extension Division. A series of public Monday night lectures by members of the University faculty was also given.

The Department of Art schedules a series of exhibitions of painting, design, and craftwork in its exhibition hall. These illustrate the work of students, local artists, national exhibitors, and occasionally of old masters. A series of dance recitals is regularly presented under the auspices of the Department of Physical Education for Women and the University Dramatic Society.

Each year the several departments of the University interested in drama present a play. The present series of plays deals with the History of Comedy.

THE ASSOCIATED STUDENTS

The extracurricular activities are administered and controlled by the Associated Students, in which all undergraduates hold membership by virtue of paying at registration the regular University incidental fee. The organization has an executive council composed of a president, two vice-presidents, two representatives of groups, and the chairmen of five activity boards. The activity boards control the activities in definite fields, such as debating, athletics, dramatics, and publications; the council coordinates the work of these boards and administers the general business of the Association. Offices of the Associated Students are in Kerckhoff Hall, a gift to the University of Mrs. William G. Kerckhoff of Los Angeles.
Members are entitled to participation in the affairs of the Associated Students, to a subscription to the California Daily Bruin, to free admission to many athletic contests, and to reduced rates to all other athletic contests, as well as to dramatic, social, and similar events coming under the jurisdiction of the Associated students.

The Students' Co-operative Book Store is owned and operated by the Associated Students.

The California Daily Bruin and the Southern Campus are the official publications of the students. The California Daily Bruin contains news of all campus and college activities, official University announcements, and is under direct charge of an editor and a manager appointed by the Council. The Southern Campus is the yearbook and contains a record of the college life of the year. It is edited, managed, and financed by the students.

RELIGIOUS FACILITIES
In the immediate vicinity of the campus, at 10845 LeConte Avenue, is the University Religious Center where official representatives of the Jewish, Catholic, Episcopal, Methodist, Presbyterian, Baptist, Congregational, Disciple, Lutheran, Unitarian, and Latter Day Saints denominations, and the Y.M.C.A. have student headquarters. The Y.W.C.A. occupies its own building, at 574 Hilgard Avenue, near the entrance to the campus; in it are also the headquarters of the Christian Science organization.

At these centers are held religious discussion groups, lectures, Bible classes, social gatherings, luncheons, dinners, and other student meetings.
COLLEGE OF LETTERS AND SCIENCE

THE CURRICULA of the College of Letters and Science are designed to provide opportunities and facilities for broadening the basis of culture, preparing a student for specialized professional studies, and developing intelligence.

Breadth of culture can be attained only through familiarity with the best that has been thought and known in the arts and sciences. To this end the student is required to select courses in the general fundamentals of human knowledge, which are available in the lower division. In the more diverse and abundant offering of the upper division the student is relatively free to continue his liberal education along lines which appear best suited to his aptitudes, needs, and purposes.

Specialization in some field of study is generally regarded as indispensable to a well-rounded education. The pursuit of a special course of study, that is, of a "major," in the upper division necessarily requires a knowledge of antecedent courses known as "prerequisites." With the assistance of his counselor the student is expected to select those lower division courses which are definitely related to his proposed advanced study. Through such guidance and selection, continuity in a chosen field of learning is assured.

The College is vitally interested in the University's broad purposes of developing qualities of leadership, initiative, responsibility, and self-discipline. For this reason, considerable freedom of choice is permitted through a system of electives, that is, of courses not directly related either to the student's major subject or to the basic requirements of the curriculum of the College. A liberal education presupposes a reasonably wide distribution of courses which contribute to a desirable balance of intellectual interest and activity.

With a view to realizing the cultural objectives outlined above, each student in his freshman and sophomore years is required to consult an educational counselor, and during his junior and senior years is required to confer with an official adviser in his major department.

Lower Division

Requirements for the Associate in Arts Degree

The work of the lower division comprises the studies of the freshman and sophomore years. The Associate in Arts degree or its equivalent in the College of Letters and Science is required for admission to the upper division.

A student who transfers from another college of this University or from another institution must meet the lower division requirements; but, if credit of 60 or more units is allowed him, he is given upper division standing and may meet subject shortages concurrently with upper division requirements.

Certain courses taken in the high school are accepted as fulfilling in part or in whole some of the lower division requirements. The student should so arrange his high school program as to reduce the required work in the fields of foreign
language, mathematics, and natural science. However, the fulfillment of lower division requirements in the high school does not reduce the number of units required in the University for the degrees of Associate in Arts (60) and Bachelor of Arts (120).

The requirement of 120 units for the A.B. degree is based on the assumption that the student will normally take 15 units of work each term, including the prescribed work in military science and physical education. The degree of Associate in Arts will be granted on the completion of 60 units of college work with an average grade of C or higher (of these at least 24 must be earned in residence in the College), and the fulfillment of the following general and specific requirements:

(a) General University requirements.†

Subject A.‡
Military Science and Tactics, 6 units, or Naval Science and Tactics, 12 units (men).
Physical Education, 4 units.

(b) Foreign Language.—(1) At least 15 units in not more than two languages, with not less than six units in any one language. Each year of high school work with grade of at least B in foreign language not duplicated by college work§ will be counted in satisfaction of three units of this requirement, without, however, reducing the total number of units required for the Associate in Arts degree (60) or for the A.B. degree (120). If a new language is begun in the University it may not apply on this requirement unless course 2 with its prerequisites is completed. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

(2) This requirement may also be satisfied by passing a proficiency examination in one language.

(c) Matriculation Mathematics. Elementary algebra and plane geometry. If these subjects were not completed in the high school, they may be taken in the University of California Extension Division, but will not be counted as a part of the 60 units.

(d) Natural Science. At least 12 units chosen from the following list, of which not less than one unit shall be in laboratory work. Courses marked with

† For information concerning exemption from these requirements apply to the Registrar.
‡ An examination in Subject A (English Composition) is required of all entrants at the time of their first registration in the University. For further regulations concerning Subject A, see page 88.
§ Any student who because of lapse of time or other circumstance feels unable to continue successfully a language begun in high school may consult the department of the language concerned regarding the advisability of repeating all or a part of the work. Under certain circumstances, college credit can be allowed for repeated work. Such credit would count on the 60 units required for the Associate in Arts degree and on the 120 units required for the A.B. degree; but credit is not allowed toward the required 15 units in foreign language for both the high school and college work thus duplicated.
Associate in Arts Degree Requirements

an asterisk meet the laboratory requirement. Three units of mathematics not offered in satisfaction of requirement (e) may be substituted for three units of this requirement. Three units of the requirement may be satisfied by any third- or fourth-year laboratory science taken in high school with grade of at least B.

High school science (third- or fourth-year laboratory course).*
Astronomy 1, 2*, 7A, 7B.
Bacteriology 1*, 6.
Biology 1, 12.
Botany 1A*, 1B*.
Entomology 1*.
Geography 3, 3c.
Geology 2, 2L*, 3, 5*.
Paleontology 1.
Physics 1A*, 1B*, 1C*, 1D*, 2A*, 2B*, 4A, 4B, 10A, 10B, 10C*, 10D*.
Physiology 1*, 2*.
Zoology 1*, 2*, 13*, 14*, 15*, 16*, 18, 35*.

(e) Three Year-Courses. A year-course chosen from three of the following seven groups. At least one course must be chosen from group 1, 2, or 3. Only the courses specified below are acceptable.

1. English, Public Speaking:
   English 1A-1B, 36A-36B.
   Public Speaking 1A-1B, 2A-2B.

2. Foreign Language. Courses offered in satisfaction of this requirement may not include any of the work offered as part of the 15-unit requirement in language under requirement (b) above. No high school work may be counted on this requirement.
   French, any two consecutive courses from the following: 1A, 1B, 1, 2, 3A, 3B, 3, 25A, 25B.
   German, any two consecutive courses from the following: 1A, 1B, 1, 2, 3A, one of 3C, 3D, 3E, 3F, 3G, or 3K, 3, 7, 25A, 25B.
   Greek, 1A-1B, 101, 102.
   Italian, any two consecutive courses from the following: 1A, 1B, 1, 2, 3A, 3B.
   Latin, any two consecutive courses from the following: A, B, 1, 2, 5A, 5B, 102, 106.
   Spanish, any two consecutive courses from the following: 1A, 1B, 1, 2, 3A, 3B, 3, 20, 25A, 25B.

| Any lower division mathematics course except 1 (Berkeley) and 18 is acceptable on this requirement. |
3. Mathematics:
Any two of the following courses: Mathematics OF, 2, 6, 7, 8, 3A, 3B, 4A.

4. Social Sciences:
Anthropology 1A–1B.
Economics 1A–1B.
Geography 1A–1B.
History 4A–4B, 5A–5B, 7A–7B, 8A–8B.
Political Science 3A–3B, 31 and 32.

5. Philosophy:

6. Psychology:
Psychology 21 and either 22 or 23.

7. Art, Music.
Art 1A–1B, 2A–2B.
Music 1A–1B, 2A–2B, 35A–35B.

University Extension. Courses in the University of California Extension Division (either class or correspondence) may be offered in satisfaction of requirements for the Associate in Arts degree provided they bear the same number as acceptable courses in the regular session. Equivalent courses bear the prefix “XL.”

Honorable mention with the degree of Associate in Arts. Honorable mention will be granted with the degree of Associate in Arts to students who attain an average of B; that is, at least two grade points for each unit undertaken.

Upper Division

Only those students who have been granted the Associate in Arts degree or who have been admitted to the College with 60 or more units of advanced standing will be registered in the upper division.

The degree of Bachelor of Arts will be granted upon the following conditions:

1. The total number of units in college courses offered for the degree must be at least 120, of which at least 108 must be in courses chosen from the Letters and Science List of Courses (see page 68). Courses numbered in the 300 and 400 series are not included on the List.

   No credit is allowed toward the A.B. degree for work taken at a junior college after the student has completed 70 units.

2. The student must attain at least a C average (one grade point for each unit of credit) in all courses taken by him in the University. Courses taken in other institutions are not counted in computing grade-point totals.
Upper Division Requirements

3. At least 50 units of college work must be completed after the receipt of the degree of Associate in Arts, or after transfer from the junior college.

4. At least 36 units of upper division work in courses on the Letters and Science List must be completed after the student has attained upper division standing.

5. The requirement in American Institutions must be completed by all candidates for the degree. See page 39.

6. All candidates for the degree must be registered in the College of Letters and Science while completing the final 24 units of work. This regulation applies to students entering this University from other institutions or from the University of California Extension Division, and to students transferring from other colleges of this University.

7. Students who transfer to the University of California at Los Angeles from other institutions or from the University of California Extension Division with senior standing must complete at least 18 units in upper division courses selected from the Letters and Science List, including at least 12 units in the major department or in the general major. This regulation does not apply to students transferring from other colleges within the University.

8. The student must fulfill the requirements of either (a) or (b):

   (a) A departmental major or curriculum of at least 24 units in one of the subjects listed under the heading Organized Majors and Curricula for the Degree of Bachelor of Arts (see page 69).

   (b) A general major consisting of not less than 36 upper division units selected from the Letters and Science List of Courses; these units to be chosen from not more than three departments, with not more than 15 units in any one department.

   Students desiring to enroll in the general major should consult the office of the Dean of the College, 232 Administration Building.

   Each student is required to take at least one course in his major or curriculum during each term of his final year.

9. No student may change his major or curriculum after the opening of his final term.

10. Any department offering a major in the College of Letters and Science may require from candidates for the degree a general final examination in the department.

   Students who fail in the lower division to attain a C average in any department may be denied the privilege of a major in that department. If in the opinion of the major department any student cannot profitably continue in the major, the Dean may permit a change in the major or may, if circumstances warrant, require the student to withdraw from the College.
Letters and Science List of Courses

At least 108 units offered for the degree of Bachelor of Arts must be subjects chosen from the Letters and Science List of Courses, and the 36 units in upper division courses (numbered 100–199) required in the upper division must be selected from the same list.

Any course not included in the Letters and Science List of Courses but required or accepted by a department as part of its major or as a prerequisite therefor, will, for students offering a major in that department at graduation, but for no others, be treated as if it were on the Letters and Science List of Courses.

The following list refers to the courses as given in the departmental offerings for the year 1942–1943.

Agriculture. Agricultural Economics 3, 104; Entomology 1, 134; Soil Science 110; Plant Pathology 120.

Anthropology and Sociology:
Anthropology. All undergraduate courses.
Sociology. All undergraduate courses.


Astronomy. All undergraduate courses.

Bacteriology:
Bacteriology. All undergraduate courses.
Public Health. All undergraduate courses.

Botany. All undergraduate courses.

Business Administration. 1A–1B, 120, 131, 132, 140, 145, 153, and 180.

Chemistry. All undergraduate courses except 10.

Classics:
Latin. All undergraduate courses.
Greek. All undergraduate courses.

Economics. All undergraduate courses.


English:

English. All undergraduate courses.
Public Speaking. All undergraduate courses.

French. All undergraduate courses.

Geography. All undergraduate courses.

Geology. All undergraduate courses.

Germanic Languages:
German. All undergraduate courses.
Scandinavian Languages. All undergraduate courses.

History. All undergraduate courses.

Home Economics. All undergraduate courses except 108, 125, 150, 175.
Organized Majors and Curricula

Japanese. All undergraduate courses.
Mathematics. All undergraduate courses.
Military Science and Tactics. All undergraduate courses.
Naval Science and Tactics. All undergraduate courses.
Oceanography. All undergraduate courses.
Philosophy. All undergraduate courses.
Physical Education for Men. 1, 3.
Physics:
  Physics. All undergraduate courses.
  Meteorology. All undergraduate courses.
Political Science. All undergraduate courses.
Psychology. All undergraduate courses.
Social Science. 1, 2.
Spanish and Italian:
  Spanish. All undergraduate courses except 10.
  Italian. All undergraduate courses.
Portuguese. All undergraduate courses.
Zoology. All undergraduate courses.

ORGANIZED MAJORS AND CURRICULA IN THE COLLEGE OF LETTERS AND SCIENCE

A major (or curriculum) consists of a substantial group of coordinated upper division courses. The upper division unit requirement may represent courses in one or more departments. The details of the program must be approved by the officer in charge.

Special attention is directed to the courses listed as preparation for the major. In general, it is essential that these courses be completed before upper division major work is undertaken. In any event they are essential requirements for the completion of the major.

Not more than 80 units of upper division courses taken in one department after receiving the degree of Associate in Arts will be counted toward the bachelor's degree. NOTE.—In economics, this limitation is inclusive of courses in business administration.

The major must, in its entirety, consist (1) of courses taken in resident instruction at this or another university (fall, spring, and summer terms), or (2) of courses taken in the University of California Extension Division with numbers having the prefix XL, XB, or X.

The student must attain an average grade of C (1 grade point for each unit of credit) in all courses offered as part of the major (or curriculum).
Courses numbered in the 300 series (teachers' courses) or in the 400 series (professional courses) are not accepted as part of the major.

See further under Regulations for Study Lists, on page 42.

The College offers majors or curricula leading to the degree of Bachelor of Arts in the following fields:

- Curriculum in Applied Physics
- Curriculum in International Relations (see below)
- Anatomy
- Mathematics
- Anthropology
- Latin
- Astronomy
- Curriculum in Medical Technology (with major in Bacteriology)
- Bacteriology
- Music
- Botany
- Philosophy
- Chemistry
- Physics
- Astronomy
- Economics
- Physics-Meteorology
- Geology
- Political Science
- Chemistry
- Curriculum in Public Service (see below)
- Biology
- Zoology
- American Culture
- German
- Psychology
- Institutions
- Greek
- Sociology
- History
- Spanish

The requirements of the several majors are stated with the departmental offerings, beginning on page 115. In addition, requirements of majors and curricula are listed in the ANNOUNCEMENT OF THE COLLEGE OF LETTERS AND SCIENCE.

CURRICULUM IN AMERICAN CULTURE AND INSTITUTIONS

**Lower Division**

Required: English 1A-1B (6), Geography 1A-1B (6), History 7A-7B (6) or 8A-8B (6) or 4A-4B (6), Political Science 3A-3B (6) or Economics 1A-1B (6). Recommended: Agricultural Economics 3 (2), Anthropology 1A-1B (6), Astronomy 1 (3), Bacteriology 6 (2), Biology 1 (3), 12 (3), Chemistry 2A-2B (8), Economics 1A-1B (6) (see above), English 36A-36B (6), History 39 (2), 46 (5), Physics 4A-4B (6), Political Science 3A-3B (6) (see above), 10 (3), 34 (3), Sociology 30A-30B (6), Zoology 18 (2).

**Upper Division**

Curriculum requirements: From Group I 15 units
From Group II 12
From Group III 15

Total 42 units

The 199 courses in all departments shall be accepted as applying to groups I, II, and III below; but the gross count of 199 courses shall not exceed 6 units.
Curriculum in International Relations

I. Historical Development


II. Cultural and Intellectual Development

Required: English 111 (3), Spanish 184 (3), and six units selected from Astronomy 100 (3), Botany 151 (2), Education 102 (3), English 130A-130B (4), 131 (3), 182 (3), 190A-190B (4), Geology 107 (2), Music 142 (2), Philosophy 102 (3), 114 (3), Physical Education 136 (2), Psychology 101 (3), Public Health 101A-101B (8), Public Speaking 165 (3).

III. Political, Economic and Social Development


CURRICULUM IN INTERNATIONAL RELATIONS

This curriculum is designed primarily for students in the College of Letters and Science whose interests, while not specialized, fall in the field of foreign relations and diplomacy. Students interested in preparing for the American Foreign Service examinations should consult the adviser.

Lower Division

Required: Political Science 3A-3B (3-3); History 4A-4B, 5A-5B, or 8A-8B (3-3); and Economics 1A-1B (3-3). Recommended: Political Science 31 (3), 32 (3); Geography 1A-1B (3-3); History 7A-7B (3-3).

Upper Division

The curriculum comprises 36 upper division units, distributed as follows:

I. General requirements (21 units): Political Science 125 (3), 127 (3), 133A-133B (3-3); History 144, 145, 148A-148B, or 153A-153B (3-3); and Geography 181 (3).

II. Field requirements: at least nine units in one of the four following fields of specialization—

(a) Far Eastern Affairs: Political Science 136 (3), 138 (3); History 191A-191B (3-3); Geography 124 (3).
(b) Latin American Affairs: Political Science 126 (3), 151 (3); History 162A-162B (3-3); Geography 122A-122B (3-3).
(c) European Affairs: Political Science 154 (3), 155 (3); History 148A-148B (3-3) (if not offered under I, above), 146A-146B (3-3), 142 (3), 143 (3); Geography 123A-123B (2-2).
(d) British Empire Affairs: Political Science 153 (2); History 158A-158B (3-3) (if not offered under I, above), 152A-152B (2-2), 158A-158B (3-3); Geography 121 (3).

III. Electives: six additional units chosen from the courses listed above or from Political Science 110 (3), 112 (3), 128 (3); History 131A-131B (3-3); Economics 195 (3).

Candidates for the degree in this curriculum will be required to give evidence
of their ability to read the current literature in the field in one modern language: French, German, Spanish, or Italian. With permission, candidates may offer Oriental or Slavic languages.

CURRICULUM IN PUBLIC SERVICE

The Curriculum in Public Service is designed to be of assistance to students who wish to qualify themselves for positions in government work. It should be noted that a large percentage of government positions are open only through competitive examinations. The curriculum, therefore, is designed to allow the student to co-ordinate a program drawn from several departments in preparation for a general class of positions. While the curriculum is primarily related to Political Science, it is designed to allow a broader training in administrative work than is permitted a departmental major.

Lower Division

Required: Business Administration 1A–1B (3–3), Economics 1A–1B (3–3), Political Science 3A–3B (3–3), Statistics 1 (2). In certain fields, other courses are prerequisite to upper division courses included in the curriculum:

- Public Welfare—Sociology 30A–30B.
- Public Personnel—Psychology 21, 23.
- Public Relations—Six units of lower division history.

Recommended: Economics 40 (3), English 1A–1B (3–3), Public Speaking 1A–1B (3–3), Mathematics 8 (3), Political Science 34 (3).

Upper Division

Required: Thirty-six units of upper division work, including: Business Administration 140 or Economics 40 (if Statistics 1 was not taken in the lower division), Political Science 141, 156, 163, 181, 185. The program shall be selected from one of the fields:

- Public Management
- Public Personnel Administration
- Public Welfare Administration
- Public Relations
- Financial Administration

Variations in the programs may be made with the approval of the adviser. For information regarding specific courses in each field, consult the advisers, or refer to the ANNOUNCEMENT OF THE COLLEGE OF LETTERS AND SCIENCE, Los Angeles.

THE GENERAL MAJOR

To meet the needs of students who do not desire to specialize, the College provides a liberalized curriculum to be known as a “general major,” consisting of 36 units in upper division courses (together with their prerequisites) chosen from the Letters and Science List. These 36 units are to be chosen from not more than three departments, with not more than 15 units in any one department. An average grade of C is required in each departmental group of courses comprising the general major.

Because of its flexibility, this plan makes a special appeal to many students.
who have professional objectives not identified with any particular major, such
as elementary teaching, law, journalism, and librarianship, as well as to those
who desire only a broad general culture.

HONORS

Honorable Mention with the degree of Associate in Arts.
1. Honorable mention is granted with the degree of Associate in Arts to
students who attain at least an average of two grade points for each unit
undertaken.
2. The list of students who receive honorable mention with the degree of
Associate in Arts is sent to the chairmen of departments.
3. A student who gains honorable mention has thereby attained the honors
status for his first term in the upper division.

Honors Students in the Upper Division.
1. An honors list is prepared in the fall term, and also in the spring term if
the Committee on Honors so decides. This list is published in the Cata-
logue of Officers and Students. The department of the student's major
is named in the list.
2. The honors list includes the names of:
   (1) Students who have received honorable mention with the degree of
       Associate in Arts and who are in their first term of the upper
       division.
   (2) Upper division students who have an average of at least two grade
       points for each unit undertaken in all undergraduate work at the
       University of California at Los Angeles.
   (3) Other upper division students specially approved for listing in the
       honors status by the Committee on Hours, either upon recom-
       mendation made to the Committee by departments of instruction,
       or upon such other basis as the Committee may determine.

Honors with the Bachelor's Degree.
1. Honors are granted at graduation only to students who have completed
the major with distinction, and who have a general record satisfactory to
the Committee on Honors.
2. Before Commencement each department determines, by such means as it
deems best (for example, by means of a general final examination), which
students it will recommend for honors at graduation, and reports its rec-
ommendations to the Registrar.
3. Students who in the judgment of their departments display marked supe-
riority in their major subject, may be recommended for the special dis-
tinction of highest honors.
4. The Committee on Honors will consider departmental recommendations
and will confer with the several departments about doubtful cases. The
Committee is empowered at its discretion to recommend to the Committee
Undergraduate Curricula

on Graduation Matters that honors be not granted to any student who has failed to attain a B average in the major, or in the upper division, or in any undergraduate work.

5. The list of students to whom honors or highest honors in the various departments have been awarded is published in the annual Commencement Programme.

Preparation for Various Professional Curricula

Certain courses given at the University of California at Los Angeles may be used as preparatory to admission to the professional colleges and schools of the University in Berkeley and in San Francisco.

Curriculum of the College of Chemistry

In addition to the major in chemistry in the College of Letters and Science, the first two years of the curriculum of the College of Chemistry, leading to the B.S. degree, are offered at Los Angeles. To complete this curriculum, the student must transfer to the Berkeley departments of the University of California at the end of the second year. Before entering upon this program, he should consult the adviser for students in chemistry; ordinarily the student in chemistry finds more freedom in his program by enrolling in the College of Letters and Science.

Preparation. Students who propose ultimately to enter the College of Chemistry must include in their high school programs physics (1 unit), chemistry (1 unit), mathematics, including trigonometry and two years of algebra (3½ units), German or French (2 units). It is also recommended that geometrical drawing and further work in German or French be included. Students without this preparation will ordinarily not be allowed to enroll in the College of Chemistry.

A satisfactory reading knowledge of scientific German before the junior year is essential. A reading knowledge of French will also be of advantage.

Predental Curricula

The College of Dentistry offers three curricula: the first and second lead to the degrees of Bachelor of Science and Doctor of Dental Surgery, with a major in restorative dentistry or preventive dentistry, and the third (limited to women students) provides training in dental hygiene and leads to the degree of Bachelor of Science.

The academic (undergraduate) and professional curriculum leading to the degrees of B.S., D.D.S., normally covers six years. The degree of Bachelor of Science is awarded at the end of five years—two years in the College of Letters and Science at Los Angeles or Berkeley, followed by three years of the four-year professional curriculum in the College of Dentistry at San Francisco—and the degree of Doctor of Dental Surgery is awarded after one additional year (the fourth year of the professional curriculum) in San Francisco.
Under the accelerated three-term program beginning in June, 1942, the College of Dentistry will admit students to the dental curricula or the dental hygiene curriculum in alternate terms (June, 1942: February, 1943; October, 1943; etc.). Upon the satisfactory completion of six terms the dental student will be eligible for the Bachelor of Science degree, and for the degree of Doctor of Dental Surgery upon the completion of two addition terms. The Bachelor of Science degree will be granted the student in the dental hygiene curriculum at the end of the fourth term.

All applicants for admission to the College of Dentistry in either the dental or the dental hygiene curriculum must have completed at least 60 units of college work with a scholarship average of at least grade C, including the requirements (2)-(5) listed below. The student will find himself more adequately prepared for the dental curriculum if he has taken in high school the following subjects: English, 3 units; history, 1 unit; mathematics, 3 units (algebra, plane geometry, and trigonometry), chemistry, 1 unit; physics, 1 unit; foreign language, 3 or, preferably, 4 units.

The student in the University of California preparing himself for admission to the College of Dentistry should complete the requirements for the degree of Associate in Arts in the College of Letters and Science (see pages 63–66).

### Requirements for First and Second Years

1. **General University requirements***
   - Subject A (see page 33).
   - Military Science and Tactics (men) ........................................ 6 units
     Students in the Naval Unit will substitute for 6 units of military science, 12 units of naval science. (Not required of students who enter with two years of advanced standing.)
   - Physical Education ..................................... 4 units
     (Required at the University of California at Los Angeles.)

2. **Foreign language†**
   - Not more than two languages........................................... 15 units

3. **A full year of study** in each of three of the following groups [at least one chosen from groups (a), (b), or (c)];‡
   - (a) English or public speaking;
   - (b) Foreign language, additional to (2) above;
   - (c) Advanced mathematics;
   - (d) Social sciences (anthropology, economics, geography, history, political science);
   - (e) Philosophy;
   - (f) Psychology;
   - (g) Art or music ............................................... 18 units

4. **Chemistry** (the numbers in parentheses refer to courses at the University of California which fulfill requirements): inorganic (1A–1b), 10 units, and organic (8), 3 units ............ 13 units

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* The requirement of American Institutions is also prerequisite to the bachelor’s degree (see page 39).
† This requirement may be partially satisfied in high school (see page 64).
‡ Note requirement (a) for the Associate in Arts degree and the list of courses accepted in satisfaction of this requirement (see page 65).
Additional science: At least 5 units in one of the following:
physics (2a-2b)§, zoology with laboratory (1, 2, 13, 15, 16) . . . 5–8 units

Students entering the College of Dentistry must have a scholarship average of at least grade C in all work of college level.

In planning his program, the student is advised to complete as many of the required subjects as possible in the first year, including inorganic chemistry. The remaining required science should be taken in the second year. It is also recommended that he choose as an elective subject a course in either a physical or a biological science. This should not be in the same field as the science offered under requirement (5) above.

Information concerning the professional curricula leading to the degrees of Bachelor of Science and Doctor of Dental Surgery, will be found in the ANNOUNCEMENT OF THE COLLEGE OF DENTISTRY. Address the Dean of the College of Dentistry, University of California Medical Center, San Francisco, California.

PRELEGAL CURRICULA
Professional instruction in law in the University of California is given in the School of Jurisprudence in Berkeley and in the Hastings College of the Law in San Francisco.

Applicants for admission to the professional curriculum of the School of Jurisprudence, leading to the degree of Bachelor of Laws (LL.B.), must be eligible to senior standing in the University of California or hold the degree of Bachelor of Arts or Bachelor of Science from the University, or an equivalent degree from another institution of approved standing. The minimum scholarship average for admission to the professional curriculum is 2.0 (B average). The School of Jurisprudence also offers a graduate curriculum leading to the degree of Master of Laws (LL.M.), or to the degree of Doctor of Science of Law (J.S.D.). For further information, the student is referred to the ANNOUNCEMENT OF THE SCHOOL OF JURISPRUDENCE, which may be obtained from the Secretary, School of Jurisprudence, University of California, Berkeley.

Students in senior standing in the College of Letters and Science, otherwise eligible, may be admitted to the School and may offer the first year of the law school curriculum in lieu of a major, and thus receive the A.B. at the end of their first law school year and the LL.B. upon the completion of the professional curriculum.

To be eligible for senior standing in the College of Letters and Science a student must have completed at least 90 units toward the A.B. degree (at least 24 after the receipt of the degree of Associate in Arts), including at least 6 units of upper division courses (on the Letters and Science list) taken in the upper division.

Students in the College of Letters and Science who plan to offer the first

§ Trigonometry is prerequisite to this course.
year of law school in lieu of a major and to receive the A.B. degree at the end of the senior year, should select an alternative major and so plan their courses that they may complete the alternative major in one year in the event they are not admitted to the School.

The Hastings College of the Law offers a curriculum of three years leading to the degree of Bachelor of Laws; admission to this college is limited to holders of the degree of Associate in Arts or its equivalent. The College of Letters and Science of the University of California at Los Angeles grants this degree of Associate in Arts upon completion of the requirements stated on page 63.

PREMEDICAL CURRICULUM: THREE YEARS

It is assumed that as preparation for this curriculum the student will have completed in the high school the following subjects: English, 3 units; history, 1 unit; mathematics, 2 units (elementary algebra and plane geometry); chemistry, 1 unit; physics, 1 unit; foreign language (preferably French or German), 2 units. The requirements for the degree of Associate in Arts may be met more easily if the foreign language has been pursued four years in the high school. It is desirable that a course in freehand drawing be taken in high school. If possible, the student should also complete in high school intermediate algebra, ½ unit, and trigonometry, ½ unit, although these courses may be taken in the University. Trigonometry is prerequisite to the premedical courses in physics.

It is important for students to bear in mind that the class entering the Medical School is limited; in the past there have been a great many more applicants than could be admitted. Premedical students who, upon the conclusion of their third (junior) year, find themselves thus excluded from the Medical School, will be unable to obtain the bachelor's degree in the College of Letters and Science at the end of the fourth year, unless they plan their program with this contingency in mind. They should, therefore, either enter a departmental major at the beginning of the junior year, at the same time meeting all premedical requirements, or include in their premedical program a sufficient number of appropriate courses in some major department. Provision for the completion of such a major does not prejudice the student's eligibility for admission to the Medical School.

For matriculation in the Medical School—the four-year professional curriculum leading to the degree of Doctor of Medicine—the student must have attained senior standing in the premedical curriculum in the College of Letters and Science.

All applicants for admission to the Medical School are required to take the Medical Aptitude Test of the Association of American Medical Colleges. This examination is given annually at various colleges and universities, including the University of California. The date upon which the examination is to be held in Los Angeles will be announced later.
Applications for admission to the Medical School for the term beginning February, 1943, must be filed with the Registrar, University of California, Berkeley, not later than August 15, 1942. (The closing date for the term beginning October, 1943, will be announced later.) Applications must be accompanied by a draft or money order for $5 in payment for the application fee. A deposit of $50 will be required at the time of acceptance of an applicant to the Medical School. This deposit may be refunded if the student fails to meet the requirements but it is not refundable if he accepts appointment to another medical school.

The number of students who may be admitted to each first-year class from institutions outside the state of California is limited to five, and of these five not more than one will be selected from institutions of any one state.

Owing to the limitation of enrollment in the classes of the Medical School, candidates are selected on the basis of scholarship rank, Medical Aptitude Test score, and personal rating based on interviews with a committee appointed by the President of the University.

The Committee on Admissions to the Medical School is authorized to refuse admission to students who have low academic records and to those of obvious physical, mental, or moral disability. Successful candidates must pass a physical examination before registering in the Medical School. It is advisable for premedical students at the end of their freshman year to consult the University Physician to determine whether they have any physical disabilities which would impair their chances for success in the medical profession.

An applicant for admission to the Medical School who in any year is rejected because of inferior scholarship may at once present a second application for admission, together with a detailed plan concerning studies to be undertaken in furtherance of his preparation for the work of the Medical School. If his plan receives the approval of the Committee on Admissions, his name will be listed for admission the succeeding year, and his success in admission will depend on his scholarship rank as a member of the group of applicants for that year.

An accepted applicant who is unable to begin his work in the Medical School with his class, or who actually enters but finds it necessary to withdraw in his first year, loses his place and, if he desires to begin work in a later period, is required to reapply with the group of applicants for that period. Successful candidates must pass a satisfactory medical examination before registering in the School. Students in attendance in San Francisco are examined annually.

The State law governing the practice of medicine in California prescribes that every person, before practicing medicine or surgery, must produce satisfactory testimonials of good moral character and a diploma issued by some legally chartered medical school, whose requirements meet in every respect the Medical Practice Act of California as attested by the last annual approval of the California State Board of Medical Examiners. The requirements for
matriculation in the University of California Medical School cover those set by the Association of American Medical Colleges, provided the high school program includes physics and chemistry.

For further information see the annual Announcement of the Medical School, to be obtained from the Dean's office, University of California Medical School, Medical Center, Third and Parnassus avenues, San Francisco.

Premedical subjects. For matriculation in the Medical School—the four-year course leading to the M.D. degree—the applicant must give evidence of sufficient training in physics, chemistry, biology, and in English literature and composition to enable him to undertake with profit the medical curriculum. He must have a good reading knowledge of French or German. A knowledge of Latin is also of great value.

The following courses given in the University on the Los Angeles campus represent the minimum preparation required in the subjects named: English 1A–1B or Public Speaking 1A–1B; Chemistry 1A–1B (general inorganic chemistry), 6A (quantitative analysis), 8 (elementary organic chemistry); Physics 2A–2B (general physics); Zoology 1, 2, 13, 14 (general zoology), or Zoology 15, 2, 14 (general zoology), and Zoology 4 (microscopical technique); French or German, through course 2. The requirement in American Institutions must also be satisfied.

Besides taking the above listed specific premedical subjects, the student must also be eligible for admission to senior standing in the College of Letters and Science of the University of California. This includes the attainment of the Associate in Arts degree (or upper division standing), and the completion, after receiving the A.A. degree (or upper division standing), of a minimum of 24 units, 6 units of which must be in upper division courses. The total number of units of college credit which the student must present for senior standing must be at least 90.

SOCIAL WELFARE

Graduate training is now required in almost all fields of social welfare work. Only the undergraduate preparation for this training is offered on the Los Angeles campus. The Department of Social Welfare at Berkeley offers a curriculum subsequent to the bachelor's degree, leading at the end of the first year to the Certificate in Social Welfare, and at the end of the second year to the degree of Master of Arts.

Admission to the first year's graduate work at Berkeley is limited to students who (a) hold the bachelor's degree and are eligible for admission in full graduate standing at the University of California; (b) are not more than 35 years of age*; (c) are in good health, as indicated by a certificate from the University of California Health Service based upon a thorough medical and physical examination; (d) have completed the following courses or their equivalents,

* This requirement may be waived for those persons who through experience in the field have demonstrated their capacity for social work.
or have shown by qualifying examinations that they have an adequate knowledge of the subject matter of such courses:

1. Economics 1A–1B (Elements of Economics);
2. Psychology 21 (General Psychology);
3. Economics 150 (Labor Economics) or some other courses in social economics, such as Sociology 181 (Care of Dependents);
4. Two units of work in clinical or abnormal psychology;
5. Economics 40 (Economic and Social Statistics) or Psychology 107A (Mental Measurements) or Statistics 1 (Elementary Statistics) or Education 114 (Educational Statistics).

Candidates must also satisfy the Admissions Committee of the Department of Social Welfare that they are in other respects suitably prepared for admission.

Not all applicants who qualify under the foregoing provisions will necessarily be admitted to the certificate program, since total enrollment is limited to the number for whom suitable field work training can be arranged. Preference is given to those qualified applicants who appear to be most suitable for the profession of social work.

The major for the A.B. degree is not specified, but one of the following is recommended: the major in Sociology; the curriculum in Public Service taken in Public Welfare Administration; the General Major taken in three of the following fields: economics, political science, psychology, sociology†; or the major in Economics, Political Science, or Psychology. Either the major in Sociology or the curriculum in Public Service or the General Major is ordinarily to be preferred, the choice depending upon the student’s particular objective within the field. Students planning to enter graduate work in social welfare should confer at the beginning of their undergraduate studies with the counselor in social work.

The certificate program in social welfare may be combined with a program leading to the General Secondary Teaching Credential. This will ordinarily require three or four terms of graduate work. Students planning to take this combined program should, as early as possible in the undergraduate period, obtain the advice of the Educational Adviser in the School of Education as well as of the counselor in social work.

For information as to admissions procedure and details of the graduate curricula at Berkeley, consult the ANNOUNCEMENT OF THE DEPARTMENT OF SOCIAL WELFARE which may be obtained from the Department of Social Welfare, 2400 Allston Way, University of California, Berkeley, California. Students who plan to take their professional work at other institutions should

† In certain cases, the inclusion of home economics in the General Major is recommended.
secure the appropriate announcements from these institutions and plan their undergraduate program in accord with the admissions requirements of the school or college concerned.

JOURNALISM
The University of California at Los Angeles does not have a curriculum in journalism; a student who desires to prepare himself in this field should enroll in the College of Letters and Science and, with the assistance of his adviser, arrange a program containing fundamental courses in English, economics, history, political science, modern languages, and science. Students interested in this field may acquire practical training by working on the student publications.

RELIGION
Students having a cultural or professional interest in religion and religious education will find in the offerings of various departments many courses germane to these fields of study. In completing the requirements for a degree, including the requirements for a departmental or general major, a student can by judicious selection acquire basic preparation for various forms of religious leadership.

OTHER PROFESSIONAL CURRICULA IN THE UNIVERSITY

Architecture. In order to be admitted to the School of Architecture in Berkeley, the student must have at least junior standing and should normally have completed the requirements for the degree of Associate in Arts of the College of Letters and Science at Berkeley or Los Angeles, including such prerequisites to upper division courses in architecture as may be prescribed by the faculty of the School of Architecture. Only the academic courses in this program may be taken in the College of Letters and Science at Los Angeles; consequently, the student desiring a major in architecture is advised to enroll at Berkeley in order to complete the curriculum in four years.

Librarianship. The School of Librarianship in Berkeley offers a curriculum of two years subsequent to the bachelor's degree, leading at the end of the first year to the Certificate in Librarianship, and at the end of the second year to the degree of Master of Arts. The A.B. degree of the University of California (Los Angeles or Berkeley) or its equivalent, full graduate standing in the University, and one year each of college French and German are required for admission.

Public Health. The University offers a professional curriculum in public health, based on matriculation in the Medical School, leading to the degree of Doctor of Medicine at the end of five years, and to the degree of Doctor of Public Health in two additional years. Students of medicine in the University of California may present one year of the specific public health program in fulfillment of the fifth year in the Medical School, thereby reducing by one year the time required for the degree of Doctor of Public Health.
COLLEGE OF BUSINESS ADMINISTRATION

Courses which constitute the curricula of the College of Business Administration are designed to give students who choose to work toward the Bachelor of Science degree a well-balanced introduction to professional careers in business. Certain fundamental courses are included in the requirements for the degree of Associate in Arts which should give the student the proper background for more technical offerings when the upper division is reached. At the beginning of the junior year the student selects a major field in which advanced work will be completed in the more specialized professional fields of accounting, banking and finance, marketing, or management and industry. While the greatest value of such specialization is largely dependent upon a wise choice in one of those basic fields, students who desire to obtain a more general business training may work toward that end by taking the general business major. With the approval of the Dean the major may be changed not later than the beginning of the senior year. Details covering all phases of the work offered in the College are set forth on the following pages, under Lower Division and Upper Division Requirements.

Every student, upon his matriculation in the University, is assigned to an adviser who will gladly assist him in the selection and arrangement of his course of study, and to whom he may go when problems of a social or a scholastic nature arise. While the student may occasionally be summoned to confer with his adviser, it is his privilege at all times to seek an interview during the hours designated on the adviser's door card.

Special Secondary Teaching Credential in Business Education. Candidates for the bachelor's degree in the College of Business Administration may secure the Special Secondary Teaching Credential in Business Education by completing certain additional requirements, as set forth in the Announcement of the School of Education, Los Angeles.

University Extension. Students who desire to satisfy the specific subject requirements in the University of California Extension Division may use only those courses which are the equivalents of courses offered in the fall or spring sessions listed as acceptable in meeting the requirements.

Approved courses for electives in the College. All undergraduate courses in the Letters and Science List (see page 68), will be accepted for credit toward the B.S. degree. A maximum of 6 units of electives aside from the preceding will be accepted toward the degree.

Program limitation. A student who is not restricted in his study list and who is not on probation may present a study list aggregating 12 to 18 units a term without special permission with respect to quantity of work, save that in his first term of residence the maximum must not exceed 16 units, plus the required 1-unit course in physical education. A student who is not under the supervision of the Committee on Reinstatement but has a deficiency in the
work of the previous term is limited to 16 units. All courses in military or
naval science and physical education and repeated courses are to be counted
in the totals.

Lower Division

Requirements for the Degree of Associate in Arts

The degree of Associate in Arts of the College of Business Administration or
its equivalent is required for admission to the upper division of the College. It
is granted to students who have completed 64 units of college work (of which
at least 24 were completed in residence in the College), with a grade-point
average in all work done in the University of not lower than 1.00 (a C average),
and who have satisfied requirements (a) to (e) below. While some of these re-
quirements may be satisfied by work in the high school, work done prior to
graduation from high school will not be counted as part of the 64 units.

(a) General University requirements:

   Subject A.
   Military Science and Tactics, 6 units, or Naval Science and Tactics, 12
   units (men).
   Physical Education, 4 units.

(b) Either:

   Foreign Language. At least 16 units in one foreign language. Each year of
   high school work in this language, not duplicated by college courses taken by
   the student, will count as 3 units in satisfaction of this requirement, but will
   not reduce the total number of units for the degree of Associate in Arts or the
degree of Bachelor of Science.

   Or:

   Natural Science. At least 14 units chosen from the following list, including
   not less than 4 units of college courses with laboratory work. [Courses marked
   with an asterisk (*) meet the laboratory requirement.] One year of chemistry
   or physics completed in the high school will each count as 3 units in satisfaction
   of the natural science requirement, but will not reduce the total number of
   units for the degree of Associate in Arts or the B.S. degree.

   High school chemistry.
   High school physics.
   Chemistry 2A–2B, 8 units.*
   Physics 2A–2B, 8 units.*
   Zoology 1, 3 units*; or 15, 5 units.*
   Botany 1A, 4 units.*
   Astronomy 1, 3 units.
   Biology 1, 3 units.
   Geology 2, 3 units.
   Geology 5, 4 units.*
Undergraduate Curricula

(c) Social Science. At least 6 units in social science chosen from the following list:

- Political Science 3A–3B, 6 units.
- History 4A–4B, 6 units; 7A–7B, 6 units; 8A–8B, 6 units; 46, 3 units.
- Psychology 21, 3 units; 22 or 23, 3 units.

(d) Required courses:

- Business Administration 1A–1B, 6 units.
- Economics 1A–1B, 6 units.
- English 1A, 3 units.
- Geography 5A–5B, 6 units.
- Mathematics 8, 3 units.
- Mathematics 2, 5 units.
- Public Speaking 1A, 3 units.

(e) Matriculation Mathematics. Elementary algebra and plane geometry. If these subjects were not completed in the high school, they may be taken in the University of California Extension Division, but will not be counted as a part of the 64 units.

Upper Division

The Associate in Arts degree is required as a prerequisite to registration in the upper division, except for students who have been granted 64 or more units of advanced standing; such students may complete the remaining lower division requirements while registered in the upper division. Except for such students there must be completed at least 50 units of credit after qualifying for the Associate in Arts degree. All students must complete a minimum of 36 upper division units chosen from the list of approved courses for electives.

(a) University requirement: American Institutions 101, or its equivalent, is required of all candidates for the degree of Bachelor of Science (see page 39).

(b) General requirements:

- Economics 135.

- Senior required course: Business Administration 100.

(c) Special Elective. Three units chosen from the following:


(d) At least nine upper division units in one of the five following majors:

2. Banking and Finance: Business Administration 131, 132, 133, 139.

* Finance majors may not take this course to meet the Special Elective requirement.
(4) Management and Industry: Business Administration 121A–121B, 124, 125, 144, 153.


The major must be started not later than the beginning of the second term prior to the date of graduation.

(e) All candidates for the B.S. degree are required to take at least 12 units of electives outside the Department of Business Administration, chosen from the Letters and Science List of Courses (see page 68). These electives may consist of either lower or upper division courses.

(f) Scholarship requirements: A candidate for graduation is required to meet the following minimum scholarship requirements:

1. At least a C average in all work undertaken in the University.
2. At least a C average in all upper division courses taken in the Department of Business Administration.
3. At least a C average in all subjects undertaken in the major.

Summary—Units and Grade-Point Requirements
Bachelor of Science Degree

Lower division requirements .................. 64 units with 64 grade points

Upper division requirements:
- General requirements ............. 27 units
- Major requirement ................ 9
- University requirement .......... 2
- Electives ............................. 18

Total .................................. 56 units

Total minimum requirements for B.S. degree ........................................ 120 units with 120 grade points

HONORS

The Executive Committee of the College will recommend for Honors or Highest Honors such students as it may judge worthy of that distinction.
COLLEGE OF AGRICULTURE

The College of Agriculture of the University of California offers at Los Angeles the plant science curriculum and the major in horticulture leading to the Bachelor of Science degree. This major is not available on the other campuses where the College of Agriculture offers instruction. Courses in floriculture and ornamental horticulture have been recently added and make possible specialization within the major in any one of three coordinate fields—subtropical fruits, flower crops, and ornamental plants. Graduate work is also offered which leads to the Master of Science and Doctor of Philosophy degrees in horticultural science.

Students electing other majors in the plant science curriculum—agronomy, fruit products, genetics, irrigation, plant pathology, pomology, truck crops, and viticulture—may spend the freshman and sophomore years at Los Angeles and then transfer to the campus, Berkeley or Davis, where their major work is offered. The same is true of students electing other curricula in the College of Agriculture—animal science, agricultural economics, agricultural education, entomology, forestry, and soil science—and the curriculum in agricultural engineering. Students who plan to major in landscape design are advised to transfer to Berkeley at the beginning of the sophomore year. Students who register at Los Angeles with the intention of later transferring to Berkeley or Davis to pursue other curricula or to obtain majors in the plant science curriculum other than horticulture are requested to consult the Prospectus of the College of Agriculture and the appropriate advisers in agriculture at Los Angeles.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

PLANT SCIENCE CURRICULUM, MAJOR IN HORTICULTURE

The candidate for the degree of Bachelor of Science in the College of Agriculture must complete the following requirements:

(1) The equivalent of four years of university residence. The senior year must be spent in the College of Agriculture at this University.

The student should note that in order to complete the work in agriculture within the normal four-year period, prerequisites must be systematically met and the proper sequence of courses followed. Unnecessary delay will thereby be avoided. It is advisable, therefore, for the student who wishes to receive his bachelor's degree in agriculture at the University of California to take as much of his undergraduate program as possible in the University.

(2) One hundred and twenty-four units of university work, with at least an equal number of grade points, in addition to matriculation units and Subject A. (The Subject A examination in English Composition is required of every
undergraduate student on or before his first registration in the University. Further regulations concerning Subject A are given on page 38.)

(3) Thirty-six of the 124 units must be in upper division courses (courses numbered 100–199). Not more than 4 units may be in lower division physical education courses.

(4) Nine units of mathematics, including trigonometry. Matriculation work may be offered toward this requirement, with each year of high school work valued at 3 units. The student normally satisfies this requirement before the end of his sophomore year in the University.

(5) American Institutions. The student may meet this requirement by passing an examination for which no credit is given, or by completing one of the following courses: American Institutions 101, History 171 and 172, History 172 and 173, Political Science 8A, or the equivalents of these courses given in University Extension.

(6) In addition to requirement (4) above, every student must complete the requirements as listed under the following curriculum:

**PLANT SCIENCE CURRICULUM**

(a) Students must complete the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>16</td>
</tr>
<tr>
<td>Botany and Plant Physiology</td>
<td>12</td>
</tr>
<tr>
<td>Physics</td>
<td>6</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>4</td>
</tr>
<tr>
<td>Economics</td>
<td>6</td>
</tr>
<tr>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>Plant Pathology</td>
<td>4</td>
</tr>
<tr>
<td>Plant Nutrition (Soil Science 110)</td>
<td>4</td>
</tr>
<tr>
<td>Entomology</td>
<td>4</td>
</tr>
<tr>
<td>Zoology</td>
<td>4</td>
</tr>
<tr>
<td>Geology</td>
<td>3</td>
</tr>
<tr>
<td>Military and Physical Education</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>75</strong></td>
</tr>
</tbody>
</table>

(b) Students also must take a major with the minimum of 12 units of upper division work in horticulture.

**Freshman and Sophomore Years**

During the freshman and sophomore years the following schedule will normally be followed. For examples of programs in other curricula of the College of Agriculture students should consult the Prospectsus of the College of Agriculture and the appropriate advisers for agricultural students at Los Angeles.

The College of Agriculture requirements of graduation are the same whether the student registers at Berkeley, Davis, or Los Angeles.
### Undergraduate Curricula

**Example of Program—Plant Science Curriculum**

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Fall term</th>
<th>Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science (for men)</td>
<td>1½</td>
<td></td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botany 1A-1B</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Physics 2A-2B or 4A-4B</td>
<td>4 or 3</td>
<td>4 or 3</td>
<td></td>
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<tr>
<td>Economics 1A</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Geology 1</td>
<td>3 or 4</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>18½</td>
<td>18½ or 17½</td>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Fall term</th>
<th>Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science (for men)</td>
<td>1½</td>
<td></td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>Botany 6, 7</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Chemistry 6A, 8</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Zoology 1</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bacteriology 1</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics 1B</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horticulture 2</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horticulture 10</td>
<td>2</td>
<td></td>
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<td>Electives</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16½</td>
<td>18½</td>
<td></td>
</tr>
</tbody>
</table>

There is no Associate in Arts degree in the College of Agriculture. Consequently students who are unable to meet the above-outlined program of study during the first two years may take some of the requirements in their junior or senior years. It should be noted, however, that any great departure from the above program may delay graduation beyond the normal four-year period.

**Junior and Senior Years**

The additional required courses—Entomology 134, Zoology 130 and 131 (Genetics), Soil Science 110, Plant Pathology 120, and American Institutions 101—together with such electives in any department as may be approved by the major adviser will be taken during the junior and senior years. Entomology 1, normally taken in the sophomore year, may be substituted for course 134 and Plant Pathology 130 for course 120. For elective courses in other departments the latter pages of this catalogue should be consulted.

Students should consult the major adviser concerning the 12 units required for the major in horticulture.

**OTHER CURRICULA**

The requirements in the other curricula offered by the College of Agriculture will be found in the Prospectus of the College of Agriculture. Programs suitable for the conditions at Los Angeles may be had from the appropriate advisers in agriculture, who should be consulted.
HONORS

Students who become candidates for the bachelor's degree in the College of Agriculture may be recommended for honors on the basis of the quality of the work done in the regular curriculum.

I: Honorable mention with Junior Standing (that is, to students who have completed 64 units in their freshman and sophomore years).

(1) Honorable mention is granted with junior standing to students who attain at least an average of two grade points for each unit of credit undertaken. Such students will remain in honors status unless their average for all work at the end of any term falls below two grade points for each unit undertaken.

(2) The list of students who receive Honorable Mention is sent to the chairman or study-list officer of the College before the beginning of the next term. The list of those in honors status is published in the CATALOGUE OF OFFICERS AND STUDENTS.

II. Honors with the Bachelor's Degree.

(1) Honors are granted at graduation only to students in honors status who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors.

(2) Students who, in the judgment of the Committee on Honors, show marked superiority in their major subject may be recommended for the special distinction of Highest Honors.

(3) A list of students to whom Honors or Highest Honors in the College have been awarded is published in the COMMENCEMENT PROGRAMME.
The College of Applied Arts was established on the Los Angeles campus of the University of California to meet a demand for curricula of a specialized character which have to a considerable extent technical or professional appeal, and to maintain and develop certain curricula leading to special secondary teaching credentials. In keeping with the policy of the University to serve the needs of the community and the State, it is expected that the curricular offerings will be broadened from time to time.

The College now offers majors in art and music leading to the Degree of Bachelor of Arts, and majors in home economics, mechanic arts, and physical education leading to the degree of Bachelor of Science. In connection with these majors, it is possible to secure the special secondary teaching credential by following closely the regulations laid down by the School of Education. It should be noted, however, that it is possible to obtain the degree without working for the teaching credential.

In addition, curricula are offered in drama, leading to the Bachelor of Arts degree, and in dance, leading to the Bachelor of Science degree. For properly qualified graduate nurses, a curriculum is also offered in public health nursing, leading to the Bachelor of Science degree and the Certificate in Public Health Nursing.

Certain lower division curricula are listed in the offering of the College of Applied Arts. These include pre-engineering, pre-mining, pre-nursing, pre-optometry, and pre-pharmacy. These curricula may be used as preparation for admission to the professional colleges and schools of the University in Berkeley and in San Francisco.

Requirements for Graduation

Lower Division

Requirements for the Degree of Associate in Arts

The work of the lower division comprises the studies of the freshman and sophomore years and leads to the degree of Associate in Arts. This degree, or its equivalent, is required for admission to the upper division of the College of Applied Arts.

A student who transfers from another college of this University or from another institution must meet the requirements for the degree of Associate in Arts; but, if credit of 60 or more units is allowed him, he is given upper division standing and may meet subject shortages concurrently with requirements for the bachelor's degree.

Certain courses taken in the high school are accepted as fulfilling in part or in whole some of the requirements for the degree of Associate in Arts. The student should so arrange his high school program as to reduce the required work in foreign language. However, the fulfillment of lower division require-
ments in the high school does not reduce the number of units required in the University for the degree of Associate in Arts (60) or for the bachelor's degree (120).

All candidates for the Associate in Arts degree must be registered in the College of Applied Arts for at least two terms (or the equivalent), completing in residence the final 24 units.

The degree of Associate in Arts will be granted upon completion of 60 units of college work (of which at least 24 must be completed in residence) with a grade point average in all work done in the University of not less than 1.00 (a C average), and the fulfillment of the following general and specific requirements:

(a) General University requirements.
   Subject A.‡
   Military Science and Tactics, 6 units, or Naval Science and Tactics, 12 units (men).
   Physical Education, 4 units.‖

(b) Either:
   (b₁) Foreign Language. At least 15 units in one foreign language. Each year of high school work in this language of grade B or higher not duplicated by college work§ will count as 3 units in satisfaction of this requirement, but will not reduce the total number of units for the degree of Associate in Arts or the bachelor's degree. Courses given in English by a foreign language department will not be accepted in satisfaction of this requirement.

   OR

   (b₂) Natural Science. At least 12 units chosen from the following list, of which not less than 3 units must be in courses with laboratory work. Courses marked with an asterisk (*) meet the laboratory requirement.
   Astronomy 1, 2*, 7A-7B.
   Bacteriology 1*, 6.
   Biology 1, 12.
   Botany 1A*, 1B*.

† For information concerning exemption from these requirements apply to the Registrar.
‡ An examination in Subject A (English Composition) is required of all entrants at the time of their first registration in the University. For further regulations concerning Subject A, see the GENERAL CATALOGUE.
‖ Prior to February, 1942, this requirement consisted of only 2 units (½ unit for each of the first four semesters).
§ Any student who because of lapse of time or other circumstance feels unable to continue successfully a language begun in high school may consult the department of the language concerned regarding the possibility of repeating all or a part of the work for credit. Such credit would count on the 60 units required for the degree of Associate in Arts and on the 120 units required for the degree; but credit is not allowed toward the required 15 units in foreign language for both the high school and college work thus duplicated.
Undergraduate Curricula

Chemistry 1A*, 1B*, 2A*, 2B*, 6A*, 6B*, 8, 9*, 10*.
Entomology 1*.
Geography 3, 30.
Geology 2, 2L*, 3, 5*.
Paleontology 1.
Physics 1A*, 1B*, 10*, 1D*, 2A*, 2B*, 4A, 4B, 10A, 10B, 10C*, 10D*.
Zoology 1*, 2*, 13*, 14*, 15*, 16*, 18, 35*.

OR

(b) A combination of Foreign Language and Natural Science to be distributed as follows:

Foreign Language. At least 15 units in not more than two languages, with not less than 6 units in any one language. Each year of high school work with grade B or higher not duplicated by college work will be counted in satisfaction of 3 units of this requirement, without, however, reducing the total number of units required for the degree of Associate in Arts (60) or for the bachelor's degree (120). If a new language is begun on the collegiate level it may not apply on this requirement unless course 2 of the language with its prerequisites is completed. Courses given in English by a foreign language department are not accepted in fulfillment of this requirement.

Natural Science. At least 9 units chosen from the natural science list set forth above, of which not less than three units must be in courses with laboratory work. Three units of mathematics not offered in satisfaction of (d) 3 below may be substituted for three units of this requirement.

(c) Matriculation Mathematics. Elementary algebra and plane geometry. If these subjects were not completed in the high school, they may be taken in the University of California Extension Division, but will not be counted as a part of the 60 units.

(d) Three Year-Courses. A year-course chosen from each of three of the following seven groups, at least one of which must be chosen from 1, 2 or 3. Only the courses specified below are acceptable.

1. English, Public Speaking:
   English 1A–1B, 36A–36B.
   Public Speaking 1A–1B, 2A–2B.

§ Any student who because of lapse of time or other circumstance feels unable to continue successfully a language begun in high school may consult the department of the language concerned regarding the possibility of repeating all or a part of the work for credit. Such credit would count on the 60 units required for the degree of Associate in Arts and on the 120 units required for the degree; but credit is not allowed toward the required 15 units in foreign language for both the high school and college work thus duplicated.
English 1A and Public Speaking 1A, English 1A and Public Speaking 2A, English 1A and 40, Public Speaking 1A and 2A.

2. Foreign language (courses offered in satisfaction of this requirement may not include any of the work offered as part of the requirement in language under requirement (b) above. No high school work may be counted on this requirement).

- French, any two consecutive courses from the following: 1, 1A, 1B, 2, 3 (or 3A, 3B), 25A, 25B.
- German, any two consecutive courses from the following: 1, 1A, 1B, 2, 3A, one of 3C, 3D, 3E, 3F, 3G, or 3K, 3, 6, 7, 25A, 25B.
- Greek, 1A-1B.
- Italian, any two consecutive courses from the following: 1, 1A, 1B, 2, 3A, 3B.
- Latin, any two consecutive courses from the following: A, B, 1, 2, 5A, 5B.
- Spanish, any two consecutive courses from the following: 1, 1A, 1B, 2, 3 (or 3A, 3B), 20, 25A, 25B.

3. Mathematics:

Any two of the following courses: Mathematics OF, 2, 7, 8, 3A, 3B, 4A; Statistics 1.

4. Social Sciences:

- Anthropology 1A-1B.
- Economics 1A-1B.
- Geography 1A-1B, 5A-5B.
- History 4A-4B, 5A-5B, 7A-7B, 8A-8B.
- Political Science 3A-3B, 31 and 32.
- Sociology 30A-30B.

5. Psychology

Psychology 21 and 22.

6. Philosophy:


7. Music, Art (acceptable only for students when the specific sequence is not the major):

- Art 1A-1B, 2A-2B, 4A-4B.

University Extension. Courses in the University of California Extension Division (either class or correspondence) may be offered in satisfaction of requirements for the degree of Associate in Arts provided they bear the same number as acceptable courses in the regular session. Equivalent courses bear the prefix "XL." Extension course may not, however, be offered as a part of the residence requirement.
Upper Division

Only those students who have been granted the Associate in Arts degree or the equivalent, or who have been admitted to the College with 60 or more units of advanced standing, will be registered in the upper division.

Requirements for the Bachelor's Degree

The bachelor's degree (see item 5 below) will be granted upon the following conditions:

1. The minimum number of units for the degree is 120. The student must attain at least a C average, that is, he must have obtained at least as many grade points as there are units in the total credit value of all courses undertaken by him in the University of California.

2. He must have been granted from the College of Applied Arts the degree of Associate in Arts or its equivalent.

3. He must have completed the course in American Institutions 101 (or its equivalent).

4. After the receipt of the degree of Associate in Arts, or the equivalent, the candidate must have completed at least 50 units of college work, of which at least 42 must be in upper division courses.

5. For the degree of Bachelor of Arts, he must have completed, with a scholarship average of at least one grade point for each unit of credit, a major of 36 units * of coördinated upper division courses approved by the Department of Art, the Department of Music, or the Committee on the Curriculum in Drama, and must have been recommended by such department or committee.

For the degree of Bachelor of Science, the candidate must have completed, with a scholarship average of at least one grade point per unit, a major of 36 units * of coördinated upper division courses approved by the Department of Home Economics, the Department of Mechanic Arts, the Department of Physical Education, or the Committee on the Group Major in Dance, and must have been recommended by such department or committee.

Each student is required to take at least 6 units in his major (either 3 units each term or 2 units one term and 4 units the other) during his last or senior year.

6. The candidate must have completed one minor of not less than 20 units of coördinated courses (aside from courses taken in education), not less than 6 of which shall be in upper division courses.

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* Courses in education which have been used in satisfaction of requirements for a teaching credential may not be counted as a part of the 36-unit major.
7. All candidates for the degree must complete the final 24 units of work in the College of Applied Arts. This regulation applies to students entering this University from other institutions or from the University of California Extension Division, and to students transferring from other colleges of this University.

8. Students who transfer to the University of California at Los Angeles from other institutions or from the University of California Extension Division with senior standing must complete at least 18 units in upper division courses in the College of Applied Arts, including at least 12 units in the major department. This regulation does not apply to students transferring from other colleges within the University.

9. No student is permitted to change his major after the opening of the last term of his senior year.

10. Any department offering a major in the College of Applied Arts may require from the candidates for the degree a general final examination in the department.

Students who fail in the lower division to attain at least a C average in any department may be denied the privilege of a major in that department. The major department may submit to the Dean of the College the name of any student who in the opinion of the department cannot profitably continue in the major, together with a statement of the basis for this opinion, and the probable cause of the lack of success. The Dean may permit a change in the major, or may, with the approval of the President, require the student to withdraw from the College.

Requirements for Graduation in the Public Health Nursing Curriculum

The degree of Bachelor of Science will be granted, upon recommendation of the Faculty of the College of Applied Arts, to students who have completed, with at least 120 units of work, the following requirements:

1. The student must be a graduate of an approved school of nursing.

2. The student must complete the equivalent of the requirements for the degree of Associate in Arts of the College of Applied Arts or of the College of Letters and Science at Los Angeles or at Berkeley.

3. The student must complete at least 60 units of such additional work as may be prescribed by the Committee on Curricula in Nursing, including the specific courses for the year of specialization in Public Health Nursing as outlined in the Curriculum in Public Health Nursing. Not more than 30 units of work completed in a school of nursing other than that of the University of California will be accepted in partial satisfaction of this requirement.
4. The final year must be spent in study in the academic departments of the University of California (at Los Angeles) subject to the approval of the Committee on Curricula in Nursing.

5. The field work in Public Health Nursing must be completed satisfactorily before the bachelor's degree is granted.

HONORS

Honorable Mention with the Degree of Associate in Arts. Honorable mention will be granted with junior standing to students who attain an average of at least two grade points for each unit of work undertaken. Such students remain in honors status for the rest of the undergraduate course unless the average for all work at the end of any term falls below two grade points for each unit undertaken.

The list of students who receive Honorable Mention with the degree of Associate in Arts is sent to the chairmen of the departments.

Honors Students in the Upper Division. The honors list will include the names of:

A. Students who received Honorable Mention with the degree of Associate in Arts and who are in their first term of the upper division.

B. Upper division students who have an average of at least two grade points for each unit undertaken in all undergraduate work in the University of California.

C. Other upper division students specially approved for listing in the honors status by the Committee on Honors, either upon recommendation made to the Committee by departments of instruction, or upon such other basis as the Committee may determine.

Honors with the Bachelor's Degree.

A. Honors will be granted at graduation only to students who have completed the major with distinction, and who have a general record satisfactory to the Committee on Honors. Departmental recommendations are reported to the Registrar.

B. Students who in the judgment of their departments display marked superiority in their major subject may be recommended for the special distinction of Highest Honors. Departmental recommendations are reported to the Registrar.

C. The Committee on Honors is empowered at its discretion to recommend to the Committee on Graduation Matters that Honors be granted only to students who have attained a B average or higher in the major, or in the upper division, or in all undergraduate work.

D. A list of students to whom Honors or Highest Honors in the various departments have been awarded is published in the annual COMMENCEMENT PROGRAMME.
ORGANIZED MAJORS AND CURRICULA

A major or curriculum consists of 36 units of coördinated upper division courses. The upper division unit requirement may represent courses in one or more departments. The details of the program must be approved by the officer in charge.

Special attention is directed to the courses listed as preparation for the major. In general, it is essential that these courses be completed before upper division major work is undertaken. In any event they are essential requirements for the completion of the major.

The major must, in its entirety, consist (1) of courses taken in resident instruction at this or another university (fall, spring, and summer terms), or (2) of courses with numbers having the prefix XL, XB, or X taken in the University of California Extension Division.

The student must attain an average grade of C (1 grade point for each unit of credit) in all courses offered as part of the major (or curriculum).

Departmental majors are offered in the following fields:

- Art
- Home Economics
- Music
- Mechanic Arts
- Physical Education for Men
- Physical Education for Women

Detailed statements of the requirements for these majors, as well as the work to be taken in preparation for them, will be found in the departmental announcements in this catalogue, and also in the ANNOUNCEMENT OF THE COLLEGE OF APPLIED ARTS.

GROUP MAJOR IN DANCE

The Group Major in Dance is designed to give students an opportunity to study in an area involving art, English, music, philosophy, physical education and psychology as related to dance. This curriculum is not planned to train professional dancers, but rather to offer those interested in dance a program of study in contributing fields.


The Group Major. Required: Art 101B or 183A, English 114A–114B, Philosophy 136, Psychology 135 or 177, 138, Physical Education 114A, 120, 130A–130B, 155, 156, 321A–D, and 3 or 4 units to be selected from Physical Education 104A–104B, 114B, 172, 180, 198. Recommended minor: either English or art; English 31, 117S, 153, or Art 101B or 183A, 168A–168B, and 4 units to be chosen on recommendation of the Committee on Group Major in Dance.
CURRICULUM IN DRAMA

The Curriculum in Drama offers students an opportunity to study in an area involving basic training in English literature, oral and literary interpretation, play production and directing, and some experience in design, supervision, and costume of the theater. This curriculum is not designed to train students professionally for the stage, but to offer those interested a program of coordinated courses in the field of the theater arts. It is an excellent preparation for the English-Speech field major looking toward the General Secondary Teaching Credential.


The Major. English 114A–114B, 117A, 6 units to be selected from 156, 157, 167, 177, 187; Public Speaking 111C, 155A–155B, 156; and 9 units to be selected from Art 101B, 168A, 168B, 173, 183A, 183B, Philosophy 136, Psychology 138, 177, Public Speaking 111D, 122.

Students who plan ultimately to complete the field major in English-Speech will need to take the following additional courses: English 106 (or 31), 153, 190A–190B, and must also pass the English Comprehensive Examination.

CURRICULA FOR NURSES

Combined College and Nursing Curriculum. The University offers through the Colleges of Letters and Science (Los Angeles or Berkeley), the College of Applied Arts (Los Angeles), and the School of Nursing and University Hospital in San Francisco, a five-year curriculum leading to the degree of Bachelor of Science and a Certificate in Nursing. Normally the work of the first two years is taken in the College of Letters and Science or the College of Applied Arts, and the final years in the University of California School of Nursing in San Francisco. For further information concerning the curriculum, see the Announcement of the School of Nursing which may be obtained from the Director of the School of Nursing, University of California Medical Center, San Francisco, California.

Nursing Education. The professional curriculum in Nursing Education is open to regular students who have received the degree of Associate in Arts or its equivalent in the College of Letters and Science (Berkeley or Los Angeles) and who have been graduated by schools of nursing approved by the University of California; also to candidates for the B.S. degree who have completed the first four years of the five-year curriculum in nursing. The curriculum requires one or more years with an additional four months of field practice and leads to the Certificate in Nursing Education. For further information, consult the Announcement of the School of Nursing.

Public Health Nursing. Registered nurses who have graduated from approved schools of nursing and who meet the University matriculation require-
ments may receive the degree Bachelor of Science in three or more years upon completing with an average grade of not lower than C, the lower division requirements in the College of Applied Arts or of the College of Letters and Science at Los Angeles or Berkeley, and a three-term program of specialization in nursing. A Certificate in Public Health Nursing may be obtained upon completion of the three-term program of specialization.

CURRICULUM IN PRE-NURSING

A suggested program for the two years of academic work at Los Angeles is given below. Additional information concerning lower division requirements will be found on previous pages.

Freshman Year

<table>
<thead>
<tr>
<th>Subject A (if required)</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
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</thead>
<tbody>
<tr>
<td>Physical Education 4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education 2, 44</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 2A</td>
<td>5</td>
<td></td>
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<tr>
<td>Zoology 1, 13</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English 1A-1B (or Public Speaking 1A-1B or 2A-2B)</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Home Economics 32</td>
<td>2</td>
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</tr>
<tr>
<td>Electives</td>
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Normal total ...................................... 16 16

Sophomore Year

<table>
<thead>
<tr>
<th>Subject A (if required)</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Zoology 16, 35</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 11A</td>
<td>3</td>
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<tr>
<td>Psychology 21, 22</td>
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<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Normal total ...................................... 16 16

CURRICULUM IN PUBLIC HEALTH NURSING

Admission to the Curriculum in Public Health Nursing is limited to students meeting requirements as follows:

1. Nurse registration in California or in the state of the student's residence.
2. Matriculation in the University as a regular student. Both elementary algebra and plane geometry are required. Send State Registration Certificate (and self-addressed stamped envelope for its return) with application to the Office of Admissions, University of California, Los Angeles.
3. Completion of Sociology 30A-30B and Psychology 21, 22 or approved equivalent courses.

† Not required for students planning to enter the School of Nursing, University of California.
* Inclusion of Sociology 30A-30B is recommended.
Certificate Requirements. The Certificate in Public Health Nursing will be awarded upon satisfaction of the following requirements and approval of the Committee on Curricula in Nursing:

(a) A total of not less than 36 units with a scholarship average of C, or higher, including

- Sociology ....................................................... 5 units
- Educational Psychology ..................................... 3 units
- Growth and Development of the Child ..................... 3 units
- Public Health and Preventive Medicine .................... 6 units
- Principles and Practice in Public Health Nursing ........ 3 units
- Administration and Organization in Public Health Nursing 3 units
- Elements of Nutrition ........................................ 2 units
- Social Case Work ............................................ 2 units

(b) American Institutions .................................... 2 units

(c) Continuous field service in public health nursing for a period of sixteen weeks* ............................................. 6 units

Both the program of courses and the plan of field work must be approved by the Committee on Nursing Curricula.

SUGGESTED PROGRAM FOR
YEAR OF SPECIALIZATION IN PUBLIC HEALTH NURSING

(For Registered Nurses)

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall term</td>
<td>Spring term</td>
</tr>
</tbody>
</table>

American Institutions .................................. 2 2
Sociology 120, 181 ..................................... 3 2
Psychology 110 ......................................... 3 2
Education 111 .......................................... 3 3
Public Health 101A-101B ............................... 3 3
Public Health Nursing 418, 419 .......................... 3 3
Public Health Nursing 402 ................................ 3 2
Home Economics 32 ..................................... 2 3
Electives .................................................. 3 3
Total ...................................................... 16 16

FIELD EXPERIENCE

Public Health Nursing 420. Field Experience in Public Health Nursing.*

Prerequisite: satisfactory completion of academic requirements with an average grade of C. Continuous supervised field assignment for 16 weeks with designated agencies. Previous staff experience in public health nursing does not exempt from this course. 6 units. Fee: $20. Available in regular session each term.

* This course is a requirement for the degree of Bachelor of Science for students in the Public Health Nursing Curriculum but does not count on the minimum unit requirement for the degree. It does not displace a term of residence or affect residence requirements.
College of Applied Arts

Degree Requirements. Satisfactory completion of the three-term program by a registered nurse, who has graduated from an approved school of nursing, and who in addition has met the lower division requirements in the College of Applied Arts will lead to the bachelor's degree (see page 95). It should be noted in connection with lower division work that the University accords no credit for "semiprofessional" or "terminal" courses.

PREPARATION FOR VARIOUS PROFESSIONAL CURRICULA

Certain courses given at the University of California at Los Angeles may be used as preparation for the professional colleges and schools of the University in Berkeley and in San Francisco.

PRE-ENGINEERING CURRICULA

The College of Engineering offers four-year curricula leading to the Bachelor of Science degree. The first two years' work may be taken at Los Angeles; the last two must be taken in the College of Engineering at Berkeley.

Students in this College may elect one of four curricula: (1) civil engineering; (2) electrical engineering; (3) mechanical engineering (with an option in agricultural engineering); (4) mining and metallurgy.

Engineering students must have two years of high school algebra, and will be seriously handicapped unless they have completed all of the following subjects in high school: algebra, 2 units; plane geometry, 1 unit; trigonometry, 1 unit; solid geometry, 3 units; physics, 1 unit; chemistry, 1 unit; mechanical drawing, 1 unit. Without this preparation it will be difficult or impossible to complete the required curriculum in eight terms, because the student cannot register for certain freshman and sophomore courses to which matriculation subjects are prerequisite.

CIVIL ENGINEERING

Freshman Year

<table>
<thead>
<tr>
<th>Subject A (if required)</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science 1A-1B</td>
<td>1 1/2</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 8, 3AB</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Engineering 2</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

16 1/2 16 1/2

§ Students in the Naval Unit will substitute prescribed courses in Naval Science, 3 units per term. For these students Astronomy 3 is not required.
Undergraduate Curricula

Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Units</th>
<th>Spring Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science 2A-2B</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 4A-4B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Astronomy 3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 8</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Physics 1D-1C</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Geology 5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chemistry 6A-8</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 1FA-1FB</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 3 (summer)</td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MECHANICAL AND ELECTRICAL ENGINEERING

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject A (if required)</td>
<td></td>
</tr>
<tr>
<td>Military Science 1A-1B</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 8, 3AB</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Civil Engineering 1LA</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 1FA</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total for Freshman Year:** 16½

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science 2A-2B</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 4AB</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 10AB</td>
<td>4</td>
</tr>
<tr>
<td>Physics 1D-1C</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 8</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical Engineering 10B</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical Engineering 2, 6</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

**Total for Sophomore Year:** 16½

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* Students in the Naval Unit will substitute prescribed courses in Naval Science, 3 units per term.

† Mechanical Engineering 1 is required only in the Transportation and Irrigation Engineering groups; Chemistry 6A, 8 is required only in the Sanitary and Municipal Engineering group.

* Normal total, 16 units.

‡ Students intending to complete the option in Agricultural Engineering should omit Civil Engineering 8 and Mechanical Engineering 10B, and adjust their programs so as to include Economics 1A-1B and Geology 2.
## MINING AND METALLURGY

### Freshman Year

<table>
<thead>
<tr>
<th>Subject A (if required)</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military Science 1A-1B</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 3A</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Mining 3</td>
<td>(2)</td>
<td></td>
</tr>
<tr>
<td>Physics 1A-1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Engineering D</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15¼</td>
<td>16¼</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Military Science 2A-2B</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 4A-4B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1D-1C</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Geology 5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mineralogy 3A-3B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 1A-1B</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 1A-1B</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Courses listed in one of the options below</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

#### OPTION IN MINING

| Civil Engineering 3 (summer) | 3               |                   |
| Chemistry 6A                | 3               |                   |
| Mechanical Engineering 1    | 3               |                   |

#### OPTION IN METALLURGY

| Chemistry 6A-6B             | 3               | 3                 |
| Mechanical Engineering 1    | 3               |                   |

#### OPTION IN ECONOMIC GEOLOGY

| Chemistry 6A-6B             | 3               | 3                 |
| Paleontology 1             | 2               |                   |
| Geology 3                  | 3               |                   |

#### OPTION IN PETROLEUM ENGINEERING

| Chemistry 6A, 8             | 3               | 3                 |
| Mathematics 1OA-1OB        | 2               | 2                 |

### PRE-OPTOMETRY

The University offers a four-year program in optometry, leading to the degree of Bachelor of Science and the Certificate of Completion in Optometry. The

§ Students in the Naval Unit will substitute prescribed courses in Naval Science, 3 units per term.

† Mechanical Engineering D is the substitute for Mining 3 offered at the University of California at Los Angeles.

* Normal total, 17 to 18 units.
first two years may be taken at Los Angeles; the last two years must be taken in the School of Optometry at Berkeley.

As prerequisites, students should offer the following high school subjects for matriculation: algebra, plane geometry, trigonometry, chemistry, physics, three years of foreign language, and mechanical drawing.

During the first two years, the following curriculum outline should be followed, with such choice of electives as will meet the requirement for the degree of Associate in Arts in the College of Letters and Science, which is prerequisite to admission to the School of Optometry:

### First Year

<table>
<thead>
<tr>
<th>Subject A (if required)</th>
<th>Units Fall term</th>
<th>Units Spring term</th>
</tr>
</thead>
<tbody>
<tr>
<td>§Military Science 1A-1B</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Public Speaking 1A-1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 8, CF†</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Normal total .................................. 17½ 17½

### Second Year

| §Military Science 2A-2B                 | 1½              | 1½                |
| Physical Education                      | 1               | 1                 |
| Mathematics 3A                          | 3               |                   |
| Psychology 21, 22                       | 3               | 3                 |
| Zoology 15, 16                          | 5               | 2                 |
| Foreign Language                        | 5               | 5                 |
| Electives                               | 1               | 1                 |

Normal total .................................. 16½ 16½

**PRE-PHARMACY CURRICULUM**

The College of Pharmacy offers a four-year curriculum leading to the degree of Bachelor of Science in Pharmacy. The first year is offered on the Berkeley, Davis, and Los Angeles campuses of the University. The remaining three years are given at the Medical Center, San Francisco.

The following high school preparation is recommended: English, 3 units; history, 1 unit; mathematics (algebra and plane geometry), 2 or 2½ units; chemistry, 1 unit; physics, 1 unit, or mathematics (including trigonometry), 3 units; German or French, 2 units; Latin, 2 units; biology, 1 unit. In addition a year of freehand drawing is recommended.

§ Students in the Naval Unit will substitute prescribed courses in Naval Science, 3 units per term.

† Required only of students who do not offer trigonometry for matriculation.
### Program of First Year

*(At Los Angeles)*

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Spring Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject A <em>(if required)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>§Military Science 1A–1B</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Chemistry 1A–1B</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Botany 1A–1B</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 8, CF†</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>‡English 1A–1B or Public Speaking 1A–1B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal total</td>
<td>17½</td>
<td>17½</td>
</tr>
</tbody>
</table>

§ Students in the Naval Unit will substitute prescribed courses in Naval Science, 3 units per term.

† Required only of students who do not offer trigonometry for matriculation.

‡ German may be substituted for English 1A–1B or Public Speaking 1A–1B provided German has not been taken in high school. Students are advised to take two years of German in high school when possible.
THE GRADUATE DIVISION

SOUTHERN SECTION

THE UNIVERSITY OF CALIFORNIA offers in the Graduate Division, Southern Section, advanced study leading to the degrees of Master of Arts, Master of Science, Doctor of Philosophy, and Doctor of Education, and to the certificates of completion for the general secondary and junior college teaching credentials. For more complete information concerning the work of the Division, and concerning the requirements for higher degrees, consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, which may be had upon application to the Registrar of the University of California, Los Angeles, California.

DEFINITION OF ACADEMIC RESIDENCE

Every regular graduate student must register for, attend, and complete upper division courses (courses in the 100 series) or graduate courses (200 series) amounting to at least 4 units a week for each term, in order to satisfy the minimum residence requirement in candidacy for any higher degree or certificate issued by the University.

STUDY-LIST LIMITS

In order to counteract the tendency to accumulate credits by sacrificing thoroughness and the high scholarly attainment which comes only through intense application, the University restricts the number of units in which a student may enroll.

A graduate student in a regular term is limited to 16 units when he takes only upper division courses, to 12 units when he takes only graduate courses, and to a total made up in the proper proportion of 12 to 16—as for example, 6 graduate and 8 upper division—when he takes both upper division and graduate courses.

Teaching assistants and others employed approximately on half time are limited to three-fourths of these totals. Four units of upper division or graduate courses is the program limit for graduate students engaged on full time in other occupations.

REQUIREMENTS FOR THE MASTER'S DEGREE

Preparation. The candidate's preliminary training for the degree of Master of Arts or Master of Science should be substantially the equivalent of that represented by the corresponding bachelor's degree. In the University of California, the bachelor's degree indicates eight years of systematic high school and college work distributed according to the University's requirements for the particular college or course in which the degree is offered.

If the candidate's undergraduate course has been deficient in breadth of fundamental training and fails to provide a proper foundation for advanced
work in the department or departments of his choice, it probably will be necessary for him to take specified undergraduate courses before he may be admitted to regular graduate status.

The degree. The Master of Arts degree is awarded for the completion of requirements in any of the major subjects of graduate study at the University of California at Los Angeles except agriculture, business administration, and home economics, in which the degree of Master of Science is given. Students in mathematics or science, however, who have fulfilled the requirements for the Bachelor of Science degree, as well as those for the master's degree, may be awarded the degree of Master of Science.

Major fields. The major fields for the master's degree are:

<table>
<thead>
<tr>
<th>Agriculture (Subtropical Horticulture)</th>
<th>English</th>
<th>Music</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology-Sociology</td>
<td>French</td>
<td></td>
</tr>
<tr>
<td>Applied Physics</td>
<td>Geography</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Art</td>
<td>Geology</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Botany</td>
<td>German</td>
<td>Physics</td>
</tr>
<tr>
<td>Business Administration</td>
<td>History</td>
<td>Physics-Meteorology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Home Economics</td>
<td>Political Science</td>
</tr>
<tr>
<td>Economics</td>
<td>Latin</td>
<td>Psychology</td>
</tr>
<tr>
<td>Education</td>
<td>Mathematics</td>
<td>Spanish</td>
</tr>
<tr>
<td></td>
<td>Microbiology</td>
<td>Zoology</td>
</tr>
</tbody>
</table>

Application for advancement to candidacy. Advancement to candidacy must occur not later than one term prior to the completion of requirements for the degree. Students are warned that such advancement is not automatic, but requires a formal application distinct from registration. A date one week after the filing of study lists is set each term for application for candidacy by those who hope to qualify for degrees at the close of that session.

Amount and distribution of work. A student must pursue one of the following plans at the option of the department of his major field for fulfillment of the requirements for the master's degree. Under either plan all requirements for the degree must be satisfied within a calendar year from the time of completion of the course requirement.

Plan I: Thesis Plan. At least 20 units and a thesis are required. The units must be taken in graduate or upper division undergraduate courses, and at least 8 of the 20 must be strictly graduate work in the major subject. No unit credit is allowed for the thesis. It is expected that the work of the graduate course, or courses, together with the thesis will not be less than half of the work presented for the degree. After these general and the special departmental requirements are met, the student may take any course in the 100 or 200 series, although he is subject to his major department's guidance in the

* At Scripps Institution of Oceanography, La Jolla.
distribution of his work among the departments. In addition, the major department may require any examination which seems necessary to test the candidate's knowledge of his field.

**Plan II: Comprehensive Examination Plan.** Twenty-four units of upper division and graduate courses are required, of which at least 12 units must be in strictly graduate courses in the major subject. After these general and the special departmental requirements are met, the student may take any course in the 100 or 200 series, although he is subject to his major department's guidance in the distribution of his work among the departments. A comprehensive final examination in the major subject, its kind and conduct to be determined by the department concerned, is taken by each candidate.

**Scholarship.** Only courses in which the student is assigned grades A, B, or C are counted in satisfaction of the requirements for the master's degree. Furthermore, the student must maintain an average of two grade points a unit in those courses and also in all others elected at the University subsequent to the bachelor's degree; this includes upper division or lower division courses taken in unclassified status. Three grade points for each unit of credit are given to grade A, two points to grade B, one point to grade C, none to grades D, X, and F. (See under Grades of Scholarship, page 44.)

**Foreign language.** A reading knowledge of a modern foreign language (other than that of the major subject, if the major is a foreign language) is required of each candidate for the master's degree; this requirement must be satisfied before the student is admitted to candidacy. The department of the candidate's major must approve the language selected. In specific instances the Dean of the Graduate Division may authorize the substitution of Latin for a modern language upon the recommendation of the department of the student's major. The examination is to be conducted by the language department in question.

**Residence.** The minimum period of academic residence required is two terms, of which at least one term must be spent at Los Angeles. The requirement may be satisfied in part by residence in the University's summer sessions of previous years, each of which counts as one-fourth of a year, or in the Graduate Division, Northern Section.

A student is not regarded as in residence unless he is actually attending, in a regular term, regularly authorized university exercises amounting to at least 4 units of upper division or graduate work.

Ordinarily all of the work for the master's degree is expected to be done in residence, but a graduate of this University or any other approved candidate may complete part of his work in absence, subject to the approval of the Graduate Council, the regulations on study in absence, and the minimum residence requirement of one year.
The thesis. The thesis is the student's report, in as brief a form as possible, of the results of his original investigation. Although the problems for master's degree candidates are of limited scope, they must be attacked in the same systematic and scholarly way as problems of greater magnitude, as, for example, one under investigation by a candidate for the doctor's degree. Before beginning his work on a thesis, the student must receive the approval of his major department and the instructor concerned, on the subject and general plan of investigation. Detailed instructions concerning the physical form in which theses must be submitted may be had upon application to the Dean of the Graduate Division.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Students who desire to become candidates for the doctor's degree should bear in mind that the degree of Doctor of Philosophy is granted by the University of California not for the fulfillment of technical requirements alone, such as residence and the completion of fundamental courses within a chosen field, but more for the student's general grasp of the subject matter of a large field of study and his distinguished attainments within it, for his critical ability, his power to analyze problems and to coordinate and correlate the data from allied fields to serve the progress of ideas. In addition, he must demonstrate, through his dissertation, the ability to make an original contribution to the knowledge of his chosen field, and throughout his career as a graduate student must prove himself capable of working independently.

Fields of study for 1942–1943. The fields of study open to candidates for the degree of Doctor of Philosophy are chemistry, English, geology, Germanic languages, history, horticultural science, mathematics, microbiology, oceanography, philosophy, physical-biological science, physics, political science, psychology, Romance philology, and zoology. Other fields and departments will be added as circumstances warrant.

Preparation. A prospective candidate for this degree must hold a bachelor's degree from one of the colleges of this University, based on a curriculum that includes the requirements for full graduate status in the department of his major subject, or must have pursued successfully an equivalent course of study.

Residence. The minimum residence requirement for the doctor's degree is two years, one of which, ordinarily the second, must be spent in continuous residence at the University of California at Los Angeles. (See also Program of Study, below.)

Foreign language. A reading knowledge of French and German is required of every candidate for the Ph.D. degree and this requirement must be satisfied before he takes the qualifying examinations for advancement to candidacy. In special cases, with the consent of the department of the candidate's major and the Dean of the Graduate Division, another language may be substituted for
one of those mentioned, provided the language selected has a clear bearing on
the candidate's field of research. The examination is to be conducted by the
language department in question, and certification by the language department
of the successful completion of this examination must be attached to the stu-
dent's application for permission to take the qualifying examinations for the
Ph.D. degree.

Program of Study. The student's program of study must be approved by the
Graduate Council, must embrace a field of investigation previously approved
by his department or interdepartment group, and extend over the full period
of study. However, recommendation for the degree is based on the attainments
of the candidate rather than duration of his study, and ordinarily not less than
three full years will be needed to finish the work.

Notice of Ph.D. degree candidacy. As early as possible, preferably at the end
of the first term of graduate study, the student should declare his intention
of proceeding to candidacy for the Ph.D degree. This notification should be
given to the department or interdepartment group of the student's field of
study and to the Dean; forms for the purpose may be had at the office of the
Dean of the Graduate Division.

Guidance committees. On receiving such notification an informal guidance
committee will be appointed by the department or interdepartment group of
the student's field of study to assist the student in making out his program and
in preparing him for the qualifying examinations. This committee must give
its written approval to the department before the student is permitted to take
these examinations and it ceases to exist as soon as he has passed the qualifying
examinations.

Qualifying examinations. Before he is admitted to candidacy, the student
must pass a series of qualifying examinations, both written and oral. The writ-
ten examinations may be administered by the department of the student's field
of study, but the oral examination must be conducted by his doctoral committee
(see below). The qualifying oral examination is never open to the public.

Doctoral committees. Upon nomination of the department or interdepart-
ment group of the student's field of study a doctoral committee will be ap-
pointed by the Graduate Council. This committee conducts the qualifying oral
examination (in some cases also the written examinations), supervises and
passes upon the student's dissertation, and conducts the final oral examination.
For this final oral examination additional members may be appointed to the
committee by the Dean of the Graduate Division in consultation with the
department.

Advancement to candidacy. The candidate must file his application, prop-
erly approved by the committee conducting the qualifying examinations, and
must report in person to the Dean of the Graduate Division who determines
whether all formal requirements have been met.
A minimum period of resident study approximately equivalent to two terms must intervene between the date of formal advancement to candidacy and the date of the final examination.

The dissertation. A dissertation on a subject chosen by the candidate, bearing on his principal study and showing his ability to make independent investigation, is required of every candidate for the degree. In its preparation the candidate is guided by his doctoral committee, which also passes on the merits of the completed dissertation, and the approval of this committee, as well as that of the Graduate Council, is required before he is recommended for the degree. Special emphasis is laid on this requirement. The degree is never given merely for the faithful completion of a course of study, however extensive.

The dissertation must be typewritten or printed. Specific instructions concerning the form may be obtained from the Dean of the Graduate Division. Two copies of the approved dissertation (if it is typewritten, the original and the first carbon) must be filed with the Dean two weeks before the proposed date of the final examinations, for later deposition in the University Library. In certain instances, however, the Graduate Council may authorize the final examination to be taken before the dissertation is accepted.

Final examination. The candidate’s final examination is conducted by his doctoral committee. The examination is oral and deals primarily with the relations of the dissertation to the general field in which its subject lies. Admission to the final examination may be restricted to committee members, members of the Academic Senate, and guests of equivalent academic rank from other institutions.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF EDUCATION

The requirements for the degree of Doctor of Education are similar in general outline to those for the degree of Doctor of Philosophy; for a detailed statement consult the Announcement of The School of Education, Los Angeles.

THE BACHELOR’S DEGREE FOR GRADUATE STUDENTS

Graduate students may be recommended as candidates for the degree of Bachelor of Arts or Bachelor of Science on completing at least 24 units during one or more years of attendance upon such courses of instruction as are regularly pursued by seniors in the University of California, and on performing such additional work and passing such examinations as may appear necessary to the Executive Committee of the appropriate college. Candidates for a bachelor’s degree may register as graduate students with the permission of the Graduate Council, but their course of study will be subject to the jurisdiction of the college concerned, which college shall set requirements and shall also make recommendation for the degree. In all cases candidates must satisfy the require-
ment of 36 units of advanced studies in the College of Letters and Science, or their equivalent in the colleges of applied science, not all of which, however, need have been completed while in residence at this University. No person will be recommended for a bachelor's degree who shall not have satisfied substantially, at the time of procedure to the degree, the conditions imposed upon undergraduate students at the University of California.
THE SCHOOL OF EDUCATION, established on the Los Angeles campus July 1, 1939, offers professional curricula to students preparing for teaching service in elementary and secondary schools, and for experienced teachers desiring preparation for educational administration, research, or other specialized phases of public school education. The School of Education makes provision for all types of teacher training formerly offered in the Teachers College, which was discontinued on June 30, 1939.*

Applicants for admission to the School of Education must be students in good standing in the University of California, must have completed the requirements for the degree of Associate in Arts in one of the colleges of the University, or the equivalent, and must be approved by a physician of the University of California as having met the health requirements of the State Board of Education.

Although admission to curricula of the School of Education is contingent upon the attainment of full junior standing, as defined above, representatives of the School will be glad to advise students interested in the most effective preparation for various teaching fields, during their freshman and sophomore years. All such students are urged to consult the Dean of the School of Education as early as possible in their academic careers.

The School of Education offers curricula leading to certificates of completion and State credentials authorizing service in the following fields:

1. Kindergarten-Primary
2. Elementary
3. Junior High School
4. Special Secondary in the fields of:
   a. Art
   b. Business Education
   c. Homemaking
   d. Industrial Arts
   e. Music
   f. Physical Education
   g. Trade and Industrial Education
5. General Secondary
6. Junior College

* Students holding teaching credentials issued by the Los Angeles State Normal School or by the Teachers College of the University of California, and students registered in the Teachers College who have completed at least 12 units in regular sessions prior to July 1, 1939, may qualify for the degree, Bachelor of Education, on the basis of requirements in effect during the academic year 1938-1939, provided that these requirements are completed prior to September 15, 1948. After that date the degree of Bachelor of Education will not be awarded.
7. Elementary School Administration  
8. Secondary School Administration  
9. Special Supervision.

It is no longer possible for new students to enroll in the Teachers College. Students planning to prepare for kindergarten-primary or elementary school teaching may enroll either in the College of Letters and Science, or if their major interests lie in the fields of art, homemaking, industrial arts, music, or physical education, in the College of Applied Arts. Those enrolling in the College of Letters and Science should choose the general major, or a major related to the curriculum of the elementary schools.

Students desiring to prepare for the special secondary credential, which is limited to one field, should enroll in the College of Applied Arts if the proposed major is art, homemaking, industrial arts, music, or physical education. Those desiring the special secondary credential in business education may register either in the College of Business Administration, or the College of Letters and Science with a major in economics.

Candidates for the general secondary credential may enroll for their undergraduate work in the College of Letters and Science, the College of Agriculture, the College of Business Administration, or the College of Applied Arts (if the major is art, homemaking, music, or physical education).

It is highly desirable that all students preparing for teaching consult the Educational Counselor of the School of Education as early as possible in their academic careers, in order that their programs of study may be efficiently planned.

A complete statement of curricula, requirements, and procedures in the School of Education will be found in the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES, which may be obtained at the office of the Dean, 231 Education Building on the Los Angeles campus, or by mail upon application to the Registrar of the University of California, Los Angeles, California.
ANNOUNCEMENT OF COURSES FOR THE
FALL AND SPRING TERMS
ACADEMIC YEAR 1942–1943

CLASSIFICATION AND NUMBERING

Courses are classified and numbered as follows:

Undergraduate courses. These are of two kinds, lower division and upper division.

A lower division course (numbered 1–49, or sometimes indicated by a letter if the subject is one usually given in high school) is open to freshmen and sophomores, and does not count as upper division work in any department.

An upper division course (numbered 100–199) is advanced study in a field which has been pursued in the lower division, or elementary work in a subject of sufficient difficulty to require the maturity of upper division students. A lower division student (except in Agriculture) may not take an upper division course without written permission of his dean.

Graduate courses (numbered 200–299) are open only to students accepted in regular graduate status. As a condition for enrollment in a graduate course the student must submit to the instructor in charge of the course evidence of satisfactory preparation for the work proposed; adequate preparation will consist normally of the completion of at least 12 units of upper division work basic to the subject of the graduate course. Students in unclassified graduate status are not admitted to graduate courses.

Teachers' courses (numbered 300–399) are highly specialized courses dealing with methods of teaching specific subjects, and are acceptable toward academic degrees only within the limitations prescribed by the various colleges.

ABBREVIATIONS

In the following list of courses, the credit value of each course in semester units is indicated by a number in parentheses after the title. A unit of registration is one hour of the student's time at the University, weekly, during one term, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation. The session in which the course is given is shown by Roman numerals: I for the fall term, and II for the spring term. A course given throughout the period October to June is designated: Yr. The assignment of hours is made in the SCHEDULE OF CLASSES AND DIRECTORY to be obtained at the time of registration.

Year courses. A course given in a period of two terms is designated by a double number. Economics 1A–1B is an example. Each half of the course constitutes a term's work. The first half is prerequisite to the second unless there is an explicit statement to the contrary. The instructor makes a final report on the student's work at the end of each term. Unless otherwise noted, the student may take the first half only and receive final credit for it.
AGRICULTURE

Agriculture

William II. Chandler, Ph.D., Professor of Horticulture.
Robert W. Hodson, M.S., Professor of Subtropical Horticulture.
Martin B. Huberty, Engr., Professor of Irrigation.
Claude B. Hutchison, M.S., LL.D., D.Agr. (hon.c.), Professor of Agriculture (Chairman of the Department).
Ralph H. Smith, Ph.D., Professor of Entomology.
Kenneth F. Baker, Ph.D., Associate Professor of Plant Pathology.
Sidney H. Cameron, Ph.D., Associate Professor of Subtropical Horticulture.
Frederick F. Halma, Ph.D., Associate Professor of Subtropical Horticulture.
David Appleman, Ph.D., Assistant Professor of Plant Nutrition.
Jacob B. Biale, Ph.D., Assistant Professor of Subtropical Horticulture.
Walter E. Lammers, Ph.D., Assistant Professor of Ornamental Horticulture.

Letters and Science List.—Agricultural Economics 3, 104, Entomology 1, 134, Plant Pathology 120, Soil Science 110. For regulations governing this list see page 68.

Upper Division Courses.—All upper division courses announced by this department presuppose at least junior standing in the College of Agriculture. Juniors and seniors in other colleges may elect such courses in the Department of Agriculture as they are qualified to pursue.

Preparation for the Major in Horticulture.—Horticulture 2 and 10 or the equivalent, and the requirements in the Plant Science Curriculum (see pages 86, 87 of this catalogue, or the Prospectus of the College of Agriculture).

The Major in Horticulture.—Twelve units of upper division courses. Inclusion of Horticulture 100, 101, and 102 is recommended for those who plan to specialize in fruit culture.

Preparation for Other Majors in the Plant Science Curriculum.—See the Prospectus of the College of Agriculture and consult the appropriate advisers for students in Agriculture.

Laboratory Fees.—Soil Science 113, $11.50; Horticulture 100, $3.50.

AGRICULTURAL ECONOMICS

Lower Division Course

3. Agricultural Background of American Civilization. (2) III.

Mr. Roy J. Smith

The character of American agriculture; its evolution from pioneer life to modern industry; principal types; European background; technology on the
Agriculture

farm; population and migration; rural and urban relationships; economic and social problems; agrarian movements and governmental activities.

UPPER DIVISION COURSES

101A. Principles of Marketing Agricultural Products. (3) I.
Prerequisite: Economics 1A-1B. Mr. Roy J. Smith
Nature of the problems, types of marketing agencies, principal marketing functions and their combination, marketing costs and margins, price quotations and speculation in farm products. Government in its relation to marketing; consideration of proposals for improvement.

104. Agricultural Economics. (3) II. Mr. Roy J. Smith
Prerequisite: Economics 1A-1B.
A study of the application of the principles of economics to the problems of agricultural production.

118. Farm Management: Business Organization. (3) II. Mr. Roy J. Smith
The place, purpose and scope of organization; community and farm basis; farm enterprise; selecting farms; planning and equipping; capital needs; earnings.

ENTOMOLOGY

LOWER DIVISION COURSE

1. General Entomology. (4) II. Mr. Bohart
Lectures, three hours; laboratory, three hours.
A general course designed to provide the student with a well-rounded knowledge of entomology, including the fundamental facts and principles of insect life and control.

UPPER DIVISION COURSES

134. Insects Affecting Subtropical Fruit Plants. (4) II. Mr. Ralph H. Smith
Lectures, two hours; laboratory, six hours. Recommended preparation: Zoology 1, Entomology 1.
Specialized study of the biology, damage caused by, and control of the more important insects affecting citrus and other subtropical fruit plants.

199A–199B. Special Study for Advanced Undergraduates. (2–4; 2–4) Yr. Mr. Ralph H. Smith, Mr. Bohart
Prerequisite: senior standing and the consent of the instructor.

HORTICULTURE

LOWER DIVISION COURSES

2. Elements of Fruit Production. (3) I. Mr. Hodgson
Prerequisite: Botany 1A–1B or equivalent. This course is equivalent to Pomology 2A, given at Berkeley and at Davis.
The principles and practices of fruit growing, with special reference to subtropical regions. The climatic, soil, and moisture requirements and adaptations of fruit trees; selection of site, propagation, planting, orchard management practices, harvesting, and preparation for market. Survey of the industry in the United States.

* Not to be given, 1942–1948.
10. **Plant Propagation.** (2) II. Mr. Cameron

Laboratory, six hours. Prerequisite: Botany 1A–1B and course 2, or the equivalent.

The principles of plant propagation, with special reference to horticultural plants.

**Upper Division Courses**

100. **Systematic Pomology.** (4) I. Mr. Halma

Lectures, two hours; laboratory, six hours. Prerequisite: course 2, or the equivalent. Fee, $3.50.

The botanical classification and relationships of the principal fruits; horticultural races and groups; growth and bearing habits; bud and fruit morphology; varietal characters.

101. **Citriculture.** (4) II. Mr. Hodgson

Lectures, three hours; laboratory, three hours; four Saturday field trips. Prerequisite: Chemistry 1A–1B, course 2 or the equivalent.

The characteristics of the citrus fruits and their responses to environmental influences and cultural practices; the economics of the citrus fruit industry.

102. **Major Subtropical Fruits Other Than Citrus.** (3) I. Mr. Hodgson, Mr. Halma

Lectures, three hours; three Saturday field trips. Prerequisite: course 2 or the equivalent. Offered alternately with course 107.

A survey of the knowledge concerning the requirements and responses of the major subtropical fruit plants other than Citrus; the economics of their industries. The fruits considered will include the walnut, pecan, almond, fig, olive, avocado, date, and oriental persimmon.

104. **Advanced Horticulture.** (3) I. Mr. Cameron

Lectures and discussions, three hours. Prerequisite: course 2 or the equivalent, Botany 7 or the equivalent, course 100, and course 102.

An analysis of the knowledge concerning the responses of fruit trees to environmental and cultural influences, with special reference to subtropical regions.

107. **Minor Subtropicals and Hardy Tropics.** (2) II. Mr. Hodgson

Lectures, two hours; one Saturday field exercise. Prerequisite: course 2 or the equivalent; course 100 recommended. Offered alternately with course 102.

A survey of the knowledge concerning the requirements and responses of the minor subtropical fruit plants and the hardy tropics. The fruits considered will include the pomegranate, tuna or prickly pear, passion fruit or granadilla, loquat, cherimoya, guava, jujube, white sapote, feijoa, pistachio, macadamia, carob, litchi, mango, and papaya.

112. **Fruit Physiology and Storage Problems.** (2) II. Mr. Biale

Lectures and discussions, two hours. Prerequisite: the consent of the instructor.

Ripening processes of fruit on the tree; maturity standards and tests; ripening and respiration as affected by ethylene gas treatment; chemical and physiological changes at low temperatures; cold storage and refrigerated gas storage; role of volatile substances; differences in species and varietal responses.

*Not to be given, 1942–1943.*
131A-131B. Taxonomic Classification and Ecology of Ornamental Plants. (2-2) Yr. 
Mr. Lammerts

Lecture, one hour; laboratory, three hours. Prerequisite: courses 2 and 10, or the equivalent (course 10 may be taken concurrently).

The botanical classification, relationships, and identification of the more important ornamental plants in southern California, with special emphasis on their environmental requirements and adaptations.

136A-136B. General Floriculture. (2-2) Yr. 
Mr. Mehlquist

Lecture, one hour; laboratory, three hours. Prerequisite: courses 2 and 10, or the equivalent (course 10 may be taken concurrently).

Principles and practices of general floriculture, with special reference to the more important flower crops grown in California.

199A-199B. Special Study for Advanced Undergraduates. (2-4; 2-4) Yr. 
The Staff

Prerequisite: senior standing and the consent of the instructor.

GRADUATE COURSES

255A-255B. Seminar in Horticulture. (1-1) Yr. 
Mr. Biale in charge

281A-281B. Research in Horticulture. (1-6; 1-6) Yr. 
The Staff

IRRIGATION

UPPER DIVISION COURSES

110. Principles of Irrigation. (4) I. 
Mr. Huberty

Lectures, three hours; laboratory, three hours. Prerequisite: Physics 2A-2B or the equivalent.

Irrigation as a factor in agriculture; effect of soil characteristics upon the movement and storage of water; the availability of soil moisture to plant growth; development of the farm irrigation water supply. To fill a need of subtropical horticulture majors, some time is spent on the study of the origin, evolution, characteristics, classification, and conservation of soils.

199A-199B. Special Study for Advanced Undergraduates. (2-4; 2-4) Yr. 
Mr. Huberty, Mr. Pillsbury

Prerequisite: senior standing and the consent of the instructor.

PLANT PATHOLOGY

UPPER DIVISION COURSES

120. Plant Diseases. (4) I. 
Mr. Baker

Lectures, two hours; laboratory, six hours. Prerequisite: Botany 1A-1B or the equivalent, and Bacteriology 1.

A general fundamental course treating of the nature, cause, and control of plant diseases.

130. Diseases of Subtropical Fruit Plants. (4) I. 
Mr. Miller

Lectures, three hours; laboratory, three hours. Prerequisite: Botany 1A-1B or the equivalent, and Bacteriology 1; course 120 is recommended.

The pathology of citrus and other subtropical fruit plants. The distribution, economic importance, nature, cause, and control of the principal diseases.
Agriculture

199A–199B. Special Study for Advanced Undergraduates. (2–4; 2–4) Yr.  
Mr. Miller, Mr. Baker  
Prerequisite: senior standing and the consent of the instructor.

SOIL SCIENCE  
UPPER DIVISION COURSES  

110. The Soil as a Medium for Plant Growth. (4) II.  
Mr. Appleman  
Lectures, three hours; one additional period to be arranged. Prerequisite:  
Chemistry 1A–1B, 8.  
Nutritional requirements of plants; studies of the absorption of mineral  
elements by plants, and related processes; chemical composition of soils; cur-  
rent views of the soil solution and of base exchange; factors determining pro-  
ductivity of soils; soil and plant interrelations.

113. Soil Chemistry in Relation to Plant Growth. (3) II.  
Mr. Appleman  
Lecture, one hour; laboratory, six hours. Prerequisite: Chemistry 1A–1B,  
6A; course 110 (may be taken concurrently). Fee, $11.50.

199A–199B. Special Study for Advanced Undergraduates. (2–4; 2–4) Yr.  
Mr. Huberty, Mr. Appleman, Mr. Pillsbury
ANTHROPOLOGY AND SOCIOLOGY

*RALPH L. BEALS, Ph.D., Associate Professor of Anthropology.
CONSTANTINE PANUNZIO, Ph.D., Associate Professor of Sociology.
HARRY HOIJER, Ph.D., Assistant Professor of Anthropology (Chairman of the Department).
LEONARD BLOOM, Ph.D., Assistant Professor of Sociology.

GEORGE FOSTER, Ph.D., Lecturer in Anthropology.

Letters and Science List.—All undergraduate courses in anthropology and sociology are included in the Letters and Science List of Courses. For regulations concerning this list, see page 68.

MAJOR IN ANTHROPOLOGY

Preparation for the Major.—Required: Anthropology 1A–1B and at least 6 units chosen from a list of approved courses. Copies of this list may be obtained from the adviser or from the chairman of the department.

The Major.—Courses 101A–101B, 105, and 9 units chosen from upper division courses in anthropology; and 6 additional units which may be chosen from upper division courses in anthropology or sociology, or from an approved list of related courses in other departments. Copies of this list may be obtained from the adviser or from the chairman of the department.

MAJOR IN SOCIOLOGY

Preparation for the Major.—Required: Sociology 30A–30B, Economics 40 or 142 or Statistics 1 (taken either in lower or upper division), and at least 6 units of courses in other departments selected from a recommended list in accordance with the student’s proposed field of specialization. Copies of this list should be obtained from the faculty adviser.

The Major.—Twenty-four upper division units; 6 to 9 units of courses in other departments will be accepted toward completion of the major. A list of such courses, which are prescribed in accordance with various fields of specialization, should be obtained from the faculty adviser.

Graduate Work.—The master’s degree in anthropology and sociology is offered with a concentration in one discipline. The department will follow Plan II, Comprehensive Examination. For details of requirements for the examination consult the departmental adviser.

Social Welfare.—The University of California at Los Angeles offers no graduate professional training in social welfare. Students interested in this type of training are referred to the Department of Social Welfare at Berkeley. The major in sociology may be offered in satisfaction of the entrance prerequisites of the Department of Social Welfare at Berkeley and other approved schools of social work. Specified courses in other departments are also required for those wishing preprofessional training in social welfare. A list of such courses may be secured from the faculty adviser. See also page 79.

* Absent on leave, 1942–1943.
ANTHROPOLOGY

1A. General Anthropology. (3) I. Mr. Foster
Origin, antiquity, and races of man; physical anthropology; race problems; current racial theories.

1B. General Anthropology. (3) II. Mr. Foster
Origin and growth of culture. Problems in invention, material culture, social institutions, religion, language.

UPPER DIVISION COURSES

Courses 1A, 1B or the equivalent are prerequisite to all upper division courses, except for majors in economics, geography, history, political science, psychology, or sociology.

101A–101B. World Ethnography. (3-3) Yr. Mr. Foster
A descriptive survey of representative primitive cultures, including backward people of civilized countries.

108. Culture History. (3) II. Mr. Foster
A general survey of the origin and development of early civilizations of the Old World: Europe, Asia, Africa, Oceania.

105. The American Indian. (3) I. Mr. Foster
An introductory survey of the Indians of North and South America; origins, languages, civilizations, and history.

125. Comparative Society. (3) I. Mr. Hoijer
A survey of the social institutions of the simpler peoples of the world: marriage and the family, division of labor, totems and clans, social stratification, economic organizations, political institutions, etc.

139. Peoples of Africa. (3) I. Mr. Hoijer
A study of the diverse civilizations of Africa in prehistoric and modern times; relations with Europe and Asia; problems arising from European colonization.

140. Ancient Civilizations of Mexico and Peru. (3) I. Mr. Beals
Students who have had former course 104 may receive only half credit for this course.
Aztecs, Mayas, Incas, and their predecessors; origins, archaeology, traditions, history; social and political systems; religion; art and architecture; intellectual achievements.

141. Indians of Modern Mexico. (3) II. Mr. Beals
Not open for credit to students who have had former course 104.
The contemporary Indian groups in Mexico; the present cultures and their derivations; the problem of the mixed culture; Indian influences on modern Mexican culture.

147. Peoples of the South Pacific. (3) II. Mr. Hoijer
The aboriginal civilizations of Australia, Malaysia, Melanesia, Micronesia, and Polynesia in prehistoric and modern times; changes arising from European contact and colonization.

* Not to be given, 1942–1948.
Anthropology and Sociology

199A–199B. Special Problems in Anthropology. (2–2) Yr.
Mr. Hoijer in charge
Prerequisite: six units of upper division anthropology, and the consent of
the instructor.

GRADUATE COURSES

252A–252B. Theory and Method of Anthropology; Seminar. (2–2) Yr.
Mr. Hoijer
256A–256B. Primitive Social Institutions; Seminar. (2–2) Yr. Mr. Hoijer
257A–257B. Problems in Cultural Anthropology; Seminar. (2–2) Yr.
Mr. Beals
272A–272B. American Indian Languages; Seminar. (2–2) Yr. Mr. Hoijer.
Prerequisite: General Philology and Linguistics 170, 171.

RELATED COURSES IN ANOTHER DEPARTMENT (See page 181)

General Philology and Linguistics 170. Introduction to Linguistics. (3) II.
Mr. Hoijer
General Philology and Linguistics 171. Introduction to Phonetics. (3) II.
Mr. Hoijer

SOCIOLOGY

LOWER DIVISION COURSE

30A–30B. Social Institutions. (3–3) Yr. Mr. Panunzio in charge
This course or its equivalent is prerequisite for admission to upper divi-
sion courses in sociology. Students presenting credit for another elementary
course in sociology may, by special permission, take 30A–30B for credit also.
The social institutional order; the originating factors, functions and
problems of marriage, the family, government, and other institutions.

UPPER DIVISION COURSES

Course 30A–30B or its equivalent is a prerequisite to all upper division
courses in sociology except 142.

120. Social Maladjustment. (3) I, II.
Mr. Bloom
Selected problems in social and societal maladjustment.

121. Social Processes. (3) I.
Mr. Panunzio
A theoretical study of group structure and functioning: the processes of
contact, interaction, association, and dissociation as they operate among
individuals in groups.

142. Marriage and the Family. (3) I.
Mr. Bloom
The marriage-family system: development, modern functions, charac-
teristics, and maladjustments.

143. Urban Sociology. (3) II.
Mr. Bloom
Urban and rural cultures; the characteristics of cities in western civiliza-
tion with emphasis on the American metropolis.

* Not to be given, 1942–1943.
181. Care of Dependents. (2) II.
   Prerequisite: course 120.
   Various types of dependency analyzed from the standpoint of social isolation and social control.

182. Crime and Delinquency. (2) I.
   Prerequisite: course 120.
   Varieties and theories of crime and punishment in contemporary and other societies; criminal behavior systems.

186. Demography. (3) I.
   Prerequisite: course 121 and senior standing.
   A study of the quantity, migration, concentration, and quality of modern Western people with particular reference to sociological phenomena.

186W. Population Problems of War and Reconstruction. (3) I.
   Prerequisite: course 121 and senior standing.
   Population factors in the war; rates of population growth of warring nations with special reference to man power, densities, and migration. Post-war reconstruction policies of migration and distribution of population.

189. Race and Culture. (2) II.
   Prerequisite: senior standing.
   The contact and interaction of races and cultures in the modern world, with particular reference to social consequences of amalgamation, hybridization, cultural assimilation, conflict, accommodation.

199A–199B. Special Problems in Sociology. (2–2) Yr.
   Prerequisite: six units of upper division sociology taken in the University with at least a B average, and the consent of the instructor.
   Contemporary sociological theories and research methods; theoretical or field investigation of a special phenomenon or problem.

GRADUATE COURSES

201A–201B. Theory and Method of Sociology. (2–2) Yr.
   The first term will emphasize theory, the second term, method.

242A–242B. Social Control. (2–2) Yr.

   Prerequisite: senior standing.

249A–249B. American Cultural Minorities. (2–2) Yr.

* Not to be given, 1942–1948.
ART

GEORGE JAMES COX, R.C.A., Professor of Art (Chairman of the Department).
ROBERT S. HILPERT, M.A., Associate Professor of Art Education.
LOUISE PINKNEY SOOY, Associate Professor of Fine Arts.
NEILIE HUNTINGTON GERE, Associate Professor of Fine Arts, Emeritus.
JAMES H. BREAUSTED, JR., M.A., Assistant Professor of Art.
HELEN CLARK CHANDLER, Assistant Professor of Fine Arts.
BESSIE E. HAZEN, Ed.B., Assistant Professor of Fine Arts, Emeritus.
LAURA F. ANDRESON, M.A., Instructor in Fine Arts.
GERTRUDE WICKES CROWFOOT, M.A., Associate in Art.
ANNITA DELANO, Associate in Fine Arts.
CLAIRE BARNET HUMPHREYS, M.A., Associate in Fine Arts.
ANNIE C. B. MCPHAIR, Ed.B., Associate in Fine Arts.
BELLE H. WHITICE, Associate in Fine Arts.
IDA ABRAMOVITCH, M.A., Associate in Art.
EVERETT C. ADAMS, M.A., Assistant in Art.
JOHN HAYWOOD JONES, Ed.B., Assistant in Art.
KENNETH G. KINGREY, M.A., Assistant in Art.
ROBERT TYLER LEE, Assistant in Art and Assistant in Dance.

NATALIE WHITE, M.A., Supervisor of Training, Art.

College of Applied Arts

Preparation for the Major.—Courses 1A–1B, 2A, 2B, 4A, 4B, 14A, 14B, 32A–32B, and four units chosen from the following: 15, 21A, 21B, 22, 43.

The Major.—Thirty-six units of coordinated upper division courses which may be taken in one of five specified curricula:

1. Curriculum in Appreciation and History.
   Courses 101A, 101B, 121A–121B, 131A, 131B, 144A, 144B, 161A–161B, 174A–174B; and 12 units to be approved by the departmental adviser.

2. Curriculum in Painting or Commercial Art.

3. Curriculum in Industrial Design.


College of Letters and Science

Programs for the General Major.—Two programs are offered in partial satisfaction of the requirements for the general major:

(A) History and Appreciation of Art; lower division preparation, courses 1A, 2A, 2B, 4B, 32B; the major, 12 to 15 units chosen from courses 121A–121B, 131A–131B, 161A–161B.

(B) Painting; lower division preparation, courses 2A, 4A, 4B, 14A, 32B; the major, 12 to 15 units chosen from courses 134A–134B, 144A–144B, 164A–164B, 174A–174B.


Graduate Division

Requirements for the Master’s Degree.—For the general requirements, see page 106. The Department of Art follows either Plan I, 20 units of graduate work and a thesis, or Plan II, 24 units of graduate work (including 4 units of an advanced project in the laboratory field as approved by the department) and a comprehensive examination.


Lower Division Courses

1A–1B. Art and Civilization. (2-2) Yr. Mr. Cox
The origin and function of the arts and their practical relation to contemporary civilization.

2A. Art Structure. (2) I, II. Miss McPhail
Fundamental course in creative design and color theory.

2B. Art Structure. (2) I, II. Miss McPhail, Miss Andreson
Prerequisite: course 2A.
Basic study of the elements of art as related to two-dimensional decorative design, applicable to industrial techniques and processes.

4A. Drawing. (2) I, II. Mr. Adams
The application of free and mechanical perspective to the problems of drawing and industrial design.

4B. Drawing. (2) I, II. ———, Mrs. Abramovitch
Prerequisite: course 4A.
Objective drawing of natural forms from observation and memory.

14A. Water-color Painting. (2) I. Mrs. Abramovitch
Prerequisite: courses 1A, 2A, 2B, 4A, 4B.
Still life; the study of water-color techniques; observation of color as related to form, light, and space.

14B. Water-color Painting. (2) II. Miss Chandler, Miss Delano
Prerequisite: course 14A.
Development of techniques as related to industrial design, costume, and interior decoration.
15. **Lettering.** (2) I, II.  
Prerequisite: courses 1A, 2B.  
The design of lettering; composition using type forms; simple problems in layout.

21A. **Costume.** (2) I.  
Lectures and demonstrations.  
Appreciative study of modern dress.

21B. **House Furnishing.** (2) II.  
Lectures and demonstrations.  
Appreciative study of modern house furnishing.

22. **Design in Three Dimensions.** (2) I, II.  
Prerequisite: courses 1A, 2A, 2B.  
The fundamental processes of the major crafts; principles of design as related to three-dimensional form; experiments in the use of plastic materials in abstract composition.

27. **Minor Crafts.** (2) I, II.  
A course designed to meet the needs of recreational workers, occupational therapists, social workers, and others interested in handcraft.

32A-32B. **Design in Painting.** (2-2) Beginning either term.  
Prerequisite: courses 1A, 2B, 4B.  
The development of the ability to compose imaginatively with line, space, and color.

42. **Introduction to Art.** (3) I, II.  
Not open to students whose major is art.  
An exploratory course to develop an understanding and appreciation of art as an aspect of all activities of daily life.

48. **Art of the Theater.** (2) I, II.  
The visual art of the theater; use of materials and equipment of the modern stage.

**UPPER DIVISION COURSES**

101A. **History of Furniture.** (2) I.  
The history of furniture from ancient to modern times.

101B. **History of Costume.** (2) II.  
The history of costume from ancient to modern times.

117A-117B. **Ceramics.** (2-2) Yr.  
Prerequisite: course 22. Fee, $2.50 a term.  
Pottery, related to art and industry.

121A-121B. **Survey of the History of Art.** (2-2) Yr.  
Prerequisite: course 1A.  
A critical study of important phases in the development of Western art after 1500.
127A–127B. Bookbinding. (2–2) Yr. Miss Whitiee
Practical work in bookbinding, using various types of book construction and binding materials.

131A. Art Epochs: Gothic and Renaissance. (2) I. Mr. Breasted
131B. Art Epochs: Romantic and Modern. (2) II. Mr. Breasted
132A–132B. Design in Industry. (2–2) Yr. Miss Delano
Prerequisite: course 22.
Study of materials, processes, and functions of the art industries, leading to original design.

134A–134B. Landscape Painting. (2–2) Yr. Miss Delano
The development of personal vision and individual expression as applied to landscape painting. Survey of modern and traditional schools.

135. Book Illustration. (2) II. Miss Chandler
Prerequisite: courses 144A, 164A.
Pen and ink, wood engraving, and color.

144A. Oil Painting. (2) I. Miss Chandler
Prerequisite: course 144A.
The techniques of oil painting; development of perception and understanding of the essential qualities of form, light, color, and their integration in painting.

144B. Oil Painting. (2) II. Miss Chandler
Prerequisite: course 144A. Fee, $2.50.
A continuation of course 144A.

147A. Weaving. (2) I. Miss Whitice
Prerequisite: course 22. Fee, $2.50.
History and development of weaving; experience with techniques and processes.

147B. Weaving. (2) II. Miss Whitice
Prerequisite: course 147A.
A continuation of course 147A.

155. Publicity and Propaganda. (2) I. Mrs. Crowfoot

156A. Interior Decoration. (2) I, II. Mrs. Crowfoot
Lectures, laboratory, and demonstrations. Prerequisite: course 21B.
The consideration of the home as a unit; the arrangement of garden, house, floor plan, and furniture as functional and decorative problems.

156B. Interior Decoration. (2) I, II. Mrs. Crowfoot
Prerequisite: courses 156A.
The study of the historical periods in relation to interior decoration; adaptation and original design.

161A–161B. Oriental Art. (2–2) Yr. Mr. Breasted
Prerequisite: course 1A and the consent of the instructor.
Selected problems from phases of Oriental art.
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<tr>
<th>Section</th>
<th>Title</th>
<th>Yr.</th>
<th>Instructor</th>
<th>Credit</th>
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<tbody>
<tr>
<td>164A-164B</td>
<td>Life Drawing</td>
<td>(2-2)</td>
<td>Mr. Cox</td>
<td>129</td>
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<td>165A</td>
<td>Advertising Illustration</td>
<td>(2) I</td>
<td>Mrs. Sooy</td>
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<td>Prerequisite: courses 15, 32B</td>
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<td>Design for advertising; emphasis upon type forms and composition; posters, booklets, layouts, etc.</td>
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<td>165B</td>
<td>Advertising Illustration</td>
<td>(2) II</td>
<td>Miss McPhail</td>
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<td></td>
<td>Prerequisite: course 165A</td>
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<td>Psychological factors in design and their relationship to merchandising.</td>
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<td>166A</td>
<td>Design for Theater Productions</td>
<td>(2) I, II</td>
<td>Mr. Lee</td>
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<td></td>
<td>Prerequisite: course 48</td>
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<td>The use of form, space, and color in the theater terms, and the employment of historical material.</td>
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<td>166B</td>
<td>Supervision of Theater Productions</td>
<td>(2) I, II</td>
<td>Mr. Lee</td>
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<td></td>
<td>Prerequisite: course 166A</td>
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<td>A practical course in supervision and organization with experience in design and execution of actual productions.</td>
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<td>173</td>
<td>Costume of the Theater</td>
<td>(2) I</td>
<td>Mrs. Sooy</td>
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<td>The decorative, historical, and psychological aspects of creative costume.</td>
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<td>174A-174B</td>
<td>Painting: Mediums and Techniques</td>
<td>(2-2)</td>
<td>Miss Chandler</td>
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<td>Prerequisite: senior standing</td>
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<td>Further experience in coordinating all the factors entering into a painting, and a technical study of methods and materials.</td>
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<tr>
<td>182A-182B</td>
<td>Design in Sculpture</td>
<td>(2-2)</td>
<td>Mr. Cox</td>
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<td>Prerequisite: courses 22, 164A-164B. Fee, $2.50 a term.</td>
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<td>Problems in creative expression; modeling of figures in terra cotta; portraiture.</td>
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<td>183A-183B</td>
<td>Modern Costume</td>
<td>(2-2)</td>
<td>Mrs. Sooy</td>
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<td>Prerequisite: course 21A.</td>
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<td>186A</td>
<td>Advanced Interior Decoration</td>
<td>(2) I</td>
<td>Mrs. Crowfoot</td>
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<td></td>
<td>Prerequisite: course 156B</td>
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<td>The study of color harmonies and form arrangements; the influence of fashion in interior decoration.</td>
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* Not to be given, 1942-1943.
186B. Advanced Interior Decoration. (2) II. Mrs. Crowfoot
Prerequisite: course 186A.
The technique of interior decoration; shop practice through actual problems in interior design in stores and homes.

199A–199B. Special Studies for Advanced Students. (1–4; 1–4) Yr.
Mr. Cox, Mrs. Sooy, Miss Chandler, Mr. Hilpert
Prerequisite: senior standing, an average grade of B or higher in courses in art, and the consent of the instructor.
Advanced individual work upon specific problems connected with art and education.

GRADUATE COURSES

*260A–260B. Seminar in Contemporary Art. (2–2) Yr. Mr. Cox and the Staff
A consideration of the social, economic, psychological, and philosophical (ethical and religious) influences shaping contemporary art.

271A–271B. Advanced History of Art: Seminar. (2–2) Yr. Mr. Breasted

299A–299B. Special Studies for Advanced Students. (1–6; 1–6) Yr.
Mr. Cox, Mrs. Sooy, Miss Chandler, Mr. Hilpert

PROFESSIONAL COURSES IN METHOD

330. Industrial Arts for the Elementary School. (3) I, II.
Fee, $2.50. Miss White, Miss Whitice

370A. Principles of Art Education. (2) I, II. Mr. Hilpert
A study of objectives, child growth and development; general educational principles as related to art education.

370B. Principles of Art Education. (2) I, II. Mr. Hilpert
A study of method and the curriculum in art education.

RELATED COURSE IN ANOTHER DEPARTMENT (See page 213)

Biology 24A–24B. Scientific Illustrating. (3–3) Yr. Mr. A. M. Johnson

* Not to be given, 1942–1943.
Astronomy

ASTRONOMY

FREDERICK C. LEONARD, Ph.D., Associate Professor of Astronomy (Chairman of the Department).

SAMUEL HERRICK, Jr., Ph.D., Assistant Professor of Astronomy.

JOSEPH KAPLAN, Ph.D., Professor of Physics.

Letters and Science List.—All undergraduate courses in astronomy are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: general astronomy and practice in observing (Astronomy 7A–7B and 2); general physics (Physics 1A–1B–1C–1D or, in exceptional cases, Physics 2A–2B); plane trigonometry, plane analytic geometry, and differential and integral calculus (Mathematics CF, 3A, 3B, and 4A). Recommended: first-year English (English 1A–1B) and a reading knowledge of French or German.

The Major.—At least 18 upper division units of astronomy, of which 12 must be chosen from courses 102, 105, 107, 115, and 117A–117B, and as many more upper division units as are required to total 24, selected from courses in astronomy, physics, or mathematics, according to some definite plan approved by the Department of Astronomy.

Lower Division Courses

There are two courses in general elementary astronomy, namely, a term course, Astronomy 1, without prerequisites, and a year course, Astronomy 7A–7B, with prerequisites in physics and mathematics. Students, particularly those majoring, or intending to major, in a physical science or mathematics, who have the prerequisites for Astronomy 7A–7B, are advised to take that course rather than Astronomy 1, which is not open to students who have had Astronomy 7A or 7B.

1. Elementary Astronomy. (3) I, II. Mr. Leonard, Mr. Herrick
Lectures, three hours; discussion section, one hour.

The general principles and the fundamental facts of astronomy, with particular emphasis on the solar system.

2. Practice in Observing. (1) I. Mr. Leonard, Mr. Herrick
Prerequisite: course 1 and plane trigonometry, or credit or registration in course 7A or 7B.

Practical work for beginners, including constellation studies, telescopic observations of celestial objects, laboratory exercises cognate to the material of courses 1 and 7A–7B, and regularly scheduled excursions to the neighboring observatories and planetarium.

3. Practical Astronomy for Engineering Students. (1) II. Mr. Leonard, Mr. Herrick

An observing period, 7:15–10 p.m., will be substituted occasionally for the regular class period. Prerequisite: Civil Engineering 1FA and credit or registration in Civil Engineering 1FB.

A course for students of civil engineering; the principles of practical
astronomy and spherical trigonometry as they relate to the needs of such students; solution of the fundamental problems of practical astronomy; use of the Almanac; and computing.

7A–7B. General Astronomy. (3–3) Yr. Mr. Leonard
Prerequisite or concurrent: a college course in physics and Mathematics 3A. Course 7B may be taken before 7A. Course 2 may be elected for observational and laboratory work in connection with this course, which is designed especially for students majoring, or intending to major, in a physical science or mathematics, and is required of those preparing to major in astronomy.

The general principles and the fundamental facts of astronomy in all of its branches, with special emphasis on the solar system, developed and discussed in detail.

12. Astronomy for Sea and Air Navigation Students. (3) I, II. Mr. Herrick
Lectures, three hours; laboratory, one hour.
The fundamental principles of astronomy underlying the navigation of ships and aircraft; the identification of the naked-eye stars and planets; the use of the Air Almanac and the Nautical Almanac; the determination of time, longitude, latitude, and the Sumner line of position.

15. Spherical Astronomy for Navigation Students. (3) I, II. Mr. Leonard
Prerequisite: two years of high school algebra, or Mathematics 8, and plane trigonometry (Mathematics CF or its equivalent).
A course in the fundamentals of spherical astronomy, designed especially for students of sea and air navigation, including spherical trigonometry and its applications to the coordinates on the earth and the celestial sphere; time; the correction of observations; the use of star maps and almanacs; and computing.

**UPPER DIVISION COURSES**

Lower division courses in astronomy are not prerequisite to upper division courses unless specified.

*100. The Historical Development of Astronomy. (3) I. Mr. Herrick
Prerequisite: a college course in astronomy or physics. This course is designed especially for students whose major subject is philosophy or a social science.
Astronomical and related science: its historical development, utilization of the scientific method, and effect upon the thought of certain periods.

*102. Stellar Astronomy. (3) I. Mr. Leonard
Prerequisite: course 7A–7B or 117A.
A general review of stellar astronomy, with special emphasis on the results of modern researches.

*105. Spherical Astronomy. (3) II. Mr. Leonard, Mr. Herrick
Prerequisite: course 2 or 3 or 7A, and Mathematics 3B.
Spherical trigonometry and its applications to astronomy; the fundamentals of spherical astronomy, including such subjects as the celestial sphere and its systems of coordinates, time, and the correction of observations; the use of star maps, star catalogues, and almanacs.

* Not to be given, 1942–1948.
107. The Reduction of Observations. (3) I. Mr. Leonard, Mr. Herrick
Prerequisite: Mathematics 3B–4A.
Analytical, arithmetical, and graphical methods employed in the handling of numerical and observational data, including the theory of errors and least squares and its application to the solution of astronomical, physical, chemical, and engineering problems.

108. Interpolation. (3) II. Mr. Herrick
Prerequisite: Mathematics 3B–4A.
The more serviceable formulae of interpolation and their application in the use of astronomical, physical, chemical, and engineering tables; development of the formulae of numerical differentiation and integration and their employment in the construction of tables; practice in making extensive calculations, with special aim at accuracy and speed.

115. The Determination of Orbits. (3) II. Mr. Herrick
Prerequisite: Mathematics 3B–4A.
The theory and calculation of the orbits and ephemerides of comets and minor planets.

117A–117B. Astrophysics. (3–3) Yr. Mr. Kaplan
A laboratory period will occasionally be substituted, by appointment, for one of the regular class periods. Open to students whose major subject is some physical science or mathematics. This course is acceptable in partial fulfillment of the requirements of the major in physics. 117A is a requirement of the major in meteorology.
A general review of spectroscopy and astronomical physics, with special emphasis during the first term on the solar system.

118. Meteoritics. (3) II. Mr. Leonard
Open to students whose major subject is some physical science, particularly astronomy, geology, or chemistry.
The science of meteorites and meteors.

199. Special Studies in Astronomy or Astrophysics. (1 to 4) I, II. The Staff (Mr. Leonard in charge)
Prerequisite: the consent of the instructor. Sec. 2, "Special Studies in Astrophysics," is acceptable in partial fulfillment of the requirements of the major in physics.
Investigation of special problems or presentation of selected topics chosen in accordance with the preparation and the requirements of the individual student.

* Not to be given, 1942–1943.
BACTERIOLOGY

Theodore D. Beckwith, Ph.D., Professor of Bacteriology (Chairman of the Department).

Anthony J. Salle, Ph.D., Associate Professor of Bacteriology.

†Claude E. ZoBell, Ph.D., Associate Professor of Marine Microbiology.

Elinor Lee Beers, R.N., Ph.D., Assistant Professor of Public Health Nursing.

Kathryn E. Worrell, R.N., M.A., Assistant Professor of Public Health Nursing.

Meridian Ruth Ball, Sc.D., Instructor in Bacteriology.

Letters and Science List.—All undergraduate courses in bacteriology and public health are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Bacteriology 1, Chemistry 1A–1B, Zoology 15, Botany 1A or 1B, Physics 2A–2B, French or German. Recommended: Chemistry 6A, 8, 9; Zoology 4.

The Major.—Bacteriology 103 (4 units), 199A (2 units); either 199B (2 units) or 195 (2 units) or 105 (4 units); also 16 units of upper division work in related subjects, these to be selected from the following series: Bacteriology 104, 105, 106, 107; Public Health 101A, 101B; Botany 105A, 119, 126, 127, 191A, 191B; Zoology 101, 105, 106, 107, 107C, 111, 111C, 118; Chemistry 107A, 107B, 108, 109A, 109B; Home Economics 159; Soil Science 110. Courses are to be chosen with the approval of the department.

Curriculum for Medical Technicians.—For details, see the Announcement of the College of Letters and Science, Los Angeles.

Curricula in Pre-Nursing and in Public Health Nursing. For details, see the Announcement of the College of Applied Arts.

Laboratory Fees.—Course 1, $14.50; 103, $17.50; 105, $11.50; 107, $8; 199A, 199B, $9; Public Health Nursing 420, $20.

LOWER DIVISION COURSES

1. Fundamental Bacteriology. (4) I, II. Mr. Salle, Mr. Beckwith

Prerequisite: Chemistry 1A. Students who have credit for course 6 will receive only three units for course 1. Fee, $14.50.

Early history of bacteriology; effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; the bacteriology of the air, water, soil, milk and dairy products, other foods; industrial applications. The laboratory exercises include an introduction to bacteriological technique.

† Member of the staff of the Scripps Institution of Oceanography, La Jolla.
6. General Bacteriology. (2) II.  Mr. Beckwith
Students who have credit for course 1 will receive only one unit for course 6.
A cultural course for nontechnical students.

UPPER DIVISION COURSES

103. Advanced Bacteriology. (4) II.  Mr. Beckwith
Prerequisite: course 1. Fee, $17.50.
The more advanced principles of the life activities, growth, and morphology of bacteria. The etiology of disease.

104. Soil Bacteriology. (2) II.  Mr. ZoBell, Mr. Salle
Prerequisite: course 1.
The microscopic flora of soil: the morphology, function, and metabolism of soil bacteria.

105. Serology. (4) I, II.  Mrs. Ball
Lecture, one hour; laboratory, nine hours. Prerequisite: course 103. Limited to twelve students. Fee, $11.50.
The theory and practice of serological methods.

106. Metabolism of Bacteria. (2) I.  Mr. Salle
Lectures and discussions. Prerequisite: course 1 and Chemistry 8.
Chemical composition of bacteria; influence of physicochemical conditions on growth; bacterial processes and enzymatic mechanisms.

107. Public Health Bacteriology. (4) II.  Mrs. Ball
Lecture, one hour; laboratory, nine hours. Prerequisite: course 103. Designed for students who plan careers in the fields of public health and clinical bacteriology. Fee, $8.
A study of diagnostic procedures.

195. Proseminar. (2) I, II.  Mr. Beckwith
Prerequisite: course 103.
Library problems.

199A–199B. Problems in Bacteriology. (2–2) Yr.  Mr. Beckwith, Mr. Salle, Mrs. Ball
Prerequisite: the consent of the instructor. Fee, $9 a term.

MICROBIOLOGY

GRADUATE COURSES

210. Advanced Bacterial Physiology. (3) II.  Mr. Salle
Prerequisite: Bacteriology 106.
Physiological activities of microorganisms in the light of more advanced principles.

261A–261B. Seminar in Microbiology. (2–2) Yr.  Mr. Beckwith, Mr. Ball, Mr. Plunkett

293A–293B. Research in Microbiology. (2–5; 2–5) Yr.  Mr. Beckwith, Mr. Ball, Mr. Plunkett
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Bacteriology

PUBLIC HEALTH

UPPER DIVISION COURSES

101A. Public Health and Preventive Medicine. (3) I. Mr. Lloyd-Jones
Prerequisite: Bacteriology 1 or Zoölogy 1; or, for students in the Public Health Nursing Curriculum, the consent of the instructor.

Beginnings and backgrounds of medicine. Nature of infection and immunity. Discussion of the most important communicable diseases with special emphasis on their control and prevention.

101B. Public Health and Preventive Medicine. (3) II. Mr. Lloyd-Jones
Prerequisite: Bacteriology 1 or Zoölogy 1; or, for students in the Public Health Nursing Curriculum, the consent of the instructor.

Development, organization and administration of public health; social trends of medicine; collection and interpretation of vital statistics; environmental sanitation; principles of epidemiology with some special control programs such as tuberculosis, venereal disease, mental hygiene, degenerative diseases.

PUBLIC HEALTH NURSING

LOWER DIVISION COURSE

11. Home Nursing. (1) I, II. Miss Beebe in charge
Class discussion and laboratory. Students completing the course satisfactorily receive the American Red Cross Certificate.

Procedures of home nursing.

PROFESSIONAL COURSES

351. Principles of Teaching in Public Health Nursing. (2) I, II. Miss Beebe
Open to experienced students with the consent of the instructor.

Development of fundamental principles of the teaching process; organization, planning, and application in practical problems of public health nursing.

402. Family Case Work as Related to Public Health Nursing. (2) II.
Class work, field and observation study.

This course is planned to familiarize the public health nurse with the processes of social case work as carried on by social agencies, the approach to problems of family and community relationship, and the application of social case work methods in the public health nursing field.

418. Principles and Practice in Public Health Nursing. (3) I. Miss Beebe, Miss Worrell
A general view of public health nursing as illustrated by its present scope and methods. A study of the objectives of public health nursing, applied to all phases of the services, including maternity, infancy, preschool, school, and industrial.

419. Administration and Organization of Public Health Nursing. (3) II. Miss Beebe
The history and development of public health nursing to meet individual,
family, and community health needs. The policies and trends in the organization of national, state, local, municipal, and rural public health nursing services; application of these policies to official and nonofficial agencies.

420. Field Experience in Public Health Nursing. (6) I, II.
Miss Beebe, Miss Worrell
Prerequisite: completion of the academic program for the Public Health Nursing Certificate. Sixteen weeks of continuous supervised field assignment with designated affiliating agencies of the Los Angeles vicinity. Students carry no outside work or other study during the field program. This period does not affect the residence requirement. Fee, $20.
Letters and Science List.—All undergraduates courses in this department are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Botany 1A—1B, 6 and 7, Chemistry 1A—1B or 2A—2B, German 1, 2. In addition to these courses, certain phases of botanical work require Geology 3, 5, Physics 2A—2B, Bacteriology 1, and Zoölogy 1, 2.

The Major.—Seventeen units of upper division botany, including courses 105A—105B and 106A—106B; and in addition, 7 units in botany or related courses—bacteriology, chemistry, geology, paleontology, and zoölogy—to be chosen with the approval of the department.

Laboratory Fees.—Course 7, $3.50; 6, 111, 113, 120, $2.50.

Lower Division Courses

1A. General Botany. (4) I, II. Mr. Haupt, Miss Scott
Lectures, two hours; laboratory, four hours.
An introduction to the structure, functions, and environmental relations of the seed plants.

1B. General Botany. (4) II. Mr. Haupt, Miss Scott, Mr. Plunkett
Lectures, two hours; laboratory, four hours. Prerequisite: course 1A.
The evolution of the plant kingdom, dealing with the comparative morphology of all the great plant groups.

6. Plant Anatomy. (3) I. Miss Scott
Lecture, one hour; laboratory, six hours. Fee, $2.50.
The microscopic structure of the higher plants with particular reference to the development and differentiation of vegetative tissues.

7. Plant Physiology. (4) II. Mr. Sponsler
Lecture, two hours; laboratory, six hours. Prerequisite: course 6, and chemistry. Fee, $3.50.
Experimental work designed to demonstrate various activities of the plant.

36. Forest Botany. (3) I. Mr. Johnson
Lecture, one hour; laboratory, six hours, or equivalent field work.
Identification and distribution of the dominant woody species of California. For forestry majors and others interested in conservation, flood control, and soil erosion.
Botany

Upper Division Courses

Botany 1A, 1B are prerequisite to all upper division courses.

103. Botany of Economic Plants. (2) I. Mr. Johnson

Designed for students of economics, geography, agriculture, and botany.

The general morphology, classification, ecology and geographic distribution, origin, and uses of economic plants.

105A. Algae and Bryophytes. (4) I. Mr. Haupt, Mr. Plunkett

Lectures, two hours; laboratory, six hours.

A study of the structure, development, and phylogenetic relationships of the principal orders of fresh water and marine algae, and of liverworts and mosses.

105B. Morphology of Vascular Plants. (4) II. Mr. Haupt

Lectures, two hours; laboratory, six hours.

Structure, development, and phylogenetic relationships of the principal groups of pteridophytes and spermatophytes.

106A–106B. Angiosperms. (3–3) Yr. Mr. Epling

Lecture, one hour; laboratory, six hours, and additional field work to be arranged. Designed for botany majors, teachers of nature study, and students in the College of Agriculture.

A survey of the chief orders and families of the flowering plants involving a study of their gross structure, phylogenetic classification, and geographical distribution.

111. Plant Cytology. (3) I. Mr. Haupt

Lecture, one hour; laboratory, six hours. Prerequisite: courses 6, and 105A or 105B. Fee, $2.50.

Structure and physiology of the cell.

113. Physiological Plant Anatomy. (3) II. Miss Scott

Lecture, one hour; laboratory, six hours. Prerequisite: courses 6 and 7. Fee, $2.50.

A study of the tissues of the higher plants in relation to function; a survey of the visible structural and reserve materials of the plant body.

119. Mycology. (3) I. Mr. Plunkett

Lecture, one hour; laboratory, six hours. For students in botany, bacteriology, agriculture, and forestry.

Structure, development, and classifications of the important genera and species of fungi.

120. Phytopathology. (3) II. Mr. Plunkett

Lecture, one hour; laboratory, six hours. Prerequisite: course 119. Fee, $2.50.

A study of bacterial and fungous diseases of plants.

126. Medical Mycology. (3) II. Mr. Plunkett

Lecture, one hour; laboratory, six hours. Prerequisite: course 119 and Bacteriology 1. This course is designed for students in bacteriology, parasitology, and medicine.

An introduction to the morphology, physiology, and taxonomy of the fungi which cause diseases in man and the domestic animals.
151. History of Botany. (2) II. Mr. Johnson
Prerequisite: senior standing; limited to students with major in botany.

152. Ecological Phytophystography. (3) II. Mr. Johnson
Lecture, two hours; laboratory and field, three hours. Prerequisite: course 106A–106B.
Field and laboratory studies of plant communities and their relation to the environment.

153A–153B. Advanced Systematic Botany. (2–2) Yr. Mr. Epling
A systematic survey of the flowering plants by a comparison of the two principal schemes of relationship; origin of the group and concept of speciation.

190. Research Methods in Morphology. (2) I. Mr. Haupt
Laboratory and conferences. For students of senior and graduate standing.

191A–191B. Molecular Structure of Biological Materials. (2–2) Yr. Mr. Sponsler
Prerequisite: senior standing, or the consent of the instructor; Physics 2A–2B, Chemistry 8, and Botany 1A–1B or Zoology 1, 2, and in addition advanced courses in biological fields.
An adaptation of our knowledge of atomic and molecular structure to our biological conceptions of protoplasm and cell parts.

199A–199B. Problems in Botany. (2–2) Yr.
Prerequisite: senior standing. The Staff (Mr. Sponsler in charge)

GRADUATE COURSES

252A–252B. Seminar in Principles and Theories of Botany. (2–2) Yr. Mr. Sponsler

253A–253B. Seminar in Special Fields of Botany. (1–1) Yr. The Staff

253C–253D. Second Seminar in Special Fields of Botany. (1–1) Yr. The Staff

278A–278B. Research in Botany. (2–6; 2–6) Yr. The Staff

RELATED COURSES IN ANOTHER DEPARTMENT (See page 213)

Biology 1. Fundamentals of Biology. (3) I, II. Mr. Cowles, Miss Scott
Biology 12. General Biology. (3) II. Mr. Cowles
Biology 24A–24B. Introduction to Scientific Illustrating. (3–3) Yr. Mr. Johnson

* Not to be given, 1942–1948.
BUSINESS ADMINISTRATION

HOWARD SCOTT NOBLE, M.B.A., C.P.A., Professor of Accounting (Chairman of the Department of Business Administration).
FLOYD F. BURCHETT, Ph.D., Associate Professor of Banking and Finance.
RALPH CASSADY, JR., Ph.D., Associate Professor of Marketing.
IRA N. FRISBEE, M.B.A., C.P.A., Associate Professor of Accounting.
JOHN C. CLDENENIN, Ph.D., Assistant Professor of Banking and Finance.
A. GERHARD EGER, LL.B.; Assistant Professor of Business Law.
WILBERT E. KARRENBROCK, Ph.D., Assistant Professor of Accounting.
VERNON D. KEELER, Ph.D., Assistant Professor of Management and Industry.
GEORGE W. ROBBINS, M.B.A., Assistant Professor of Marketing.
SAMUEL J. WANOUS, Ph.D., Assistant Professor of Office Management and Business Education.
WILLIAM F. BROWN, Ph.D., Instructor in Marketing.
WAYNE L. MCNAUGHTON, Ph.D., Instructor in Management and Industry.
ESTELLA B. PLOUGH, Associate in Commercial Practice.

STANLEY G. PEARSON, LL.B., Lecturer in Business Law.
HARRY SIMONS, M.A., C.P.A., Lecturer in Accounting.

College of Business Administration

Preparation for the Major.—Business Administration 1A–1B, Economics 1A–1B, English 1A, Public Speaking 1A, Mathematics 8 and 2, Geography 5A–5B. Other requirements in the lower division will be found on page 83.

The Upper Division.

1. General requirements: (a) in the junior year, courses 18A–18B, 120, 140, 160A, 180, and Economics 135; (b) in the senior year, course 100.

2. Special elective: 3 units chosen from the following: courses 110, 116, 117, 132 (except for finance majors), 145, 154; Economics 131A–131B, 150, 170, 171, 173.

3. Nine upper division units in one of the following five majors: Accounting, Banking and Finance, Management and Industry, Marketing, General Business. (For courses offered in the various majors, see page 84.)

4. See (e) and (f), page 85, for requirements concerning electives and minimum scholarship standing.

Electives.—All undergraduate courses in the Letters and Science List (see page 68), will be accepted for credit toward the B.S. degree. A maximum of 6 units of electives aside from the preceding will be accepted for credit toward the degree but will not apply on the outside elective requirement.

College of Letters and Science

Letters and Science List.—Courses 1A–1B, 120, 131, 140, 145, 153, and 180. For regulations governing this list, see page 68.

* Absent on leave, 1942–1943.
Graduate Division

Requirements for Admission to Graduate Status.

The general requirements (see paragraph 1 above), or their equivalent, as well as the general University requirements, are prerequisite to admission to graduate status in the Department of Business Administration.

Departmental Requirements for the Master of Science Degree.

1. At least 6 units of the 24 required for the degree must be taken outside the Department of Business Administration.

2. At least 6 units of the 12 units of graduate courses (200 series) required, must be taken outside of the field of specialization, and divided between at least two other fields.

3. The Department favors the comprehensive examination plan. For further information concerning graduate work consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.

Requirements for Teaching Credentials.

Candidates for the Special Secondary Credential in commerce or for the General Secondary Credential with a major or minor in business education should consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

Fees.—Courses 3A, 3B, $2.50; 140, $3.50.

LOWER DIVISION COURSES

1A–1B. Principles of Accounting. (3–3) Beginning either term. Mr. Noble and Staff

Two hours lecture, and two hours laboratory. Prerequisite: sophomore standing.

2A–2B. Accounting Laboratory. (1–1) Yr. Mrs. Plough

Should be taken concurrently with course 1A–1B.

3A–3B. Secretarial Training. (2–2) Beginning either term. Mr. Wanous

Fee, $2.50 each term.

A study of typewriting in which the groundwork is laid for a thorough understanding of office management and business teaching problems. Principles of operating various kinds of typewriters, special adaptations of each, and bases of speed and accuracy development are included.

4A–4B. Secretarial Training. (3–3) Beginning either term. Mr. Wanous, Mrs. Plough

A study of shorthand in which the groundwork is laid for a thorough understanding of office management and business teaching problems. An analysis of various techniques used in mastery of technical vocabularies and speed in writing and reading shorthand from dictation is included.

18A–18B. Business Law. (3–3) Beginning either term. Mr. Pearson

Prerequisite: junior standing.

Law in its relationship to business. Essentials of the law of contracts, agency, bailments, sales, and negotiable instruments.
Business Administration

Upper Division Courses

Business Administration 1A–1B and Economics 1A–1B are prerequisite to all upper division courses.

†100. Theory of Business. (2) I, II. Mr. Cassady, Mr. Clendenin
Prerequisite: senior standing. Not open for credit to students who have taken or are taking Economics 100A.
Influence of certain fundamental laws in economics upon the practical processes of production, distribution, and exchange. The competitive process in its imperfect, as well as in its perfect form. The nature of social and economic forces which modify and direct business policies.

110. Real Estate Principles. (3) II. Mr. Clendenin
Visiting professional and business men give special lectures.
A survey of the business methods, economic problems, and legal background of real estate operation. Topics studied include ownership estates, liens, mortgages, leases, taxes, deeds, escrows, title problems, brokerage, subdivisions, appraisals, and zoning and building ordinances.

†116. General Laws Relating to Property. (3) I. Mr. Eger
Prerequisite: course 18A–18B.
Distinctions between real and personal property, types of ownership, methods of acquisition and disposal, separate and community property, title, control and management of community property and liability for debts.

†117. The Law of Wills, Estates, and Trusts. (3) II. Mr. Eger
Prerequisite: course 18A–18B.
Succession to property by will and in the absence of will; types, requirements, and revocation of wills; legacies and devices; executors and administrators; probate and administration of estates and special rights of surviving spouse and children; nature, kinds, and formation of trusts; relations between trustees and beneficiary and with third persons, and termination of trusts; corpus and income problems affecting life tenants and remaindermen.

120. Business Organization. (3) I, II. Mr. Keeler
A study of the business unit and its functions from the points of view of both society and management. The coordination of production, finance, marketing, personnel, and accounting in a going business. The relation of the enterprise to the industry in general, to the business cycle, to law and government, and to the public.

†121A. Industrial Management. (3) I. Mr. McNaughton
Prerequisite: course 120.
A study of the evolution and development of the industrial system. The application of scientific management and scientific methodology. A consideration of modern methods of approach to present-day production problems.

†121B. Industrial Management. (3) II. Mr. Keeler
Prerequisite: course 121A. Classroom discussions and field trips; written reports and class discussions.
The theory and practice of modern factory management.

† Open only to students registered in College of Business Administration and to graduate students who have had the necessary preliminary preparation.
* Not to be given, 1942–1943.
124. Work Simplification and Time Study. (2) II. Mr. McNaughton
Prerequisite: courses 120 and 121A.
The specific procedures used in simplifying, standardizing, and timing manual work. Process and operation analysis, principles of motion economy, micromotion study and film analysis, time standards as a basis for wage payment plans and the calculation of costs, and fatigue study. Motion pictures are used in presenting case material.

125. Organization and Management Problems. (3) I, II.
Prerequisite: senior standing. Mr. Keeler, Mr. McNaughton
A case method study of the practical problems involved in the organization and management of business enterprises. Emphasis is placed upon the correlation of functions and activities in the organization of operating departments.

131. Corporation Finance. (3) I.
Prerequisite: Economics 135.
A study of the financial structures and financial problems of business corporations. The instruments and methods of financing a corporation will be considered in their social, legal, and economic effects as well as in their effects on the corporation and the shareholders.

132. Investments. (3) I.
Prerequisite: Economics 135.
The principles underlying investment analysis and investment policy; the chief characteristics of civil and corporate obligations and stocks. Investment trusts and institutional investors, forms, problems, and policies. Relation of money markets and business cycles to investment practice.

133. Investment and Financial Analysis. (3) II.
Prerequisite: course 131 or 132; Economics 135.
Examination of specific securities and projects from an investment point of view; sources of information on investment matters; the writing of investment analysis and reports. Examples of financial practices involved in mergers, reorganizations, recapitalization plans, etc. Reading assignments and class discussions will be devoted mainly to actual recent cases.

139. Applied Business Finance. (3) II.
Prerequisite: Economics 135.
An intensive study of the financial operations of business; work of the credit department, the comptroller's or treasurer's office; preparation of financial reports for stockholders and for public authorities; credit analysis; credit bureaus and their services; consumer installment contracts and financing; bank relations in general. This course emphasizes the short-term financial problems and practices of all types of business enterprise.

140. Business Statistics. (4) I, II. Mr. Frisbee, Mr. Brown
Lectures, two hours; laboratory, four hours. Students who have credit for Economics 40 will receive only one unit of credit for this course. Fee, $3.50.
Sources of statistical data; construction of tables, charts, and graphs; study of statistical methods; averages, measures of deviation, index numbers,
secular trend, seasonal variation, correlation; study of business cycles; practical application of statistical methods in business problems.

†144. Business and Statistical Research. (2) I. Mr. McNaughton

Prerequisite: senior standing.

Research philosophy and methodology and the application of specific research techniques to actual business problems. These problems will be made possible by the cooperation of various concerns in southern California.

145. Principles of Insurance. (3) I, II. Mr. Clendenin

Description of the major types of insurance: life, property, casualty, etc.; interpretation of the contracts under which such insurance is written; regulation and control of insurance companies; general principles of mortality and premium calculation; basic legal principles of property and equity law as involved in the transfer of risks; distribution system of underwriting; organization of the insurance carrier companies.

†150. Business Correspondence. (3) I. Mr. Wanous

Prerequisite: course 3A or its equivalent.

Designed to give students an understanding of the service of written communications to business. Training in the writing of communication forms in typical business situations. A review of correct English usage in business writing is included.

†151. Applied Secretarial Practice. (3) I. Mr. Wanous

Prerequisite: courses 3A–3B, 4A–4B.

A study of stenographic office problems, including the development of expert skill and ability in transcription. A consideration of the principles underlying the editing of dictated letters and reports and of the requirements and standards of stenographic positions in Civil Service as well as in various types of private offices.

†152. Secretarial Problems. (3) II. Mr. Wanous

Prerequisite: course 151.

A study of non-stenographic office problems and their solutions, including those encountered in filing, preparing statistical reports, handling incoming and outgoing correspondence, and proofreading. A study of the rules of conduct affecting all office employees, and development of understanding of various types of office machines.

153. Personnel Management. (3) I, II. Mr. Keeler, Mr. McNaughton

A study of the administration of human relations in industry; the development of employment relations; problems and methods of selecting and placing personnel; problems and methods of labor maintenance; the joint control of industry; the criteria of effective personnel management.

†154. Office Organization and Management. (3) II. Mr. Wanous

Analysis of functions of various office departments, their organization and management. Methods used in selecting and training office personnel; office planning and layout; selection and care of office supplies and equipment; methods and devices used to improve operating efficiency; types and uses of office appliances; techniques for performing office duties.

† Open only to students registered in College of Business Administration and to graduate students who have had the necessary preliminary preparation.
160A. Advanced Accounting. (3) I, II. Mr. Karrenbrock, Mr. Simons

Adjustments, working papers, statements from incomplete data, cash and receivables, inventories, investments, fixed assets, intangibles and deferred charges, liabilities, capital stock and surplus, installment accounting, statement analysis, and application of funds.

160B. Advanced Accounting. (3) I, II. Mr. Karrenbrock, Mr. Simons

Prerequisite: course 160A.

Partnerships, joint ventures, agencies and branches, consolidated balance sheets, consolidated profit and loss statements, statements of affairs, receiverships, realization and liquidation statements, estates and trusts, and actuarial accounting problems.

161. Cost Accounting. (3) I.

Prerequisite: course 160A. Mr. Karrenbrock

Distribution of department store expenses, general factory accounting, process costs, job-lot accounting, foundry accounting, budgets and control of costs, expense distributions, burden analyses, differential costs, by-products and joint-products, and standard costs.

162. Auditing. (3) I, II.

Prerequisite: course 160B. Mr. Frisbee

Accounting investigations, balance sheet audits, and detailed audits performed by public accountants. Valuation, audit procedure, working papers and audit reports.

163. Federal Tax Accounting. (3) I.

Prerequisite: course 160B. Mr. Frisbee

A study of the current federal revenue acts as relating to income taxation, excess profits taxes, estate taxes, and individual, partnership, and corporation gift taxes.

165. Municipal and Governmental Accounting. (3) II. Mr. Karrenbrock

Prerequisite: course 160B.

A study of fund accounting as applied to governmental accounting and non-profit institutions. It includes problems of budgeting, tax levies, appropriations, and accounting for revenues and expenditures. The following funds are included: general, special revenue, bond, sinking, working capital, special assessment, trust and agency, and utility. Special problems on nonprofit institutions.

180. Elements of Marketing. (3) I, II. Mr. Cassady, Mr. Robbins

A survey designed to give a basic understanding of the major marketing methods, institutions, and practices. The problems of retailing, wholesaling, choosing channels of distribution, advertising, cooperative marketing, pricing, market analysis, and marketing costs are defined from the standpoint of the consumer, the middleman, and the manufacturer.

† Open only to students registered in College of Business Administration and to graduate students who have had the necessary preliminary preparation.
†184. Sales Management. (3) I, II.  Mr. Robbins
Prerequisite: course 180.

An intensive study, principally by the case method, of sales methods from the point of view of the sales manager. Includes the study of merchandising policy, choice of channels of distribution, market research and analysis, prices and credit terms, sales methods and campaigns; organization of sales department, management of sales force, and budgetary control of sales.

†185. Advertising Principles. (3) I, II.  Mr. Brown
Prerequisite: course 180.

A survey of the field of advertising—its use, production, administration, and economic implications. Includes the study of advertising psychology, practice in the preparation of advertisements, consideration of the methods of market research and copy testing, and analysis of campaign planning and sales coördination.

†186. Retail Store Management. (3) II.  Mr. Cassady
Prerequisite: course 180.

A study of retailing methods from the standpoint of the owner and manager. Includes the case study of such subjects as purchasing, planning, stocks, inventory methods, markup, accounting for stock control, pricing, style merchandising, and general management problems.

††199A–199B. Special Problems in Business Administration. (2–2) Yr. The Staff
Prerequisite: senior standing, 6 units of upper division courses in business administration, and the consent of the instructor.

GRADUATE COURSES

0235. Money Rates and Money Markets. (2) II. Mr. Burtchett
0254. Seminar in Finance. (2) I. Mr. Burtchett
0260. Seminar in Accounting Theory. (2) II. Mr. Noble
0261A–261B. Seminar in Accounting Problems. (2–2) Yr. Mr. Frisbee
0355. Seminar in Governmental and Institutional Accounting. (2) I. Mr. Frisbee
0270. Seminar in Marketing Institutions. (2) I. Mr. Cassady
271. Seminar in Market Price Policies. (2) II. Mr. Cassady
290. Problems in Business Administration. (1 to 4) I, II. The Staff

PROFESSIONAL COURSES IN METHOD

370A. Methods of Teaching Secretarial Subjects. (2) I. Mr. Wanous

A survey and evaluation of the methods and materials used in teaching typewriting, shorthand, transcription, and office training to secondary school pupils. Also considered are achievement standards, grading plans, measurement devices, and procedures for adapting instruction to various levels of pupil ability.

* Not to be given, 1942–1943.
370B. Methods of Teaching Bookkeeping and the General Business Subjects. (2) II.
Mr. Wanous
An analytical study of the devices, methods, and materials used in teaching bookkeeping, junior business training, business arithmetic, business law, commercial geography, and related business subjects. A consideration of course objectives, curricular placement, units of instruction, evaluation measures, and remedial procedures.

370C. Methods of Teaching Handwriting. (2) I, II.
Mrs. Plough
A course in the improvement of handwriting; a survey of methods of teaching handwriting in the secondary schools, including analyses of handwriting difficulties and study of clinical procedures.

370D. Methods of Teaching Handwriting. (2) II.
Mrs. Plough
Prerequisite: course 370C.
A course in the improvement of handwriting primarily for teachers of elementary subjects. A survey of methods of teaching penmanship and of relating writing to pupil activities at different levels of development.
Admission to Courses in Chemistry.—Regular and transfer students who have the prerequisites for the various courses are not thereby assured of admission to those courses. The department may deny admission to any course if a grade D was received in a course prerequisite to that course, or if in the opinion of the department the student shows other evidence of inadequate preparation. Evidence of adequate preparation may consist of satisfactory grades in previous work, or in a special examination, or in both. For each course which involves a limitation of enrollment and which requires a qualifying examination or other special prerequisite, an announcement will be posted before the first day of registration, in each semester, on the Chemistry Department bulletin board. No regular or transfer student should enroll in any course without first consulting a department adviser who will furnish more specific information regarding limitations in enrollment.

Letters and Science List.—All undergraduate courses in chemistry except 10 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: Chemistry 1A-1B, 6A, Physics 1A-1C, trigonometry, Mathematics 8, 3A-3B, 4A, English 1A, Public Speaking 1A or English 1B, and a reading knowledge of German. Recommended: an additional course in chemistry, Physics 1D, Mathematics 4B.

Students are warned that the lower division curriculum prescribed for the College of Chemistry at Berkeley (see page 74) does not meet the requirements for the degree of Associate in Arts in the College of Letters and Science at Los Angeles.

The Major.—A limited amount of upper division credit may be allowed for chemistry courses from the group 6A, 6B, 8, and 9, provided such courses...
Chemistry

were taken by the student while he was in the upper division. Not more than 9 units total of such credit will be counted as upper division units, either for the chemistry major or for other University curricula. The minimum requirement for the major is: Chemistry 6A–6B (6), 8 and 9 (6), 110A–110B (6), 111A–111B (4). The remainder of the 24 required upper division units are to be taken in chemistry, and not less than two courses are to be selected from the following group: courses 101, 103, 107A, 107B, and 121.

In order to be eligible for full membership in the American Chemical Society in the minimum time after graduation a chemistry major must fulfill the minimum requirements adopted by the Society for professional training of chemists. Special attention is directed to the fact that at least 6 units of lecture courses and 4 units of laboratory work are required in organic chemistry. Further details of the requirements are obtainable from department advisers.

Laboratory Fees.—These fees cover the cost of material and equipment used by the average careful student. Any excess over this amount will be charged to the individual responsible. The fees are as follows: Courses 1A, 1B, $16; 2A, 2B, $11.50; 6A, 6B, $19.50; 9, $31; 10, $11.50; 101, $31; 103, 107A, 107B, $17.50; 108, $11.50; 111A, 111B, $14; 121, 199, $17.50.

Lower Division Courses

Certain combinations of courses involve limitations of total credit, as follows: 2A and 1A, 5 units; 2A–2B and 1A, 8 units; 2A and 1A–1B, 10 units; 2A–2B and 1A–1B, 10 units.

1A. General Chemistry. (5) I, II. Mr. McCullough, Mr. Stone
Lectures, three hours; laboratory and quiz, six hours. Prerequisite: high school chemistry, or its equivalent. Required in the Colleges of Agriculture, Chemistry, Engineering, and of predental, premedical, premining, prepharmacy and preoptometry students; also of majors in applied physics, bacteriology, chemistry, geology and physics and of medical technicians, and of students in home economics (curriculum C) in the College of Applied Arts. Fee, $16.

A basic course in principles of chemistry with special emphasis on chemical calculations.

1B. General Chemistry. (5) I, II. Mr. Stone
Lectures, three hours; laboratory and quiz, six hours. Prerequisite: course 1A. Required in the same curricula as course 1A. Fee, $16.

Continuation of course 1A with special applications to the theory and technique of qualitative analysis; periodic system; structure of matter.

2A. Introductory General Chemistry. (5) I. Mr. Pomeroy
Lectures and quizzes, four hours; laboratory, three hours. This course satisfies the chemistry requirements for nurses as prescribed by the California State Board of Nursing Examiners; it satisfies the chemistry requirements for the majors in physical education and is required of certain home economics majors in the College of Applied Arts. Fee, $11.50.

An introductory course emphasizing the principles of chemistry and including a brief introduction to elementary organic chemistry.

2B. Introductory General Chemistry. (3) II. Mr. Pomeroy
Lectures, two hours; laboratory and demonstrations, three hours. Required of certain home economics majors in the College of Applied Arts. Fee, $11.50.

A continuation of course 2A.
6A. Quantitative Analysis. (3) I, II. Mr. Winston
Lectures, discussions, and quizzes, two hours; laboratory, six hours. Prerequisite: course 1A–1B. Required of chemistry majors, economic geologists, petroleum engineers, sanitary and municipal engineers, medical technicians, and of premedical, College of Chemistry, metallurgy, and certain agriculture students. Fee, $19.50.

Principles and technique involved in fundamental gravimetric and volumetric analyses.

6B. Quantitative Analysis. (3) I, II. Mr. Crowell
Lectures, discussions, and quizzes, two hours; laboratory, six hours. Prerequisite: course 6A. Required of chemistry majors, economic geologists, and College of Chemistry students. Fee, $19.50.

A continuation of course 6A but with greater emphasis on theory. Analytical problems in acidimetry and alkalimetry, oxidimetry, electrolytic deposition, and semiquantitative procedures.

8. Organic Chemistry. (3) I, II. Mr. Geissman, Mr. Young
Prerequisite: course 1A–1B; concurrent enrollment in course 9 is advisable. This course is required of premedical and predental students, majors in petroleum engineering, sanitary and municipal engineering, chemistry, home economics, some agriculture majors, and College of Chemistry students.

An introductory study of the compounds of carbon, including both aliphatic and aromatic derivatives.

9. Methods of Organic Chemistry. (3) I, II. Mr. Robertson, Mr. Winston
Lectures and quizzes on principles of laboratory manipulation, two hours; laboratory, six hours. Prerequisite or concurrent: course 8. Required of chemistry majors, College of Chemistry students, premedical and predental students, and majors in petroleum engineering. Fee, $34.

Laboratory work devoted principally to synthesis, partly to analysis.

10. Organic and Food Chemistry. (4) I.
Lectures, three hours; laboratory, three hours. Prerequisite: courses 1A and 1B, or 2A–2B. Arranged primarily for majors in home economics. Fee, $11.50.

Upper Division Courses


101. Organic Synthesis. (3) II. Mr. Geissman
Lecture, one hour; laboratory, eight hours. Prerequisite: courses 8 and 9 and the ability to read scientific German. Fee, $31.

Advanced organic preparations; introduction to research methods.

102. Advanced Organic Chemistry. (3) I, II. Mr. Jacobs, Mr. Robertson
Prerequisite: course 8 and laboratory work in organic chemistry.

Theories of reactions and proofs of structure; isomerism, carbohydrates, alicyclic series, dyes, etc.
103. Qualitative Organic Analysis. (3) I, II. Mr. Young, Mr. Robertson
Lecture, one hour; laboratory, six hours. Prerequisite: courses 6A–6B, 8,
and 9. Fee, $17.50.
Classification, reactions, and identification of organic compounds.

107A. Amino Acids and Proteins. (4) I. Mr. Dunn
Lectures, two hours; laboratory, six hours. Prerequisite: courses 6A, 8,
and 9. Fee, $17.50.

*107B. Carbohydrates and Fats. (4) II. Mr. Jacobs
Lectures, two hours; laboratory, six hours. Prerequisite: courses 6A,
8, and 9. Fee, $17.50.

108. General Biochemistry. (4) I. Mr. Dunn
Lectures, three hours; laboratory or demonstrations, three hours. Pre-
requisite: course 8; recommended, courses 6A, 9. May not be offered by
chemistry majors as fulfilling part of the laboratory requirements in organic
chemistry. Fee, $11.50.

°109A–109B. General Physical Chemistry. (2–2) Yr. Mr. Ramsey, Mr. Coryell
Lectures and demonstrations. Prerequisite: course 6A, Physics 2A–2B,
Mathematics 8; recommended preparation, course 8, Mathematics 7. May not
be offered as part of the major in chemistry.
Chemical principles of particular importance in the life sciences and
geology.

110A. Physical Chemistry. (3) I. Mr. Ramsey
Prerequisite: course 6B; Physics 1A, 1C; Mathematics 4A. Required of
chemistry majors.

110B. Physical Chemistry. (3) I, II. Mr. Ramsey
Prerequisite: course 110A and Mathematics 4A. Required of chemistry
majors.
A continuation of course 110A.

110G. Physical Chemistry. (3) I. Mr. Ramsey
Prerequisite: same as for course 110A. Open only by permission of the
chairman of the department to graduate students who have not taken course
110A in this institution.

110H. Physical Chemistry. (3) I, II. Mr. Ramsey
Prerequisite: course 110A or 110G. Open only by permission of the chair-
man of the department to graduate students who have not taken course 110B
in this institution.

111A. Physical Chemistry Laboratory. (2) I. Mr. Rogers
Laboratory, six hours. Prerequisite or concurrent: course 110A. Required
of chemistry majors. Fee, $14.
Physicochemical problems and measurements.

* May not be given, 1942–1943.
° Not to be given, 1942–1943.
111B. Physical Chemistry Laboratory. (2) I, II.
   Mr. Rogers, Mr. McCullough
   Laboratory, six hours. Prerequisite: course 110A; concurrent: course 110B. Required of chemistry majors. Fee, $14.
   A continuation of course 111A.

121. Advanced Inorganic Chemistry. (3) I. Mr. Stone
   Lecture, one hour; laboratory, six hours. Prerequisite: course 6B. Fee, $17.50.
   Equilibrium and reaction rate; periodic classification. Laboratory work principally synthetic and analytic, involving special techniques.

*131. Absorption Spectra and Photochemical Reactions. (2) I. Mr. Blacet
   Prerequisite or concurrent: course 110A.

*132. X Rays and Crystal Structure. (2) II. Mr. McCullough
   Prerequisite: course 110A.
   Symmetry of crystals; use of X rays in the investigation of crystal structure.

140. Industrial Chemistry. (2) II. Mr. Crowell
   Prerequisite: course 110A. Problems and discussions.
   Industrial stoichiometry; behavior of gases; vaporization and condensation; thermochemistry; weight and heat balance of industrial processes, etc.

199. Problems in Chemistry. (3) I, II.
   The Staff (Mr. Robertson in charge)
   Prerequisite: junior standing, a good scholastic record, and such special preparation as the problem may demand. Fee, $17.50.

GRADUATE COURSES

203. Chemical Thermodynamics. (3) II. Mr. Ramsey

*204. The Chemical Bond and Molecular Structure. (3) I. Mr. Coryell

221. Physical Aspects of Organic Chemistry. (3) I. Mr. Young, Mr. Winstein

222. Organic Chemistry. (3) II. Mr. Jacobs, Mr. Geissman

   (3 to 6 units each term.) The Staff (Mr. Young in charge)

   (3 to 6 units each term.) The Staff (Mr. Young in charge)

* Not to be given, 1942–1948.
CLASSICS

ARTHUR PATCH MCKINLAY, Ph.D., Professor of Latin, Emeritus.
FREDERICK MASON CAREY, Ph.D., Associate Professor of Latin and Greek (Chairman of the Department of Classics).
HERBERT BENNO HOFFLEIT, Ph.D., Assistant Professor of Latin and Greek.
DOROTHEA CLINTON WOODWORTH, Ph.D., Assistant Professor of Latin and Greek.

PAUL FRIEDLANDER, Ph.D., Lecturer in Latin and Greek.
DOROTHY C. MERIGOLD, Ph.D., Lecturer in Classics.

Letters and Science List.—All undergraduate courses in classical languages are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

The student may take the major in classical languages either in Latin or in Greek.

Preparation for the Major.

A. Latin.—Required: four years of high school Latin, or two years of high school Latin and courses 1 and 2; courses 3A–3B, 5A, 5B. Recommended: English, French, German, Greek, Italian, Spanish.

B. Greek.—Required: either course 1A–1B or two years of high school Greek; and 5A or 5B, or any 2 units of 100A–B–C–D (which may be taken concurrently with courses 101 and 102). Recommended: English, French, German, Italian, Latin, Spanish.

The Major.

A. Latin.—Courses 102, 104A–B–C–D, 106, 115, 117, 120, 191, plus 4 units of upper division courses in Latin, English, French, German, Greek, Italian, Spanish, philosophy, ancient or medieval history, to be chosen with the approval of the department.

B. Greek.—Courses 100A–B–C–D, 101, 102, 103, 104, 105, 114, plus 6 units of upper division courses in Latin, English, French, German, Italian, Spanish, philosophy, ancient or medieval history, to be chosen with the approval of the department.

Requirements for Admission to Graduate Courses.

A candidate for admission to graduate courses in Latin must meet, in addition to the general University requirements, the minimum requirements for an undergraduate major in this department. If the candidate is deficient in this prerequisite he must fulfill it by undergraduate work which is not counted toward his graduate residence.

Requirements for Admission to Candidacy for the Master's Degree.

1. A reading knowledge of French or German.
2. Completion of Greek 101.
3. Completion of Latin 200.
4. An elementary comprehensive examination in Latin literature, Roman history, and Latin composition. The composition requirements may be met by passing Latin 104A–B–C–D with an average of grade B or better.
Requirement for Master's Degree.

For the general requirements see page 106. The department favors the Comprehensive Examination Plan.

The following courses in the department do not require a knowledge of Freke or Latin:

Greek 40, 42A–42B, 109A–109B.

LATIN

LOWER DIVISION COURSES

A. Beginning Latin. (3) I. Mrs. Woodworth

B. Latin Readings. (3) II. Mrs. Woodworth
Prerequisite: course A or one year of high school Latin.

GA. Latin Prose Composition. (1) I, II.
Intended primarily for students entering with two years of high school Latin taken at least two years before matriculation in the University.

GB. Latin Prose Composition. (1) I, II.
Prerequisite: course B or GA, or two or three years of high school Latin.

1. Review of Grammar; Ovid. (3) I. Mrs. Woodworth
Prerequisite: course B or at least two years of high school Latin.

2. Vergil. (3) II. Mrs. Woodworth
Prerequisite: course 1, or course B with special permission of the instructor. Designed for students who have not studied Vergil in the high school.

3A–3B. Latin Prose Composition. (2–2) yr.
Prerequisite: course 1 or three years of high school Latin.

5A. A Survey of Latin Literature. (3) I, II. Mrs. Woodworth,
Prerequisite: course 2 or four years of high school Latin.

5B. A Survey of Latin Literature. (3) II.
Prerequisite: course 5A.

40. Latin Roots. (1) I, II. Mr. Friedländer, Mrs. Woodworth
For students who are interested in the many groups of English words which are derived from the Latin. A knowledge of Latin is not required.

42A–42B. Roman Civilization. (2–2) yr. Mr. Friedländer
Knowledge of Latin not required.
This course will undertake to appraise the accomplishments of Rome and acquaint the student with her significant personalities.

UPPER DIVISION COURSES

102. Silver Latin. (3) I. Mr. Carey
Prerequisite: courses 5A, 5B.

104A–104B. Latin Composition. (1–1) yr. Mr. Carey
Prerequisite: course 3A–3B.
Ciceronian prose.

* Not to be given, 1942–1948.
156 Classics

• 104C–104D. Latin Composition. (1–1) Yr.
  Prerequisite: course 3A–3B.
  Ciceronian prose.
  Mr. Carey

106. Tacitus: Annals. (3) II.
  Prerequisite: course 102.
  Mr. Hoffleit

  This course does not count on the major in Latin.
  A study of the literature of Rome from Ennius to Apuleius with reading
  in English.
  Mr. Hoffleit

†115. Ovid: Carmina Amatoria and Metamorphoses. (3) I.
  Prerequisite: courses 102, 106.
  Mr. Carey

117. Lucretius: Selections; Vergil: Eclogues and Georgics. (3) II.
  Prerequisite: 102, 106.
  Mr. Hoffleit

†120. Roman Satire. (3) II.
  Prerequisite: courses 102, 106.
  Mr. Carey

191. Cicero: Selections. (3) I.
  Prerequisite: courses 102, 106.
  Mr. Friedländer

196A–196B. Readings in Medieval Latin. (2–2) Yr.
  Prerequisite: two years of high school Latin. Designed as a preparation
  for students interested in medieval history, Old English, French, Spanish, and
  Latin.
  Mrs. Woodworth

199A–199B. Special Studies in Latin. (2–2) Yr. Mr. Carey and the Staff
  Prerequisite: senior standing and at least 12 units of upper division Latin.

GRADUATE COURSES

200. History of Classical Scholarship, Bibliography, and Methodology.
  (3) I.
  Required of all candidates for the M.A. degree in Latin.
  Mr. Carey and the Staff

202. Cicero's Philosophical Works. (3) I.
  Mr. Friedländer

• 203. Roman Historians. (3) II.
  Mr. Friedländer

†204. Roman Prose Writers. (3) I.
  Cicero's moral and political essays.
  Mr. Friedländer

206. The Roman Epic. (3) I.
  The Roman epic from Ennius to Silius Italicus.
  Mr. Hoffleit

• 208. Livy. (3) I.
  Mr. Hoffleit

210. Vergil's Aeneid. (3) I.
  Mrs. Woodworth

• 211. Cicero's Rhetorical Works. (3) II.
  Mr. Friedländer

* Not to be given, 1942–1943.
† Not to be given, 1942–1943; to be given, 1948–1944.
Classics

253. Seminar in Latin Studies. (3) II.  
Textual criticism.  
Mr. Carey

254. Seminar in Latin Studies. (3) II.  
Latin comedy.  
Mr. Carey

255. Seminar in Latin Studies. (3) II.  
Roman elegy.  
Mr. Carey

256. Seminar: Ovid. (3) II.  
Mr. Carey

Professional Course in Method

370. The Teaching of Latin. (3) I.  
Prerequisite: a foreign language minor.  
Mrs. Merigold

Greek

Lower Division Courses

1A–1B. Greek for Beginners, Attic Prose. (3–3) Yr.  
Mr. Hoffleit

5A–5B. Readings in Greek. (2–2) Yr.  
Mr. Hoffleit

40. Greek Roots. (1) I, II.  
Mr. Friedländer, Mr. Hoffleit  
For science majors and others interested in an understanding of the terms they meet. A knowledge of Greek is not required.

42A–42B. Greek Civilization. (2–2) Yr.  
Mr. Friedländer  
Does not count on the major in Greek.  
A study of the development of Greek culture and its influence upon the modern world.

Upper Division Courses

100A–100B. Prose Composition. (1–1) Yr.  
Prerequisite: course 1A–1B.  
Mr. Hoffleit

100C–100D. Prose Composition. (1–1) Yr.  
Prerequisite: course 1A–1B.  
Mr. Carey

101. Homer: Odyssey; Herodotus: Selections. (3) I.  
Prerequisite: course 1A–1B.  
Mr. Carey

102. Plato: Apology and Crito; Lyric Poets. (3) II.  
Prerequisite: course 101.  
Mr. Hoffleit

103. Greek Drama: Euripides and Aristophanes. (3) II.  
Prerequisite: courses 101, 102.  
Mr. Hoffleit

104. Historical Prose: Herodotus and Thucydides. (3) I.  
Prerequisite: courses 101, 102.  
Mr. Carey

105. Greek Drama: Aeschylus and Sophocles. (3) II.  
Prerequisite: courses 101, 102.  
Mr. Carey

† Not to be given, 1942–1943; to be given, 1943–1944.
‡ Not to be given, 1942–1943. Courses 108 and 114 are ordinarily given in alternation with 104 and 105, respectively.
**109A–109B. A Survey of Greek Literature in English. (2–2) Yr.**

Mr. Carey

This course does not count on the major in Greek.

A study of the literature of Greece from Homer to Lucian with reading in English.

114. Plato: Republic. (3) I.

Prerequisite: courses 101, 102.

Mr. Carey


Mr. Hoffmeit

199A–199B. Special Studies in Greek. (1–4; 1–4) Yr.

Mr. Carey and the Staff

Prerequisite: senior standing and at least 12 units of upper division Greek. Problems in classical philology.

**Related Courses in Other Departments**

General Philology and Linguistics 150. Introduction to General Language.

(1) I.

Mrs. Woodworth

(See page 181.)

History 111A. Greek History to the Roman Conquest. (3) I.

Mr. Straw

History 111B. Roman History to the Accession of Augustus. (3) II.

Mr. Straw

History 111C. The Roman Empire from Augustus to Constantine. (3) I.

Mr. Straw

Philosophy 152. Plato and His Predecessors. (3) I.

Mr. Friedländer

Philosophy 153. Aristotle and Later Greek Philosophy. (3) II.

Mr. Friedländer

**Not to be given, 1942–1948. Greek 109A–109B is ordinarily given in alternation with Latin 109A–109B.**
Letters and Science List.—All undergraduate courses in economics are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: Economics 1A–1B, Business Administration 1A–1B and either History 4A–4B or History 5A–5B. Economics 40 is required of all majors in economics (unless they are prepared to take Economics 142 or Statistics 131A), but it may be taken in either lower or upper division.

The Major.—Twenty-four upper division units, including two units from Economics 100A, 100B, 102, or 103. A maximum of 6 units may be offered toward the major from the following list of courses: Business Administration 131, 132, 145, 153, 160A–160B, 180, or 6 upper division units in sociology, or History 131A–131B; the 6 units must be entirely in one department.

Not more than a total of 30 upper division units in economics and business administration may be counted toward the bachelor's degree.

Students planning to undertake graduate work in economics will do well to study mathematics. For those who have not the background or the time for more extended work, Mathematics 2 or 7 is recommended.

Civil Service.—Students planning to take civil service examinations for positions as economists should include in their major economic theory, courses 135 and 138, should concentrate in two major fields in economics, and should take political science courses in public administration and constitutional law. They should consult with the departmental adviser on civil service examinations.

Majors Other than Economics.—Students with majors other than economics who wish training in economics for professional careers are advised to take courses 101, 142, 150, 158, and 170.

General Secondary and Special Secondary Credentials.—Students planning to undertake work leading to the General Secondary Credential in Business Education or with Social Science Field Major, or the Special Secondary Credential in Business Education, should consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION (Los Angeles).

Laboratory Fee.—Economics 40, $2.50.

*In residence spring term only, 1942–1948.
Economics

LOWER DIVISION COURSES

1A–1B. Principles of Economics. (3–3) Beginning either term.  
Mr. Miller, Mr. Stockwell  
Lectures, two hours; quiz, one hour. Open only to lower division students or to upper division majors in economics.

40. Economic and Social Statistics. (3) II.  
Mr. Maverick  
Lectures, two hours; laboratory, one two-hour period. Prerequisite: sophomore standing. Statistics 131A may be substituted for this course in preparation for the major in economics. Fee, $2.50.

An introduction to methods of analyzing economic and statistical data, with emphasis on analysis; sources and interpretation of economic and social statistics. Mathematical treatment is reduced to the simplest possible terms.

UPPER DIVISION COURSES

Courses 1A–1B or 101 are prerequisite to all upper division courses in economics.

100A. General Economic Theory. (2) I, II.  
Mr. Rapp  
An introduction to economic theory with emphasis upon its application to practical problems.

100B. Value and Distribution. (2) II.  
Mr. Maverick  
Study of the principles of value and distribution under competition, monopoly, and monopolistic competition.

101. Principles of Economics. (3) I, II.  
Mr. Stockwell  
Not open to majors in economics nor to those who have taken course 1A–1B. This course serves as prerequisite for all upper division courses in economics.

Principles of economics with application to current problems.

*102. Mathematical Economics. (2) I.  
Mr. Maverick  
Prerequisite: either differential calculus or Mathematics 7.  
Demand, supply, cost and prices under conditions of competition and monopoly; general equilibrium.

103. Development of Economic Theory. (2) II.  
Mr. Maverick  
A study of economic theory by emphasis on historical development of theory of value, production, distribution, population, etc.

106. The History of Utopian Thought. (3) II.  
Mr. Enke  
A study of the Utopias that have influenced economic thought from Plato's Republic to H. G. Wells' Modern Utopia.

107. Comparative Economic Systems. (3) I.  
Mr. Enke  
The concepts and agencies of economic and social progress; an analysis of the theories and programs of modern reform movements.

*108. Development of Economic Institutions. (3) I.  
Development of institutions characteristic of a capitalistic economy; evolution of concepts of private property, individual enterprise, and competition. Critical survey of theories of economic progress.

* Not to be given, 1942–1948.
131A–131B. Public Finance. (2–2) Yr. Mr. Stockwell
The principles underlying the raising and spending of public money. Property, income, corporation, inheritance, sales taxes, and other sources of revenue. Public borrowing. Budgetary procedure. Economic and social significance of the fiscal structure and policies.

133. Federal Finance. (3) II. Mr. Rapp
A study of the federal budget, federal expenditures, national defense, and financing of federal projects such as R.F.C., A.A.A., and public works.

136. Money and Banking. (3) I, II. Mr. Burttchett, Mr. Anderson
The principles and history of money and banking, with principal reference to the experience and problems of the United States.

136. Monetary and Financial History. (3) I. Mr. Anderson
Prerequisite: course 135.
The monetary and financial history, together with the major theoretical issues of the period; although the principal emphasis is laid upon financial conditions in the United States, the international setting is also considered, particularly with reference to England, France and Germany.

137. International Finance. (3) I.
An analysis of recent international financial developments with particular attention to intergovernmental loans and reparations, private capital movements, gold flows, etc.

138. Business Cycles. (3) II. Mr. Maverick
A study of fluctuations in business, as in prices, production, wages, and profits, whether there is a common or general fluctuation; theories of causation; feasibility of forecasting; adjustment of business management to the cycles; possibility of controlling the cycle or alleviating its social effects.

142. Quantitative Economics. (3) II. Mr. Maverick
Prerequisite: courses 40 and 100A, or the equivalent.
Development and methods of quantitative economics; statistical economic studies; government reports.

150. Labor Economics. (3) I, II. Mr. Dodd
The problems of labor; the rise of modern industrialism; the principal causes of industrial strife, and the basis of industrial peace.

151. Economics of Consumption. (3) II. Mr. Dodd
Theory of consumption and consumer demand; standards of living; family budgets. Survey of efforts to improve the position of the consumer.

152. Social Insurance. (3) I. Mr. Dodd
Basis of the Social Security program; unemployment insurance, workers' compensation, old age pensions, insurance against sickness.

155. History and Problems of the Labor Movement. (3) II. Mr. Dodd
The development of the American labor movement; the structure of unionism; demands and accomplishments of labor. A theory of the labor movement. The contemporary movement.

* Not to be given, 1942–1948.
158. Industrial Relations. (3) I. Mr. Dodd
Employer-employee relations; industrial arbitration; mediation; wage contracts; wage determination; state and federal administration; union management and control.

170. Economics of Industrial Control. (3) II. Mr. Pegrum
The economic functions of business organizations; the economics of industrial production and pricing; the control of competitive enterprise; combinations and monopolies and their control; governmental regulation and economic planning.

171. Public Utilities. (3) I. Mr. Pegrum
The economics of public service corporations from both the public and private points of view; the economic problems of regulation; problems of finance, rate-making, and valuation; state, national, and international problems arising from the development of public utilities; public ownership.

173. Economics of Transportation. (3) I, II. Mr. Rapp
A general historical and contemporaneous survey of transportation agencies in the United States; the functions of the different transportation agencies; rate structures; problems of state and federal regulation; coordination of facilities. The current transportation problem.

176. Economics of War. (3) II. Mr. Anderson
Nature of a war economy; mobilization for war; war finance; priorities; rationing; price control and inflation; war-time economic administration.

195. Principles of International Trade. (3) I. Mr. Robbins
An introduction to the principles and practices of international trade and foreign exchange. A survey of the historical development of the theories of foreign trade. A brief introduction to methods and practices of exporting and importing.

196A. International Economics. (3) I. Mr. Enke
Fundamental factors in international economic relations; theories of capital movement; theories of public policy.

196B. Problems in International Economics. (3) II. Mr. Enke
Distribution of world's population and resources, commercial policies, international controls.

GRADUATE COURSES

201A–201B. History of Economic Doctrine. (3–3) Yr. Mr. Watkins

214. Economic Theory. (3) I. Mr. Rapp
The basic principles of economic theory; the nature of economic science; consumption, production, value and price, distribution.

*215. Economics of Production. (3) II. Mr. Pegrum
Production economics; competition; imperfect competition; monopoly; overhead costs; the planning of production.

*Not to be given, 1942–1943.
Mr. Pegrum

A study of government in economic life with special reference to institutional factors, economic problems of regulation, price policies and economic planning, war-time controls.

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<tr>
<th>Course</th>
<th>Instructor</th>
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<tr>
<td>233. Studies in Public Finance. (2) I.</td>
<td>Mr. Stockwell</td>
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<td>235. Monetary Theory. (2) II.</td>
<td>Mr. Anderson</td>
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<tr>
<td>236. Studies in Contemporary Banking. (2) I.</td>
<td>Mr. Anderson</td>
</tr>
<tr>
<td>238. Economic Fluctuations. (2) II.</td>
<td>Mr. Maverick</td>
</tr>
<tr>
<td>240. Social Insurance. (2) I.</td>
<td>Mr. Dodd</td>
</tr>
<tr>
<td>242. Studies in Industrial Relations. (2) II.</td>
<td>Mr. Dodd</td>
</tr>
<tr>
<td>255. Value and Distribution Seminar. (2) I.</td>
<td>Mr. Anderson</td>
</tr>
<tr>
<td>*256. Value and Distribution Seminar. (2) I.</td>
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<tr>
<td>Prerequisite: the consent of the instructor.</td>
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<tr>
<td>290. Special Problems. (1–6) I, II.</td>
<td>The Staff (Mr. Pegrum in charge)</td>
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<tr>
<td>* Not to be given. 1942–1943.</td>
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</tbody>
</table>
Education

EDUCATION

MERTON E. HILL, Ed.D., Professor of Education.
DAVID F. JACKBY, Ph.D., Professor of Vocational Education.
W. W. KEMP, Ph.D., Professor of Education.
EDWIN A. LEE, Ph.D., Professor of Education (Chairman of the Department).
KATHERINE L. MCLAUGHLIN, Ph.D., Professor of Education.
JUNIUS L. MERIAM, Ph.D., Professor of Education.
LLOYD N. MORRISSET, Ph.D., Professor of Education.
WILLIAM A. SMITH, Ph.D., Professor of Education.
CHARLES WILKIN WADDELL, Ph.D., Professor of Education.
J. HAROLD WILLIAMS, Ph.D., Professor of Education.
FREDRIC P. WEILLNER, Ph.D., Professor of Education.
ERNEST CARROLL MOORE, Ph.D., LL.D., Professor of Education and Philosophy, Emeritus.

JESSE A. BOND, Ed.D., Associate Professor of Education.
HARVEY L. EBY, Ph.D., Associate Professor of Education.
JOHN A. HOCKETT, Ph.D., Associate Professor of Education.
ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education.
FLAUD C. WOOTON, Ph.D., Associate Professor of Education.
CLARENCE HALL BOBISON, Ph.D., Associate Professor of Education, Emeritus.
DAVID McDONALD, Ph.D., Assistant Professor of Education and Educational Counselor.
MAY V. SEAGO, Ph.D., Assistant Professor of Education.
CORINNE A. SEEDS, M.A., Assistant Professor of Elementary Education.
SAMUEL J. WANOUS, Ph.D., Assistant Professor of Office Management and Business Education.
DONALD G. STEWART, M.A., Assistant in Education.

HELEN CHRISTIANSON, Ph.D., Lecturer in Education.

Training

JESSE A. BOND, Ed.D., Director of Training.
JOHN A. HOCKETT, Ph.D., Associate Director of Training.
FLAUD C. WOOTON, Ph.D., Associate Director of Training.

Departmental Supervisors

ROBERT S. HILPERT, M.A., Associate Professor of Art Education.
CLARA BARTRAM HUMPHREYS, M.A., Associate in Fine Arts.
SAMUEL J. WANOUS, Ph.D., Assistant Professor of Office Management and Business Education.

ESTELLA B. PLOUGH, Associate in Commercial Practice.

1 In residence fall term only, 1942–1948.
Education

Foss R. Brookway, Ed.B., Associate in Mechanic Arts.
Helen Chute Dill, M.A., Supervisor of Training, Music.
Hazel J. Cubberley, M.A., Associate Professor of Physical Education for Women.
Paul Frampton, M.A., Associate Supervisor of Physical Education for Men.

University Elementary School

Corinne A. Seeds, M.A., Principal of the University Elementary School.
Helen Christianson, Ph.D., Supervisor of Nursery School Training.
Diana W. Anderson, M.A., Supervisor of Training, Physical Education.
Laverna L. Lossing, M.A., Supervisor of Training, Music.
Natalie White, M.A., Supervisor of Training, Art.
Sybil K. Richardson, M.A., School Counselor.
Gertrude C. Maloney, M.A., Training Teacher, Sixth Grade.
Helen F. Bouton, M.A., Training Teacher, Fifth Grade.
Nora Belle Hefflin, M.A., Training Teacher, Fifth Grade.
Bessie Hoyt Persels, M.A., Training Teacher, Fourth Grade.
Lola C. Jensen, B.S., Training Teacher, Third Grade.
Helen Sue Read, B.S., Training Teacher, Second Grade.
Clayton Burrow, M.S., Training Teacher, First Grade.
Jane Bernhardt Stryker, M.A., Training Teacher, Kindergarten.
Marjorie Lembark, Ed.B., Assistant Training Teacher, Kindergarten.
Blanche Ludlum, M.A., Assistant Training Teacher, Nursery School.
Eleanor Strand, Ed.B., Assistant Training Teacher, Nursery School.
Phoebe James, Assistant in the University Elementary School.
Mary Lovisa Barrett, A.B., Assistant in the Nursery School.

City Training Schools

Nora Sterry Elementary Training School

George F. Grimes, B.S., Principal.
Helen B. Keller, Ed.B., Supervisor of Training, Elementary.

The staff consists of twenty to twenty-five training teachers selected from the Los Angeles city school system. The personnel varies from year to year.

Fairburn Avenue Elementary Demonstration School

Mary Lindsey, M.A., Principal.
Ethel I. Salisbury, M.A., Supervisor of Training.

A staff of demonstration teachers, varying in personnel from year to year, is chosen from the Los Angeles school system to carry on work open for observation to University students, public school teachers, and administrators.

Junior and Senior High Schools

Ralph D. Wadsworth, M.A., Principal, University High School.
Helen M. Darsie, M.A., Vice-Principal, University High School.
RAYMOND J. CASEY, M.A., Vice-Principal, University High School.
PAUL E. GUSTAFSON, M.A., Principal, Emerson Junior High School.
CARRIE M. BROADED, M.A., Vice-Principal, Emerson Junior High School.
CRAWFORD E. PEEK, M.A., Vice-Principal, Emerson Junior High School.
LUZERNE W. CRANDALL, M.A., Supervisor of Training, Secondary.
ATTILIO BISSINI, M.A., Supervisor of Training, Secondary.
CECILIA R. IRVINE, M.A., Supervisor of Training, Secondary.
DOROTHY C. MERRIGOLD, Ph.D., Supervisor of Training, Secondary.
MARYELLEN LOMBARDI, Ph.D., Counselor, University High School.
HILDUR C. OSTERBERG, M.A., Counselor, Emerson Junior High School.

The rest of the secondary school staff consists of about one hundred public school teachers carefully chosen for their ability as teachers and as supervisors by the University supervisory staff and approved for such service by the public school authorities. Each ordinarily assumes responsibility for the training of not more than one to three student teachers at any one time. The personnel varies from term to term as the needs of the University require.

An undergraduate major is not offered in the Department of Education* at Los Angeles. Students desiring to qualify for certificates of completion leading to teaching and administration credentials should consult the Announcement of the School of Education, Los Angeles.

College of Letters and Science

Letters and Science List.—Courses 101A–101B, 102, 106, 110, 111, 112, 114, 119, 170, 180 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

UPPER DIVISION COURSES

History and Theory of Education

101A–101B. History and Philosophy of Education. (3–3) Yr. Mr. Meriam
The story of instruction from its beginning in Greece; the account of Athens, the practices of the Athenians and the critical thinking of Socrates, Plato, and Aristotle; Roman education; a survey of the philosophy of education exhibited in the writings of educational leaders since 1900.

102. History of American Education. (3) I, II. Mr. Eby
The development of significant educational movements in the United States as a basis for analysis of present-day problems.

106. The Principles of Education. (3) I, II. Mr. Lee, Mr. McDonald
A critical analysis of the assumptions underlying education in a democratic social order.

* Until September 15, 1948, students registered as majors in education in the Teachers College prior to July 1, 1939, may complete requirements for the degree of Bachelor of Education and for teaching credentials, under the requirements of that college as listed in the General Catalogue of the Departments at Los Angeles, 1938–39.

* Not to be given, 1942–1948.
Education

Educational Psychology

Psychology 21, 22, or the equivalent, are prerequisite to all courses in educational psychology.

110. The Conditions of Learning. (3) I, II. Miss Seagoe
Speech, writing, number, literature, science considered as social institutions evolved through cooperative intellectual effort. Analysis of the conditions under which the child attains most effective mastery of these skills and knowledges.

111. Growth and Development of the Child. (3) I, II. Miss McLaughlin
A study of intellectual, emotional, and social development during childhood and adolescence. Particular attention is given to problems of mental hygiene during critical growth periods.

112. Adolescence. (3) I, II. Mr. Waddell
The physical, mental, moral, and social traits of adolescence with special reference to their bearing upon problems of instruction in junior and senior high schools.

114. Educational Statistics. (2) I, II. Mr. Williams
Students who are taking or who have taken any other course in statistics will receive only one unit of credit for this course.
Statistical procedures applicable to educational problems and educational research.

119. Educational Measurement. (2) I, II. Miss Seagoe
Use of standardized tests in problems of group and individual diagnosis and evaluation.

Early Childhood Education

123. Social Backgrounds of Child Development. (3) I. Miss Christianson
Prerequisite: Psychology 21 and 22.
A study of the factors conditioning growth, development, and learning in early childhood.

124. Arts in Childhood Education. (3) II. Miss Christianson
Prerequisite: course 111.
The functional values of music, speech, rhythm, and dramatic play in early child development.

125A. Kindergarten-Primary Education. (3) I. Miss McLaughlin
Prerequisite: courses 110, 111. Required for the kindergarten-primary teaching credential.
Reading and literature in the lower school, including aims, standards, of attainment, materials, and technique of teaching.

125B. Kindergarten-Primary Education. (3) II. Miss McLaughlin
Prerequisite: course 125A. Required for the kindergarten-primary teaching credential.
Organization, curricula, and procedures in the nursery school, kindergarten, and primary grades.
Education

Elementary Education

136. Rural School Curriculum Adaptations. (3) I, II. Mr. Eby
The development and direction of the curriculum in a rural school situation; the availability and use of the educational resources in the local environment.

139. The Elementary Curriculum. (3) I. Mr. Meriam
Prerequisite: senior standing.
An introduction to the problem of curriculum organization as exemplified in representative courses of study. Emphasis is laid on the planning of activity units appropriate to the varying maturity levels of children.

Educational Administration and Supervision

140. The Teacher and Administration. (2) II. Mr. Morrisett
The teacher considered as a part of the educational system and his responsibilities to the organization.

142. State and County School Administration. (2) I, II. Mr. Kemp
Prerequisite: the consent of the instructor.
The organization and administration of state school systems with special reference to the interrelation of federal, state, and county support and organization.

°147. Rural School Administration. (3) I. Mr. Eby
A consideration of the problems, principles, and methods involved in the administration of a rural school system.

148. Legal Bases of Public Education in California. (2) II. Mr. McDonald
Prerequisite: the consent of the instructor.
Organization and administration of the California school system, as given in the school law of the state and as interpreted by the rulings of the State Superintendent of Public Instruction and the Attorney General.

149. Field Work in Administration and Supervision. (2) I, II. Mr. Morrisett
To be taken concurrently with or subsequent to elementary or secondary school administration.

Vocational Education

160. Vocational Education. (2) I. Mr. Jackey
An attempt to develop an understanding and appreciation of the economic and social significance of vocational education in a democracy.

164. Vocational Guidance. (2) II. Mr. Jackey
The need of vocational guidance in a changing industrial order. The technique of guidance, as exemplified in case studies.

165. Business Education. (3) I. Mr. Wanous
The organization, administration, and teaching of business education in secondary schools.

° Not to be given, 1942–1943.
Secondary Education

170. Secondary Education. (3) I, II. Mr. Smith
Prerequisite: senior standing and Psychology 21, 22.
A study of secondary education in the United States, with special reference to the needs of junior and senior high school teachers.

Social and Adult Education

180. Social Foundations of Education. (3) I, II. Mr. Woellner
Education as a factor in social evolution. Analysis of current educational practices in the light of modern social needs.

181. Adult Education. (2) I, II. Mr. Woellner
An analysis of the adult education movement to ascertain principles for organizing and conducting special and evening classes for mature students. Problems of citizenship, Americanization, and vocational and liberal education will be considered.

185. Rural Society and Education. (3) I, II. Mr. Eby
A study of the social-economic problems and needs in rural communities as affecting rural education.

Special Studies in Education

Open to senior and graduate students with the consent of the instructor.

199A. Studies in Administration of Secondary Education. (2 to 4) II. Mr. Hill
199B. Studies in Curriculum. (2 to 4) I. Mr. Meriam
199C. Studies in Educational Psychology. (2 to 4) I, II. Miss Seagoe
199D. Studies in Rural Education. (2 to 4) II. Mr. Eby
199E. Studies in Administration of Elementary Education. (2 to 4) I, II. Mr. Hockett
199F. Studies in Guidance. (2 to 4) I, II. Mr. McDonald

GRADUATE COURSES

208. Social and Civic Foundations of Education. (2) I, II. Mr. Kemp
Prerequisite: courses 106 and 180 and the consent of the instructor.

226. Studies in Business Education. (2) II. Mr. Wanous

240. Organization and Administration of Education. (2) I. Mr. Morrisett
241. City School Administration. (2) I, II. Mr. Morrisett
243. Administration of Secondary Education. (2) II. Mr. Hill
250A–250B. History of Education. Seminar. (2–2) Yr. Mr. Wooton
251A–251B. Elementary Administration and Supervision. Seminar. (2–2) Yr. Mr. Waddell

* Not to be given, 1942–1943.
§ A thesis is required of all candidates for the degree of Master of Arts with major in education.
253A--253B. Early Childhood Education. Seminar. (2-2) Yr. Miss McLaughlin
254. Experimental Education. Seminar. (2) I. Mr. Williams
255. School Surveys. Seminar. (2) II. Mr. Williams
256A--256B. Principles of Education. Seminar. (2-2) Yr. Mr. Wooton
Prerequisite: course 106 or its equivalent.
260A--260B. Educational Psychology. Seminar. (2-2) Yr. Miss Seagoe
Prerequisite: course 110 or Psychology 110, and course 114 or 119.
262A--262B. The Elementary School Curriculum. Seminar. (2-2) Yr. Mr. Hockett
270A--270B. Secondary Education. Seminar. (2-2) Yr. Mr. Smith
275A--275B. Problems in Secondary Education. (2-2) Yr. Mr. Wooton
276A--276B. Research in Curriculum. (1-4; 1-4) Yr. Mr. Meriam
279. Problems in Junior College Administration. (2) II. Mr. Hill
290. Fundamentals of Educational Research. (2) I, II. Mr. Kemp
Limited to candidates for advanced degrees in the field of education; admission by consent of the instructor.
292A--292B. Research in Educational Administration. (1-4; 1-4) Yr. Mr. Morrisett
Prerequisite: teaching experience in elementary or secondary schools.

COURSES PREPARATORY TO SUPERVISED TEACHING

330. Introduction to Elementary Teaching. (4) I, II. Miss Seeds, Mr. Hockett
Prerequisite: courses 110, 111, and a C average or better in all work taken in the University of California. This course precedes by one term all teaching in kindergarten-primary and general elementary grades.
An intensive study of the principles of teaching made effective by assigned reading, observation, participation, analysis of teaching problems, and preparation of units of work.

370. Introduction to Secondary Teaching. (3) I, II. Mr. Bond
Prerequisite: regular graduate status; courses 170 and one of: 101A, 101B, 102, 106, 112, 140, 180, or Psychology 110.
An intensive study of teaching and learning in the secondary school. This course is prerequisite to courses G377, G378 and G379, and is so conducted as to prepare for and lead to definite placement in supervised teaching.
Other courses in teaching methods in special subjects will be found listed in the 300-series, Professional Courses in Method, in the offerings of the various departments, and in the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION (Los Angeles).

* Not to be given, 1942-1948.
SUPERVISED TEACHING

Supervised teaching is provided for in (1) the University Elementary School, comprising a nursery school, kindergarten, and the elementary grades; (2) Nora Sterry Elementary School of Los Angeles City; (3) Fairburn Avenue Elementary School; (4) University High School and Emerson Junior High School of Los Angeles City; (5) other high schools of Los Angeles and Santa Monica, as requirements demand.

The work is organized and administered by the Director of Training and a corps of supervisors and training teachers, chosen in every case by the University authorities.

All candidates for supervised teaching must secure the approval of a university physician prior to assignment. Formal application for assignment must be made at the office of the Director of Training about the middle of the term preceding that in which such teaching is to be done. For the last dates of application without late fee, see the Calendar, pages 8 and 9. All courses are offered each term.

Undergraduate candidates for kindergarten-primary, elementary, or special secondary teaching must have maintained at least a C average in all courses in education, in all courses comprising the major, and in all work completed at the University of California.

For Kindergarten-Primary, General Elementary and General Junior High School Credentials

K335A–K335B. Supervised Teaching: Kindergarten-Primary. (4–4)
Prerequisite: senior standing, Physical Education 330, and course 330. Required of all candidates for the Kindergarten-Primary Credential.

K336. Supervised Teaching: Kindergarten-Primary. (1 to 4).
Supplementary teaching which may be elected by the student, or in certain cases, required by the department.

E335A–E335B. Supervised Teaching: General Elementary. (4-4).
Prerequisite: senior standing, Physical Education 330, and course 330. Required of all candidates for the General Elementary Credential.

E336. Supervised Teaching: General Elementary. (1 to 4).
Supplementary teaching which may be elected by the student, or, in certain cases, required by the department.

J374. Supervised Teaching: General Junior High School. (2 to 6).
Prerequisite: course E335A–E335B, or a minimum of 6 units of teaching in a special field.

For Special Secondary Credentials

A375. Supervised Teaching: Art. (3 or 4).

A376. Supervised Teaching: Art. (1 to 4).
Prerequisite: senior standing, course 170, Art 370A–370B. A total of 6 units required of all candidates for the Special Secondary Credential in Art.

B375. Supervised Teaching: Business Education. (3 or 4).
B376. Supervised Teaching: Business Education. (1 to 4).
   Prerequisite: senior standing, course 170, Business Administration 370A–370B. A total of 6 units required of all candidates for the Special Secondary Credential in Business Education.

H375. Supervised Teaching: Home Economics. (3 or 4).

H376. Supervised Teaching: Home Economics. (1 to 4).
   Prerequisite: senior standing, course 170, Home Economics 370. A total of 6 units required of all candidates for the Special Secondary Credential in Homemaking.

MA375. Supervised Teaching: Mechanic Arts. (3 or 4).

MA376. Supervised Teaching: Mechanic Arts. (1 to 4).
   Prerequisite: senior standing, course 170, Mechanic Arts 370. A total of 6 units required of all candidates for the Special Secondary Credential in Industrial Arts Education.

M375. Supervised Teaching: Music. (3 or 4).

M376. Supervised Teaching: Music. (1 to 4).
   Prerequisite: senior standing, course 170, Music 370A–370B. A total of 6 units required of all candidates for the Special Secondary Credential in Music.

P375. Supervised Teaching: Physical Education. (3 or 4).

P376. Supervised Teaching: Physical Education. (1 to 4).
   Prerequisite: senior standing, course 170, Physical Education for Men 354 and 355A–355B, or Physical Education for Women 321A–321B and 321C–321D.

For General Secondary and Junior College Credentials'

   Prerequisite: regular graduate status, courses 170, 370. This course is accompanied by a required conference each week; hours for teaching are by individual arrangement. Required of all candidates for the General Secondary Credential.
   Supervised teaching, consisting of participation in the instructional activities of one high school class for one term.

G378. Supervised Teaching: General Secondary. (1 to 6).
   Prerequisite: regular graduate status, courses 370 and G377, or the equivalents, or public school experience and the consent of the Director of Training.
   A supplementary course in secondary teaching designed for (1) those experienced in public school teaching who need to improve their teaching techniques; (2) those seeking general secondary or junior college credentials after having completed the supervised teaching required for some other type of credential; (3) those who wish to elect types of classroom or other experience not provided in their previous training.

   Prerequisite: courses 279, 370, or the equivalents, and the consent of the Director of Training. Restricted to candidates for the Junior College Credential alone who are teaching classes in the University or in a junior college.
383. Supervised Teaching: Supplementary. (1 to 6).  
Prerequisite. course 170.

TEACHING REQUIREMENTS FOR MORE THAN ONE CREDENTIAL

*1. Kindergarten-Primary and General Elementary Credentials:  
   Education K335A–K335B, and E335A; or E335A–E335B, and K335A.

2. General Elementary and General Junior High School Credentials:  
   E335A–E335B, and J374 (in a minor field).

*3. General Elementary and Special Secondary Credentials:  
   A minimum of 6 units of teaching in the special field, and E335A.

4. General Elementary and General Secondary Credentials:  
   E335A–E335B; and G377 or G378; or G377, and E335A.

*5. Special Secondary and General Junior High School Credentials:  
   A minimum of 6 units of teaching in the special field, and J374 (in a minor field).

6. Special Secondary and General Secondary Credentials:  
   A minimum of 6 units of teaching in the special field, and G377 or G378;  
   or G377, and a minimum of 6 units of teaching in the special field.

7. Junior College and General Secondary Credentials:  
   G379, and G377 or G378.

* The combinations starred are in greatest demand.
ENGLISH

FREDERIC THOMAS BLANCHARD, Ph.D., Professor of English.
LILY B. CAMPBELL, Ph.D., Professor of English.
SIGURD BERNHARD HUSTVEDT, Ph.D., Professor of English.
DIXON WEBER, Ph.D., Professor of English.
ALFRED E. LONGUEUIL, Ph.D., Associate Professor of English (Chairman of the Department).
DIxon Wncm, Ph.D., Professor of English.
ALra Ed E. LONGUEIL, Ph.D., Associate Professor of English (Chairman of the Department).
FRANxLIN PRascoTT RolSE, Ph.D., Associate Professor of English.
HERBERT F. ALLEN, Ph.D., Associate Professor of English, Emeritus.
BRADFORD A. BOOTH, Jr., Ph.D., Assistant Professor of English.
LLEWELLYN MORGAN BUell, Ph.D., Assistant Professor of English.
MARGARET SPRAGUE CARNART, Ph.D., Assistant Professor of English.
HUGH GilCHRIST Dick, Ph.D., Assistant Professor of English.
CARL SAWYER DOWNES, Ph.D., Assistant Professor of English.
MAJI EWING, Ph.D., Assistant Professor of English.
*EDWARD N. HOOKER, Ph.D., Assistant Professor of English.
*CLAude JONES, Ph.D., Assistant Professor of English.
HARRISON M. KARE, Ph.D., Assistant Professor of Public Speaking.
WESLEY LEWIS, Ph.D., Assistant Professor of Public Speaking.
HARBERT M. MACKENZIE, Ph.D., Assistant Professor of English.
WILLIAM MATTHEWS, Ph.D., Assistant Professor of English.
JOHN F. ROSS, Ph.D., Assistant Professor of English.
HUGH THOMAS SWEDENBERG, Ph.D., Assistant Professor of English.
ALICE O. HUNNEWELL, B.L.I., Instructor in English.
JAMES MURRAY, Ed.D., Instructor in Public Speaking.
*JAMES E. PHILLIPS, Jr., Ph.D., Instructor in English.
HENRY F. THOMA, Ph.D., Instructor in English.
JACK S. MORRISON, A.B., Assistant in Public Speaking.

RALPH FREUD, Lecturer in Public Speaking.
ERNEST VAN B. JONES, Ph.D., Lecturer in English.
DAVINEL VANBRAEG, M.A., Lecturer in Public Speaking.
LOUIS B. WRIGHT, Ph.D., Lecturer in English.

Students must have passed Subject A (either examination or course) before taking any course in English or Public Speaking. Regulations concerning Subject A will be found on page 38 of this catalogue.

Letters and Science List.—All undergraduate courses in English and public speaking are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

* Absent on leave, 1942–1948.
Preparation for the Major.—Courses 1A–1B and 36A–36B or the equivalent, with an average grade of C or higher; History 5A–5B or the equivalent.

Recommended: Ancient and modern foreign languages. A reading knowledge of French or German is required for the M.A. degree. For the Ph.D. degree a reading knowledge of both French and German is required; a reading knowledge of Latin is essential for work in some fields.

The Major.—1. Students must present, in the first half of the junior year, a program to be examined and approved by the departmental adviser to upper division students. The program may be amended from time to time after consultation with the department representative.

2. The program must comprise 24 units of upper division courses, including (1) English 117J, to be taken in the junior year; (2) one of the Type courses; (3) two of the Age courses; (4) English 151L, to be taken in the senior year.

3. The student must maintain an average grade of C in upper division English courses, and at the end of the senior year must pass a comprehensive final examination.

A. Requirements for the General Secondary Credential.

1. For the field major in English and Speech.
   (a) The completion of the following: (1) English 1A–1B, 36A–36B; (2) 6 units from Public Speaking 1A, 2A, 2B; (3) English 106 or 31; 117J; 150A–150B or 190A–190B; 115 or 153; (4) 6 units from English 114A–114B, 122A–122B, 125C–125D, 125G–125H; (5) 6 units from English 156, 157, 167, 177, 187; (6) 6 units from Public Speaking 1110–111D, 122, 155A–155B, 156, 165; (7) English 370, to be taken in the first term of graduate residence; (8) 6 units of courses in the 200 series or their equivalent, to be selected after consultation with the adviser.
   (b) The passing of the Senior Comprehensive Final Examination with a grade of C or better.

2. For the field minor in English and Speech, the completion of the following courses: (1) English 1A–1B, 36A–36B; (2) 3 units from Public Speaking 1A, 2A; (3) English 106 or 31; (4) 6 units from English 114A–114B, 115, 117J, 125C–125D, 150A–150B, 158, 190A–190B.

B. Requirements for Admission to Graduate Courses.

Ordinarily the undergraduate major in English or its equivalent. (No graduate student may take a graduate course in English who has to his credit fewer than 12 units in upper division major courses in English.) This requirement is prerequisite to the 24 units demanded for the master's degree. If the candidate is deficient in this prerequisite, he must fulfill it by work undertaken as a graduate student.

C. Requirements for the Master's Degree.

1. For the general requirements, see page 106. The department follows Plan II.

2. Departmental requirements: (a) Students are required to take the reading test in French or German at the beginning the first term of residence. (b) They must pass a preliminary general examination, set by the department toward
the middle of each term. Those who have passed the Senior English Comprehen-
sive Examination with a grade of A or B will be excused from this examination.
(c) They must complete English 200, Bibliography (offered in the first term
only), and 3 units from English 208, 209, 211A–211B, 212. (d) Students
should choose the allowable 12 undergraduate units from English 110, 111,
151L, and the Age courses.

D. Requirements for the Doctor's Degree.

1. For the general requirements, see page 109.

2. Departmental requirements: (a) On entering the department, candidates
will present to the chairman a written statement of their preparation in
French, German, and Latin. They must take the reading test in one of the
two required modern foreign languages (French and German) at the begin-
nning of the first term of residence, the test in the other not later than the
beginning of the third term of residence. For work in some fields a reading
knowledge of Latin will be necessary. (b) Candidates must complete English
200, Bibliography, at the first opportunity. For other course requirements,
consult the department.

3. The qualifying examination for advancement to candidacy will consist of
two parts: (a) English language—a six-hour written examination covering
the history, structure, and literary use of the English language from the be-
ginning to the present; this part of the examination should be taken at least
three terms before the date at which the student expects to receive the degree.
(b) English literature—a general examination, written and oral, covering Eng-
lis...
36A. Survey of English Literature, 1500 to 1700. (3) I, II. Mr. Rolfe in charge
36B. Survey of English Literature, 1700 to 1900. (3) I, II. Mr. Rolfe in charge
40. Introduction to English Literature. (3) I, II. Mr. Ewing, Miss Carhart
Open, without prerequisite, to all students except those who have credit for course 36A–36B.

UPPER DIVISION COURSES

Courses 1A–1B and 36A–36B are prerequisite to all upper division courses in English, except 190A–190B, for which only 1A–1B is prerequisite. Students who have not passed English 31 will be admitted to 106A, 106C, and 106F only upon a test given by the instructor.

A. The Junior Course: Course 117J. Required of juniors whose major or minor subject is English.

B. The Type Courses: Courses 114A–114B, 122A–122B, 125C–125D, and 125G–125H. It is understood that major students in English will take one of these courses.

C. The Age Courses: Courses 156, 157, 167, 177, and 187. It is understood that major students in English will take two of these courses.


E. The Senior Course: Course 151L. Required of seniors whose major subject is English.

106A. The Short Story. (2) I, II. Miss Carhart
106C. Critical Writing. (2) I, II. Mr. Downes, Mr. Hooker
106F. Exposition. (2) I, II. Miss Carhart, Mr. Rolfe

107. The Analysis and Writing of Propaganda and Information. (2) I, II. Mr. Thoma

110. Introduction to the English Language. (3) II. Mr. Matthews

111. The English Language in America. (3) I. Mr. Matthews

114A–114B. English Drama from the Beginning to the Present. (3–3) Yr. Miss Campbell, Miss Carhart

115. Primitive Literature. (3) II. Miss MacKenzie
The study of primitive types, such as the fable, folk tale, myth, legend, ballad, and hero tale, as to characteristics and theories of origin and diffusion. The comparative study of typical stories, and the work of collectors and adapters.

117J. Shakespeare. (3) I, II. Miss Campbell, Mr. Longueil, Mr. Buell
A survey of from twelve to fifteen plays, with special emphasis on one chronicle, one comedy, and one tragedy.

122A–122B. English Poetry from the Beginning to the Present. (3–3) Yr. Mr. Longueil

125C–125D. The English Novel from the Beginning to the Present. (3–3) Yr. Mr. Blanchard

* Not to be given, 1942–1948.
English

125G–125H. English Prose from the Beginning to the Present. (3–3) Yr. Mr. Ewing

130A–130B. American Literature. (2–2) Yr. Mr. Downes, Mr. Booth
A survey of American literature from the beginning to 1860, and from 1860 to the present day; a study of the chief American writers, with special reference to the development of literary movements and types.

131. American Literature: the Flourishing of New England. (3) I. Mr. Weeter, Mr. Booth
The study of such figures as Emerson, Hawthorne, Thoreau, Prescott, Longfellow, Lowell, and Holmes, with particular emphasis on the interaction between American and European literature and thought in the period.

132. American Literature: the Age of Exile. (3) II. Mr. Weeter, Mr. Ross
American world-wanderers and the American and European environment; the study of such figures as Melville, Bayard Taylor; Lafcadio Hearn and the Orient; Mark Twain, the traveler and critic; Stephen Crane; Henry Adams; Henry James; George Santayana; T. S. Eliot.

151L. Chaucer. (8) I, U. Mr. Hustvedt, Mr. Longueil, Mr. Matthews

153. Introduction to the Study of Poetry. (3) I, II. Mr. Longueil, Miss MacKénzie, Miss Carhart

*155. Literary Criticism. (3) I, II. Mr. Blanchard

156. The Age of Elizabeth. (3) I. Miss Campbell

157. The Age of Milton. (3) II. Mr. Hustvedt

167. The Age of Pope and Johnson. (3) I. Mr. Blanchard

177. The Romantic Age: 1784–1832. (3) I. Mr. Longueil

187. The Victorian Age: 1832–1892. (3) II. Mr. Rolfe

190A. Literature in English from 1900. (2) I. Mr. Ewing
Criticism; the novel; biography.

190B. Literature in English from 1900. (2) II. Mr. Ewing
Poetry; the drama; the essay.

*199. Special Studies in English. (3) I, II. Mr. Downes, Mr. Buell
Limited to seniors; may be taken only once for credit.

COMPREHENSIVE FINAL EXAMINATION

The Comprehensive Final Examination in the undergraduate major in English must be taken at the end of the senior year. It will consist of one two-hour paper and one three-hour paper. The examination will cover English literature from the beginning to 1900. The papers will be set by the examining committee of the department. The student's preparation for this examination will presumably extend throughout the entire college course.

This examination is not counted as part of the 24-unit major but is counted on the 36-unit upper division requirement and on the 120 units required for graduation. It does not affect study-list limits, and should at no time be entered by the student upon his study list. However, the student is advised to limit his program to 13 units during his last term. Upon his passing the examination the grade assigned by the department will be recorded. Given each term; credit, 3 units.

* Not to be given, 1942–1948.
English

Graduate Courses

200. Bibliography. (3) I. Mr. Wright

208. The Development of Modern English. (3) I. Mr. Matthews

209. History of the English Language. (3) I. Mr. Matthews

211A. Old English. (3) I. Mr. Matthews

211B. Beowulf. (3) II. Mr. Matthews

212. Middle English Literature. (3) II. Mr. Matthews

215. English Literature of the 17th Century. (3) II. Mr. Hustvedt

217A–217B. Shakespeare. (3–3) Yr. Miss Campbell

218. English Tragedy: 1550–1642. (3) I. Miss Campbell

219. English Comedy: 1550–1642. (3) II. Miss Campbell

225A–225B. The Ballad. (3–3) Yr. Mr. Hustvedt

226. Sir Walter Scott: The Ballads and Romances. (3) II. Mr. Hustvedt

227. Early English Metrical Romances. (3) I. Mr. Hustvedt

230A. American Literature to 1850. (3) I. Mr. Weeter

230B. American Literature from 1850. (3) II. Mr. Weeter

231. Marlowe. (3) II. Miss Campbell

235A. The English Novel: 1700–1750. (3) I. Miss Blanchard

235B. The English Novel: 1750–1800. (3) II. Mr. Blanchard

239. Milton. (3) II. Mr. Blanchard

242. Fielding. (3) I. Mr. Blanchard

243. Dryden and His Contemporaries. (3) I. Mr. Hooker

244. Pope and His Contemporaries. (3) II. Mr. Hooker

245. Spenser. (3) I. Miss Campbell

247. Phases of Neo-Classicism. (3) I. Mr. Hooker

248A–248B. English Literary Criticism. (3–3) Yr. Mr. Blanchard

250. The Theory of Fiction (1600–1700). (3) II. Mr. Blanchard

290. Special Problems. (1 to 6) I, II. The Staff

Professional Course in Method

370. The Teaching of English. (3) I, II. Miss MacKenzie

May be counted as part of the 18 units in education required for the secondary credential. Required of candidates for the General Secondary Credential in English.

* Not to be given, 1942–1948.
PUBLIC SPEAKING†

LOWER DIVISION COURSES

1A–1B. Elements of Public Speaking. (3–3) Beginning each term.
   Mr. Karr, Mr. Lewis, Mr. Murray, Mr. Vandraegen

2A–2B. The Fundamentals of Expression and Interpretation. (3–3) Begin-
   ning each term.
   Mrs. Hunnewell, Mr. Freud

5A–5B. Principles of Argumentation. (3–3) Yr.
   Mr. Lewis
   Prerequisite: course 1A–1B and the consent of the instructor.

UPPER DIVISION COURSES

110A. Third-Year Public Speaking. (3) I.
   Mr. Lewis
   Prerequisite: course 5A–5B.
   Oral argumentation and debate; preparation of briefs; presentation of
   arguments.

110B. Third-Year Public Speaking. (3) II.
   Mr. Lewis
   Prerequisite: course 110A and the consent of the instructor.
   Practice in extemporary speaking; preparation of the occasional address.

111C–111D. Literary Interpretation. (3–3) Yr.
   Mrs. Hunnewell
   Prerequisite: course 2A–2B.
   The dramatization of one novel, the oral reading and classroom presenta-
   tion of selected one-act plays, and the study and abridgment of one three-act
   play in relation to public reading technique.

122. Diction and Voice. (3) I, II.
   Mr. Karr
   Prerequisite: courses 1A and 2A or the equivalent.

155A–155B. Play Production. (3–3) Yr.
   Mr. Freud

156. Play Directing. (3) I, II.
   Mr. Freud
   Study and practice in the direction of plays and group activities of a
dramatic nature.

165. Phonetics and American Pronunciation. (3) II.
   May be applied toward the English major. Recommended for graduate
   students.

170. Introduction to Oratory. (3) II.

190A–190B. Forensics. (1–1) Yr.
   Mr. Lewis
   Prerequisite: the consent of the instructor.

† The University of California at Los Angeles does not offer a major in public speaking.
Students wishing to satisfy the requirement for a major in public speaking are referred
to the GENERAL CATALOGUE of the Departments at Berkeley.

* Not to be given, 1942–1943.
FOREIGN LANGUAGE GROUP

GUSTAVE OTTO ARLT, Ph.D., Professor of German (Chairman of the Group).

This group is composed of the departments of Classics, French, Germanic Languages, and Spanish and Italian, and has been organized for the purpose of unifying and coordinating the activities in these fields. Although no attempt is made to curtail the free development of each department, the special committee in charge of the Foreign Language Group endeavors to articulate, for their mutual benefit, the courses and research work of the four departments concerned.

The announcements of the departments comprising this group appear in their alphabetical order.

GENERAL PHILOLOGY AND LINGUISTICS

UPPER DIVISION COURSES

150. Introduction to General Language. (1) I. Mrs. Woodworth
Prerequisite: two years of Latin, or two years each of two other foreign languages.

The interrelation of ancient and modern languages, especially those of common Indo-European origin.

*170. Introduction to Linguistics. (3) II. Mr. Hoijer
Open to students with majors in English or the foreign languages.

An introduction to the fundamentals of general and historical linguistics, including phonetics; linguistic elements; grammatical categories; linguistic change; dialect geography; language, race, and culture.

171. Introduction to Phonetics. (3) II. Mr. Hoijer

The speech sound and the phoneme; phonetic transcription; types of phonemes; phonetic forms; practice in recording English and other languages phonetically.

*195. Introduction to Indo-European Linguistics. (3) I. Mrs. Woodworth

JAPANESE

LOWER DIVISION COURSES

4. Basic Oral Japanese. (3) I, II.

5A. Intermediate Japanese. (3) I, II.

Courses 4 and 5A may be taken in the same term.

5B. Advanced Japanese. (3) I, II.

ROMANCE LANGUAGES AND LITERATURES

GRADUATE COURSES

201A–201B. Historical Grammar and Methodology of Romanic Linguistics. (2–2) Yr. Mr. Nitze

A knowledge of Latin is indispensable.

*203A–203B. Old Provençal: Reading of Texts. (2–2) Yr. Mr. Templin

*255. Romance Versification. (2) I. Mr. Bailiff

*255. Methodology of Romance Phonetics: Seminar. (2) II. Mr. Zeitlin

* Not to be given, 1942–1943.
French

FRENCH

WILLIAM A. NITZE, Ph.D., L.H.D., Professor of French.
P. PAUL PÉRIGORD, Ph.D., Professor of French Civilization.
MYRON IRVING BARKER, Ph.D., Associate Professor of French.
FRANCIS J. CROWLEY, Ph.D., Associate Professor of French.
ALEXANDER GREEN FITZ, Ph.D., Associate Professor of French.
MARIUS IGNACE BIENCOURT, Docteur de l'Université de Paris, Assistant Professor of French.
CLINTON C. HUMISTON, Ph.D., Assistant Professor of French (Chairman of the Department).
*L. GARDNER MILLER, Docteur de l'Université de Strasbourg, Assistant Professor of French.
HORACE S. CRAIG, Ph.D., Instructor in French.
PAUL BONNET, Lic. ès Lettres, Associate in French.
ALICE HUBARD, M.A., Associate in French.
MADELEINE LETESSIER, A.B., Associate in French.

*Absent on leave, 1942-1943.

Letters and Science List.—All undergraduate courses in French are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—French 1, 2, 3A, 3B, 42A-42B, or their equivalents. Two years of high school Latin, or Latin A and B, or the equivalent, must be completed before the beginning of the senior year. History 4A-4B, Philosophy 3A-3B, and a modern language are strongly recommended.

The Major.—Required: 24 units of upper division French, including courses 101A-101B, 109A-109B, 112A-112B. Any of the remaining upper division courses except 109M-109N may be applied on the major. With the permission of the department 4 units of the 24 may be satisfied by appropriate upper division courses in English, German, Greek, Latin, Spanish, Italian, or Philosophy.

Students with majors in French will also be required to take a comprehensive examination covering history, geography, literature, and other general information concerning France. Two units credit toward the major will be given for satisfactory record in this examination which will be given on the second Friday in January and on the second Friday in May.

Lower Division Courses

The ordinary prerequisites for each of the lower division courses are listed under the description of these courses. Students who have had special advantages in preparation may, upon examination, be permitted a more advanced program; or, such students may be transferred to a more advanced course by recommendation of the instructor.

1. Elementary French. (5) I, II. Miss Letessier in charge
1A–1B. Elementary French. (3–3) Yr. Miss Letessier in charge

This course covers in two terms the same material as course 1. Students completing 1A–1B are eligible for entrance into course 2.
1G. Reading Course for Graduate Students. (No credit) I.
Three hours a week.

2. Elementary French. (5) I, II. Miss Letessier in charge
Prerequisite: course 1 or two years of high school French.

3. Intermediate French. (5) I, II. Mr. Craig in charge
Prerequisite: course 2 or three years of high school French.

3A. Intermediate French. (3) I, II. Mr. Craig in charge
Prerequisite: course 2 or three years of high school French.

3B. Intermediate French. (3) I, II. Mr. Craig in charge
Prerequisite: course 3A or four years of high school French.

8A–8B. French Conversation. (1–1) Beginning each term.
Miss Letessier in charge
The class meets two hours weekly. Open to students who have completed course 2 or its equivalent with grade A or B.

15. Modern Technical and Military French. (3) I, II. Mr. Craig
Prerequisite: course 3A or the equivalent.
Reading and translation of modern French technical and military texts to assist students to understand and interpret correctly French war books.

25. Advanced French. (5) II. Miss Letessier
Prerequisite: course 3B.

25A–25B. Advanced French. (3–3) Yr. Mr. Craig
Prerequisite: course 3B.

42A–42B. French Civilization. (2–2) Yr. Mr. Périgord
Presentation of the larger cultural elements in European history as caused, influenced, diffused, or interpreted by the French people. Lectures in English, reading in French or English.

UPPER DIVISION COURSES

The prerequisite to all upper division courses except 109M and 109N is 16 units in the lower division, including course 3B with a grade A or B, or 25A–25B (or 25).

Courses 101A–101B, 109A and 109B are ordinarily prerequisite to other upper division courses.

All upper division courses, with the exception of 109M and 109N, are conducted mainly in French.

Mr. Barker, Mr. Biencourt, Mr. Crowley

109A. Survey of French Literature and Culture. (3) I. Mr. Périgord
Limited to major students in French. Not open to students who have taken or are taking courses 109M, 109N.
The Middle Ages, the Renaissance, and the seventeenth century.

109B. Survey of French Literature and Culture. (3) II. Mr. Périgord
Prerequisite: course 109A.
The eighteenth, nineteenth, and twentieth centuries.
French

109M. A Survey of French Literature and Culture. (3) I. Mr. Humiston
Given in English; does not count on the major in French. Not open to
students who have taken or taking courses 109A–109B.
The Middle Ages, the Renaissance, and the seventeenth century.

109N. A Survey of French Literature and Culture. (3) II. Mr. Humiston
Prerequisite: course 109M.
The eighteenth, nineteenth, and twentieth centuries.

112A. The Nineteenth Century. (2) I. Mr. Périgord
Prerequisite: courses 101A–101B, 109A, and 109B.
From 1789 to 1830.

112B. The Nineteenth Century. (2) II. Mr. Périgord
Prerequisite: course 112A.
From 1830 to 1885.

*114A–114B. Contemporary French Literature from 1885 to the Present: (2–2) Yr. Mr. Fite
*115A–115B. Modern French Drama. (2–2) Yr. Mr. Fite
118A–118B. The Sixteenth Century. (2–2) Yr. Mr. Humiston
120A–120B. The Seventeenth Century. (2–2) Yr. Mr. Nitze
*121A–121B. The Eighteenth Century. (2–2) Yr. Mr. Crowley
*126. Modern French-Canadian Literature. (2) II. Mr. Périgord
Prerequisite: 16 units of lower division French, or the equivalent.

130A–130B. Grammar, Composition, and Style. (3–3) Yr. Mr. Fite
Prerequisite: an average grade higher than C in French courses. This
course is required of all candidates for the certificate of completion of the
teacher-training curriculum, or for the degree of Master of Arts.
Practice in oral and written composition based on selected models.

*199A–199B. Special Studies in French. (2–2) Yr. Mr. Périgord, Mr. Barker, Mr. Biencourt
Prerequisite: senior standing and at least 12 units of upper division
French.

Graduate Courses

*204A–204B. Voltaire and His Age. (2–2) Yr. Mr. Crowley
206A–206B. Reading and Interpretation of Old French Texts. (2–2) Yr. Mr. Nitze
*214A–214B. French Versification. (2–2) Yr. Mr. Biencourt
219A. The Origins of Romanticism; Its Development to 1824. (3) I. Mr. Barker
219B. Romantic Prose After 1824. (2) II. Mr. Barker
*219C. Romantic Drama After 1824. (2) I. Mr. Barker

* Not to be given, 1942–1943.
French

*219D. Romantic Poetry After 1824. (2) II.
Mr. Barker

*230A–230B. La Critique Littéraire en France au XIXe Siècle; les Points de Vue et les Hommes. (2–2) II.

*231A–231B. Études Littéraires en France au XIXe Siècle. (2–2) Yr.

*251A–251B. Seminar in Problems and Methods of Comparative Literature. (2–2) Yr.
Given in English.

*257A–257B. Seminar in the French Renaissance. (2–2) Yr. Mr. Humiston

290. Research in French. (1 to 6) I, II.
The Staff

298A–298B. Special Studies in Literary Criticism. (2–2) Yr. Mr. Fite

Professional Course in Method

*370. The Teaching of French. (3) I.
Mr. Crowley
Prerequisite: courses 101A–101B and 109A–109B, the latter being permitted concurrently.

Related Courses (See page 181)

Romance Languages and Literatures 201A–201B. Historical Grammar and Methodology of Romance Linguistics. (2–2) Yr. Mr. Nitze

*Romance Languages and Literatures 203A–203B. Old Provençal: Reading of Texts. (2–2) Yr.
Mr. Templin

*Romance Languages and Literatures 235. Romance Versification. (2) I.
Mr. Bailiff

*Romance Languages and Literatures 252. Methodology of Romance Phonetics: Seminar. (2) II.
Mr. Zeitlin

* Not to be given, 1942–1943.
GEOGRAPHY

GEORGE McCUTCHEB MOBRIDE, Ph.D., Professor of Geography.
ROBERT M. GLENDINNING, Ph.D., Associate Professor of Geography.
BURTON M. VARNEY, Ph.D., Associate Professor of Geography.
CLIFFORD M. ZIEBER, Ph.D., Associate Professor of Geography (Chairman of the Department).
RUTH EMILY BAUGH, Ph.D., Assistant Professor of Geography.
MYRTE LISLE McCLELLAN, B.S., Assistant Professor of Geography, Emeritus.
*JOSEPH E. SPENCER, Ph.D., Assistant Professor of Geography.

Letters and Science List.—All undergraduate courses in geography are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: Geography 1A-1B, 3, and 5B; Geology 5 or its equivalent; English 1A. Recommended: Anthropology 1A-1B, Botany 1A, 36, Economics 1A-1B, Geology 3, one year of history, Physics 1A-1B, Political Science 3A-3B, and at least one modern foreign language, preferably French or German.

The Major.—The minimum requirement is 24 units of upper division work in geography, including courses 101, 105, 113, 115, and two of the following: 121, 122A, 122B, 123A, 123B, 124A, 124B, 125, 131, plus 6 units in courses in other departments. A list of courses approved for this purpose may be secured from the departmental adviser for geography majors.

LOWER DIVISION COURSES

1A-1B. Elements of Geography. (3-3) Beginning each term.

Mr. Glendinning

One or two field trips may be required in 1B, for which an expenditure of $2 may be necessary. Not open for full credit to students who have credit for course 5A. Students who have had course 5A-5B will receive only half credit for 1A-1B.

A study of the elements of geography, followed by a study of the major geographic realms from the standpoint of their distribution and nature.

3. Introduction to Climate and Weather. (3) I, II. Mr. Varney

A survey of the earth's atmospheric phenomena, with special reference to the causes and regional distribution of climate and weather.

3C. Introduction to Climate and Weather: Laboratory. (1) I, II.

Prerequisite or concurrent: course 3. Mr. Varney

5A. Economic Geography. (3) I, II.

Limited to prospective majors in economics and business administration. Not open to students who have credit for course 1A-1B. Students who have credit for course 1A or 1B will receive only 1½ units of credit for course 5A.

A brief study of those elements of the natural environment essential to the geographic interpretation of economic activities, and a regional survey of the world's agricultural productions.

* In residence spring term only, 1942-1943.
* Absent on leave, 1942-1948.
5B. Economic Geography. (3) I, II.
Prerequisite: course 5A or 1A-1B.
The principles of economic geography as developed through studies both of representative regions and the growth of modern trade and industry.

**Upper Division Courses**

100. Principles of Geography. (3) I, II. Miss Baugh
Prerequisite: senior standing, or candidacy for a teaching credential. Not open to those who have credit for course 1A-1B or 5A-5B; may not be counted on the major in geography.
A brief survey of the fundamental factors of physical environment as they affect life on the earth and the activities of man.

101. Fundamentals of Geographic Field Work. (3) II. Saturdays. Prerequisite: course 1A-1B or 5A-5B, and the consent of the instructor. To be taken by major students normally in the junior year.
Selected field studies in the Los Angeles area. The course affords training in field mapping of rural and urban types and in techniques of area analysis.

105. Cartography. (3) I. Mr. Glendinning
Prerequisite: course 1A-1B, or 5A-5B, or 100, and the consent of the instructor.
Practical map drawing, map interpretation, and graphic representation of geographic data.

108. The Geographic Basis of Human Society. (3) I. Miss Baugh
Prerequisite: course 1A-1B, or 5A-5B, or 100.
The geographic element in the evolution of primitive cultures and of advanced civilizations. A study of various types of physical habitat in relation to social organization and institutions, together with the corresponding human culture.

111. The Conservation of Natural Resources. (3) I. Mr. Zierer
The general principles of conservation. Studies of selected areas and topics from various parts of the world.

113. General Climatology. (3) I, II. Mr. Varney
Prerequisite: course 1A-1B or 5A-5B, or 100; 3 is especially desirable. To be taken by major students normally in the junior year.
A study of the causes of climatic phenomena and of the larger features which characterize the climates of the earth.

114C. Regional Climatology: Western Hemisphere. (3) I. Mr. Varney
Prerequisite: course 113.
The continental, littoral, marine, and insular climates of the hemisphere, with special reference to their causes.

114D. Regional Climatology: Eastern Hemisphere. (3) II. Mr. Varney
Prerequisite: course 113.
The continental, littoral, marine, and insular climates of the hemisphere, with special reference to their causes.
115. **Physical Bases of Geography. (3) I.**
Mr. Glendinning
Prerequisite: course 1A–1B or 5A–5B. One or two field trips may be required. To be taken by major students in the junior year; by others in either the junior or senior year.

A study of the basic physical factors existing in each of the major geographic realms, with special emphasis on the interrelationships of land forms, soils, drainage, and natural vegetation.

117. **Geographical Aspects of Land Planning. (3) II.**
Mr. Glendinning
Prerequisite: course 1A–1B or 5A–5B, and the consent of the instructor.
Normally limited to ten students.

A study of the role of the geographic discipline in land planning activities.

121. **The Geography of Anglo-America. (3) I.**
Mr. Zierer
Prerequisite: course 1A–1B or 5A–5B, or 100.

Delimitation and analysis of the principal economic geographic divisions of the United States, Canada, and Alaska.

122A. **The Geography of Latin America. (3) I.**

Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of the physical conditions characterizing the countries of South America, particularly in relation to the life of the inhabitants.

122B. **The Geography of Latin America. (3) II.**

Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of the physical conditions characterizing Mexico, Central America, and the West Indies, particularly in relation to the life of the inhabitants.

123A. **The Geography of Europe. (3) I.**
Miss Baugh
Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of geographic conditions and their relation to economic, social, and political problems in the Atlantic states of Europe.

123B. **The Geography of Europe. (3) II.**
Miss Baugh
Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of geographic conditions and their relation to economic, social, and political problems in eastern and southern Europe.

124A. **The Geography of Asia. (3) I.**

Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of the geographic and cultural factors important to an understanding of the economic, social, and political geography of southwestern Asia, India, and the East Indies during historic and modern times.

124B. **The Geography of Asia. (3) II.**

Prerequisite: course 1A–1B or 5A–5B, or 100.

A study of the geographic and cultural factors important to an understanding of the economic, social, and political geography of the Far East, particularly China and Japan, during historic and modern times.

* Not to be given, 1942–1948.
125. The Geography of Australia and Oceania. (3) II. Mr. Zierer
Prerequisite: course 1A–1B or 5A–5B, or 100.
A regional synthesis of the physical and human features which characterize Australia and New Zealand, Hawaii and the islands of the South Pacific.

131. The Geography of California. (3) II. Miss Baugh
Prerequisite: course 1A–1B or 5A–5B, or 100. A two-day field trip is taken.
An analysis of geographic conditions in the seven major provinces of California. Utilization of resources, routes of communication, location of settlements and distribution of population in their geographical and historical aspects.

155. Urban Geography. (3) II. Mr. Zierer
Prerequisite: course 1A–1B or 5A–5B, or 100.
A study of cities from the viewpoint of location, form, and functional evolution. The physical and economic phases are emphasized.

171A. The Geographic Setting of American History. (3) I. Mr. McBride
Prerequisite: course 1A–1B or 5A–5B, or 100 and a university course in American history.
A study of the relation of the physical environment to the historical development of the peoples inhabiting Anglo-America.

171B. The Geographic Setting of American History. (3) II. Mr. McBride
Prerequisite: course 1A–1B or 5A–5B, or 100 and a university course in American history.
A study of the relation of the physical environment to the historical development of the peoples inhabiting Latin America.

173. The Historical Geography of the Mediterranean Region. (3) II. Miss Baugh
Prerequisite: course 1A–1B or 5A–5B, or 100.
A study of the geographic factors operative in the Mediterranean lands, particularly their influence on ancient history and on modern political problems.

181. Current Problems in Political Geography. (3) I, II. Mr. McBride
Consideration of the geographical basis of selected problems in domestic and international affairs, with stress upon the geographic principles involved.

199. Problems in Geography. (3) I, II. The Staff
Open to seniors and graduate students who have the necessary preparation for undertaking semi-independent study of a problem. Registration only after conference with the instructor in whose field the problem lies.

GRADUATE COURSES†
250. The Growth of Geographic Thought: Seminar. (3) II. Mr. Zierer

* Not to be given, 1942–1948.
† Requirements for the master’s degree in geography may be met by either Plan I or Plan II.
Plan I, required of those preparing for advanced professional positions, must include three of the following seminars: 250; 256 or 257 or 259; 261 or 262; 275, and a thesis.
Plan II, required (unless the student elects Plan I) of those preparing for positions below the junior college level, must include three of the following seminars: 250; 256 or 257 or 259; 261 or 262; 275, and a comprehensive examination.
256. Seminar in Anglo-American Geography. (3) I. Mr. Zierer
257. Seminar in Latin-American Geography. (3) II. Mr. McBride
258. Seminar in California Geography. (3) I. Miss Baugh
   For 1942–1943: The coastal region in southern California.
259. Seminar in the Geography of Australia and Oceania. (3) I. Mr. Zierer
261. Seminar in Climatology. (3) I. Mr. Varney
   For 1942–1943: The western United States.
262. Land Forms and Their Geographic Significance: Seminar. (3) II. Mr. Glendinning
275. Advanced Field Problems in Local Geography. (3) I, II. Mr. Glendinning, Mr. Zierer
290. Research in Geography. (3 or 6) I, II.
   Miss Baugh, Mr. Glendinning, Mr. McBride, Mr. Varney, Mr. Zierer
   Investigation subsequent to, and growing out of, any of the above seminars.

**Professional Course in Method**

270. The Teaching of Geography. (3) II.
   Limited to twenty students, registration to be made only after consultation with the instructor. This course may be counted on the unit requirement in education for the general secondary teaching credential.
   The fundamental purposes of geography as an instrument of instruction; changing points of view; the basic principles; the various methods of presentation; the use of materials in the presentation of the subject.

*Not to be given, 1942–1943.*
Preparation for the Major.—Geology 5, 3; Mineralogy 3A–3B; Chemistry 1A–1B; Physics 2A–2B; Mechanical Engineering D or equivalent; Mathematics 8, and CF or 3A; Civil Engineering I1A–I1B, IFA–IFB (geology section). Recommended: English 1A–1B; a reading knowledge of German and French is essential for advanced work. Certain lower division requirements may be postponed to the upper division by permission of the department.

The Major.—A minimum of 25 units of upper division courses, including Geology 102A–102B, 103, 107, 116, and 118 or 199 (4 units); Paleontology 111A–111B. Mathematics 3A–3B is also required. The department will certify to the completion of a major program for graduation only on the basis of at least C grades in Geology 102B and 103.

Students whose major interests lie in the fields of mineralogy, petrology, petrography, economic geology, petroleum geology, stratigraphic geology, or geomorphology and who expect to continue work for the master's degree should complete also Mathematics 4A in their undergraduate program, since this is required for the higher degree. Mathematics 4B (or 109), 119, Physics 105, and Chemistry 109A–109B, 120 are also recommended for students in the fields named above.

Students whose major interests lie in the fields of paleontology or historical geology and who expect to continue work for the master's degree should complete Zoology 1, 2, and 112 in their undergraduate program since these are required for the higher degree. Zoology 104 is also recommended for such students.

Oral and written proof of ability to use the English language adequately and correctly must be furnished to the department. Each program for a major is to be made out in accordance with some definite plan approved by the department.

Laboratory Fees.—Geology 118, $35; Mineralogy 3A, 3B, $2.50.
2L. **General Geology: Laboratory.** (1) I, II. Mrs. Webb

Prerequisite: course 2 (may not be taken concurrently). Open only to students who have completed course 2 or 1A offered in previous years and who have credit for course 5 or its equivalent; the consent of the instructor is required.

Laboratory practice in physical geology.

3. **General Geology: Historical.** (3) I, II. Mr. Miller

Prerequisite: course 2 or 5.

A study of the geological history of the earth and its inhabitants, with special reference to North America.

5. **General Geology: Dynamical and Structural.** (4) I, II. Mr. Murdoch, Mr. Webb

Lectures, three hours; laboratory, three hours. Field trips will be taken in laboratory time. Prerequisite: elementary chemistry. Not open to students who have taken or are taking course 2 or who have credit for course 1A.

A study of the materials and structures of the earth and the processes and agencies by which the earth has been and is being changed.

25. **Interpretation of Airplane Photographs and Maps.** (1) I, II. Mr. Putnam

Prerequisite: the consent of the instructor.

Interpretation of various types of topographic maps and airplane photographs with practical applications in the field.

26. **Topographic Sketch Mapping.** (1) II. Mr. Gilluly

Prerequisite: course 25 or the equivalent.

Preparation of reconnaissance topographic maps. Field surveys by approximate methods; traverses and the use of the sketching board.

**Upper Division Courses**

102A. **Field Geology.** (3) I, II. Saturdays. Mr. Bramlette, Mr. Putnam

Prerequisite: courses 3, 103 (may be taken concurrently), Civil Engineering 11A, 1FA, 1LB, 1FB (geology sections). Credit toward the major is given only to students who take both 102A and 102B.

Introduction to field geology. Theory and practice of geologic mapping, and practice in the observation and interpretation of geologic phenomena, entailing weekly field trips into the nearby hills, and occasional longer excursions to points of special interest in a region remarkably rich in geologic features.

102B. **Field Geology.** (3) I, II. Saturdays. Mr. Putnam

Prerequisite: courses 102A, 103 (with a grade C or higher).

A continuation of course 102A.

103. **Introduction to Petrology.** (4) I. Mr. Durrell

Lectures, two hours; laboratory, six hours. Prerequisite: course 5, Mineralogy 3A–3B, and Chemistry 1B (may be taken concurrently).

The general characteristics, origins, mode of occurrence and nomenclature of rocks, and description of the more common types, accompanied by determinative laboratory practice.
106. Economic Geology: Metalliferous Deposits. (3) II. Mr. Soper
Prerequisite: courses 3 and 103.
A systematic study of ore occurrences, and of the genetic processes and structural factors involved.

107. Physical Geology of North America. (2) I, II. Mr. Miller
Prerequisite: course 3.
A course in advanced general geology with special reference to a regional study of North America.

108. General Economic Geology. (3) I. Mr. Soper
Prerequisite: course 3.
Geologic occurrence and geographic distribution of the important minerals; special attention is given to strategic war minerals.

111. Petroleum Geology. (3) I, II. Mr. Soper
Lectures, map work, problems, and field trips to nearby oil fields. Prerequisite: courses 102A, 116.
Geology applied to exploration for petroleum; the geology of the principal oil fields of the world with emphasis upon United States fields; and field methods in oil explorations.

116. Structural Geology. (3) II. Mr. Gilluly
Lectures, two hours; laboratory, three hours. Prerequisite: courses 102A and 103. A working knowledge of descriptive geometry is desirable.
The phenomena of fracture, folding, flow, and the graphic solution of problems.

117. Geomorphology. (3) II. Mr. Putnam
Lectures, two hours; conference, one hour; one or two field trips may be required. Prerequisite: course 3.
The principles of geomorphology; application to the study of selected regions; map work, reports, and outside readings.

118. Summer Field Course. (4) The Staff (Mr. Putnam in charge)
Six weeks, beginning about June 10 of each year. Fee, $35; camp and commissary deposit, $65. Prerequisite: course 102B with a grade of at least C. With the approval of the instructor, this work may be taken for credit during two or more summers, under the designation Geology 118; however, not more than 4 units of credit so gained will be accepted as a part of the undergraduate major.
The chief aim of the course is to develop in the student (1) facility and accuracy in detailed geological mapping and cartography; (2) ability to observe independently and to interpret various types of rocks, structures, physiographic features, and other geological phenomena; and (3) the capacity to execute independently a general geologic survey of a region, determine its history, and prepare a suitable report concerning it. Satisfactory completion of this course satisfies the undergraduate thesis requirements for students whose major is geology.

199. Problems in Geology. (1 to 4) I, II. The Staff (Mr. Webb in charge)
Open only to seniors who are making geology their major study. Reports and discussions.
Geology

GRADUATE COURSES

214A-214B. Advanced Petrographic Laboratory. (2–5; 2–5) Yr.
Prerequisite: Mineralogy 109B. Mr. Gilluly
Igneous rocks.

*215A-215B. Advanced Petrographic Laboratory. (2–5; 2–5) Yr.
Prerequisite: Mineralogy 109B. Mr. Gilluly
Metamorphic rocks.

236. Physical Geology of California. (3) I. Mr. Miller

237. Paleontology and Stratigraphy of California. (3) II. Mr. Grant

251. Seminar in Petrology. (3) II.
Advanced study of igneous and metamorphic rocks with emphasis on petrogenesis.

252. Seminar in Geomorphology. (3) I.
Emphasis on general principles and regional studies. Mr. Putnam

258. Seminar in Stratigraphy. (3) I. Mr. Bramlette

260A-260B. Seminar in Structural Geology. (3–3) Yr. Mr. Gilluly
The second term of this course may be taken without the first.

263. Seminar in Economic Geology. (3) I. Mr. Soper

299. Research in Geology. (1 to 6) I, II. The Staff (Mr. Gilluly in charge)

MINERALOGY

LOWER DIVISION COURSE

3A–3B. Introduction to Mineralogy. (3–3) Yr. Mr. Murdoch, Mr. Webb
Lecture, one hour; laboratory, six hours; discussion, one hour (3A only).
Prerequisite: elementary chemistry and physics; Geology 5 (may be taken concurrently with 3A); or the consent of the instructor. Fee, $2.50 a term.

Crystal morphology and projection, determination of minerals by their physical and chemical properties, and descriptive mineralogy.

UPPER DIVISON COURSES

101. Paragenesis of Minerals. (2) II. Mr. Murdoch
Prerequisite: course 3A–3B, Chemistry 1A–1B.

109A. Optical Mineralogy and Petrography. (3) I. Mr. Durrell
Laboratory, six hours. Prerequisite: course 3B; Geology 103 (which may be taken concurrently).

Study of the optical properties of minerals; mineral recognition under the microscope. The study and description of rocks, and their microscopic characters.

109B. Optical Mineralogy and Petrography. (4) II. Mr. Durrell
Lecture, one hour; laboratory, nine hours. Prerequisite: course 109A.
A continuation of course 109A.

* Not to be given, 1942–1943.
110. Mineral Grain Analysis. (3) II. Mr. Bramlette
Lecture, one hour; laboratory, six hours. Prerequisite: courses 109A, 109B (may be taken concurrently).
Methods in identification of minerals in grains; special emphasis on the clastic rocks, including mechanical analysis and immersion methods.

GRADUATE COURSES

281. Problems in Mineralogy. (2 to 4) I. Mr. Murdoch
282. Problems in Goniometry. (2 to 4) II. Mr. Murdoch

PALEONTOLOGY†

UPPER DIVISION COURSES

111A–111B. Systematic Paleontology. (3–3) Yr. Mr. Grant
Lectures, two hours; laboratory, three hours. Prerequisite: Geology 3 or Paleontology 1.
A general introduction to the study of invertebrate fossils.

114. Micropaleontology. (3) I. Mr. Bramlette
Lecture, one hour; laboratory, six hours. Prerequisite: Paleontology 111A–111B and Geology 102A, 102B.
A study of the microscopic fossils with special reference to age determination and correlation of strata in application to oil-field problems.

150. Advanced Micropaleontology. (3) II. Mr. Bramlette
Lecture, one hour; laboratory, six hours. Prerequisite: course 114.

GRADUATE COURSES

215. Systematic Conchology and Echinology. (3) I. Mr. Grant
Lecture, one hour; laboratory, six hours. Prerequisite: course 111A–111B, Geology 3.
An introduction to the classification and identification of the western American marine Cenozoic mollusca and echinoida.

266. Seminar in Micropaleontology. (3) II. Mr. Bramlette
Prerequisite: course 114.

† Courses in vertebrate paleontology may be found under the announcement of the Department of Zoology (p. 284).
* Not to be given, 1942–1948.
GERMANIC LANGUAGES

GUSTAVE OTTO ARLT, Ph.D., Professor of German (Chairman of the Department).

ALFRED KARL DOLCH, Ph.D., Associate Professor of German.

FRANK HERMAN REINSCH, Ph.D., Associate Professor of German.

WAYLAND D. HAND, Ph.D., Assistant Professor of German.

WILLIAM J. MULLOY, Ph.D., Assistant Professor of German.

ERIK WAHLBRENNER, Ph.D., Assistant Professor of German and Scandinavian.

VERN W. ROBINSON, Ph.D., Instructor in German.

CARL W. HAGG, M.A., Associate in German.

CHRISTEL B. SCHOMAKER, M.A., Associate in German.

BART J. VOSS, Ph.D., Research Associate in German.

Letters and Science List.—All undergraduate courses in German and Scandinavian Languages are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: courses 1, 2, 3 (3A, 3K), 6, and 7 or their equivalents. Recommended: History 4A–4B, English 1A–1B, Philosophy 3A–3B.

The Major in German.—Twenty-four units in upper division courses, of which 10 units must be in junior courses, including 106A, 106B, and either 109A or 109B; the balance must be made up from senior courses, including 117, 118A, and 118B. Students looking forward to the secondary credential should take also 106C–106D. Students desiring a purely literary or philological major, not looking toward secondary teaching, should consult the departmental adviser regarding permissible substitutions of courses. A comprehensive final examination is required at the end of the senior year.

* The Comprehensive Final Examination.—The comprehensive final examination in the undergraduate major in German must be taken at the end of the senior year. This examination will cover German literature from the beginnings to the present and will be divided into two sections of three hours each. In order to insure adequate preparation a program of tutorial aid is offered the student. A reading list is provided for which the student will be held responsible. Through conferences with individual candidates the staff of the department will provide assistance in the interpretation of works read outside of courses. This examination is not counted as part of the 24-unit major but is counted on the 30-unit upper division requirement and on the 120 units required for graduation, and the grade assigned by the department will be recorded for the student. The examination is given each term and carries 3 units of credit.

Requirements for Admission to Graduate Courses.

A candidate for admission to graduate courses in Germanic languages and literatures must meet, in addition to the general University requirements, the

1 In residence fall term only, 1942–1943.

* During the present period of emergency the comprehensive final examination will not be required, but is optional with the student.
minimum requirements for an undergraduate major in this department. If the
candidate is deficient in this prerequisite he must fulfill it by undergraduate
work which is not counted toward his graduate residence.

Requirements for Advancement to Candidacy.
1. A reading knowledge of French.
2. A satisfactory reading and speaking knowledge of German.
3. A preliminary comprehensive examination in German literature, language,
and history.

Requirements for the Master's Degree.
For the general requirements, see page 106. The Department of Germanic
Languages favors the Comprehensive Examination Plan.

Requirements for the Ph.D. Degree.
For the general requirements, see page 109. For specific departmental re-
quirements see the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN
SECTION.

GERMAN

LOWER DIVISION COURSES

The ordinary prerequisites for each of the lower division courses are listed
under the description of these courses. Students who have had special advan-
tages in preparation may, upon examination, be permitted a more advanced
program; or such students may be transferred to a more advanced course by
recommendation of the instructor.

1. Elementary German. (5) I, II. Mr. Robinson in charge
   This course corresponds to the first two years of high school German.
1A. Elementary German. (3) I, II. Mr. Robinson in charge
   This course corresponds to the first year of high school German.
1B. Elementary German. (3) I. Mr. Robinson in charge
   This course corresponds to the second year of high school German.
1G. Elementary German for Graduate Students. (No credit.) I. Mr. Hand
   Five hours a week.

2. Elementary German. (5) I, II. Mr. Robinson in charge
   Prerequisite: course 1, or courses 1A and 1B, or two years of high school
   German.

3. Intermediate German. (5) II. Mr. Mulloy in charge
   Prerequisite: course 2 or three years of high school German.
3A. Intermediate German. (3) I, II. Mr. Mulloy in charge
   Prerequisite: course 2 or three years of high school German.
   Readings in literary German.
3C. Intermediate German. (3) I. Mr. Hagge
   Prerequisite: course 2 or three years of high school German.
   Readings in philosophic and historical German.
3D. Intermediate German. (3) II. Mr. Hagge
   Prerequisite: course 2 or three years of high school German.
   Readings in the social sciences.
Germanic Languages

3E. Intermediate German. (3) I.  
Prerequisite: course 2 or three years of high school German.  
Readings in the biological sciences.  
Mr. Hand

3F. Intermediate German. (3) II.  
Prerequisite: course 2 or three years of high school German.  
Readings in the physical sciences.  
Mr. Robinson

3G. Intermediate German. (3) I, II.  
Prerequisite: course 2 or three years of high school German.  
Readings in military and aeronautical German.  
Mr. Robinson

3K. Intermediate German. (3) I, II.  
Prerequisite: Any one of courses 3A, 3C, 3D, 3E, 3F, or 3G, or four years of high school German.  
Advanced readings in literary German.  
Mr. Mulloy in charge

6. Review of Grammar, Composition, and Conversation. (2) I, II.  
Prerequisite: course 2 or three years of high school German.  
Mr. Dolch in charge

7. Rapid Readings in Nineteenth Century Literature. (2) I, II.  
Prerequisite: course 3B or the equivalent.  
Mr. Reinsch

25A–25B. Readings in German Cultural History. (3–3) Yr.  
Prerequisite: course 3B or the consent of the instructor.  
Mr. Schomaker

UPPER DIVISION COURSES

The prerequisite for all upper division courses is course 3 (or 3K) or the equivalent. Major students are also required to take course 6.

104A–104B. Readings in the Drama of the Nineteenth Century. (3–3) Yr.  
Selected readings from nineteenth century authors.  
Mr. Robinson

106. Lessings' Life and Works. (3) I.  
Lectures and reading of selected texts.  
Mr. Hagge

106A–106B. Grammar, Composition, and Conversation. (2–2) Yr.  
Mr. Schomaker

106C–106D. Grammar, Composition, and Conversation. (2–2) Yr.  
Prerequisite: course 106A–106B.  
Mr. Schomaker

108. Schiller's Life and Works. (3) II.  
Lectures and reading of selected texts.  
Mr. Reinsch

109A. Introduction to Goethe. (3) I.  
Goethe's prose.  
Mr. Reinsch

109B. Introduction to Goethe. (3) II.  
Goethe's Faust, Parts I and II.  
Mr. Reinsch

109C. Goethe's Dramas. (3) II.  
Mr. Reinsch

* Not to be given, 1942–1948.
110. The German Lyric and Ballad. (3) I.  
Prerequisite: 6 units of upper division German.  
A survey from 1750 to the present.  
Mr. Mulloy

111. The German Novelle. (3) II.  
Prerequisite: 6 units of upper division German.  
Mr. Mulloy

114. German Literature from 1885 to the Present. (3) I.  
Prerequisite: 6 units of upper division German.  
A survey of recent dramatic and narrative literature.  
Mr. Hand

117. History of the German Language. (3) I.  
Prerequisite: course 106A–106B.  
Mr. Dolch

118A. History of German Literature. (3) I.  
Prerequisite: 6 units of upper division German.  
The Middle Ages.  
Mr. Arit

118B. History of German Literature. (3) II.  
Prerequisite: 6 units of upper division German.  
From the Reformation to 1850.  
Mr. Arit

119. Middle High German. (3) II.  
Prerequisite: courses 117 and 118A.  
Outline of grammar, selections from the Nibelungenlied, Kudrun, and the Court Epics.  
Mr. Dolch

145A–145B. Introduction to Folklore. (2–2) Yr.  
Prerequisite: 6 units of upper division work in English, French, German, Italian, or Spanish, and a reading knowledge of one foreign language. Open to major students in English or in a modern foreign language.  
The various fields of folklore, their literature, and problems.  
Mr. Hand

199A–199B. Special Study for Advanced Undergraduates. (1 to 3) I, II.  
The Staff (Mr. Arit in charge)  
Topics selected with the approval of the department and studied under the direction of one of the staff.

GRADUATE COURSES

201. Bibliography and Methods of Literary History. (2) I.  
Mr. Arit

207. Early New High German Language and Literature: 1450–1624. (3) I.  
Mr. Arit

*208. German Literature from Opitz to Bodmer: 1624–1740. (2) I.  
Mr. Arit

210A–210B. The Age of Goethe. (2–2) Yr.  
Mr. Reinsch

*212A–212B. The Age of Romanticism. (2–2) Yr.  
Mr. Mulloy

*222. Goethe's Faust. (2) II.  
Mr. Reinsch

*225. The Nineteenth Century Drama. (2) II.  

*230. Survey of Germanic Philology. (3) I.  
Mr. Dolch

* Not to be given, 1942–1948.
Germanic Languages

231. Gothic. (3) I.  Mr. Dolch
232. Old High German. (3) II.  Mr. Dolch
233. Old Saxon. (3) II.  Mr. Dolch
239. Readings in Middle High German Literature. (3) II.  Mr. Dolch
   Prerequisite: course 119 or its equivalent.
245. The Folk Tale. (2) II.  Mr. Hand
   Prerequisite: course 145A or its equivalent.
251. Seminar on the Age of Goethe. (2) I.  Mr. Reinsch
253. Seminar on the Age of Romanticism. (2) I.  Mr. Mulloy
257. Seminar in Sixteenth- and Seventeenth-Century German Literature. (2) II.  Mr. Arlt
259. Seminar in Germanic Linguistics. (1 to 3) I, II.  Mr. Dolch
   Prerequisite: course 230 and one dialect or the equivalent.
298A–298B. Special Studies. (1–3; 1–3) Yr.  The Staff

Professional Course in Method
370. The Teaching of German. (3) I.  Mr. Reinsch
   Prerequisite: graduate standing in the Department of Germanic Languages. Required of all candidates for the general secondary credential in German. To be taken concurrently with Education 370.

Scandinavian Languages

Upper Division Courses
101. Elementary Swedish. (2) I.  Mr. Wahlgren
   Prerequisite: junior standing.
102. Intermediate Swedish. (3) II.  Mr. Wahlgren
   Prerequisite: course 101 or the equivalent.
103. Elementary Danish and Norwegian. (3) I.  Mr. Wahlgren
104. Intermediate Danish and Norwegian. (3) II.  Mr. Wahlgren
141. Modern Scandinavian Literature in English Translation. (3) II.
   No prerequisite; open to all upper division students.  Mr. Wahlgren

Graduate Courses
243. Old Icelandic. (3) I.  Mr. Wahlgren
244. Old Norse-Icelandic Prose and Poetry. (2) II.  Mr. Wahlgren

* Not to be given, 1942–1943.
History

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History

FRANK J. KLINGBERG, Ph.D., Professor of History.
JOSEPH B. LOCKEE, Ph.D., Professor of History.
WALDEMAR WESTERGAARD, Ph.D., Professor of History.
DAVID K. BJORK, Ph.D., Associate Professor of History (Chairman of the Department).
JOHN W. CAUGHEY, Ph.D., Associate Professor of History.
BRANNED DYES, Ph.D., Associate Professor of History.
ROWLAND HILL HARVEY, Ph.D., Associate Professor of History.
ROLAND D. HUSSEY, Ph.D., Associate Professor of History.
LOUIS KNOTT KOONTZ, Ph.D., Associate Professor of History.
ANDRE LOBANOV-ROSTOVSKY, Associate Professor of History.

* RICHARD O. CUMMINGS, Ph.D., Assistant Professor of History.
CLINTON N. HOWARD, Ph.D., Assistant Professor of History.
CHARLES L. MOWAT, Ph.D., Assistant Professor of History.
JOHN W. OLMSVED, M.A. (Oxon.), Assistant Professor of History.
LUCY M. GAINES, M.A., Assistant Professor of History, Emeritus.
S. BYRON STRAW, Ph.D., Instructor in History.

Letters and Science List.—All undergraduate courses in history are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: (1) courses 4A–4B or 5A–5B, and (2) course 7A–7B or 8A–8B, or equivalent preparation for students transferring from other departments or other institutions. Recommended: Political Science 3A–3B, Political Science 31, 32, Economics 1A–1B, Geography 1A–1B, and Philosophy 20, 21. One of these recommended courses may be substituted for one of the required history courses, with approval of the department.

Recommended: French, German, Latin, Spanish, Italian, or a Scandinavian language. For upper division work in history, a reading knowledge of one of these is usually essential. For language requirements for graduate work, see ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.

The Major.—Twenty-four units of upper division work in history. The major must include a year sequence in European history and a year sequence in American history. A year sequence in European history may be composed as follows: course 111A–111B, or 121A–121B, or 131A–131B, or 142 and 143, or 143 and 144, or 144 and 145, or 152A–152B, or 153A–153B, or 154 and 155. A year sequence in American history may be composed as follows: course 162A–162B, or 171 and 172, or 172 and 173, or 173 and 174, or 175 and 181, or 181 and 182. The major must also include course 199A–199B in a field for which preparation

* Absent on leave, 1942–1943.
* In residence spring term only, 1942–1943.
History

has been made in the junior year. This course must be taken in proper sequence on the advice of the departmental adviser.

Honors in History.—Students who pass with distinction a special honors examination for seniors given each May will be recommended to receive the bachelor's degree with honors or highest honors in history. Special work for students interested in honors is offered in the lower division in connection with courses 4A-4B, 5A-5B, 7A-7B, and 8A-8B, and also in upper division year courses (3 units each term). A special reading course for candidates for honors is given (see History 198). For information about honors work in connection with particular courses consult the instructors in charge. On general aspects of the honors program and examination consult either Mr. Mowat or Mr. Olmsted.

Graduate Work in History.—See the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, and the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

LOWER DIVISION COURSES

4A-4B. History of Europe. (3-3) Beginning either term. Mr. Westergaard
Lectures, two hours; quiz section, one hour.
The growth of European civilization from the decline of the Roman Empire to the present time.

5A-5B. History of England and Greater Britain. (3-3) Beginning either term.
Mr. Howard, Mr. Mowat
Lectures, two hours; quiz section, one hour.
The political, economic, and cultural development of the British Isles and the Empire from the earliest times to the present.

7A-7B. Political and Social History of the United States. (3-3) Beginning either term.
Mr. Dyer
Lectures, two hours; quiz section one hour.
This course is designed for students in the social sciences who want a thorough survey of the political and social development of the United States as a background for their major work and for students in other departments who desire to increase their understanding of the rise of American civilization.

8A-8B. History of the Americas. (3-3) Beginning either term.
Mr. Lockey
Lectures, two hours; quiz section, one hour.
A survey of the history of the Western Hemisphere.

9A. Great Personalities: United States. (2) I.
Mr. Dyer

9B. Great Personalities: Latin America. (2) II.
Mr. Hussey

9C. Great Personalities: Modern Europe and England. (2) II.
Mr. Straw

9D. Great Personalities: Ancient and Medieval Continental Europe. (2) I.
Mr. Straw

10. Makers of the Modern World. (2) II.
Mr. Mowat
The lives of some of the leading figures in world history during the last hundred years, American, British, and Continental European.

39. Pacific Coast History. (2) I, II.
Mr. Caughey

* Not to be given, 1942-1948.
History

46. Economic History of the United States. (3) I, II. Primarily for sophomores but open to other students. Mr. Harvey

UPPER DIVISION COURSES

The prerequisite for all upper division courses is course 4A-4B, or 5A-5B, or 7A-7B, or 8A-8B, or other preparation satisfactory to the instructor.

111A. Greek History to the Roman Conquest. (3) I. Mr. Straw

111B. Roman History to the Accession of Augustus. (3) II. Mr. Straw

111C. The Roman Empire from Augustus to Constantine. (3) I. Mr. Straw

113. Roman Law. (3) II. Mr. Straw

121A. The Early Middle Ages. (3) I. Mr. Bjork

Prerequisite: course 4A-4B or 5A-5B, or the consent of the instructor.

A survey of the main events of European history from the fall of the Roman Empire to about 1150 A.D.

121B. The Civilisation of the Later Middle Ages. (3) II. Mr. Bjork

Prerequisite: course 4A-4B or 5A-5B, or the consent of the instructor.

A survey of European history, 1150–1450, with emphasis upon social, cultural, religious, and economic foundations of western Europe.

131A. Economic History of the Western World. (3) I. Mr. Harvey

Prerequisite: course 4A-4B or 5A-5B, or Economics 1A-1B.

From early times to 1750.

131B. Economic History of the Western World. (3) II. Mr. Harvey

Prerequisite: course 4A-4B or 5A-5B, or Economics 1A-1B.

From 1750 to the present, with special emphasis on England, France, and Germany.

140. Plans for International Organization and World Peace, 1300–1914. (2) II. Mr. Olmsted

A survey of the proposals made and put into effect to organize the community of nations for peace, since the time of the Renaissance.

141A–141B. Renaissance, Reformation, and Overseas Expansion. (2–2) Yr. Mr. Olmsted

The social and intellectual history of western Europe from the later Middle Ages to the Thirty Years War.

142. Europe in the Seventeenth and Eighteenth Centuries. (3) I. Mr. Olmsted

European society, politics, and international relations from the Thirty Years War and Louis XIV to the Enlightened Despots and the Seven Years War.

143. Enlightened Despotism, the French Revolution, and Napoleon. (3) II. Mr. Olmsted

A study of the culture of the Enlightenment and of European politics and international relations from the Seven Years War to the fall of Napoleon.

* Not to be given, 1942–1948.
144. Europe from Napoleon to the Congress of Paris. (3) I. Mr. Lobanov
The history of Europe from the rise of Napoleon to the end of the Crimean War; a survey course including the study of international relations and internal conditions of the major European countries with special stress on the rise of nationalism and liberalism.

145. Europe from the Congress of Paris to the Peace Conference of Versailles. (3) II. Mr. Lobanov
The history of Europe with special stress on the unification of Germany and Italy, the causes of the World War, and the World War itself.

146A. History of Slavic Europe and the Balkans. (3) I. Mr. Lobanov
The history of Russia, Bohemia, Poland, Lithuania, and the Balkan nations from the origins to the end of the eighteenth century.

146B. History of Slavic Europe and the Balkans. (3) II. Mr. Lobanov
The history of Russia, Poland, Serbia, Bulgaria, Roumania, and Greece from the Napoleonic period to the present treated in the light of internal conditions and European diplomacy.

147. History of Wars in Europe. (2) I, II. Mr. Lobanov

152A–152B. Constitutional History of England. (3–3) Yr. Mr. Howard
A study of the growth of the institutions of British government.

153A–153B. History of the British People in Modern Times. (3–3) Yr. Mr. Klingberg
Not open to students who have had courses 154 or 155.
A study of the main currents in the thought, culture, and social progress of the British people from Henry VIII to the death of Victoria.

154. Great Britain in the Seventeenth Century (1668–1688). (3) I. Mr. Howard
Not open to students who have had 153A.
A study of the various factors in English life, political, social, economic, religious, and intellectual, at the time of the Civil Wars, the Restoration, and the Revolution.

155. Great Britain in the Eighteenth Century (1688–1783). (3) II. Mr. Howard
Not open to students who have had 153A.
The structure of the British government, society, and economic life under the Hanoverians.

157. Great Britain in the Twentieth Century. (3) I. Mr. Mowat
The changing British scene in war and peace from the accession of Edward VII to the present.

158A. History of the British Empire. (3) I. Mr. Mowat
The old colonial empire to 1783.

158B. History of the British Empire. (3) II. Mr. Mowat
The development of the Empire since 1783, both in its various parts, and in the relationship between Great Britain and the dominions and colonies, with principal reference to Africa, Australasia, and the West Indies.

* Not to be given, 1942-1943.
159. History of Canada. (3) I. 
A survey of the growth of Canada from its beginnings under the French and British colonial empires into a modern nation-state. 

160. History of the Caribbean. (3) II. 
Mr. Hussey

161. History of Spain and Portugal. (3) I. 
The history of Spain from early times to the present. 

162A–162B. Hispanic America from the Discovery to the Present. (3–3) Yr. 
Mr. Caughey, Mr. Hussey

169. History of Inter-American Relations. (3) II. 
Mr. Caughey

171. The United States: Colonial Period. (3) I. 
Mr. Koontz
Political and social history of the Thirteen Colonies and their neighbors; European background, settlement and westward expansion, intercolonial conflicts, beginnings of culture, colonial opposition to imperial authority.

172. The United States: The New Nation. (3) II. 
Mr. Koontz
Political and social history of the American nation from 1750 to 1815, with emphasis upon the rise of the New West; revolution, confederation, and union; the fathers of the Constitution; the New Nationalism.

173. The United States: Civil War and Reconstruction. (3) I. 
Mr. Dyer
The topics studied will include: the rise of sectionalism, the anti-slavery crusade; the formation of the Confederate States; the war years; political and social reconstruction.

174. The United States: the Twentieth Century. (3) II. 
Mr. Dyer
A general survey of political, economic, and cultural aspects of American democracy in recent years.

178. History of the Foreign Relations of the United States. (3) I. 
Mr. Cummings

181. The Westward Movement and the West. (3) I. 
Mr. Caughey
Recommended preparation: course 8A–8B.
A study of the advance of the American frontier, particularly in the trans-Mississippi West, and an analysis of the distinguishing characteristics of the West in the past half-century.

188. History of California. (3) II. 
Mr. Caughey
Recommended preparation: course 8A–8B or 39.
The economic, social, intellectual, and political development of California from the earliest times to the present.

190. History of the Pacific Area. (3) II. 
Mr. Caughey

191A. History of the Far East. (3) I. 
Mr. Han
China and Japan from the earliest times to the beginning of westernization.
191B. History of the Far East. (3) II.  
Mr. Han  
Transformation of the Far East in modern times under the impact of western civilization.

196. Early India and the Indies. (3) I.  
Mr. Han  
India from the Vedic period to the decline of the Mogul Empire; colonial rivalries of the European powers in the Indian Ocean area; establishment of the Dutch empire in the East Indies.

197. History of British India. (3) II.  
Mr. Han  
History of the British Empire in India, Burma, and Malaya.

198. Conferences and Reading for Honors. (2) I, II.  
Mr. Olmsted and Mr. Mowat in charge  
Primarily for qualified history majors who intend to take the optional examination for honors in history given each May. Whenever possible students should enroll at the beginning of the junior year. May be taken four times for credit.

199A–199B. Special Studies in History. (2–2) Yr.  
Required of all history majors. This course is usually taken in the senior year but students should arrange their programs so as to take it in the correct sequence, if necessary by beginning it in the second term of the junior year.

Section 1. Ancient History.  
Mr. Straw

Section 2. Medieval History.  
Mr. Bjork

Section 3. European History.  
Mr. Westergaard

Section 4. European History.  
Mr. Olmsted

Section 5. English History.  
Mr. Howard

Section 6. American Colonial History.  
Mr. Koontz

Section 7. The American Revolution.  
Mr. Mowat

Section 8. United States Reform Movements.  
Mr. Harvey

Section 9. Hispanic-American History.  
Mr. Loekey

Section 10. United States-Far Eastern Relations.  
Mr. Han

Graduate Courses

201. Historiography and Bibliography. (3) I.  
Mr. Hussey

254A–254B. Seminar in Medieval History. (3–3) Yr.  
Mr. Bjork  
Studies in continental European history prior to 1914.

257A–257B. Seminar in European History. (3–3) Yr.  
Mr. Westergaard  
Studies in continental European history prior to 1914.

259A–259B. Seminar in European History. (3–3) Yr.  
Mr. Lobanov

260A–260B. Seminar in English History. (3–3) Yr.  
Mr. Davies  
Studies in the Stuart period.

261A–261B. Seminar in English History. (3–3) Yr.  
Mr. Klingberg  
Studies of England in the nineteenth century.

* Not to be given, 1942–1943.
* To be given spring term only, 1942–1943.
History

262A–262B. Seminar in English History. (3–3) Yr. Mr. Harvey
Studies in the reform movements of the nineteenth century.

265A–265B. Seminar in Hispanic-American History. (3–3) Yr. Mr. Loekey
Studies in the colonial and early national periods.

268A–268B. Seminar in United States History. (3–3) Yr. Mr. Koontz
Studies in the colonial frontier.

270A–270B. Seminar in United States History. (3–3) Yr. Mr. Hussey
Studies in the Revolutionary era.

271A–271B. Seminar in United States History. (3–3) Yr. Mr. Cummings
Studies in recent United States history.

272A–272B. Seminar in United States History. (3–3) Yr. Mr. Dyer
Studies in political and social problems of the middle nineteenth century.

274A–274B. Seminar in Pacific Coast History. (3–3) Yr. Mr. Caughey
Studies in political and social problems of the middle nineteenth century.

290. Research in History. (1 to 6) I, II. The Staff

Professional Course in Method

270. The Teaching of History and Social Studies. (3) I, II.
This course may be counted in partial fulfillment of the 18-unit requirement in education for the General Secondary Credential. Recommended to be taken in senior year.

Related Courses in Other Departments

Greek 42A–42B. Greek Civilization. (2–2) Yr. Mr. Friedländer
Latin 42A–42B. Roman Civilization. (2–2) Yr. Mr. Friedländer
Latin 196A–196B. Readings in Medieval Latin. (2–2) Yr. Mrs. Woodworth

* Not to be given, 1942–1943.
The Department of Home Economies offers six majors:

A. The General Major in Home Economics, for students working toward the general elementary teaching credential, or for those who wish home economics as a background for homemaking.

Preparation for the Major.—Courses 1A–1B, 11A–11B; Art 21A, 42; Chemistry 2A–2B, 10; Zoology 13.


B. The Major for Prospective Home Economics Teachers.

Preparation for the Major.—Courses 1A–1B, 11A–11B; Art 2A or 42, 21A; Chemistry 1A–1B, 10; Zoology 13.


C. The Dietetics Major, for students preparing for dietetic internships.

Preparation for the Major.—Course 11A–11B; Bacteriology 1, Business Administration 1A, Chemistry 1A–1B, 8, Economics 1A–1B, English 1A–1B or Public Speaking 1A–1B, Psychology 21, 22, Zoology 13.

The Major.—Courses 110, 118, 119, 120, 125, 136A–136B, 159, 370 (or Psychology 110), Business Administration 153, 180; and 4 units chosen from courses 105, 143, 150, Economics 150, Psychology 112, Public Health 101A–101B.

D. The Major in Food and Nutrition, for students preparing for promotional work with food or utility companies.

Preparation for the Major.—Course 11A–11B, Art 2A or 42, Business Administration 1A, Bacteriology 1, Chemistry 1A–1B or 2A–2B, 8 or 10, Economics 1A–1B, English 1A, Public Speaking 1A, Physics 10A–10B, Zoology 13.
The Major.—Courses 110, 118, 120, 125, 136A–136B, 162A–162B, Business Administration 140, 180, 185; and 5 units selected from courses 119, 150, 159, 199A–199B, Psychology 101.

The minor should be chosen after consultation with the departmental adviser.

E. The Major in Foods and Nutrition, for students preparing for graduate work or research positions.

Preparation for the Major.—Course 11A–11B, Bacteriology 1, Chemistry 1A–1B, 8, Mathematics CF and 8 (or the equivalent), 3A–3B, Physics 2A–2B, Zoology 13.

The Major.—Courses 110, 118, 119, 120, 125, 159, 199 (4 units or more); Physics 112; the remainder of the 36-unit major to be selected from courses 105, 143, 150, Bacteriology 108, 105, Physics 107A–107B, 113, 113C.

The minor should be in chemistry and should include Chemistry 6A–6B (taken in the upper division) and either Chemistry 109A–109B or Chemistry 6A and 9 (taken in the upper division) and one of Chemistry 101, 102.

F. The Major in Clothing.

Preparation for the Major.—Courses 1A–1B; Art 1A, 2A–2B, 21A; Chemistry 1A–1B, 8; Economics 1A–1B.

The Major.—Courses 108, 162A, 170, 175, 176; Art 1A–1B, 183A–183B; Psychology 101; other units to make 36 chosen from courses 143, 162B, 168, 199; Art 121A–121B, 147A–147B, 173.

College of Letters and Science

Letters and Science List.—All undergraduate courses except 108, 125, 150, and 175 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Laboratory Fees.—Courses 1A, 1B, 175, 176, $1.50; 11B, 108, 136A, 136B, 150, $2; 119, 199A–199B (Sec. 2), $2.50; 110, $3.50; 11A, 12, $4; 104, $4.50; 120, 125, $5; 159, $7.

Lower Division Courses

1A. Elementary Clothing. (3) I, II. Miss Wilson

Prerequisite: matriculation credit in "clothing" or Art 2A or 42. Fee, $1.50.

Fundamental problems of clothing construction, including the use of commercial patterns and the selection, care, and use of equipment.

1B. Elementary Clothing. (3) I, II. Miss Wilson

Prerequisite: course 1A. Fee, $1.50.

Problems involved in clothing and textile buying; an elementary study of textiles, with attention to prices, quality differences, consumer aids, labels, advertising, and the selection of suitable textiles and designs.

11A. Elementary Food. (3) I, II. Mrs. Stevenson

Prerequisite: high school chemistry or Chemistry 1A or 2A. Fee, $4.

The classification, occurrence, and general properties of foodstuffs; the principles involved in food preparation and preservation; compilation of recipes; practice in judging food preparations and in meal service.
Home Economics

11B. Food Economics. (3) I, II. Mrs. Stevenson
   Prerequisite: course 11A. Fee, $2.
   The production, transportation, and marketing of food materials; the legal and sanitary aspects of food products handled in commerce; prices in relation to grades and standards.

12. Dietetics and Food Preparation. (3) I. Mrs. Rodgers
   Fee, $4.
   The composition of foods, the principles involved in food preparation, the requirements for dietary essentials in health and disease.

32. Elements of Nutrition. (2) I, II. Miss Mallon, Miss Goddard
   Prerequisite: 6 units of natural science.
   The principles of nutrition and their application in normal conditions of growth and physical development. Family food budgets and food habits in relation to nutritive requirements.

Upper Division Courses

104. Food Principles and Economics. (3) I, II. Mrs. Stevenson
   Prerequisite: Chemistry 1A or 2A–2B. Not open to students who have taken course 11A–11B. Fee, $4.50.
   A study of the composition of food, the principles involved in its preparation, and the processing and marketing of food products.

105. Survey of Dietaries. (3) II. Miss Goddard
   Prerequisite: course 11A–11B, or 104 and 118, or 32 with the consent of the instructor.
   Surveys and compilations of dietaries with reference to cost of materials and to nutritive standards for normal health.

108. Textiles. (2) I, II. Miss Wilson
   Prerequisite: course 1B, Chemistry 10. Fee, $2.
   A study of chemical and physical properties of textile materials with opportunity to apply textile analysis to problems in retail buying.

110. Food Analysis. (3) I, II. Miss Goddard
   Prerequisite or concurrent: course 118. Fee, $3.50.
   The application of qualitative and quantitative methods to the study of foods.

118. Nutrition. (3) I, II. Miss Mallon
   Prerequisite: Chemistry 8 or 10, Physiology 1.
   The chemistry of digestion and the metabolism of carbohydrates, fats, and proteins; a study of minerals and vitamins in relation to human nutrition.

119. Nutrition Laboratory. (2) II. Miss Mallon
   Prerequisite or concurrent: course 118. Fee, $2.50.
   A chemical study of the components of food, the products of digestion, and the constituents of tissues.

* Not to be given, 1942–1943.
120. Diet in Health and Disease. (3) I, II. Miss Mallon
Prerequisite: courses 11A, 11B, 110, and Chemistry 8 or 10. Fee, $5.
Human requirements for dietary essentials for infancy, childhood, adult
life; dietary calculations; modification of normal diet for specific diseases.

125. Experimental Cookery. (3) I. Mrs. Stevenson
Prerequisite: course 11A and 110, or Chemistry 9. Fee, $5.
Quantitative methods in food preparation under controlled conditions.

136A–136B. Institution Economics. (3–3) Yr. Mrs. Rodgers
Prerequisite: course 11B and Economics 1A–1B. Fee, $2 a term.
The economic principles and problems involved in the organization and
administration of institution households such as residence halls, hotels, hos-
pitals, and school lunchrooms.

143. Child Care. (2) II.
Prerequisite: Psychology 21, 22; Physiology 1.
Physical development of children from prenatal through adolescent life.
Discussion of problems concerned with the care of children in the home.

150. Family Food Service. (3) I. Mrs. Stevenson
Prerequisite: courses 11A–11B (or 104), 118, Art 2A.
Organization and management of family food service at different eco-
nomic levels. Emphasis is placed on standard products, meal service, use and
care of kitchen and dining equipment.

159. Metabolism Methods. (3) I, II. Miss Goddard
Prerequisite: course 110 or the equivalent. Fee, $7.
Observations of the influence of special diets upon various phases of
metabolism; practice in the methods of determining blood constituents,
basal metabolic rate, and nitrogen and mineral excretions.

162A. The Economic Problems of Families. (2) I. Miss Gray
Prerequisite: Economics 1A–1B, or 6 or more units of home economics.
Distribution of families as to size, composition, domicile, income, and
expenditures. Economic and social developments which have influenced the
activities of the members of the household and brought about changes in
the family's economic problems and standards of living.

162B. Management of Individual and Family Finances. (2) II.
Prerequisite: Economics 1A–1B, or 6 or more units of home economics.
Methods of payment for goods, budgeting, property laws, investments,
and insurance; the business cycle as a factor in financial planning.

164A–164B. Housing. (2–2) Yr. Miss Gray
The contemporary housing situation, essentials of healthful housing,
improvement in housing, and municipal, state, and federal activities.

168. Family Relationships. (2) I.
Discussions of the contributions of the family to personal and group well-
being, of problems of the modern family, and of bases for satisfying family
relationships and for successful family life.
170. Clothing Economics. (3) II. Mrs. Hungerland
Prerequisite: course 162.
Methods of clothing production and distribution and their effects on clothing costs and values; the consumption of clothing.

175. Dress Design. (3) II. Miss Wilson
Prerequisite: course 1A, Art 21. Fee, $1.50.
A study of individual fitting and design problems. Development of designs by modeling on the dress form and use of block patterns.

176. Advanced Dress Design. (3) I. Mrs. Hungerland
Prerequisite: course 175. Fee, $1.50.
French draping; selection and manipulation of fabrics; creation of original designs.

199A-199B. Problems in Home Economics. (2-4; 2-4) Yr. The Staff
Prerequisite: senior standing with such special preparation as the problem may demand. Section 1, field investigations and statistical studies; the expense of the problem to be met by the student. Section 2, laboratory; fee, $2.50 a term.
Assigned problems for individual investigation, the work of each student to be directed by the instructor in whose division of the field the problem lies.

GRADUATE COURSES

251. Seminar in Nutrition. (2) I. Miss Mallon
Recent advances in the science of nutrition and in the dietetic treatment of disease.

360. Nutrition and Growth of the Child. Seminar. (2) II. Mrs. Stevenson
A critical study of the reports of recent investigations concerning the physical growth and nurture of children.

262. Personal and Family Economics. Seminar. (2) II. Miss Gray
Review of budget studies representative of various levels of living and of those based on quantity budgets.

282A-282B. Selected Problems. (2-4; 2-4) Yr.
Miss Gray, Miss Goddard, Miss Mallon, Mrs. Stevenson
Laboratory or field investigation in nutrition, foods, or household economics.

PROFESSIONAL COURSE IN METHOD

370. Principles of Home Economics Teaching. (3) II.
Prerequisite: courses 1A, 1B, 11A, 11B, 143, 168.
The development of home economics as an educational movement; homemaking courses and their presentation in high schools; homemaking activities in the elementary school; critical review of texts and references in relation to curriculum requirements in different types of schools.

* Not to be given, 1942-1948.

ITALIAN (See pages 279-280)
JAPANESE (See page 181)
LIFE SCIENCES GROUP

BENNET M. ALLEN, Ph.D., Professor of Zoology (Chairman of the Group).

This group is composed of the departments of Bacteriology, Botany, and Zoology, and has been organized for the purpose of unifying and coordinating the activities in these fields. Although no attempt is made to curtail the free development of each department, the special committee in charge of the Life Sciences Group endeavors to articulate, for their mutual benefit, the courses and research work of the three departments concerned. The announcements of the departments comprising this group appear in their alphabetical order.

BIOLOGY

LOWER DIVISION COURSES

1. Fundamentals of Biology. (3) I, II. Mr. Cowles, Miss Scott
Students who have taken or are taking Botany 1A or Zoology 1 will not receive credit for Biology 1.

Important principles of biology illustrated by studies of structure and activities of living organisms, both plants and animals.

12. General Biology. (3) II. Mr. Cowles,______
Lectures, three hours; demonstration, one hour; one required field trip in the term. Prerequisite: course 1, Botany 1A, or Zoology 1.

A course in systematic and ecologic biology with emphasis on local species.

24A–24B. Introduction to Scientific Illustrating. (3–3) Yr. Mr. Johnson
Lectures, two hours; laboratory, three hours. Prerequisite: the consent of the instructor.

Illustration with particular reference to the life sciences; emphasis upon the various techniques in use, and upon the relation of biological forms to design in art.
Mathematics

MATHEMATICS

GEORGE E. F. SHERWOOD, Ph.D., Professor of Mathematics.
TRACY Y. THOMAS, Ph.D., Professor of Mathematics.
WILLIAM M. WHYBURN, Ph.D., Professor of Mathematics (Chairman of the Department).
EARLE R. HEDRICK, Ph.D., Sc.D., LL.D., Professor of Mathematics, Emeritus.
CLIFFORD BELL, Ph.D., Associate Professor of Mathematics.
PAUL H. DAUS, Ph.D., Associate Professor of Mathematics.
GLENN JAMES, Ph.D., Associate Professor of Mathematics.
WENDELL E. MASON, M.S.E., M.E., Associate Professor of Applied Mathematics.
MAX ZORN, Ph.D., Associate Professor of Mathematics.
PAUL G. HÖL, Ph.D., Assistant Professor of Mathematics.
GUY H. HUNT, C.E., Assistant Professor of Applied Mathematics.
WILLIAM T. PUCKETT, JR., Ph.D., Assistant Professor of Mathematics.
ANGUS E. TAYLOR, Ph.D., Assistant Professor of Mathematics.
FREDERICK A. VALENTINE, Ph.D., Assistant Professor of Mathematics.
EUPEMIA R. WORTHINGTON, Ph.D., Assistant Professor of Mathematics.
HARRIET E. GLAZIER, M.A., Assistant Professor of Mathematics, Emeritus.
*RALPH E. BYRNE, JR., Ph.D., Instructor in Mathematics.
ROBERT H. SORGENFREY, Ph.D., Instructor in Mathematics.


Letters and Science List.—All undergraduate courses in mathematics and statistics are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: courses CF (or the equivalent), 8, 3A, 3B, 4A, with an average grade of C or higher, except that students who have completed two years of high school algebra and also trigonometry may be excused, upon examination, from course 8. Recommended: physics, astronomy, and a reading knowledge of French and German.

The Major.—Courses 109 (or 4B), 111, 112A–112B, and 119, together with enough additional upper division units to total 24, must be included in every mathematics major. The student must maintain an average grade of at least C in upper division courses in mathematics.

Students who are preparing to teach mathematics in high school are advised to elect courses 101, 102, 370.

Business Administration.—Freshmen in this college are required to take courses 8 and 2, except that students who have completed two years of high school algebra and also trigonometry may be excused, upon examination, from course 8.

Pre-Engineering.—The University of California offers at Los Angeles the first two years of the curricula of the College of Engineering, which is in

* Absent on leave, 1942–1943.
Berkeley. Students intending to pursue their studies in this college should consult the departmental pre-engineering adviser before making out their programs.

The minimum requirements for admission to the courses 3A–3B, 4A–4B are high school algebra, plane geometry, plane trigonometry, and course 8 unless excused as noted above. Prospective engineering students are urged, however, to add, in their high school course, another half-year of algebra and solid geometry to this minimum preparation.

Fees.—Civil Engineering 1FA, 1FB, 4, $6; Civil Engineering 3, $25.

**LOWER DIVISION COURSES**

**CF. Trigonometry.** (3) I, II. Mr. Puckett
Prerequisite: two years of high school algebra or course 8. Students with one and one-half years of high school algebra may enroll in course CF concurrently with course 8. Not open for full credit to students who have had trigonometry in high school.

**F. Spherical Trigonometry.** (1) II. Miss Worthington
Prerequisite: plane trigonometry.

**G. Solid Geometry and Introduction to Descriptive Geometry.** (2) II. Mr. Hunt

**K. Trigonometry and Military Slide Rules.** (2) I, II. Mr. Mason
Prerequisite: enrollment in advanced R.O.T.C. courses.

**2. Mathematics of Finance.** (3) I, II. Mr. Daus
Prerequisite: course 8.

**3A. Plane Analytic Geometry.** (3) I, II. Mr. Bell, Mr. Byrne
Prerequisite: courses CF and 8, or the equivalent.

**3B. First Course in Calculus.** (3) I, II. Mr. Hunt
Prerequisite: course 3A.

**3A–3B. Analytic Geometry and First Course in Calculus.** (6) II. Mr. Daus
Prerequisite: trigonometry and course 8, or the equivalent.

**3K. Analytic and Descriptive Geometry.** (2) I. Mr. Daus
Prerequisite: course 3A.

**4A. Second Course in Calculus.** (3) I, II. Mr. Taylor
Prerequisite: course 3B.

**4B. Third Course in Calculus.** (3) I, II. Mr. James
Prerequisite: course 4A. Course 4B may be substituted for Mathematics 109 with the approval of the department.

**4A–4B. Second and Third Courses in Calculus.** (6) I. Mr. Sherwood
Prerequisite: course 3B.

**5C. Plane and Solid Analytic Geometry.** (5) II. Miss Worthington
Prerequisite: trigonometry and course 8, or the equivalent. Not open for full credit to students who have taken course 3A.
7. Mathematics for Social and Life Sciences. (3) II.  
   Mr. Hoel  
   Prerequisite: course 8 or the equivalent.  
   This course gives in brief form an introduction to analytic geometry and the calculus, and other mathematical material particularly designed for students of the social and life sciences.

8. College Algebra. (3) I, II.  
   Mr. Valentine and the Staff  
   Prerequisite: at least one year of high school algebra. Students who need extra drill in this subject will be required to enroll in sections which meet five days a week.

8CF. Algebra and Trigonometry. (6) I, II.  
   Mr. Bell  
   This course covers the material of courses 8 and CF.

10A. Advanced Engineering Mathematics. (2) I.  
   Mr. Bell  
   Prerequisite or concurrent: course 4A. Prescribed for pre-engineering students in the mechanical and electrical engineering curricula.  
   Vectors and allied topics.

10B. Advanced Engineering Mathematics. (2) I, II.  
   Mr. Bell  
   Prerequisite or concurrent: course 4B. Prescribed for pre-engineering students in the mechanical and electrical engineering curricula. Not open for full credit to students who have credit for course 119.  
   Elementary differential equations and applications.

10A–10B. Advanced Engineering Mathematics. (4) II.  
   Mr. Bell  
   Prerequisite or concurrent: course 4B.

18. Fundamentals of Arithmetic. (2) I, II.  
   Mr. Valentine, Mr. Bell  
   Prerequisite: sophomore standing.

**UPPER DIVISION COURSES**

Students may not elect upper division courses unless they have taken or are taking Mathematics 3B and 4A or their equivalent.

101. College Geometry. (3) I.  
   Mr. Daus  
   Prerequisite: course 3A.  
   Selected topics in geometry with particular emphasis on recent developments.

102. Introduction to Higher Algebra. (3) II.  
   Mr. James  
   Prerequisite: courses 8, 3B, 4A.  
   Selected topics in algebra, with particular reference to modern points of view.

106. Algebraic Geometry. (2) II.  
   Mr. Sherwood  
   Prerequisite: course 111.

107. Introduction to Tensors. (2) I.  
   Mr. Thomas

109. Third Course in Calculus. (3) I, II.  
   Mr. Sherwood  
   Prerequisite: courses 3B and 4A. Course 4B may be substituted for course 109 with the approval of the department.
Mathematics

111. Theory of Algebraic Equations. (3) I, II. Prerequisite: courses 8, 8B, and 4A. Mr. James, Mr. Zorn

112A–112B. Introduction to Higher Geometry. (2–2) Yr. Prerequisite: courses 3B and 4A. Mr. Daus, Mr. Sherwood

113. Synthetic Projective Geometry. (3) II. Prerequisite: course 112A–112B, or consent of the instructor. Mr. Daus

115. Theory of Numbers. (3) II. Mr. Daus

116. Differential Geometry. (3) II. Prerequisite: course 107. Mr. Thomas

119. Differential Equations. (3) II. Prerequisite: course 109 or its equivalent. Not open for full credit to students who have had course 10B. Mr. Bell

122A–122B. Advanced Calculus. (3–3) Yr. Prerequisite: course 109. Mr. Whyburn, Mr. Taylor

125. Analytic Mechanics. (3) II. Prerequisite: course 109 or its equivalent, and Physics 105. Mr. Sorgenfrey

126. Potential Theory. (3) I. Prerequisite: course 109 and one year of college physics. Mr. Whyburn, Mr. Taylor

135. Numerical Mathematical Analysis. (3) II. Prerequisite: course 4A. Mr. Hoel

155. Map Projections. (2) II. Prerequisite: course 4A. Mr. Daus

199. Special Problems in Mathematics. (3) I, II. Prerequisite: the consent of the department. Mr. Whyburn and the Staff

GRADUATE COURSES

208. Foundations of Geometry. (3) I. Mr. Daus

211. Higher Plane Curves. (3) I. Mr. Daus

215. Non-Euclidean Geometry. (3) I. Mr. Daus

216A. Foundations of Differential Geometry. (3) I. Mr. Thomas

A discussion of geometry and group theory, allowable coordinates and tangent spaces. Axioms for differential geometry. Existence theorems.

216B. Differential Invariants. (3) II. Mr. Thomas

A study of the foundations of invariant theories of generalized spaces. Among the topics treated are normal coordinates, the general theory of extension, spatial identities, differential invariants and parameters, the equivalence problem, and reducibility of spaces.

221A–221B. Higher Algebra. (3–3) Yr. Mr. Sherwood, Mr. Zorn

224A–224B. Functions of a Complex Variable. (3–3) Yr. Mr. Taylor

* Not to be given, 1942–1943.
227. The Theory of Summability. (3) II.  
Mr. James  
A study of convergent, nonconvergent, and asymptotic series, with applications to infinite integrals and Fourier series.

243. Real Variables—Differential Equations. (3) I.  
Mr. Puckett

244. Real Variables—Integration. (3) II.  
Mr. Puckett

245. Integral Equations. (3) I.  
Prerequisite: course 243.  
Mr. Taylor

246. Partial Differential Equations. (3) II.  
Prerequisite: course 243.  
Mr. Taylor

247A. Selected Topics in Absolute Differential Calculus. (3) I.  
Prerequisite: course 216B or the consent of the instructor.  
Mr. Thomas  
A course of lectures on pure and applied mathematics based on the absolute differential calculus, with special attention to recent developments.

247B. Selected Topics in Absolute Differential Calculus. (3) II.  
Prerequisite: course 216B or 247A.  
Mr. Thomas  
A continuation of course 247A, but an attempt will be made to arrange the subject matter so that the course can be taken by those who have not had course 247A.

260. Seminars in Mathematics. (3) I, II.  
The Staff  
Topics in analysis, geometry, and algebra, and in their applications, by means of lectures and informal conferences with members of the staff.

290. Research in Mathematics. (1 to 6) I, II.  
The Staff

PROFESSIONAL COURSE IN METHOD

370. The Teaching of Mathematics. (3) II.  
Mr. Valentine  
Prerequisite: courses 3B and 4A.  
A critical inquiry into present-day tendencies in the teaching of mathematics.

STATISTICS

LOWER DIVISION COURSES

1. Elementary Statistics. (2) I.  
Mr. Hoel  
Emphasis is placed on the understanding of statistical methods. Topics covered are frequency distributions, measures of central tendency, measures of variation, moments, theoretical frequency distributions, sampling, standard errors, linear regression, and linear correlation.

3. Industrial Statistics. (2) II.  
Prerequisite: course 1 or the equivalent.  
Mr. Hoel

UPPER DIVISION COURSE

Mr. Hoel  
Not open for credit to students who have taken course 1.

* Not to be given, 1942–1943.
CIVIL ENGINEERING

1LA–1LB. Plane Surveying Lectures. (2–2) Beginning either term.
Mr. Hunt, Mr. Mason, Mr. Sorgenfrey
Prerequisite: trigonometry and geometric drawing.

1FA–1FB. Plane Surveying Field Practice. (1–1) Beginning either term.
Mr. Hunt, Mr. Mason, Mr. Sorgenfrey
Prerequisite or concurrent: course 1LA–1LB. Fee, $6 a term.

3. Summer Class in Plane Surveying. (3).
Mr. Mason
Prerequisite: course 1FA–1FB. Four weeks of field work after the close of the college year. Fee, $25.

4. Plane Surveying. (2) II.
Mr. Mason
Field practice, calculations, mapping. Prerequisite: course 1LB and 1FB. This course replaces course 3 during the war emergency. Fee, $6.

5. Materials of Engineering Construction. (2) I, II.
Mr. Mason, Mr. Sorgenfrey
Prerequisite: sophomore standing.

15. Engineering Mechanics. (3) II.
Mr. Hunt
Prerequisite: Mathematics 3A.

* Not to be given, 1942–1948.
MECHANIC ARTS

HAROLD W. MANSFIELD, Assistant Professor of Mechanic Arts and Director of Shops (Chairman of the Department).

*JAMES R. BELL, B.S., Associate in Mechanic Arts.
*WILLIS H. BLISS, B.E., Associate in Mechanic Arts.
FOSS R. BROCKWAY, Ed.B., Associate in Mechanic Arts.
ADRIAN D. KELLER, M.A., Associate in Mechanic Arts.
LOUIS J. LARSON, B.S., Associate in Mechanic Arts.
ADIN E. MATTHEWS, M.S., Associate in Mechanic Arts.
CHARLES H. PAXTON, A.B., Associate in Mechanic Arts.
HARRY C. SHOWMAN, B.S., Associate in Mechanic Arts.
THOMAS A. WATSON, Associate in Mechanic Arts.

WENDELL E. MASON, M.S.E., M.E., Associate Professor of Applied Mathematics.

College of Applied Arts

Preparation for the Major.—Mechanical Engineering D; Mechanic Arts 11, 12, 14, 16, 17. Recommended: Physics 2A–2B; Mathematics CF, 8, and Art 2A.

The Major.—Thirty-six units of coördinated upper division courses approved by the department.

The Minor.—Twenty units of coördinated courses, not fewer than 6 of which must be in the upper division.

Special Secondary Teaching Credential in Industrial Arts Education.—For the requirements see the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.


MECHANICAL ENGINEERING†

D. Engineering Drawing. (2) I, II. Mr. Mansfield
Lettering, orthographic projection, pictorial representation, developed surfaces and intersections, dimensioning, fastenings for machinery, working drawings, topographical drawing.

1. Elements of Heat Power Engineering. (3) I. Mr. Paxton
Heat engines, steam power plants, boiler room equipment, steam engines, turbines; Diesel and other internal combustion engines; fuels.

2. Descriptive Geometry. (3) I, II. Mr. Paxton
Lecture, one hour; laboratory, six hours.

* Absent on leave, 1942–1948.
† The University of California offers at Los Angeles the first two years in preparation for admission to the junior year of the College of Engineering at Berkeley. Students intending to pursue their studies in this college should present their programs for approval to the pre-engineering adviser.
6. **Machine Drawing.** (3) I, II.  
Lecture, one hour; laboratory, six hours.  
Mr. Paxton  
Design and delineation of simple machine parts in the drafting room, with special emphasis upon the production of drawings which conform to standard practice.

10B. **Treatment of Engineering Materials.** (2) I, II.  
Mr. Mason, Mr. Mathews, Mr. Larson, Mr. Showman  
Prerequisite: Civil Engineering, 8. Fee, $6.

**MECHANIC ARTS**

**LOWER DIVISION COURSE**

11. **Bench and Machine Work in Wood.** (3) I.  
Mr. Keller  
Fee, $3.50.  
Fundamental hand tool and joinery operations; the layout and development of joints essential in wood construction. Maintenance and operation of stationary and portable woodworking machinery.

12. **General Metal Work.** (3) I.  
Mr. Brockway  
Fee, $3.50.  
A survey of the fundamental elements of metal work; metals and metal working processes; construction of articles with applications involving industrial design; metalcraft, gem cutting and jewelry making.

14. **Elements of Practical Electricity.** (3) I.  
Mr. Mathews  
Fee, $3.50.  
A general course in electricity dealing with the theory of direct current and magnetic circuits, stressing the practical application and operation of D. C. circuits, electrical measuring instruments and equipment.

15. **Automobile Problems for the Purchaser and User.** (3) I, II.  
Mr. Watson  
The operation of the modern automobile; unit study. Fuel; lubrication; tires, accessories, and supplies. Analysis of repairs; operation for safety and economy. Financing; insurance; depreciation. Future developments in motor cars.

16. **Architectural Drawing.** (2) I.  
Mr. Mansfield  
An introduction to architectural drawing; the house, plans, elevations, sections, working drawings; architectural symbols and details; perspective drawing; lettering; reproduction by the blue print and other printing processes.

17. **Machine Shop.** (3) I, II.  
Mr. Showman, Mr. Larson  
Fee, $3.50.  
Elementary machine shop practice; fundamental operations and tool processes; operations of standard power tools. Layout and bench work. Distinguishing various metals; working from blue prints and sketches; tool sharpening.

21. **General Woodwork.** (2) II.  
Mr. Keller  
Fee, $3.50.  
Fundamentals of construction as applied to recreational activities; skis, paddle boards and small boats.
24. Elementary Electronics and Radio Circuits. (3) I, II. Mr. Mathews
Fee, $3.50.
A course for the beginner in radio, covering high frequency circuits and the use of thermionic vacuum tubes. Laboratory work in set construction and repair, and in the use of testing equipment.

29A–29B. Applied Photography. (2–2) Yr. Mr. Keller
Fee, $3.50 a term.
Fundamentals of photography; exposure, developers and their characteristics, films, filters, and development of negatives and prints. Contact and projection printing; composition; photomicrographs.

Upper Division Courses

101. Cabinet Making. (3) II. Mr. Keller
Fee, $3.50.
Case and furniture making with emphasis on variety of typical elements. Preparation and application of paints, stains, varnishes and lacquers.

102. General Shop. (3) II. Mr. Showman
Fee, $3.50.
Analysis and construction of projects involving combined use of various tools, materials, and processes.

104. Alternating Currents. (3) II. Mr. Mathews
Prerequisite: course 14, Physics 1C, or Physics 2B. Fee, $3.50.
A general course in electricity dealing with the theory and practice of alternating current circuits and equipment, principles and use of electrical measuring instruments, switchboard work, circuit testing, and commercial distribution.

106A–106B. Industrial Drawing. (2–2) Yr. Mr. Mansfield, Mr. Paxton
Technical sketching, lettering, assembly and detail drawings, design, tracing and reproduction.

107A–107B. Machine Shop. (3–3) Yr. Mr. Showman, Mr. Larson
Prerequisite: course 17; no prerequisite for graduate students on consent of the instructor. Fee, $3.50 a term.
Advanced machine shop practice. Layout work and use of precision instruments; machine construction and repair; principles of tool and die work; jigs and fixtures; individual projects and model making.

111. Wood Pattern Making. (3) I. Mr. Keller
Fee, $3.50.
Pattern making and foundry practice.

112. General Metal Work. (3) I. Mr. Showman
Fee, $3.50.
A study of ferrous and nonferrous metals. The use of hand tools and machines and their application to metal working. Bench work and heat treatments; forging and ornamental iron work; oxyacetylene and electric arc welding; foundry practice and metal casting.
114. Industrial Arts Electricity. (3) I. Mr. Mathews
Fee, $3.50.
Elementary electrical theory, with laboratory work in design, drawing, and construction of electrical and radio projects, particularly those suitable for teaching purposes in secondary schools.

121. Industrial Arts Woodwork. (2) II. Mr. Keller
Fee, $3.50.
Design and development of projects in wood suitable for classes in secondary schools.

135. Automotive Power Plants. (3) I. Mr. Brockway
Fee, $3.50.
Diesel and gasoline engines; principles of operation in laboratory and field; fuels and lubricants; drives and controls. Practice in taking down, assembling and adjusting. Survey of Diesel fuel systems and their operation. Approved methods of maintenance. Field trips to industrial plants.

145. Automotive Laboratory. (3) II. Mr. Brockway
Fee, $3.50.
Principles of the automobile and its adjustment. The taking down, assembly, and operation of automotive units. Diagnostic tests and measurements for mechanical condition. Study of tolerances and clearances of the various parts. Survey of fuels, lubricants and problems of automotive lubrication.

155. Automotive Service. (3) II. Mr. Brockway
Fee, $3.50.
Principles of automobile service; engines and engine reconstruction; trouble location, “tune up” methods. Automotive electrics, storage batteries and circuits. Body and fender maintenance methods.

199A–199B. Special Problems in Technical Related Subjects. (2–2) Yr. Mr. Mansfield and the Staff
Tools, materials, processes of industry, and special studies in the field of mechanic arts.

Professional Course in Method

370. Industrial Arts Education. (2) II. Mr. Mansfield
A study of the objectives, content, organization, methods, and techniques of teaching the industrial arts in the secondary schools.
MILITARY SCIENCE AND TACTICS

Charles F. Severson, Colonel, U. S. Army, Professor of Military Science and Tactics (Chairman of the Department).

Frederick A. Barker, Colonel, U. S. Army, Associate Professor of Military Science and Tactics.

Ralph E. Powell, Lieutenant Colonel, U. S. Army, Associate Professor of Military Science and Tactics.

Caesar R. Roberts, Lieutenant Colonel, U. S. Army, Associate Professor of Military Science and Tactics.

Thomas J. Cunningham, A.B., Major, U. S. Army, Instructor in Military Science and Tactics.


Frank B. Herald, A.B., Captain, U. S. Army, Instructor in Military Science and Tactics.


James F. Young, Ed.B., Captain, U. S. Army, Instructor in Military Science and Tactics.

Allan G. Benson, First Lieutenant, U. S. Army, Instructor in Military Science and Tactics.

William A. Ulyate, Band Leader.

Letters and Science List.—All undergraduate courses in this department are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

The University of California at Los Angeles does not offer a major in military science and tactics in the College of Letters and Science. At Berkeley, a combination major of military science and either (a) history and political science or (b) jurisprudence may be taken. Students wishing to satisfy the requirements for such a combination major are referred to the General Catalogue, Departments at Berkeley.

The courses in military training are those prescribed by the War Department for infantry and coast artillery units of the senior division of the Reserve Officers' Training Corps. The United States furnishes arms, equipment, uniforms, and some textbooks for the use of the students belonging to such units. An amount necessary to replace articles not returned by the students will be collected by the Cashier.

The student who is found by the Medical Examiner to be ineligible for enrollment in military science and tactics may be assigned by the Examiner to the individual gymnastics section of Physical Education for Men 3.

The primary object of establishing units of the Reserve Officers' Training Corps is to qualify students for appointment in the Officers' Reserve Corps of the United States Army. Students who complete the advanced course and who participate in such summer camps as the Secretary of War may prescribe are eligible upon graduation for appointment and commission by the President of the United States in the Officers' Reserve Corps, which is intended to furnish
Military Science and Tactics

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a great part of the commissioned personnel for the temporary forces which this nation will require in time of emergency.

The courses are divided into two groups, namely, the basic course and the advanced course, with distinctive missions as indicated below.

**Basic Course**

The purpose of this course is to produce better citizenship through sound character development, under the guidance of the Constitution of the United States.

The basic course is prescribed for all first-year and second-year under-graduates male students who are citizens of the United States, able-bodied and under twenty-four years of age at the time of admission to the University. A first-year or second-year student claiming exemption because of non-citizenship, physical disability, or age will present a petition on the prescribed form for such exemption. Pending action on his petition the student will enroll in and enter the course prescribed for his year.

Students who have received training in a junior R. O. T. C. unit may be given advanced standing on the basis of two years junior R. O. T. C. for one year senior R. O. T. C. However, advanced standing will not excuse a student from the two years basic training required by the University unless he elects to take the advanced course, in which event junior R. O. T. C. credit to the extent 1½ years senior R. O. T. C. credit may be given. Application for advanced standing must be made when registering and must be accompanied by a recommendation from the professor of military science and tactics at the school which the student attended.

1A–1B. Basic Military Training. (1½–1½) Yr. Mr. Herald, Mr. Valentine

Two hours of field instruction and one hour of class instruction each week.

Instruction in National Defense Act. Obligations of citizenship, military history and policy, current international situation, military courtesy, military hygiene and first aid, map reading, military organization, rifle marksmanship, primary instruction in Coast Artillery ammunition, weapons and material, and leadership to include the duties of a private.

2A–2B. Basic Military Training. (1½–1½) Yr. Mr. Hedrick, Mr. King, Mr. Valentine, Mr. Benson

Two hours of field instruction and one hour of class instruction each week.

Instruction in characteristics of infantry weapons, automatic rifle, musketry, scouting and patrolling, combat principles of the squad; primary Coast Artillery instruction in position finding for sea coast and antiaircraft artillery; leadership to include the duties of a corporal.

**Military Band and Drum and Bugle Corps**

Students who play musical instruments suitable for use in the Military Band or in the Drum and Bugle Corps may take such work under the appropriate sections of courses 1A–1B, 2A–2B.

**Advanced Course**

The purpose of this course is to select and appoint qualified graduates in the Officers’ Reserve Corps of the United States Army.

The advanced course is prescribed for such third-year and fourth-year students as have completed the basic course and elect to continue their military training.
Any member of the senior division of the Reserve Officers' Training Corps who has completed two academic years of service in that division, who has been selected for further military training by authority of the President of the University and the professor of military science and tactics, and who executes the following written agreement, will be entitled, while not subsisted in kind, to a commutation of subsistence fixed by the Secretary of War in accordance with law (about $72 a year):

In consideration of commutation of subsistence to be furnished in accordance with law, I hereby agree to complete the advanced course Infantry (Coast Artillery) R. O. T. C. in this or any other institution where such course is given, to devote five hours per week during such period to military training prescribed and to pursue the courses of camp training during such period as prescribed by the Secretary of War.

The course of camp training is for six weeks during the summer vacation normally following the student's completion of the first year of the advanced course. The United States furnishes uniform, transportation and subsistence and pays students at the rate of $1.00 per day. Students who attend receive one-half unit of credit for each week of the duration of the camp.

Cadet officers and, so far as practicable, sergeants of the unit, will be appointed from members of the senior and junior classes, respectively.

103A. Advanced Infantry Training. (3) I, II. Mr. Powell, Mr. Young
†Instruction and practice in the duties of officers in connection with the basic course; instruction in pistol and rifle marksmanship, machine gun and howitzer company weapons, aerial photographs, map reading, motors, company administration, and leadership to include duties of the platoon sergeant.

103B. Advanced Infantry Training. (3) I, II. Mr. Powell, Mr. Valentine
†Instruction and practice in the duties of officers in connection with the basic course; combat principles of howitzer company squads, combat principles of machine gun and rifle platoon; field fortification, defense against chemical warfare, and leadership to include duties of the company officer.

104A. Advanced Infantry Training. (3) I, II. Mr. Cunningham
†Instruction and practice in the duties of officers in connection with the basic course; instruction in military history and military law, tanks, mechanization, anti-tank weapons, property procurement, and combat leadership to include duties of company officers and battalion staff.

104B. Advanced Infantry Training. (3) I, II. Mr. Barker
†Instruction and practice in the duties of officers in connection with the basic course, instruction in combat principles to include rifle and machine gun company and howitzer platoon, tanks and mechanization, infantry field signal communications, infantry antiaircraft tactics, and leadership to include duties of company officers and battalion staff.

105A–105B. Practical Tactics. (1–1) Yr.
† Each student must enroll for two hours of field instruction and three hours of class instruction each week.
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143A. Advanced Coast Artillery Training. (3) II. Mr. King

†Instruction and practice in the duties of an officer in connection with the basic course; instruction in basic gunnery and position finding for sea coast artillery, map reading, aerial photographs, and leadership to include duties of platoon sergeant.

143B. Advanced Coast Artillery Training. (3) I. Mr. King

†Instruction and practice in the duties of an officer in connection with the basic course; instruction in basic gunnery and position finding for antiaircraft artillery, orientation, signal communication, Coast Artillery, and leadership to include duties of the battery officer.

144A. Advanced Coast Artillery Training. (3) II. Mr. Roberts

†Instruction and practice in the duties of an officer in connection with the basic course; instruction in military history, military law, battery administration and supply, artillery material, and leadership to include duties of battery officers and battalion staff.

144B. Advanced Coast Artillery Training. (3) I. Mr. Roberts

†Instruction and practice in the duties of an officer in connection with the basic course; instruction in motor transportation, Coast Artillery tactics and combat orders; field engineering, defense against chemical warfare, and leadership to include duties of battery officers and battalion staff.

145A–145B. Practical Tactics. (1–1) Yr.

SUMMER CAMPS

Students who satisfactorily complete a course in a Reserve Officers' Training Corps or a military training summer camp conducted by the United States Government may receive credit toward graduation at the rate of one-half unit a week for each course completed. But it is provided (a) that no credit thus earned in or after 1925 shall excuse a student from the courses in military science and tactics required of all male undergraduates during their freshman and sophomore years, and (b) that the total credit thus earned by any student shall not exceed six units.

† Each student must enroll for two hours of field instruction and three hours of class instruction each week.
Music

MUSIC

GEORGE STEWART MCMANUS, Mus.Doc., Professor of Music and University Organist.

ARNOLD SCHOENBERG, Professor of Music.

LEBOY W. ALLEN, M.A., Associate Professor of Music (Chairman of the Department).

LAURENCE A. PETRAN, Mus.M., Ph.D., Visiting Associate Professor of Music.

FRANCES WRIGHT, Associate Professor of Music.

ROBERT U. NELSON, M.A., Assistant Professor of Music.

WALTER H. RUBSAMEN, Ph.D., Assistant Professor of Music.

SQUIRE COOP, Lecturer in Music.

RAYMOND MOREMEN, M.S.M., Lecturer in Music.

Helen Chute Dill, M.A., Supervisor of Training, Music.

Laverna L. Lossing, M.A., Supervisor of Training, Music.

The student may select a major in music in either the College of Letters and Science or in the College of Applied Arts; these majors lead to the degree of Bachelor of Arts in both instances. For information concerning teaching credentials consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

College of Letters and Science


Preparation for the Major.—Courses 1A–1B, 2A–2B, 14A–14B, 35A–35B. Recommended: a reading knowledge of French, German, Italian, or Spanish, Physics 10A–10B, and some ability in piano playing.

The Major.—Twenty-four units of upper division courses, including (a) course 104A–104B; (b) 6 units chosen from courses 111A–111B, 124, 125, 126, 127, 128, 129, 130, 131, 142, 151, 199, sec. 2; and (c) 14 units chosen from courses 105A–105B, 106A–106B, 109A–109B, 114A–114B, 122A–122B, 199, sec. 1, and courses under (b) not duplicated. By arrangement with the department, four units chosen from courses 110A–110B, 116A–116B, and 117A–117B may be substituted for four units under (c).

College of Applied Arts

Two curricula are available:

A. For the bachelor's degree alone.

Preparation for the Major.—Courses 1A–1B, 2A–2B, 14A–14B, 35A–35B. Recommended: a reading knowledge of French, German, Italian, or Spanish, Physics 10A–10B, and some ability in piano playing.

The Major.—Thirty-six units of upper division courses, including (a) course 104A–104B; (b) 6 units chosen from courses 111A–111B, 124, 125, 126, 127, 128, 129, 130, 131, 142, 151, 199, sec. 2; and (c) 26 units chosen from upper
division courses in music, with the exception of courses 108A–108B and 115A–115B. Six to 8 units of upper division courses in related fields will be accepted upon departmental approval.

B. For the bachelor's degree leading to the special secondary teaching credential. This curriculum meets the departmental requirements for admission to the graduate courses leading to the general secondary credential.

Preparation for the Major.—Courses 1A–1B, 2A–2B, 7A–7B, 14A–14B, 35A–35B. Recommended: a reading knowledge of French, German, or Italian, Physics 10A–10B, and some ability in piano playing.

The Major.—Courses 104A–104B, 105A–105B, 108A–108B, 109A–109B, 115A–115B; 6 units chosen from courses 111A–111B, 124, 125, 126, 127, 128, 129, 130, 131, 142, 151, 199, sec. 2; together with 12 additional units in upper division courses in music. Six to 8 units in related fields will be accepted upon departmental approval.

The Minor in Music.—Twenty units of coördinated courses, 6 of which must be in the upper division.


An acceptable minor with emphasis upon administration and direction of bands and orchestras consists of courses 1A–1B, 35A–35B, together with not more than 2 other lower division units chosen from courses 26A–26B, 27A–27B, and 46A–B–C–D. The upper division courses consist of 109A–109B and 114A–114B.

Graduate Division

A. Requirements for the General Secondary Credential.—Consult the Announcement of the School of Education, Los Angeles.

B. Requirements for Admission to Graduate Courses.—

1. As a candidate for the general secondary credential: Ordinarily the undergraduate major in music, or its equivalent, including courses 104A–104B, 105A–105B, 108A–108B, 109A–109B, 115A–115B, and 6 upper division units chosen from courses 111A–111B, 124, 125, 126, 127, 128, 129, 130, 131, 142, 199, sec. 2. It is recommended that course 370B be taken in the senior year, as it is prerequisite to Education G377.

2. As a candidate for the Master's degree: Ordinarily the undergraduate major of 24 upper division units of music, with the exception of courses 108A–108B and 115A–115B.

C. Requirements for the Master's degree.—For the general requirements, see page 106. The Department of Music favors the Thesis Plan.

Lower Division Courses

1A–1B. Solfège. (3–3) Beginning either term. Miss Wright
Elementary theory, dictation, and music reading. Basic course for the major in music.

2A–2B. The History and Appreciation of Music. (2–2) Yr. Mr. McManus
The consideration of music from formal, aesthetic, and historical stand-points.
7A–7B. Elementary Voice. (2–2) Yr. Mr. Moremen
Restricted to music majors working toward the special secondary and
the general secondary teaching credentials.

9A–B–C–D. Chorus and Glee Club. (1 unit each term.) Mr. Moremen

10A–B–C–D. University Symphony Orchestra. (2 units each term.)
Prerequisite: the consent of the instructor. Mr. Allen
The study and performance of standard symphonic literature.

11A–B–C–D. A Cappella Choir. (2 units each term.) Mr. Moremen
Prerequisite: the consent of the instructor.
The study and performance of standard choral works for unaccompa-
nied voices.

14A–14B. Counterpoint. (2–2) Yr. Mr. Nelson
Prerequisite: course 35A–35B.

*26A–26B. Brass, Intermediate. (2–2) Yr. Mr. Allen
Prerequisite: the consent of the instructor.
Technical studies, ensemble playing, and repertoire for brass wind in-
struments.

27A–27B. Woodwind, Intermediate. (2–2) Yr. Mr. Rubsamen
Prerequisite: the consent of the instructor.
Technical studies, ensemble playing, and repertoire for woodwind instru-
ments.

35A–35B. Harmony. (3–3) Yr. Mr. Nelson, Mr. Petran
Prerequisite: course 1A–1B or its equivalent; may be taken concurrently
with 1A–1B with the consent of the instructor.

37A–37B. Piano, Intermediate. (2–2) Yr. Mr. Coop

46A–B–C–D. University Band. (1 unit each term.) Mr. Allen
Prerequisite: the consent of the instructor.

UPPER DIVISION COURSES

The piano requirement for music majors, prerequisite to junior standing, is
the ability to play such music as the accompaniments in the Teacher’s Manuals
of the Music Hour Series and the Progressive Series, four-part hymns and folk
songs, and contrapuntal compositions equivalent to First Lessons in Bach;
edited by Walter Carroll. In special cases this requirement may be reduced for
students with corresponding proficiency on other approved instruments.

104A–104B. Form and Analysis. (2–2) Yr. Mr. Schoenberg
Prerequisite: course 35A–35B.
Analysis of homophonic and contrapuntal music.

105A–105B. Composition. (2–2) Yr. Mr. Schoenberg, Mr. Nelson
Prerequisite: courses 14A–14B, 35A–35B, 104A–104B, and the consent
of the instructor; 104A–104B may be taken concurrently.
Vocal and instrumental compositions in the smaller forms.

* To be given spring term only, 1942–1943.
106A–106B. Structural Functions of Harmony. (2–2) Yr. Mr. Schoenberg
Prerequisite: courses 35A–35B, 104A–104B (may be taken concurrently).
The application of harmonic progressions to form and composition.

108A–108B. Advanced Voice. (2–2) Yr. Mr. Moremen
Prerequisite: course 7A–7B. Restricted to music majors working toward
the special secondary and the general secondary credentials.

109A–109B. Conducting. (1–1) Yr. Mr. Allen
Prerequisite: courses 1A–1B; 35A–35B, or the consent of the instructor.
The theory and practice of conducting choral and instrumental organi-
zations.

110A–110B. Chamber Music Ensemble. (2–2) Yr. Mr. McManus
Prerequisite: the consent of the instructor.
The study and interpretation of chamber music literature.

111A–111B. History of Music in Western Civilization. (3–3) Yr. Mr. Rubsamen
Prerequisite: courses 2A–2B, 35A–35B, or their equivalent.
The stylistic development of music with a background of its relationship
to other arts and to culture in general.

114A–114B. Instrumentation. (2–2) Yr. Mr. Allen
Prerequisite: course 35A–35B.
The theory and practice of writing for instrumental ensembles. The
study of orchestral scores and an introduction to symphonic orchestration.

115A–115B. Instrumental Technique and Repertoire. (2–2) Yr. Mr. Allen
Prerequisite: course 35A–35B. Restricted to music majors working toward
the special secondary and the general secondary credentials.
A theoretical and practical study of the instruments of the orchestra and
band, including the principles of arranging music for representative com-
binations. Appropriate literature for instrumental ensembles.

116A–116B. Piano, Advanced. (2–2) Yr. Mr. McManus
Prerequisite: the consent of the instructor.

117A–117B. Madrigal Choir. (2–2) Yr. Mr. Moremen
Prerequisite: the consent of the instructor.
The study and performance of significant music of the madrigal school.

119A–119B. Wind Instrument Ensemble. (2–2) Yr.
Prerequisite: the consent of the instructor. Mr. Allen, Mr. Rubsamen

122A–122B. Advanced Counterpoint. (2–2) Yr. Mr. Schoenberg
Prerequisite: course 14A–14B, and the consent of the instructor.
Invertible counterpoint, choral prelude and fugue.

124. Bach. (2) I.
Prerequisite: courses 2A–2B, 35A–35B.

* Not to be given, 1942–1943.
125. Beethoven. (2) I.
Prerequisite: courses 2A–2B, 35A–35B.
Mr. Rubsamen

126. The History of the Sonata. (2) I.
Prerequisite: courses 2A–2B, 35A–35B.
The development of the sonata from its beginnings to the close of the
romantic period.
Mr. Nelson

127. The History of the Opera. (2) II.
Prerequisite: courses 2A–2B, 35A–35B.
A survey of operatic music from its inception to the present day.
Mr. Rubsamen

128. Modern Tendencies in Music. (2) II.
Prerequisite: courses 14A–14B, 35A–35B.
A study of form, style, and idiom in contemporary music.
Mr. Nelson

129. The Romantic Symphony. (2) II.
Prerequisite: courses 2A–2B, 35A–35B.
A study of symphonic works of the romantic period.
Mr. Rubsamen

130. History and Literature of Church Music. (2) II.
Prerequisite: courses 2A–2B, 35A–35B.
A study of the history and development of church music, including wor-
ship forms and liturgies.
Mr. Moremen

131. Oratorio Literature. (2) I, II.
Prerequisite: courses 2A–2B, 35A–35B.
A survey of oratorio music from its inception until the present day.
Mr. Coop

132. History of Music in America. (2) I.
Prerequisite: course 2A–2B or its equivalent.
Mr. McManus

A survey of music in the United States from the colonial period to the
present day.

144. Community Music. (2) I.
Prerequisite: course 1A–1B or its equivalent. Recommended: some ability
in the playing of an instrument, preferably the piano.
Mr. Allen and the Staff

A course designed for prospective leaders and organizers of group music
activities in national defense. A study of appropriate song and instrumental
material; elements of conducting; organization of choruses, glee clubs, and
instrumental ensembles (formal and informal); presenting entertainments
and concerts; music opportunities in camps, industrial plants, institutions,
and communities; contests in performance, listening, and composition; oppor-
tunities for recorded music.

151. Music for the Theater. (2) I.
Prerequisite: course 2A–2B or its equivalent.
Mr. Rubsamen

The history of theatrical music; the relation of music in general to periods
of theatrical presentation. Music as a factor of design in theater, radio, and
cinema.

199. Special Studies in Music. (2) I, II.
Prerequisite: the consent of the instructor.
Mr. Schoenberg, Mr. Rubsamen

* Not to be given, 1942–1943.
**Music**

**GRADUATE COURSES**

*201A–201B. Advanced Composition. (3–3) Yr.  Mr. Schoenberg*

205. History of Pianoforte Style. (2) II.  Mr. McManus

207. The Variation Forms. (2) I.  Mr. Nelson
   Prerequisite: courses 105A–105B and 111A–111B or their equivalents.

253A–253B. Seminar in Musicology. (3–3) Yr.  Mr. Rubsamen
   Prerequisite: course 111A–111B or the equivalent.

261. Special Studies for Composers. Seminar. (2) I.  Mr. Schoenberg

**PROFESSIONAL COURSES IN METHOD**

330. Elementary Music Education. (3) I, II.  Mrs. Dill, Miss Lossing
   Prerequisite: sophomore standing and course 1A or its equivalent. Required of candidates for the general elementary credential.
   A course in music education for the general elementary teacher. A professionalized subject-matter course to equip the student to teach in the modern school.

370A–370B. Music Education. (3–3) Yr.  Miss Wright
   Prerequisite: junior standing. Course 370B is required of candidates for the general secondary credential with music as a major.
   Organization and administration of music in secondary schools.

**RELATED COURSE IN ANOTHER DEPARTMENT**

Psychology 172A–172B. Psychology of Music. (3–3) Yr.  Mr. Petran

* Not to be given, 1942–1943.
NAVAL SCIENCE AND TACTICS

WILLIAM C. BARKES, Captain, U. S. N.; Graduate U. S. Naval Academy; Graduate U. S. Naval War College; Graduate U. S. Naval Academy Postgraduate Course; Professor of Naval Science and Tactics (Chairman of the Department).

JOSEPH H. CHADWICK, Commander, U. S. N.; Graduate U. S. Naval Academy; Associate Professor of Naval Science and Tactics.

JOHN A. MARSH, Lieutenant Commander, U. S. N.; Graduate U. S. Naval Academy; Associate Professor of Naval Science and Tactics.

PHILIP W. WARREN, Lieutenant Commander, U. S. N.; Graduate U. S. Naval Academy; Associate Professor of Naval Science and Tactics.

ROBERTSON J. WEEKS, Lieutenant Commander, U. S. N.; Graduate U. S. Naval Academy; Associate Professor of Naval Science and Tactics.

ALLEN W. MOORE, Lieutenant, U. S. N.; Graduate U. S. Naval Academy; Assistant Professor of Naval Science and Tactics.


THAYER L. J Orris, Ch.Spec. (A) U. S. N. R., Assistant in Naval Science and Tactics.


Letters and Science List.—All undergraduate courses in this department are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

NAVAL RESERVE OFFICERS' TRAINING CORPS

By action of the Secretary of the Navy and of the Regents of the University in June, 1938, provision was made for the establishment of a unit of the Naval Reserve Officers' Training Corps on the Los Angeles campus of the University.

The primary object of the Naval Reserve Officers' Training Corps is to provide at civil institutions systematic instruction and training which will qualify selected students of such institutions for appointment as officers in the Naval Reserve. The Naval Reserve Officers' Training Corps is expected to train junior officers for the Naval Reserve and thus assist in meeting a demand for increased commissioned personnel in time of war or national emergency.

Courses in naval science are given for those who intend to complete the four years of training for a commission in the Naval Reserve. While only students signifying such a purpose will be admitted, students who for sufficient reasons are forced to discontinue their training before their commission is granted, will be permitted, at the end of two years, to count such training in lieu of the military training prescribed by the University. All courses in naval science described hereinafter include infantry drill or other practical drill for two hours weekly for all Naval R. O. T. C. students.

Enrollment is restricted to able-bodied male students who are citizens of the United States and are between the ages of fourteen and twenty-four years. Students must pass the same physical examination as is required of all candidates for admission to the Naval Academy.

The courses in navigation, seamanship, communications, naval history, ordnance and gunnery, naval aviation, military law, naval administration,
Naval Science and Tactics

and mechanical and electrical engineering are those prescribed by the Navy Department for the Naval Reserve Officers' Training Corps. The United States furnishes arms, equipment, uniforms, and textbooks for the use of these students. At the end of each academic year the Department of Naval Science and Tactics will set a date for the return of equipment. The names of students who fail to return equipment issued to them will be reported to the Business Manager in order that appropriate action may be taken by the University authorities. Upon satisfactory completion of the course the uniform becomes the property of the student.

The basic course (lower division) consists of the first two years in the Department of Naval Science and Tactics and is open only to freshmen and sophomores of the University.

The advanced course (upper division) consists of the final two years in Naval Science and Tactics or of such shorter periods of time as may, in exceptional cases, outlined in the regulations, be prescribed by the Secretary of the Navy. The advanced course is open only to students who have successfully completed the basic course, and who have been selected by the Professor of Naval Science and Tactics for upper division work.

A member of the Naval Reserve Officers' Training Corps who is enrolled in the advanced course is entitled to commutation of subsistence from the first day during an academic term that the student starts the advanced course in training until he completes the course at the institution or his connection with the Naval Reserve Officers' Training Corps is severed in accordance with the regulations prescribed, except that subsistence in kind will be furnished in lieu of commutation of subsistence for any periods devoted to cruises. The amount allowed for subsistence, which will be fixed from time to time by the Secretary of the Navy, will not exceed the value prescribed by law for a commuted ration in the Navy. Naval Reserve Officers' Training Corps practice cruises will be held annually as prescribed by the Navy Department. Attendance at one advanced course cruise is required by all students enrolled in the advanced course. Advanced course students receive the pay of enlisted men of the seventh pay grade of the Navy during their attendance on cruises.

Basic course students may be authorized to attend cruises but while so doing will not receive pay unless enlisted in Class V-1, in which case they receive the same pay as advanced course students. All Naval Reserve students attending cruises are furnished transportation and subsistence by the United States.

Credit may be allowed for courses completed in summer practice cruises at the rate of one-half unit per week for each course so completed; the maximum credit obtainable is six units.

Lower Division Courses*

First Year

1A. Indoctrination. (1) I.
Mr. Warren, Mr. Moore
Pertinent information regarding naval customs and usage; the rudiments of naval discipline; elementary information regarding ships and ships' boats.

1B. Seamanship. (1) II.
Mr. Warren
Types of ships, the hull and fittings of a ship, ground tackle, docking, mooring, elementary ship handling, station keeping and maneuvering.

* Two hours of drill or practical exercises weekly are required of all lower division students in the unit.
2A-2B. Ordnance. (1-1) Yr. Mr. Moore
Practical and theoretical use of small arms; elementary principles of gun construction and of the manufacture and use of explosives and projectiles.

3. Naval History. (1) I. Mr. Moore
The history of the United States Navy from 1775 to the present time.

4. Communications. (1) II. Mr. Moore, Mr. Marsh
Visual signal methods and procedure, flags, Morse code and semaphore.

Second Year

10. Navigation and Piloting. (2) II. Mr. Weeks in charge
Lectures and practical work, two hours. Prerequisite: trigonometry.
Introduction to practical navigation, the compass, the sailings, lines of position, piloting, chart work.

11A-11B. Seamanship. (1-1) Yr. Mr. Warren
Weather and the laws of storms; handling of ships within the storm area; ocean currents and icebergs; rules for preventing collisions at sea; advanced ship handling; naval leadership.

12. Ordnance. (1) I. Mr. Chadwick, Mr. Moore
Details of naval guns, sights and mounts, ammunition details, manufacture, proof, and use of armor, chemical warfare, and safety precautions.

15. Electricity. (1) I. Mr. Marsh
Electromagnetism, storage batteries, generators, motors, and shipboard electrical applications.

Upper Division Courses*

The general prerequisites for admission to the upper division courses are: completion of two years training in the basic course, selection for further training, and execution of an agreement in writing as explained in the following paragraph:

Any student enrolled in the advanced course of the Naval Reserve Officers' Training Corps who has completed the two academic years in the basic course and who has been selected for further naval training by the President of the University and the professor of naval science and tactics, and who executes the following written agreement, will be entitled, while not subsisted in kind, to the commutation of subsistence fixed by the Secretary of the Navy in accordance with law:

CONTRACT

In consideration of commutation of subsistence to be furnished in accordance with law, I hereby agree:

First, to continue training in the Advanced Course of the Naval Reserve Officers' Training Corps until the completion thereof as a prerequisite to graduation unless sooner discharged by orders of the Bureau of Navigation, Navy Department;

Second, to devote to naval training the number of hours per academic week prescribed for the Advanced Course in the Department of Naval Science and Tactics by the current annual catalogue of this educational institution, and to devote five hours per week, when prescribed, to such naval training as is ordered;

* Two hours of drill or practical exercises weekly are required of all upper division students in the unit.
Third, to participate in one Advanced Course cruise;
Fourth, to be immunized to typhoid fever and smallpox when and as directed
to do so by the Professor of Naval Science and Tactics unless satisfactory proof
of immunity from these diseases is furnished;
Fifth, near the completion of this course to apply for and accept a commission
in the Naval or Marine Corps Reserve, if such be offered, and I consider it a
moral obligation on my part to apply for and accept such commission under the
conditions so stated.

Qualified graduates of the Naval Reserve Officers' Training Corps will on
their application be appointed as ensigns in the Volunteer Naval Reserve
without professional entrance examination. After one year's active service in
the Fleet they may become eligible for a commission in the regular Navy.

Third Year

100A–100B. Navigation and Nautical Astronomy. (3–3) Yr.
Mr. Weeks, Mr. Chadwick, Mr. Marsh
Lectures two hours weekly; classroom practical work two hours biweekly;
sextant field work as directed. Prerequisite: course 10.
Nautical astronomy, circles of equal altitude, sextant and chronometer,
computed altitude and azimuth, time, nautical and air almanacs, latitude,
practical observations of heavenly bodies, day's work, tides and currents,
maneuvering board.

102. Gunnery. (1) I. Mr. Chadwick
Elementary principles of naval gunnery training and fire control, methods
and means of firing, range finding and range keeping; the fire control problem
as applied to different types of ships.

104. Communications. (1) II. Mr. Marsh
Organization and operation of the Naval Communication Service.

Fourth Year

110. Aviation. (1) II. Mr. Weeks, Mr. Moore
Mission and history of naval aviation, types and uses of naval aircraft,
aircraft carriers, aircraft engines and instruments, aerial navigation.

111. Seamanship and Tactics. (1) II. Mr. Chadwick, Mr. Marsh
Ship handling, tactical communications, piloting.

112. Gunnery. (1) II. Mr. Chadwick
Torpedo and anti-aircraft control; submarine mines and depth charges;
offensive and defensive tactics; elementary exterior ballistics.

113A–113B. Administration. (1–1) Yr. Mr. Barker
Naval policy and administration, naval organization ashore and afloat,
Navy regulations, discipline, Naval Reserve regulations, international law.

114. Military Law. (1) I. Mr. Marsh
Naval law, military government and martial law, rules of evidence,
procedure of naval courts and boards.

115. Engineering. (2) I. Mr. Warren
Boilers and turbines, type installations, diesel engines, evaporating
and distilling plants, engineering plant management and operation.
OCEANOGRAPHY

*G. F. McEwen, Ph.D., Professor and Curator of Physical Oceanography.
Francis B. Sumner, Ph.D., Professor of Biology.
Harald U. Sverdrup, Ph.D., Professor of Oceanography and Director of the Scripps Institution of Oceanography.
William E. Ritter, Ph.D., LL.D., Professor of Zoology, Emeritus.
Thomas Wayland Vaughan, Ph.D., LL.D., Professor of Oceanography and Director of the Scripps Institution of Oceanography, Emeritus.
Denis L. Fox, Ph.D., Associate Professor of Marine Biochemistry.
Claude E. ZoBell, Ph.D., Associate Professor of Marine Microbiology.
Winfred E. Allen, M.A., Assistant Professor of Biology.

*Richard H. Fleming, Ph.D., Assistant Professor of Oceanography.

*Martin W. Johnson, Ph.D., Assistant Professor of Marine Biology.

*Erik G. Moberg, Ph.D., Assistant Professor of Oceanography.

*Roger R. Reveille, Ph.D., Assistant Professor of Oceanography.

Marston C. Sargent, Ph.D., Instructor in Oceanography.

Percy S. Barnhart, M.S., Associate in Oceanography and Curator of the Biological Collection.

Stanley W. Chambers, Associate in Physical Oceanography.

John Frederick Wohhus, Ph.D., Associate in Oceanography.

The courses in oceanography are given at the Scripps Institution of Oceanography at La Jolla, California. For further information concerning the Institution write to the Director.

Advanced degrees.—Work leading to the master's or Ph.D. degree in oceanography and certain other marine sciences is offered to a limited number of qualified students subject to the rules and regulations of the University as set forth in the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION. The student must be well trained in the fundamentals before coming to La Jolla. Usually at least two terms of resident work at Los Angeles or Berkeley will be required of prospective candidates for the doctor's degree, and at least one term for the master's degree.

Preliminary requirements for a degree in Oceanography.—(a) completion of a baccalaureate major in one of the sciences upon which oceanography is based, viz.: chemistry, geology, mathematics, meteorology, physics or one of the biological sciences; (b) a reading knowledge of German and French; (c) Mathematics 3A-3B (6); (d) Chemistry 1A-1B (10); (e) Physics 2A-2B (8); (f) course 101 (3); (g) basic courses in one or more of the biological sciences (8). Preparation in physical chemistry, organic chemistry, integral calculus, and geology is recommended.

In addition to these preliminary requirements the student is required to complete at least 2 units of work in each of four marine sciences besides the research work in his special field.

Requirements for an advanced degree in other fields of study.—Through a cooperative arrangement with other departments of the University, a student

* Absent on leave, 1942-1943.

* In residence spring term only, 1942-1943.
may do his research work in certain fields of study closely related to oceanography; i.e., biochemistry, physicochemical biology, geological sciences, microbiology, comparative physiology, and zoology. The preliminary requirements are the same as those listed under the corresponding departments or fields of study in this catalogue and in the Announcement of the Graduate Division, Southern Section. In addition the student is required to complete at least 2 units of work in each of three marine sciences besides course 101 and the work done in his special field. The credentials and proposed study program of the student must be approved by the chairman of the proper department or field of study, the Dean of the Graduate Division, Southern Section, and the Director of the Scripps Institution.

Any department of the University is invited to send its students to the Scripps Institution for special work. Ordinarily the department sending students will be responsible for the direction of the work but arrangements can be made for such students to work under the joint direction of the department and the staff of the Institution. Such students may register in one or more of the marine sciences at the Institution or they may register for some other subject in some other department of the University.

Students may not undertake graduate work at the Scripps Institution without approval in advance from the Dean of the Graduate Division, Southern Section.

**Upper Division Courses**

101. General Oceanography. (3) I, II. Mr. Sverdrup and the Staff
A survey of the knowledge of oceanic topography; bottom sediments; chemical constituents and physical properties of the water; circulation and tides; interaction between the sea and the atmosphere; marine fauna and flora, their interrelationship with each other and with the chemical and physical factors of the environment; methods of observation and their interpretation.

199A-199B. Special Studies in Marine Sciences. (2-4; 2-4) Yr.
The Staff (Mr. Sverdrup in charge)
Introduction to the research problems, experimental methods and literature of the different marine sciences listed below. Open to advanced students by special arrangement with the chairman of the division in which the work is to be done, subject to the approval of the Director of the Institution.

**Graduate Courses**

250A-250B. Seminar in Oceanography. (1-1) Yr.
Mr. Sverdrup and the Staff

**Research Courses**

The following are primarily research courses in the different aspects of oceanography. Besides the special prerequisites for each course, information concerning which may be had upon application, the student must submit to the instructor in charge satisfactory evidence of preparation for the work proposed, including the completion of at least 12 units of upper division work basic to the subject of the course. Any of the courses listed may be entered in the spring term.

281A-281B. Physical Oceanography. (2-4; 2-4) Yr.
Mr. Sverdrup, Mr. McEwen
A study of the physical properties of sea water, oceanic circulation and its causes.
282A–282B. Marine Meteorology. (2-4; 2-4) Yr. Mr. Sverdrup, Mr. McEwen
Interrelations between the circulation of the oceans and that of the atmosphere.

284A–284B. Chemical Oceanography. (2-4; 2-4) Yr. Mr. Moberg
Chemistry applied to the study of sea water, plankton and other marine materials.

285A–285B. Marine Microbiology. (2-4; 2-4) Yr. Mr. ZoBell
The study of bacteria and closely related microorganisms in the sea, with particular reference to the effect of their activities upon chemical, physicochemical, geological, and biological conditions.

286A–286B. Phytoplankton. (2-4; 2-4) Yr. Mr. Allen, Mr. Sargent
Qualitative and quantitative studies of marine phytoplankton.

287A–287B. Marine Invertebrates. (2-4; 2-4) Yr. Mr. Johnson
The production, distribution, and classification of zooplankton organisms, and their biological relationship to benthic life and to the fisheries.

288A–288B. Marine Biochemistry. (2-4; 2-4) Yr. Mr. Fox
Comparative biochemistry of marine animals; biochemical relationships between marine organisms and certain environmental factors.

289A–289B. Biology of Fishes. (2-4; 2-4) Yr. Mr. Sumner
The ecology and physiology of fishes with special reference to problems of adaptation to specific factors of marine environment.

290A–290B. Comparative Physiology. (2-4; 2-4) Yr. Mr. Fox
Studies of various physiological functions with special reference to evolutionary position and environmental factors.

291A–291B. Physiology of Algae. (2-4; 2-4) Yr. Mr. Sargent
Biochemistry, physiology, and ecology of the algae, with special attention to the lower algae important in the economy of the sea.

**Related Course in Another Department**

Meteorology 103. Interaction between the Sea and the Atmosphere. (1) I.
Given on the Los Angeles campus. Mr. Sverdrup
Philosophy

PHILOSOPHY

WILLIAM P. MONTAGUE, Ph.D., Flint Professor of Philosophy.
DONALD A. PIATT, Ph.D., Professor of Philosophy.
HANS REICHENBACH, Ph.D., Professor of Philosophy.
JOHN ELOF BOODIN, Ph.D., Professor of Philosophy, Emeritus.
ERNST C. MOORE, Ph.D., LL.D., Professor of Philosophy and Education, Emeritus.
CHARLES H. RIEBET, Ph.D., LL.D., Professor of Philosophy, Emeritus.
HUGH MILLER, Ph.D., Associate Professor of Philosophy (Chairman of the Department).
RICHARD B. O’R. HOCKING, Ph.D., Assistant Professor of Philosophy.
J. WESLEY ROBSON, Ph.D., Assistant Professor of Philosophy.
ABRAHAM KAPLAN, Ph.D., Instructor in Philosophy.

PAUL FRIEDLÄNDER, Ph.D., Lecturer in Classics.

Letters and Science List.—All undergraduate courses in this department are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Twelve units of lower division courses in philosophy, including courses 20, 21.

The Major.—Twenty-four units in upper division courses, 6 of which may be in related courses in other departments with the approval of the departmental adviser. At the beginning of the senior year, the student must submit for approval to the department a statement of the courses which he expects to offer in fulfillment of major requirements for graduation.

LOWER DIVISION COURSES

All lower division courses are introductory and carry no prerequisite.

2A–2B. Introduction to Philosophy. (3–3) Yr.
Mr. Hocking, Mr. Piatt, Mr. Kaplan

Introducing the student to the subject-matter of philosophy and its interrelations with practical life. Attention is focused on the nature of the basic problems and values of our time, illustrated by a discussion of the leading philosophies of the past and present.

4. Short Introduction to Philosophy. (3) I, II. Mr. Kaplan, Mr. Montague

Not open for credit to students who have completed 2A.

This course acquaints the student with the vocabulary, subject-matter, and chief types of philosophy.

5. Problems of Ethics and Religion. (2) II.
Mr. Hocking

Human conduct, its rules and natural law; the moral basis of institutions, with special reference to property, the family, and the state; religion and the moral order.
20. History of Greek Philosophy. (3) I, II. Mr. Miller, Mr. Robson
The beginnings of Greek science and philosophy; Socrates, Plato, and Aristotle; Greek philosophies in the Roman world; the development of Christian philosophy.

21. History of Modern Philosophy. (3) I, II. Mr. Robson, Mr. Miller
The Renaissance, Reformation, and rise of modern science; rationalism in Descartes, Spinoza, Leibniz; empirical philosophy in Locke, Berkeley, Hume; Kant and his successors (Hegel, Marx, Schopenhauer); recent movements.

22. Deductive Logic. (3) I, II. Mr. Reichenbach, Mr. Kaplan
The elements of formal logic; Aristotle's logic; modern symbolic logic. The forms of reasoning and the fallacies.

23. Inductive Logic and Scientific Method. (3) I, II. Mr. Reichenbach
Logic in use; the place of formal reasoning in science and practical life; the canons of scientific method; hypothesis and probability; statistical method.

UPPER DIVISION COURSES

Upper division courses in philosophy include: (a) General Studies (numbered 100 to 150), dealing with the principles of wide fields of inquiry such as the natural sciences, the social sciences, and the humanities; these courses are open to students who in the judgment of the instructor have adequate preparation in philosophy or in the special field under study. (b) Historical Studies (numbered 151 to 178), dealing with special periods or with individual thinkers. (c) Systematic Studies (numbered 180 to 198), pursuing a more rigorous analysis of the logical foundations of mathematics, science, and philosophy. Course 199A-199B is an individual problem course, available to exceptional students whose special studies are not included in the above curriculum.

100. The Development of Modern Thought. (2) I. Mr. Miller
Not open for credit to students who have completed 21.
A brief study of the major movements of modern thought from the Renaissance to the present, with special attention to the developments and interrelations of science and political practice.

101. Living Philosophies. (1) I. Mr. Miller in charge
A series of lectures: Plato, Aristotle, Aquinas, Bacon, Descartes, Hume, Kant, Hegel, J. S. Mill, Nietzsche, Bergson, Royce, James, Dewey.

104A. Ethics. (3) I. Mr. Piatt
Morality in theory and practice: the history and development of ethical theory.

104B. Ethics. (3) II. Mr. Piatt
Morality in theory and practice: the critical application of ethical theory to contemporary civilization, with special reference to economical and political life.

110. Cosmology. (2) II. Mr. Montague

* Not to be given, 1942-1943.
112. Philosophy of Religion. (3) I.  Mr. Hocking
The meaning of religion and its particular problems: the existence and nature of God, human free-will, the problem of evil, the relation of church and state, the rivalry of living religions.

114. History of American Thought. (3) II.  Mr. Robson
A study of philosophical ideas which have influenced American culture from colonial times to the present.

121. Political Philosophy. (3) I.  Mr. Miller
The theory of democracy: philosophical foundations in concepts of the individual and the state and their relations; the state and society; the parallel developments of science and democracy; critique of absolutistic doctrines.

124. Nineteenth Century Philosophy. (3) II.  Mr. Hocking
A study, in terms of outstanding philosophers, of the social and scientific movements of the nineteenth century: dialectical philosophies, positivism, utilitarianism, evolution, will to power, socialism.

125. Philosophical Issues of the War. (1) II.  Mr. Miller in charge
A series of lectures on the social philosophies of the combatant nations, discussing the deeper issues involved in this struggle.

136. Esthetics. (3) I.  Mr. Kaplan
Philosophy of art and criticism: a study of esthetic value, expression, and meaning in the arts, and the nature of art criticism.

141A. Present Tendencies of Thought. (2) I.  Mr. Robson
A general survey of contemporary philosophers and philosophies, centering about idealism, realism, and evolutionary naturalism.

141B. Present Tendencies of Thought. (2) II.  Mr. Kaplan
A general survey of contemporary philosophers and philosophies, centering about pragmatism, positivism, and scientific empiricism.

146. Philosophy in Literature. (3) II.  Mr. Robson
A study of philosophical ideas expressed in the literary masterpieces of Plato, Lucretius, Dante, Shakespeare, Goethe, Tolstoi, Lewis Carroll, Thomas Mann, and others.

147. Philosophy of History. (3) II.  Mr. Miller
The problems of historical knowledge and historical method; the relativists, Beard, Croce, etc.; dialectical history in Hegel and Marx; the relation of history to theory; the establishment of objective historical truth.

149. Introduction to the Philosophy of Science. (3) I.  Mr. Reichenbach
A study of the nature and validity of the methods and most basic concepts of natural science.

*148. Philosophy of Nature. (3) I.  Mr. Reichenbach
The physical universe and man's place in it in the light of modern discoveries.

* Not to be given, 1942–1943; to be given in 1943–1944.
Philosophy

Historical Studies

152. Plato and His Predecessors. (3) I.  Mr. Friedländer
153. Aristotle and Later Greek Philosophy. (3) II.  Mr. Friedländer
157. Medieval Philosophy. (3) I.  Mr. Hocking
   Philosophy in Christendom from the fourth to the fourteenth century, with particular reference to Augustine and Thomas Aquinas.

162. Continental Rationalism. (2) I.  Mr. Friedländer
   A study of the philosophies of Descartes, Spinoza, and Leibniz.

163. British Empiricism. (3) I.  Mr. Robson
   A study of the philosophies of Locke, Berkeley, and Hume.

164. Kant. (2) II.  Mr. Robson
   Reading of the Critique of Pure Reason, with explanatory discussion and critical comment.

172. Contemporary Philosophy: Idealism. (2) I.  Mr. Hocking
   Idealism developed systematically, through a study of such categories as time, space, substance, cause, purpose; the material for study drawn from Bradley, Royce, Bergson, Croce, and others.

174. Contemporary Philosophy: Realism. (2) II.  Mr. Robson
   Theories of knowledge and nature in Alexander, Moore, Russell, Santayana, Whitehead, Woodbridge, and others.

175. Contemporary Philosophy: Pragmatism. (2) II.  Mr. Piatt
   A systematic and critical analysis of American pragmatism, with special reference to James, Dewey, and Mead.

Systematic Studies

180. Philosophy of Space and Time. (3) II.  Mr. Reichenbach
   Euclidean and non-Euclidean geometry; problem of physical space; presentativeness of geometrical systems; structure of time; philosophical elements of Einstein’s theory of relativity; gravitation, matter, geometry.

181. Theory of Knowledge. (2) I.  Mr. Reichenbach
   A systematic inquiry into the structure, sources, criteria, and limits of human knowledge.

182. World Hypotheses. (2) II.  Mr. Miller
   An introduction to metaphysics.

183. Social Philosophy. (2) II.  Mr. Piatt
   Analysis of the basic concepts and methods of the social sciences. The relation of the social to the biological and physical sciences, and the bearing of the social sciences on human conduct today.

184. Advanced Logic. (3) II.  Mr. Reichenbach
   Elements of logistics; foundations of mathematics; concept of the infinite; paradoxes of logic; logic and language; multi-valued logics.

* Not to be given, 1942–1943; to be given in 1943–1944.
Philosophy 245

*185. Foundations of Probability and Statistics. (3) II. Mr. Reichenbach
Logical and mathematical theories of probability; development of the
mathematical calculus of probability in a logistic form; outlines of a general
mathematical theory of probability and statistics; different interpretations of
probability; problem of induction; probability logic.

*198. Conferences and Reading for Honors. (2) I, II.
Limited to seniors majoring in philosophy. May be taken twice for credit.
Conference and reading in the history of philosophy.

199A–199B. Selected Problems in Philosophy. (2–3; 2–3) Yr.
Admission by special arrangement. Mr. Miller in charge

Graduate Courses

250. Seminar: Theories of Knowledge. (3) II. Mr. Montague
*251. Seminar: Metaphysics. (3) II. Mr. Miller
*253. Seminar: Pragmatism. (3) I. Mr. Piatt
254. Seminar: Ethics and Theory of Value. (3) I. Mr. Piatt
257. Seminar: Philosophy of History. (3) I. Mr. Miller
*260. Seminar: Philosophy of Mathematics. (3) I. Mr. Reichenbach
262. Seminar: Philosophy of Physics. (3) II. Mr. Reichenbach
263. Seminar: Epistemology. (3) I. Mr. Reichenbach
*264. Seminar: Logic. (3) II. Mr. Reichenbach

298A–298B. Special Study: Selected Problems in Philosophy. (2–4; 2–4) Yr.
Mr. Piatt in charge

* Not to be given, 1942–1943; to be given in 1948–1944.
Physical Education for Men

Physical Education for Men

John F. Bovard, Ph.D., Professor of Physical Education and Director of Men's Gymnasium (Chairman of the Department).

Frederick W. Cozens, Ph.D., Professor of Physical Education.

William H. Spaulding, A.B., Director of Athletics.

Paul Frampton, M.A., Associate Supervisor of Physical Education for Men.

Cecil B. Hollingsworth, M.A., Assistant Supervisor of Physical Education for Men.

Wilbur C. Johns, Ed.B., Assistant Supervisor of Physical Education for Men.

*Norman D. Duncan, M.A., Junior Supervisor of Physical Education for Men.

Thomas E. Heit, A.B., Junior Supervisor of Physical Education for Men.

Joseph B. Keeble, B.S., Junior Supervisor of Physical Education for Men.


*M. Briggs Hunt, Ed.B., Assistant in Physical Education for Men.

Carl M. O'Gara, Assistant in Physical Education for Men.

James G. Schaeffer, A.B., Assistant in Physical Education for Men.

--- ---, Assistant in Physical Education for Men.

--- ---, Assistant in Physical Education for Men.

William J. Norris, M.D., University Physician.

Donald MacKinnon, M.D., Physician for Men.

Lewis Gunther, M.D., Consultant, Student Health Service.

Physical Education 3 is prescribed for all first-year and second-year undergraduate male students who are under twenty-four years of age. A student claiming exemption because of age will present to the Registrar a petition on the prescribed form for such exemption. A student whose health requires either exemption or special assignment will report directly to the Medical Examiner. Pending action on his petition, the student will enroll in and regularly attend the required course in physical education.

Medical Examination.—(a) Students entering the University for the first time and (b) reentering students must pass a medical examination upon admission. All students are given an examination each year. The examiner may exempt the student from required military training; he may assign the student to a restricted exercise section of Physical Education 3.

College of Applied Arts

The Department of Physical Education for Men offers three curricula; the major in each is 36 units and the minor is 20 units.

A. Curriculum for Prospective Teachers.

Preparation for the Major.—Chemistry 1A or 2A; Zoology 1 and 13 (or 15), 35; Physical Education for Men 1, 5, 6, 7, 8, 9, 30, 40.

* Absent on leave, 1942–1948.
The Major.—Thirty-six units of upper division courses in physical education and related fields, including courses 120, 131, 140, 149, 182, 190, 192A–192B, 356A–356B, and 10 units to be selected from 104B, 114A, 180, 183, 191, 199A, 199B, Education 111, 112, Psychology 110.

The Minor.—Twenty units of coordinated courses (aside from those taken in education), not less than 6 of which are in the upper division.

The Special Secondary Teaching Credential in Physical Education.—In addition to the major, courses 354 and 355A–355B are required. Students expecting to teach must include in their curriculum at least 12 units each in physical activities, in physical education theory and practice, and in health education theory and practice. For other requirements consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

B. Curriculum in Physical Therapy

The curriculum in physical therapy is designed for students who are interested in corrective physical education and therapeutic exercise rather than in teaching. It prepares the student for the professional course offered at the University of California Hospital, Los Angeles Children's Hospital, or any other school of physical therapy approved by the American Medical Association.

Preparation for the Major.—Required: courses 5, 30, Chemistry 2A–2B, Physics 10A–10B, Biology 1, Zoology 1 and 18, or 15, Physical Education for Women 44. Recommended year courses: Public Speaking 1A–1B or 2A–2B, Psychology 21, and 22 or 23, Sociology 30A–30B, and Art 27.

The Major.—Course 149, Physical Education for Women 182, 183, 184, 185, 190, 192A–192B, and 18 units to be selected from the following: Education 110, 111, 112, 160, 180; Physical Education for Women 104A–104B, 114A–114B, 120, 180; Psychology 108, 112, 168.

C. Curriculum for the Group Major in Dance.


The Minor for the Bachelor's Degree.—Either English or art is recommended; English 31, 117J, 153, or Art 101 (or 183), 168A–168B, and 4 units to be chosen on recommendation of the Committee on Group Major in Dance.

College of Letters and Science†

Letters and Science List.—Courses 1 and 3 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

* The College of Applied Arts does not permit courses in education which have been used in satisfaction of requirements for a teaching credential to be counted as a part of the 86-unit major. (See ANNOUNCEMENT OF THE COLLEGE OF APPLIED ARTS.)

§ This course is listed under Physical Education for Women.

† The University of California at Los Angeles does not offer a major in physical education in the College of Letters and Science. In the College of Letters and Science at Berkeley a combination major of physical education and hygiene may be taken. Students planning to become candidates for the degree of Bachelor of Arts at Berkeley, offering this major, are referred to the publications of the departments at Berkeley.

* Not to be given, 1942–1943.
1. Hygiene and Sanitation. (2) I, II. Mr. MacKinnon

**Prescribed Physical Education for Freshmen and Sophomores. (1) I, II. The Staff**

Classes meet three times weekly. Section assignments are made by the department after students have been classified, according to their performance in the "General Athletic Ability Test" given by the staff to all entering men during the first week of each term. Physical Education 3 may be elected by students in the junior and senior years.

Archery, baseball, basketball, boxing, cricket, dance fundamentals, fencing, folk dancing, American football, golf, group games, elementary tumbling and apparatus, handball, rugby, soccer, social dancing, swimming, tennis, track, water polo, wrestling, restricted gymnastics.

5. First Aid and Bandaging. (2) I, II. Mr. Frampton

The care of common accidents and emergencies on the playground and athletic field.

6. Professional Activities (Men). (1½) I. The Staff

The class meets for two hours two times a week. Open only to students with a major or a minor in physical education. Students taking this course are excused from the regular prescribed physical education, course 3. Professional students must also take training in tennis, swimming, games, and wrestling.

The fundamental activities necessary for teaching in the secondary and college fields.

7. Professional Activities (Men). (1½) II. The Staff

The class meets for two hours two times a week. Open only to students with a major or a minor in physical education.

A continuation of course 6.

8. Professional Activities (Men). (1½) I. The Staff

A continuation of course 7.

9. Professional Activities (Men). (1½) II. The Staff

A continuation of course 8.

20. Fundamentals of Scouting. (2) II. Mr. Frampton

Lectures; three field trips required.

Need of organization for youth; history and growth of the Boy Scouts of America; the Boy Scout program; organization of a troop and techniques of troop management; fundamentals involved in troop activities.

30. Introduction to Physical Education. (1) I. Mr. Hollingsworth

The scope and significance of physical education in the modern school program.

40. The Technique of Teaching Swimming and Life Saving. (2) II. Mr. Montgomery

Preparation for and conduct of the Red Cross Life Saving Test and the Red Cross Life Saving Examiner's Test; advanced techniques in teaching swimming.

† For full statement of the requirement of this course refer to page 86.

* Not to be given, 1942–1948.
Physical Education for Men

Upper Division Courses

131. Administration of Physical Education. (3) II. Mr. Bovard
Prerequisite: Physical Education for Women 120.
The scope of the field of physical education and its relation to modern education theory. Details of the organization of physical education activities, organization and classification of children, planning of school programs, arrangement and construction of equipment and the principles which govern these.

140. Physical Education Tests and Measurements. (2) I. Mr. Cozens
Anthropometric measurements, cardiovascular and physiological ratings, physical efficiency, and motor ability tests. Common tests used in physical education; statistical method applied to physical education measurement.

149. Kinesiology. (3) I. Mr. Frampton
Prerequisite: Zoology 35.

182. Corrective Physical Education. (3) II. Mr. Johns
Two clinic hours a week to be arranged in addition to lecture and demonstration periods. Prerequisite: course 149.
The application of massage and exercise to the treatment of orthopedic and remedial conditions.

191. Conditioning of Athletes and Care of Injuries. (2) II. Mr. Johns
Lecture, one hour; laboratory, three hours. Prerequisite: course 190.
Modern principles and practices in conditioning and care of athletes; individual variation and needs as to sleep, diet, health, and activity habits; care of injuries, including massage, physiotherapy, taping, and protective equipment.

199A–199B. Problems in Physical Education. (1–4; 1–4) Yr. Mr. Cozens, Mr. Bovard

Graduate Courses

250A–250B. Seminar in Physical Education. (3–3) Yr. Mr. Bovard
Prerequisite: the consent of the instructor.
A study of the theory of physical education, a critical review of selected studies, literature, and practices.

276. Research in Physical Education. (2) I. Mr. Cozens
Prerequisite: the consent of the instructor.
The meaning, methods, and techniques of research procedure; applications of this training to the independent solution of a problem.

277. Research in Physical Education Measurement. (2 to 4) II. Mr. Cozens
Prerequisite: the consent of the instructor.
For advanced students who have problems requiring research in tests and measurement or advanced statistical procedures.

278. Research Problems. (2 to 4), I, II. Mr. Bovard
Prerequisite: the consent of the instructor.
For advanced students who have problems in organization, administration, or biological backgrounds of physical education.
354. The Technique of Teaching Elementary School Activities. (2) II. Mr. Frampton

The technique of teaching activities in the elementary school leading up to games of higher organization.

355A–355B. The Technique of Teaching Gymnastic Activities. (2–2) Yr. Mr. Hollingsworth

Prerequisite: courses 6, 7, 8, 9, and training in gymnastics, and boxing or wrestling.

Tactics, free exercises, apparatus, gymnastic dancing, and gymnastic games.

356A. The Technique of Teaching Athletic Activities. (2) I. Mr. Spaulding, Mr. Frampton, Mr. Johns, Mr. Schaeffer

Prerequisite: courses 6, 7, 8, 9, and the consent of the instructor.

Track, rugby, and basketball.

356B. The Technique of Teaching Athletic Activities. (2) II. Mr. Spaulding, Mr. Frampton, Mr. Johns, Mr. Schaeffer

Prerequisite: courses 6, 7, 8, 9, and the consent of the instructor.

Football, baseball, and soccer.

Courses Listed in the Department of Physical Education for Women

120. Principles of Physical Education. (2) II. Miss Cubberley

190. Physiology of Exercise. (3) I. Mr. Bovard, Mrs. Johnson

192A–192B. Administration of Health Education. (3–3) Yr. Miss Harshberger, Mrs. Johnson

330. Physical Education in the Elementary School. (3) I, II. Miss Anderson

* Not to be given, 1942–1943.
Physical Education for Women

PHYSICAL EDUCATION FOR WOMEN

JOHN F. BOYD, Ph.D., Professor of Physical Education (Chairman of the Department).

FREDERICK W. COZENS, Ph.D., Professor of Physical Education.

HAZEL J. CUBBERLEY, M.A., Associate Professor of Physical Education for Women.

MARTHA B. DEANE, B.S., Associate Professor of Physical Education for Women and Director of Women's Gymnasium.

DIANA W. ANDERSON, M.A., Assistant Supervisor of Physical Education for Women and Supervisor of Training, Physical Education.

LUCILE R. GRUNEWALD, M.A., Assistant Supervisor of Physical Education for Women.

EDITH R. HARSHBERGER, M.A., Assistant Supervisor of Physical Education for Women.

BERNICE H. HOOPER, M.A., Assistant Supervisor of Physical Education for Women.

EDITH I. HYDE, M.A., Assistant Supervisor of Physical Education for Women.

ORLIE THOMSON, M.A., Assistant Supervisor of Physical Education for Women.

GEORGIA B. JOHNSON, Ph.D., Instructor in Physical Education for Women.

MARGARET G. ALLEN, Ed.B., Junior Supervisor of Physical Education for Women.

MARGARET DUNOAN, M.A., Junior Supervisor of Physical Education for Women.

RUTH FULTON, M.A., Junior Supervisor of Physical Education for Women.

JOSEPHINE KETOIK MURRAY, B.S., Junior Supervisor of Physical Education for Women.

ETHEL S. BRUCE, Associate in Physical Education for Women.

MYRA KINCH GALEA, Ed.B., Assistant in Physical Education for Women.

ROBERT TYLER LEE, Assistant in Dance and Assistant in Art.

ELIZABETH F. B. MCDERMOTT, Assistant in Physical Education for Women.

WILLIAM J. NICHOLS, M.D., University Physician.

—, M. D., Physician for Women.

College of Applied Arts

The Department of Physical Education for Women offers three curricula; the major in each is 36 units, and the minor is 20 units.

A. Curriculum for Prospective Teachers.

Preparation for the Major.—Courses 5, 30, 31, 32, 44, Chemistry 1A or 2A; Zoology 1 and 13 (or 15), 35.

The Minor for the Bachelor’s Degree.—Twenty units of coordinated courses (aside from those taken in education), not less than 6 of which are in the upper division.

The Special Secondary Teaching Credential in Physical Education.—The curriculum must include at least 12 units of physical activities, 12 units of physical education theory and practice, and 12 units of health education theory and practice. For other requirements consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

The General Secondary Teaching Credential.—A teaching major of from 40 to 54 units is required, of which not less than 24 units are upper division or graduate courses approved by the School of Education. For other requirements, including those of the minor, consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

B. Curriculum in Physical Therapy.

The curriculum in physical therapy is designed for students who are interested in corrective physical education and therapeutic exercise rather than in teaching. It prepares the student for the professional course offered at the University of California Hospital, Los Angeles Children’s Hospital, or any other school of physical therapy approved by the American Medical Association.

Preparation for the Major.—Required: Chemistry 2A–2B, Physics 10A–10B, Biology 1, Zoology 1 and 13, or 15, courses 5, 30, 44. Recommended year courses: Public Speaking 1A–1B or 2A–2B, Psychology 21, and 22 or 23, Sociology 30A–30B, and Art 27.


C. Curriculum for the Group Major in Dance.


The Minor for the Bachelor’s Degree.—Either English or art is recommended; English 31, 117J, 153, or Art 101 (or 183), 168A–168B, and 4 units to be chosen on recommendation of the Committee on Group Major in Dance.

College of Letters and Science*

Letters and Science List.—Courses 2, 4, 44, 114A–114B, 120, 133, 135, 136, 140, 180, and 193 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

LOWER DIVISION COURSES

2. Hygiene. (2) I, II.

* The University of California at Los Angeles does not offer a major in physical education in the College of Letters and Science. A group major in physical education and hygiene is offered in the University at Berkeley. Students wishing to satisfy the requirements for this major are referred to the GENERAL CATALOGUE of the departments at Berkeley.
Prescribed Physical Education for Freshmen and Sophomores. (1) I, II.

Classes meet three times weekly. Section assignments are made only by the department. This course may be elected for credit by juniors and seniors.

The following activities are offered: archery, badminton, basketball, bowling, character dancing, dance fundamentals, deck sports, fencing, folk dancing, golf, hockey, lacrosse, social dancing, swimming, tennis, volleyball. Students whose physical condition indicates the need of modified activity are assigned to individual physical education classes.

Safety Education and First Aid. (2) I, II.

Prevention and care of common accidents and emergencies in the home and school.

Recreational Activities. (1) I, II.

Discussion, one hour; laboratory, two hours.

Discussion of philosophy of recreation with emphasis on the place of recreational agencies in our total war effort. Recreational experiences in many types of situations: active and quiet games, hobbies, hiking and related activities, activities for the home. Individual surveys of recreational opportunities in a specific community. This course is particularly designed to develop recreational skills and knowledge for use in the community with special reference to war-time needs.

Introduction to Physical Education. (1) I.

The scope and significance of physical education in the modern school program.

Professional Activities (Women). (3) I.

Miss Deane, Miss Hooper, Mrs. Johnson

Open only to students with a major or minor in physical education, dance, or drama. Students are excused from the physical education requirement, course 4, during the term in which they are enrolled in this course.

Fundamental rhythmic activities necessary for teaching on the secondary and college levels; music analysis for dance.

Professional Activities (Women). (3) II.

Mrs. Bruce, Miss Thomson, Miss Duncan

Open only to students with a major or minor in physical education. Students are excused from the physical education requirement, course 4, during the term in which they are enrolled in this course.

Theory and practice in the fundamentals of the following activities: swimming, tennis, basketball, field hockey, soccer, speedball, softball, volleyball.

The Technique of Teaching Swimming and Life Saving. (2) II.

Miss Duncan

Prerequisite: Students must be at least twenty years of age, have a Red Cross Senior Life Saving Certificate up to date, and show a definite need for the appointment to receive a Red Cross Life Saving Instructor's Certificate.

Preparation for and conduct of the Red Cross Life Saving Tests and the Red Cross Life Saving Instructor's Test; advanced technique in teaching swimming; special emphasis on water safety.

For full statement of the requirement of this course refer to page 86.
Physical Education for Women

44. Principles of Health Education. (2) I, II. Miss Harshberger
A study of personal hygiene and community health problems, including the principles of sanitation.

Upper Division Courses

104A. Club Activities. (2) I. Miss Hooper
Training course for leaders of clubs and organizations interested in physical and social welfare, such as Girl Scouts, Camp Fire, Junior Red Cross and U.S.O. Practical experience in program making and planning of tournaments.

104B. Camp Craft. (2) II. Miss Hooper
Training course for camp counselors. Program making for various types of camps, schools, church, and community groups. Study of fundamental camp activities, including those simple and elementary enough for youth, and those designed especially for adult groups.

114A. Folk Festivals. (2) I. Miss Hooper
The purpose, source of material, organization and administration of folk festivals. Presentation of a Christmas folk festival.

114B. Folk Festivals. (2) II. Miss Hooper
Study of folklore, festivals, and pageants. An original folk festival or pageant is required from each student.

120. Principles of Physical Education. (2) II. Miss Cubberley
A survey of the more significant influences which serve as a foundation for theory and practice in physical education. The implications of these factors with respect to objectives, methods, and materials of physical education.

130A-130B. Dance Composition Workshop. (2-2) Yr. Miss Deane, Mrs. Galea
Prerequisite: course 135 or 136, and Art 168A.
An advanced laboratory course in dance composition and production to provide students with an opportunity to apply the work given in course 135 and Art 168A.

133. Dance Recital. (3) II. Miss Deane
Prerequisite: course 31 or 4 (Advanced Dance Fundamentals).
Development of dances for a recital program. Production work on sets and costumes. Participation in dance recital.

135. History of Dance and the Related Arts. (2) I, II. Mr. Lee
Prerequisite: course 31 or the equivalent.
A study of the relation of music, costume, and dance in various periods.

136. History of Dance in America. (2) I. Miss Deane, Mr. Lee
A study of dance in relation to the development of present American culture.

149. Kinesiology. (3) I. Miss Grunewald
Prerequisite: Zoology 35.
A study of the joint and muscular mechanism of movements, especially designed for women in teaching corrective physical education, physical therapy, and occupational therapy.

* Not to be given, 1942-1943.
171. Organization of Athletics. (2) I. Miss Thomson
Prerequisite: courses 120, 321A-321B.
A study of practical problems involved in the conduct of athletic programs in secondary schools and colleges. The theory and application of fundamental techniques used in the organization of mass programs for school or community groups. Reports of special investigations and committee work.

172. Organization of Public Performances. (2) I. Miss Deane
The programming and management of public performances in the school, community, U.S.O., and army camps. Consideration of their purpose, type and sources of material. The use of dance, music, lighting, costume, etc.

180. Administration of Community Recreation. (3) II. Miss Hooper
A training course for leaders with emphasis on the management of recreation in communities, industrial and social organizations. The needs of women in industry are given special study.

182. Corrective Physical Education. (3) II. Miss Grunewald
Prerequisite: course 149. Especially designed for teachers, nurses, physical therapy aides, and occupational therapists.
Study of body mechanics and of the causes and treatment of correctible deviations from the normal. Special emphasis is given individual program adaptations and corrective procedures.

183. Massage and Therapeutic Exercise. (3) I. Miss Grunewald
Prerequisite: course 182.
Study of massage and therapeutic exercises applied in the treatment of disturbances of the cardio-vascular, nervous, muscular, and digestive systems, for teachers, nurses, physical therapy aides, and occupational therapists.

184. Muscle Re-education. (3) I. Miss Grunewald
Special technical muscle training techniques for physical therapy and occupational therapy.

185. Physical Activities for Rehabilitation. (2) II. Miss Grunewald
Lectures and laboratory; for technically trained professional therapy aids.
Special games and activities suitable for the rehabilitation of the physically handicapped.

190. Physiology of Exercise. (3) I. Mr. Bovard, Mrs. Johnson
Prerequisite: Physiology 1.
A study of the effects of physical education activities on the human organism and the physiological bases for program construction. Basic course for understanding assignment of activities to individual needs.

192A. Administration of Health Education. (3) I. Miss Harshberger, Mrs. Johnson
Prerequisite: course 190.
Health instruction in the elementary and secondary schools. A study of learning experiences directed toward the development of health knowledge, practices and attitudes and their function in improving health behavior.

* Not to be given, 1942-1948.
Physical Education for Women

192B. Administration of Health Education. (3) II.
Prerequisite: course 190. Miss Harshberger, Mrs. Johnson
Health protection. A consideration of the problems, principles, and methods involved in the supervision of child health in schools, camps, and playgrounds.

193. Social Aspects of Health. (2) I, II.
Miss Harshberger
Not open to majors in physical education or to students who have credit for 192A, 192B. Designed for general students in the College of Letters and Science.
A general survey of health problems in the secondary school, with special emphasis on individual health and development as well as on the social aspects of living.

Professional Courses in Method

321A–321B. Principles of Teaching Athletics. (2–2) Yr. Miss Thomson
Prerequisite: course 32 or the equivalent. Field work in officiating in the city schools and recreation centers is required.
Analysis of problems in teaching athletic activities, including techniques and game forms, with special reference to their use in planning lesson units. Advanced practice is offered in team activities with emphasis on the interpretation of rules and the technique of officiating.

321C–321D. Principles of Teaching Dance. (2–2) Yr. Miss Deane
Prerequisite: course 31 or its equivalent.
A survey of the program in dance from kindergarten to university. Practice in dance fundamentals—intermediate.

330. Physical Education in the Elementary School. (3) I, II.
Miss Anderson
Prerequisite: junior standing, courses 11, 12, and 44, or the equivalent, and Education 111. Men may substitute Physical Education for Men 354, and 9 or 355, for courses 11 and 12. Required of all candidates for the General Elementary Credential. Each student must plan a program with two consecutive hours a week free for observation, between the hours 9 a.m. and 3 p.m.

Courses Listed in the Department of Physical Education for Men

131. Administration of Physical Education. (3) II. Mr. Bovard
140. Tests and Measurements in Physical Education. (2) I. Mr. Cozens
199A–199B. Problems in Physical Education. (1–4; 1–4) Yr. Mr. Bovard, Mr. Cozens
250A–250B. Seminar in Physical Education. (3) Yr. Mr. Bovard
276. Research in Physical Education. (2) I. Mr. Cozens
277. Research in Physical Education Measurement. (2 to 4) II. Mr. Cozens
278. Research Problems. (2 to 4) I, II. Mr. Bovard
PHYSICS

SAMUEL J. BARNETT, Ph.D., Professor of Physics.
JAKOB BJERKNES, Ph.D., Professor of Meteorology.
JOSEPH KAPLAN, Ph.D., Professor of Physics (Chairman of the Department).
*VERN O. KNUDSEN, Ph.D., Professor of Physics.
JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics.
LAURENCE E. DODD, Ph.D., Associate Professor of Physics.
Hiram W. Edwards, Ph.D., Associate Professor of Physics.
JOSEPH W. ELLIS, Ph.D., Associate Professor of Physics.
JÖRGEN HOLMBOE, M.Sc., Associate Professor of Meteorology.
E. LEE KINSEY, Ph.D., Associate Professor of Physics.
ROBERT E. BAGBY, Captain, U. S. Army, Assistant Professor of Military Science and Tactics.
*ARTHUR H. WARNER, Ph.D., Assistant Professor of Physics.
NORMAN A. WATSON, Ph.D., Assistant Professor of Physics.
1 JULY G. CHABNEY, M.A., Instructor in Meteorology.
*LEO P. DELSAO, A.B., Instructor in Physics.
JAMES G. EDINGER, A.B., First Lieutenant, U. S. Army, Instructor in Meteorology.
ARTHUR F. GUSTAFSON, A.B., First Lieutenant, U. S. Army, Instructor in Meteorology.
CHARLES P. HEDGES, B.S., Instructor in Meteorology.
WILLIAM W. KELLOGG, M.A., Instructor in Meteorology.
ROBERT W. LEONARD, Ph.D., Instructor in Physics.
MORRIS NEIBURGER, S.B., Instructor in Meteorology.
GORDON C. SHIELDS, B.S., Second Lieutenant, U. S. Army, Instructor in Meteorology.
1 HAROLD SHENIAD, M.A., Instructor in Meteorology.
KENNETH E. STREET, A.B., First Lieutenant, U. S. Army, Instructor in Meteorology.
ARNOLD BENTON, B.S., Assistant in Physics.
SHERLON J. BROWN, A.B., Assistant in Physics.
WILLIAM BROWN, A.B., Assistant in Physics.
1 NORMAN C. DALKEY, Ph.D., Assistant in Meteorology.
ROBERT S. GALE, A.B., Assistant in Physics.
JOHN Y. GILBERT, B.S., Assistant in Meteorology.
WILLIAM GUSTIN, B.S., Assistant in Meteorology.
WALTER A. ROSENBLITH, B.S., Assistant in Physics.
ISADORE RUDNICK, M.A., Assistant in Physics.
1 ALENE BARBARA ZACHER, A.B., Assistant in Meteorology.

ROBERT D. FLETCHER, M.Sc., Research Associate in Meteorology.
HARALD U. SVENDBUH, Ph.D., Professor of Oceanography, Scripps Institution of Oceanography.

* Absent on leave, 1942–1948.
1 In residence fall term only, 1942–1948.
Letters and Science List.—All undergraduate courses in physics and meteorology are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major in Physics.—Required: Physics 1A, 1B, 1C, 1D, or their equivalents (in meritorious cases Physics 2A–2B may be accepted) with an average grade of C or higher; Chemistry 1A–1B; Mathematics 3A, 3B, 4A, or their equivalents. Recommended: a reading knowledge of German and French.

The Major in Physics.—Twelve units of upper division physics, consisting of 105, 107A, 108B, 108C, and 110A; and 12 units chosen from other upper division courses in physics, Mathematics 119, 122A–122B, 124, 125, Chemistry 110, and Astronomy 117A–117B, 199. At least 8 of these latter 12 units must be courses in the Department of Physics.

Preparation for the Major in Physics-Meteorology.—Physics 2A–2B, or 1A, 1B, 1C, 1D; Mathematics CF, 8, 3A, 3B, 4A, or their equivalents. A reading knowledge of French and German is recommended.

The Major in Physics-Meteorology.—Physics 105, 112; Meteorology 101A–101B, 102, 104; the remaining upper division courses may be chosen from other courses in meteorology, physics, or mathematics. The acceptable courses in mathematics are 119, 122A–122B, 124, 125; Astronomy 117A, Geography 113, 114 are also acceptable toward the major.

Laboratory Fees.—Courses 1A, 1B, 1C, 1D, 2A, 2B, 10C, 10D, $6; 108A, 109, $7; 107A, 107B, 108C, 113A, 114C, 116C, 116D, $14; Meteorology 110A–110B, $6. The student will, in addition, be held responsible for all apparatus lost or broken.

Lower Division Courses

Prerequisite for 1A, 1B, 1C, 1D: either (1) the high school course in physics, or (2) trigonometry and the high school course in chemistry. Prerequisite for course 2A–2B: (1) three years of high school mathematics, or (2) two years of high school mathematics and college algebra. Prerequisites for course 4A–4B are elementary algebra and plane geometry.

Physics 1A, 1B, 1D, and 1C constitute a two-year sequence in general physics which is required of, or recommended for, major students in physics and astronomy and of pre-chemistry and pre-engineering students. Physics 1A and 1B are required of students in architecture, and Physics 1A and either 1B, 1C, or 1D are required of major students in chemistry. Other students may elect any part of the course but at least two parts are necessary to meet the laboratory requirement for the degree of Associate in Arts or upper division standing. Physics 1A is prerequisite to any of the other courses in this sequence.

Students who have credit for courses 2A–2B or 4A–4B may receive additional credit of not more than 1.5 units for each of courses 1A and 1B, and not more than 2 units for each of courses 1C and 1D. In general, not more than 12 units of credit will be given for any amount of lower division work. Credit in excess of 12 units will be given only in exceptional cases, when approved by the department.

1A. General Physics: Mechanics of Solids. (3) I, II.

Mr. Ellis, Mr. Dodd, Mr. Watson, Mr. Leonard
Lecture and laboratory, four hours; demonstration one hour. Fee, $6.
1B. General Physics: Mechanics of Liquids, and Heat. (3) II. 
Mr. Dodd, Mr. Watson, Mr. Leonard 
Lecture and laboratory, four hours; demonstration one hour. Fee, $6. Prerequisite: course 1A.

1C. General Physics: Electricity and Magnetism. (3) I, II. Mr. Kinsey 
Lectures, two hours; laboratory, three hours. Prerequisite: course 1A and a knowledge of elementary calculus. Fee, $6.

1D. General Physics: Light and Sound. (3) I. Mr. Ellis 
Lectures, two hours; laboratory, three hours. Prerequisite: course 1A. Fee, $6.

2A-2B. General Physics. (4-4) Yr. Mr. Kaplan, Mr. Kinsey 
Lecture, three hours; laboratory, two hours; demonstration, one hour. Prescribed for premedical students. Fee, $6 a term. 
Mechanics, sound, heat, light, electricity.

*4A-4B. General Physics. (3-3) Yr. Mr. Barnett 
Prerequisite: elementary algebra and plane geometry. Course 4B may be taken before 4A with permission of the instructor. 
A descriptive course fully illustrated by experiments.

10A-10B. General Physics (3-3) Yr. Mr. Edwards 
A course for liberal arts students.

10C-10D. General Physics Laboratory. (1-1) Yr. Mr. Edwards 
Fee, $6 a term.

UPPER DIVISION COURSES
Prerequisite for all upper division courses: Physics 1A, 1B, 1C, 1D, or 2A-2B; Mathematics 3B, 4A; or the equivalents.

105. Analytic Mechanics. (3) I. Mr. Watson 
The statics and dynamics of particles and rigid bodies.

107A. Electrical Measurements. (3) I. Mr. Leonard 
Prerequisite: course 1C. Fee, $14. 
Laboratory exercises in the measurement of direct current quantities, with explanatory lectures on electricity and magnetism.

107B. Electrical Measurements. (3) II. Mr. Leonard 
Prerequisite: course 107A. Fee, $14. 
Laboratory exercises with alternating current circuits, and lectures on electric circuit theory, the propagation of electric waves, and thermionic vacuum tubes.

108A. Geometrical Optics. (3) II. Mr. Dodd 
Lectures, demonstrations and laboratory. Prerequisite: course 1D or 2B, or equivalent. Fee, $7. 
Geometrical methods applied to the basic optics of mirrors, prisms, and lenses. The Hamiltonian approach to the problems of convergent and divergent optical systems.

* Not to be given, 1942-1948.
108B. Physical Optics. (3) I.
Lectures and demonstrations.
Interference, diffraction, polarization, and their applications.

Mr. Ellis

108C. Physical Optics Laboratory. (1) I.
Fee, $14.

Mr. Watson

109. Modern Optical Instruments. (3) I.
Prerequisite: course 108A. Fee, $7.
Specialized studies, conducted on a semiseminar basis with lectures and laboratory, in the applied optics of modern instruments as used in industrial laboratories, photogrammetry, astronomy, range-finding, surgery, etc. Attention given to methods of design.

Mr. Dodd

110A. Electricity and Magnetism. (2) I.
The elementary mathematical theory, with a limited number of experimental demonstrations.

Mr. Barnett

110B. Electricity and Magnetism. (3) II.
Prerequisite: course 110A.
A continuation of course 110A.

Mr. Barnett

112. Heat. (3) I.
Thermodynamics, with applications to physical chemistry.

Mr. Adams

113. Introduction to Spectroscopy and Quantum Theory. (3) II.

Mr. Ellis

113C. Spectroscopy Laboratory. (1) II.
Prerequisite or concurrent: course 113 or Astronomy 117B. Fee, $14.

Mr. Watson

114A–114B. Mechanics of Wave Motion and Sound. (3–3) Yr.
Lectures and demonstrations.
The fundamental theory of wave motion and sound, with applications to recent developments in acoustics.

Mr. Watson

114C. Mechanics of Wave Motion and Sound Laboratory. (1) I.
Prerequisite: courses 107 and 114B or consent of the instructor. Fee, $14.

Mr. Leonard

115. Kinetic Theory. (3) II.
The classical kinetic theory of gases, with applications to viscosity, diffusion, and thermal conduction.

Mr. Adams

Prerequisite: senior standing.
The properties of electrons; thermionic and photoelectric emission; the conduction of electricity in solids and gases; vacuum tubes and circuits.

Mr. Barnett, Mr. Leonard

116C–116D. Electronics Laboratory. (1–1) Yr.
Fee, $14 a term.

Mr. Leonard
Physics

121. Atomic Physics. (3) II. Lectures with demonstrations, and readings. An introductory view of the properties and constituents of atoms, as disclosed by the advances of the past thirty-five years.

199A–199B. Special Problems in Physics. (2–2) Yr. Mr. Kaplan in charge

GRADUATE COURSES:

Courses 208 or 213A or 213B, 210A, 212 or 215, and 220A are required of all candidates for the master's degree with major in physics.

208. Classical Optics. (3) II. Mr. Ellis Propagation of light waves in isotropic and anistropic media, interference, diffraction, dispersion, and polarization on the basis of the electromagnetic theory of light.

210A–210B. Electricity and Magnetism; Advanced Course. (3–3) Yr. Mr. Barnett Open to graduate students who have taken 110A–110B, and to other graduate students with the consent of the instructor. Electrostatics, electrodynamics, electron theory, magnetism, restricted theory of relativity, theory of radiation.

212. Thermodynamics. (3) II. Mr. Kaplan

213A. Spectra and Structures of Diatomic Molecules. (3) II. Mr. Ellis Rotational, vibrational, electronic, and Raman spectra of diatomic molecules, with applications.

213B. Spectra and Structures of Polyatomic Molecules. (3) II. Mr. Ellis Rotational, vibrational, and Raman spectra of polyatomic molecules in the gaseous, liquid, and solid states.

215. Statistical Mechanics. (3) II. Mr. Kaplan

217. Hydrodynamics. (3) I. Mr. Holmboe

220A. Theoretical Mechanics. (3) I. Mr. Kinsey

220B. Theoretical Mechanics. (3) II. Mr. Kinsey

220C. Quantum Mechanics. (3) II. Mr. Kinsey

230. Seminars in Physics. (2 or 3) Mr. Kaplan in charge

For 1942–1943: Advanced Quantum Mechanics. (3) I. Mr. Kinsey Cosmic Rays. (3) II. Mr. Kaplan

290A–290B. Research. (1–6; 1–6) Yr. Mr. Kaplan in charge

COURSES IN ANOTHER DEPARTMENT

Astronomy 117A–117B. Astrophysics. (3–3) Yr. Mr. Kaplan

Astronomy 199A–199B. Sec. 2. Special Studies in Astrophysics. (2–2) Yr. Mr. Kaplan

* Not to be given, 1942–1943.
Physics

METEOROLOGY

UPPER DIVISION COURSES

†100A–100B. Synoptic Meteorology. (3–3) Yr. Mr. Bjerknes
The synoptic weather maps; world wide survey of meteorological elements; radiation, convection, evaporation, condensation, precipitation; the general circulation; tropical cyclones; extra-tropical disturbances; orographical influences; weather forecasting.

†101A–101B. Dynamic Meteorology. (3–3) Yr. Mr. Holmboe
The thermodynamics of the atmosphere, including construction of aeronautical diagrams; elementary dynamics of the atmosphere; the interrelation between the fields of motion, mass, and pressure; dynamic stability, frictional effects, and turbulence; energy transformations, dynamics of the general circulation.

†102. Physics of the Higher Atmosphere. (3) I. Mr. Kaplan
Prerequisite: Astronomy 117A or Physics 113, or equivalent preparation acceptable to the instructor.
Constitution of the atmosphere at various levels; the ozone layer; optical, electric, and magnetic phenomena; temperature and radiation; cosmic rays.

†103. Interaction between the Sea and the Atmosphere. (1) I. Mr. Sverdrup
The heat balance between the ocean and the atmosphere; the theory of evaporation based on the turbulent transport of water vapor through the surface layer.

†104. Meteorological Physics. (3) I. Mr. Kaplan
Theory of radiation with particular emphasis on its meteorological applications.

†110A–110B. Meteorological Laboratory. (4–4) Yr. Mr. Bjerknes, Mr. Holmboe, Mr. Neiburger
Fee, $6 a term.
Meteorological observations; coding and decoding; map plotting; three-dimensional synoptic analysis; practice weather forecasting.

†111. Meteorological Instruments and Observations. (3) II. Mr. Neiburger, Mr. Hedges
Lectures, laboratory exercises, and field observations in the measurements of the meteorological elements.
Special attention will be given the determination of conditions aloft by means of pilot balloons and radiosondes.

199A–199B. Special Problems in Meteorology. (1–3; 1–3) Yr. Mr. Bjerknes in charge
† In the year 1942–1948 these courses may not be given in regular sessions, since the facilities are limited, and the University is currently conducting the training of selected students in the armed forces as a part of the National Defense Program. A few civilian students selected by the department will be accepted.
GRADUATE COURSES

Courses 103, 200A–200B, 210A–210B, 217, and Physics 217 are required of all candidates for the master's degree with major in physics-meteorology.

†200A–200B. Synoptic Meteorology. (3–3) Yr. Mr. Bjerknes
210A–210B. Advanced Meteorological Laboratory. 4N

†210A–210B. Advanced Meteorological Laboratory. (4–4) Yr.
Mr. Bjerknes, Mr. Holmboe, Mr. Neiburger

Analysis of selected weather situations in the past.

°217. Meteorological Hydrodynamics. (3). Mr. Holmboe

260. Seminar in Meteorology. (2) II. Mr. Holmboe in charge
Discussion of current meteorological literature and reports on research.

290A–290B. Research in Meteorology. (1–6; 1–6) Yr. Mr. Bjerknes in charge

† In the year 1942–1943 these courses may not be given in regular sessions, since the facilities are limited, and the University is currently conducting the training of selected students in the armed forces as a part of the National Defense Program. A few civilian students selected by the department will be accepted.

° Not to be given, 1942–1943.
POLITICAL SCIENCE

MALBONE W. GRAHAM, Ph.D., Professor of Political Science.
* J. A. C. GRANT, Ph.D., Professor of Political Science.
CHARLES G. HAINES, Ph.D., Professor of Political Science.
FRANK M. STEWART, Ph.D., Professor of Political Science and Director of the Bureau of Government Research.
*CHARLES H. TITUS, Ph.D., Professor of Political Science.
RUSSELL H. FITZGIBBON, Ph.D., Associate Professor of Political Science.
H. ARTHUR STEINEE, Ph.D., Associate Professor of Political Science (Chairman of the Department).
WINSTON W. CROUCH, Ph.D., Assistant Professor of Political Science.
DEAN E. McHENRY, Ph.D., Assistant Professor of Political Science.

THOMAS P. JENKIN, M.A., Lecturer in Political Science.
PUBL KELSO, M.A., Lecturer in Political Science.

Letters and Science List.—All undergraduate courses in political science are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Course 3A–3B, or its equivalent, and one of the following: Political Science 10, 15, 31, 32, 34. Recommended: Economics 1A–1B, Geography 1A–1B, History 4A–4B, 5A–5B, 7A–7B, 8A–8B.

Students intending to select political science as a major subject are advised to take one course in political science throughout the year in each of the freshman and sophomore years.

The Major.—Twenty-four units in upper division courses, not more than 4 of which may be taken in courses approved by the department in anthropology, business administration, economics, geography, history, philosophy, psychology, or sociology. The work must be divided among the different fields of political science in accordance with the requirements of the department. A copy of the regulations may be obtained from the departmental adviser. The student must maintain an average grade of C or higher in upper division courses in political science.

Related Curricula.—For the Curriculum in Public Service and the Curriculum in International Relations, students are referred to pages 71, 72 of this Catalogue.

LOWER DIVISION COURSES

Mr. Fitzgibbon, Mr. McHenry, Mr. Crouch

Students who have credit for American Institutions 101 will receive only one unit for Political Science 3A.

A study of principles and problems in relation to the organization and functions of the American system of government.

* Absent on leave, 1942–1943.
* Not to be given, 1942–1943.
10. The Anglo-American Legal System. (3) II. Mr. Grant
   Prerequisite: sophomore standing.
   The development of the English and Roman legal systems; elementary principles of the common law, as modified by statutes and judicial decisions.

15. American Wartime Administration. (2) I. Mr. Crouch
   Prerequisite: sophomore standing.
   An examination of the principal executive agencies set up to control production, purchase and supply, man-power mobilization, and civilian defense; objectives and administrative methods of the government as expressed in the war program.

31. Parliamentary Governments. (3) I, II. Mr. Fitzgibbon, Mr. McHenry
   Prerequisite: sophomore standing and course 3A–3B.
   A comparative study of constitutional principles, governmental institutions, and political problems, primarily with respect to England.

32. Government of European Dictatorships. (3) I, II. Mr. Fitzgibbon
   Prerequisite: sophomore standing and course 3A–3B.
   An introductory study of the governments of Italy, Germany, and the Soviet Union, with emphasis upon dictatorial technique and ideology, the transformation of governmental institutions, and contemporary problems.

34. American State and Local Government. (3) II. Mr. Stewart, Mr. Crouch
   Prerequisite: sophomore standing and course 3A–3B.
   Development of state constitutions. The legislative, executive, and judicial departments in state government; popular methods of control; and relation between the state and local rural government, with special reference to California.

UPPER DIVISION COURSES

   Prerequisite for all courses: course 3A–3B, or its equivalent.

110. History of Political Ideas. (3) I. Mr. Jenkin
   An exposition and critical analysis of the ideas of the major political philosophers and schools from Plato to Burke, with emphasis on the setting, the logical structure of their systems, and the significance of these ideas in terms of the contemporary scene.

112. Modern Political Thought. (3) II. Mr. Jenkin
   An exposition and critical analysis of the ideas of the major schools of thought from Kant to the present day.

113. American Political Theory. (3) II. Mr. Jenkin
   A survey of the development of American ideas concerning political authority from Cotton and Williams to Hoover and Roosevelt.

117. Jurisprudence. (3) II. Mr. Haines
   Development of law and legal systems; comparison of methods and procedure in making and enforcing law in Roman and common law systems; consideration of fundamental legal concepts; contributions and influence of modern schools of legal philosophy in relation to law and government.
118. Nature of the State. (8) II. Mr. Jenkin
Prerequisite: course 110 or 112.
An attempt to develop by critical dialectic a coherent theory of the state. Concepts such as sovereignty, law, liberty, rights, equality will be especially emphasized.

120. Colonies in World Politics. (2) II. Mr. Fitzgibbon
A brief survey of the more important historical imperialistic systems, followed by a study of colonial governments and the problems of imperialism in the world today.

125. Foreign Relations of the United States. (3) I. Mr. Graham
A survey of the factors and forces entering into the formation and carrying out of American foreign policy, with special emphasis on contemporary problems.

126. Contemporary Latin-American International Relations. (3) II. Mr. Fitzgibbon
A study of international relations of the Hispanic-American countries in recent decades, (a) among themselves, (b) with the United States, (c) with Europe and Asia; current developments in such matters as boundary disputes, arbitration and conciliation, Pan-American conferences; Hispanic-American participation in the League of Nations.

127. International Relations. (3) I, II. Mr. Graham, Mr. Steiner
A general survey of the institutions and agencies of international government with major stress on outstanding issues in the diplomacy of the post-war period.

128. World War II. (3) II. Mr. Steiner
A survey of the problems of grand strategy in the struggle of the United Nations against the Axis; the coordination of military, economic, and political efforts; strategic developments in the different theaters of the war.

131A–133B. International Law. (3–3) Yr. Mr. Steiner
A critical analysis of the general principles of the law of nations as demonstrated in the decisions of international and municipal tribunals and in the practices of nations.

136. Problems of the Pacific Area. (3) I. Mr. Steiner
A contemporary survey of the internal problems of China and Japan and of the factors underlying Sino-Japanese conflict; also, a brief summary of the problems of other powers having interests in the Pacific.

138. International Relations of the Far East. (3) II. Mr. Steiner
A survey of the relations of China and Japan with the western world and with each other, with an analysis of their conflicting interests.

141. Political Parties and Practical Politics. (3) II. Mr. McHenry
An analysis of the organization, functions, and activities of political parties; a study of pressure groups and defensive mechanisms to offset political programs; and an introduction to the technique of playing practical politics.

* Not to be given, 1942–1948.
142. Elections. (2) I. Mr. Titus
An analysis of the history, rules, procedure, techniques, and politics of the American system of elections.

143. Legislatures and Legislation. (2) II. Mr. Grant, Mr. McHenry
The functions of legislatures, the organization and procedure of typical legislative bodies, and the problems and principles of law making.

146. Public Opinion and Propaganda. (2) I. Mr. McHenry
Prerequisite: one upper division course in political science.
A study of the nature and the means of formation of public opinion. Public opinion as a factor in popular government and as a control device in the modern state with special reference to current conditions in American democracy.

151. The Governments of Latin America. (3) I. Mr. Fitzgibbon
The governments of representative states: a study of constitutional development, political practices, and the elements of strength and weakness in contemporary governmental organization.

153. The Governments of the British Empire. (2) I. Mr. McHenry
The constitutional and political relations of the imperial and Dominion governments; the governments of India, the crown colonies, the protectorates and the mandated territories.

154. The Governments of Central Europe. (3) I. Mr. Graham
An intensive study of the breakdown of the Austro-Hungarian Empire and the constitutional reorganization of the Danubian Succession States, with special attention to contemporary and political issues, parties, elections, and foreign relations.

155. The Governments of Eastern Europe. (3) II. Mr. Graham
An intensive study of the breakdown of the Russian Empire and the constitutional reorganization of the Soviet Union and the Baltic States, with special attention to contemporary political issues, parties, elections, and foreign relations.

156. Administrative Law. (3) I. Mr. Haines
The rights, duties, and liabilities of public officers; relief against administrative action; extraordinary legal remedies; jurisdiction, conclusiveness, and judicial control; legal principles and tendencies in the development of public administration.

157A–157B. Constitutional Law. (3–3) Yr. Mr. Haines, Mr. Grant
General principles of constitutional law, federal and state; relations and powers of the federal government and the states; limitations on the federal government and the protection accorded to individual rights under the American constitutional system.

158. Government and Business. (3) II. Mr. Grant
Governmental activities in the preservation and regulation of competition, with special emphasis upon problems of administration and intergovernmental cooperation. Regulation of trades and professions.

* Not to be given, 1942–1948.
162. Municipal Government. (3) I. Mr. Stewart, Mr. Crouch
A comparative study of the modern municipality in the United States and the principal countries of Europe; history and growth of cities; relation of city to the state; legal aspects of city government; parties and electoral problems; types of municipal organization, mayor and council, commission, and city manager; problems of metropolitan areas.

163. Municipal Administration. (3) II. Mr. Stewart, Mr. Crouch
Development of modern concepts and methods of administration in cities; management and control of administrative organization, city planning, financial administration, protection of life and property, health, housing, social welfare, municipal utility administration.

181. Principles of Public Administration. (3) I, II. Mr. Stewart, Mr. Crouch
Development of public administration and its relation to other branches of government; the process of centralization; the process of integration; reorganization of administration; budgets; purchasing; problems of personnel; and types of control of the administration.

*182. Lectures in Public Administration. (1) II. Mr. Stewart, Mr. Crouch
May be taken twice for credit.
A special series of lectures offered by members of the department and public officials on various contemporary problems of public administration, with special reference to the metropolitan community.

183. Problems in Public Administration. (3) II. Mr. Stewart, Mr. Crouch
In 1942-1943 this course will emphasize problems and techniques of governmental planning, public welfare, and finance administration. Attention will be given to the case method of study.

185. Public Personnel Administration. (3) I. Mr. Stewart
Evolution of public employment policies; a study of the principles and practices of public service personnel, including recruitment, promotion, morale and discipline, retirement, classification, compensation, unions of employees, organization of the personnel agency, and training for public employment.

199A–199B. Special Problems in Political Science. (2–2) Yr.
Prerequisite: credit for six units of upper division courses in political science, and the special requirements necessary for the field selected for special study. Permission to register for this course is required.

GRADUATE COURSES

250A–250B. Seminar in Latin-American Relations. (2–2) Yr.
Mr. Fitzgibbon

252A–252B. Seminar in Public Law. (2–2) Yr.
Mr. Haines

* Not to be given, 1942–1943.
253A–253B. Seminar in International Relations. (2–2) Yr. Mr. Steiner
254A–254B. Seminar in Public Administration. (2–2) Yr. Mr. Stewart
*255A–255B. Seminar in Comparative Constitutional Law. (2–2) Yr. Mr. Grant
256A–256B. Seminar in Comparative Government. (2–2) Yr. Mr. Graham
*257A–257B. Seminar in Political Theory. (2–2) Yr. —
259A–259B. Seminar in Political and Electoral Problems. (2–2) Yr. Mr. McHenry
*262A–262B. Seminar in Municipal Government. (2–2) Yr. Mr. Stewart
275A–275B. Special Study and Research. (2–6; 2–6) Yr. The Staff

AMERICAN INSTITUTIONS
101. American Institutions. (2) I, II. Mr. Crouch, Mr. Kelso
This course satisfies the "Requirement of American Institutions." (See page 39.) It may not be applied toward the political science major, and is not open to students who have credit for Political Science 3A.

The fundamental nature of the American constitutional system and of the ideals upon which it is based.

BUREAU OF GOVERNMENTAL RESEARCH
The Bureau of Governmental Research was established in 1937 chiefly to perform the three functions of: (1) maintaining a collection of current pamphlets, periodicals, and documents relating to public administration and local governments; (2) providing facilities for upper division and graduate students and members of the faculty to pursue study and research in public administration, local government, and related fields; and (3) conducting studies of governmental functions of particular interest to southern California and cooperating with public officials in solving their administrative problems.
Further information may be obtained by consulting the Director, Mr. Frank M. Stewart, Room 42, Library.

* Course 255A, first term, will not be given, 1942–1943.
* Not to be given, 1942–1943.
Letters and Science List.—All undergraduate courses in psychology are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Required: courses 21 and 22; and a coherent group of courses totaling 16 or more units, chosen with regard to the student's proposed direction of major work in psychology and the ultimate field of application. The list of approvable groups may be obtained from the adviser or from the chairman of the department.

The Major.—Course 106A or 107A, and 15 additional units in upper division psychology; the remaining 6 units may be in upper division courses in psychology, or, subject to the approval of the department, in related courses in other departments.

Requirements for the M.A. degree.—The department follows Plan II (see page 106. The list of topics and alternatives for the Comprehensive Examination may be obtained at the department office.

Requirements for the Ph.D. degree.—Permission to proceed to the written part of the qualifying examinations will be based on: (a) fulfillment of the general University requirements; (b) completion of specified upper division courses in addition to the undergraduate major; (c) departmental approval of the applicant's program, and of his probable qualifications for the making of a competent psychologist; and (d) consideration of the probability of the applicant's securing employment in his chosen field. The department will endorse petitions for candidacy, and request appointment of doctoral committees, only for applicants who have passed with credit the written examinations. Detailed statements of the requirements may be obtained from the chairman of the department.


* Absent on leave, 1942–1943.
21. Introductory Psychology. (3) I, II. Mr. Gilhousen in charge
   Consideration of facts and principles pertaining to the topics of per-
   ception, imagination, thought, feeling and emotion, leading to the prob-
   lems of experimental psychology, and the topics of intelligence and personality.

22. Elementary Physiological Psychology. (3) I, II. Miss Fisher in charge
   Prerequisite: course 21 or course 1A taken in previous years.
   Study of the integrative relations of psychological processes to nerv-
   ous, muscular and glandular features of the response mechanism; including
   the structure and functions of the sense organs.

23. Personal Applications of Psychology. (3) I, II. Mr. Dunlap
   Prerequisite: course 21 or course 1A taken in previous years.
   Orientation in the practical use of psychological principles in prob-
   lems and circumstances encountered in college and later life.

UPPER DIVISION Courses
Courses 21 and 22 are normally prerequisite to all upper division courses. Exceptions to the requirement are made only for courses for which the exceptions are specifically stated.

101. Principles of Psychology. (3) I, II. Miss Gordon
   Open to upper division students who do not have credit for courses
   21 and 22. May be offered in substitution for courses 21 and 22 as the pre-
   requisite to further upper division courses.
   A critical discussion of the basic topics in psychology. Elementary
details, including essential information concerning nervous, muscular and
and glandular mechanisms will be covered by examinations based on readings.

106A-106B. Experimental Psychology. (3-3) Yr. Mr. Dorcus
   Lectures and demonstration, two hours; laboratory, two hours; assigned
   readings. Fee, $8.50 a term.
   Methods, techniques, and typical results in experimental research in
psychology.

107A. Mental Measurements. (3) I. Miss Sullivan
   Prerequisite: course 23 may be accepted in place of course 22, Fee, $3.50.
   A study of the construction, techniques of application, and interpre-
tation of tests and scales. Practice in statistical procedures applicable to
data derived from tests.

107B. Mental Measurements. (3) II. Miss Sullivan
   Prerequisite: course 107A. Fee, $3.50
   Continuation of the study of principles of measurement, with practice
in the construction, administration, and scoring of standardized tests and
scales, and their diagnostic interpretation.

108. Physiological Psychology. (3) I. Mr. Fearing
   If not to be counted toward the major in psychology, this course may
be substituted for course 22 as prerequisite to further upper division courses.
   Integrative activities, consciousness, intelligent behavior, receptor and
effector processes in relation to neuromuscular structure and function. Facts,
problems and methods.
110. Educational Psychology. (3) I, II.
Adolescence, maturation, habit formation, formal and informal training.

112. Child Psychology. (3) I, II.
The psychology of the infant and child, with special reference to mental development.

120. History of Psychology, Ancient Period. (3) I.
Mr. Dunlap
Psychological concepts from Homer to the Alexandrian period, outlined in relation to their cultural settings and their influence on modern psychology.

124. History of Psychology, Early Modern Period. (2) II.
Mr. Fearing
The development of psychological theories from Descartes to Helmholtz.

125. History of Psychology, Second Modern Period. (2) I.
Psychological theories and research from Wundt to the end of the nineteenth century.

126. Contemporary Psychology. (2) I.
Miss Fisher
The variant tendencies in current psychology, including critical examination of the more important so-called "schools" of psychology.

127. English Psychology from Hobbes to Bain. (2) II.
Miss Gordon

134. Sensation and Perception. (2) I.
Miss Fisher
Intensive study of sense perception, with reference to the structure and functions of sense mechanisms, and experimental findings.

135. Imagination and Thought. (2) I.
Miss Gordon
Imagination, memory, anticipatory and constructive thinking.

136. Motivation. (2) II.
Mr. Gilhousen
Theories and experimentally determined facts concerning drives, needs, preferences, and desires.

137A–137B. Human Learning. (2–2) Yr.
Mr. Davis
A study of experimental methods and results, with consideration of leading theories.

138. Feeling and Emotion. (3) II.
Mr. Dunlap
The nature and basis of the affective factor in life, with application to problems of personal and social adjustment and development.

145A–145B. Social Psychology, General Course. (2–2) Yr.
Miss Fisher

147. The Psychological Method in the Social Sciences. (3) II.
Mr. Fearing
If this course is not to be counted toward the major in psychology, course 23 may be accepted as a substitute for the prerequisite of course 22.
Psychological factors in major social problems, including social control, propaganda, group conflict, cultural determination, etc.

150A. Animal Psychology. (3) I.
Mr. Gilhousen
Experimental methods and results in the study of the behavior of the lower animals.

* Not to be given, 1942–1943.
150B. Experiments in Animal Psychology. (3) II. 
Mr. Gilhousen
Lecture, one hour; laboratory, six hours. Prerequisite: course 150A.
Fee, $3.50.

166A. Clinical Psychology of Infancy and Childhood. (2) I, II.
Lectures and demonstration. 
Miss Fernald
A study of the problems of the child, including discussion of physical
and mental abnormalities and deficiencies.

166B. Clinical Psychology of Infancy and Childhood. (2) I, II.
Lecture, one hour; clinical work, three hours. Prerequisite: courses
107A and 166A, or equivalent preparation approved by the instructor.
Special emphasis is placed on corrective and preventive methods.

168. Abnormal Psychology. (3) II. 
Mr. Dorcus
Prerequisite: recommended: course 108, or Zoology 35 or 106. Students
may be required, early in the term, to demonstrate an acquaintance with
the elementary facts of structure and function of the nervous system.
Disorders of sensation, perception, feeling, and thought; their nature,
causation, effects on life, and amelioration.

Mr. Petran

175. Psychology of Religion. (3) I. 
Mr. Dunlap
The place of religion in personal and social life and its historical develop-
ment in Western cultures. Specific beliefs are considered only in relation
to their psychological conditions and effects. The function of religion in
the war situation.

177. Psychology and Art. (3) II. 
Miss Gordon
Problems of the appreciation of the materials and ideas of the fine arts,
with special reference to the psychological processes of imagination, feel-
ing, and emotion.

183. Advanced Psychometric Methods. (3) I. 
Prerequisite: course 107B and Mathematics 3B or 7.
The application of higher statistical methods to psychological data.

199. Special Problems in Psychology. (3) I, II. 
Miss Gordon
Prerequisite: courses 106A, 107A, and 6 other units in upper division
psychology. Specific permission to enroll is necessary.

Graduate Courses

211A–211B. Comparative Psychology. (2–2) Yr. 
Mr. Gilhousen
A comparative study of experimental results on man and the lower
animals.

215A–215B. Commercial and Industrial Psychology. (2–2) Yr. 
Mr. Dorcus
Selection and training of employees; factors influencing efficiency of
work.

* Not to be given, 1942–1948.
216. Critical Problems in Psychology. (2) I, II. Miss Gordon
The topic for the fall term will be in the field of feeling and emotion; for the spring term, fundamental postulates of psychology.

217A–217B. Clinical Psychology. (2–2) Yr. Miss Fernald
The prevention of psychological disorders of childhood and adolescence, and their remedy.

218A–218B. Propaganda, Public Opinion and Morale. (2–2) Yr. Mr. Fearing
Particular attention is given to the psychology of pressure groups, psychological factors underlying democracy and fascism, and the problems and methods in the fields of propaganda analysis, public opinion, and morale.

252A–252B. Seminar in Mental Measurements. (3–3) Yr. Miss Sullivan

253A–253B. Seminar in Physiological Psychology. (3–3) Yr. Mr. Fearing

255A–255B. Seminar in Social Psychology. (3–3) Yr. Mr. Dunlap

256A–256B. Seminar in Aesthetics. (3–3) Yr. Miss Gordon

258A–258B. Seminar in Abnormal Psychology. (3–3) Yr. Mr. Dorcus

278A–278B. Research in Psychology. (3–6; 3–6) Yr. Mr. Dorcus, Mr. Gilhouseń

* Not to be given, 1942–1943.
The following courses, organized to meet the need for objective and critical discussion of the issues of the war and the peace, are sponsored by the departments of Economics, Geography, History, Philosophy, Political Science, and Psychology. They are directed by a committee consisting of the chairmen of these departments and a representative of the Dean of the College of Letters and Science.

Prerequisites and Credit.—There are no prerequisites for these courses. They carry either upper or lower division credit, depending on the classification of the student at the time the course is taken.

1. Factors and Issues in the Second World War. (2) I. Mr. Olmsted in charge

Lectures by members of the social science and allied departments on the issues on which the war is being fought, and on the general factors affecting its prosecution.

*2. Problems of the War and the Peace. (2) II. Mr. Olmsted in charge

Lectures on the conduct of the war and on the problems of the war and postwar periods with special reference to the United Nations and the United States.

* May not be given, 1942–1943.
SPANISH AND ITALIAN*

CÉSAR BARJA, Doctor en Derecho, Professor of Spanish.
LAURENCE DeANE BAILIFF, Ph.D., Associate Professor of Spanish.
MANUEL PEDRO GONZÁLEZ, Ph.D., Associate Professor of Spanish-American Literature.
ERNEST H. TEMPLIN, Ph.D., Associate Professor of Spanish.
MARIAN ALBERT ZEITLIN, Ph.D., Associate Professor of Spanish (Chairman of the Department)
HERMENEGILDO CORBATÓ, Ph.D., Assistant Professor of Spanish.
JOHN A. CROW, Ph.D., Assistant Professor of Spanish.
ANNA KRAUSE, Ph.D., Assistant Professor of Spanish.
CHARLES SPERONI, Ph.D., Assistant Professor of Italian.
MARIA L. DE LOWTHER, M.A., Associate in Spanish.
FRANCISCO MONTAU, A.B., Associate in Spanish.
PERINA PIZIALI, M.A., Associate in Italian and Associate in Clinical Psychology.
SYLVIA N. BYAN, M.A., Associate in Spanish.

Letters and Science List.—All undergraduate courses in Spanish except 10 are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—(1) Courses 1, 2, 3A, 3B, and 20 or 25A-25B or the equivalent to be tested by examination. (2) Students who wish to make Spanish their major subject must have maintained at least an average grade of C in the college courses in Spanish taken prior to admission to the upper division. (3) A minimum of two years of high school Latin, French, German, or Italian, or Latin A and B, or English 36A-36B, or History 8A-8B. This requirement must be completed before entering upon the senior year. (4) Only students who pronounce Spanish correctly and read it fluently will be admitted to upper division courses. Students transferring from other institutions may be tested by oral examinations. (5) English 1A-1B.

Note.—Students who have not completed course 20 or 25A-25B with grade A or B in the lower division must take 101A-101B.

The Major.—Required: 24 units of upper division courses, including 102A-102B and 116A-116B. The remaining units may include not more than 4 units of upper division work in French, Italian, or Latin literature, or may be completed from courses 101, 104, 108, 109, 110, 114, 115, 124, 134, and Portuguese 101B. Students who desire to satisfy the major requirement specializing in the Spanish-American field may do so by completing courses 102A-102B, 104A-104B, 114, 116A-116B, 124, and 134.

Students who fail to maintain at least an average grade of C in the Spanish courses taken in the upper division will, upon approval of the Dean of the College of Letters and Science, be excluded from the major in Spanish.

The department recommends as a supplementary choice among the free electives: (1) history of the country or countries most intimately connected with

* The University of California at Los Angeles does not offer a major in Italian. Students wishing to satisfy the requirement for a major in Italian are referred to the GENERAL CATALOGUE, Departments at Berkeley.
the major; (2) additional study in Latin and English literature; (3) French, German, Greek, and Italian language and literature; (4) the history of philosophy.

Two years of high school Latin, or the equivalent, are prerequisite to candidacy for the master's degree in Spanish.

SPANISH

LOWER DIVISION COURSES

The prerequisites for the various lower division courses are listed under these courses. Students whose high school record seems to warrant it may by examination establish their right to take a more advanced course upon recommendation of the instructor.

1. Elementary Spanish. (5) I, II. Miss Ryan in charge
   This course corresponds to the first two years of high school Spanish.

1A. Elementary Spanish. (3) I, II. Miss Ryan in charge
   This course corresponds to the first year of high school Spanish. Not open to majors in Spanish.

1B. Elementary Spanish. (3) I. Miss Ryan in charge
   Prerequisite: one year of high school Spanish or Spanish IA. Not open for credit to students who have had Spanish 1 or S1 in a summer session.

2. Elementary Spanish. (5) I, II. Miss Ryan in charge
   Prerequisite: course 1 or two years of high school Spanish or Spanish S1 in a summer session with satisfactory grade.

3. Intermediate Spanish. (5) I, II. Miss Ryan
   Prerequisite: course 2 or three years of high school Spanish. Primarily for students whose major interest is Spanish.

3A. Intermediate Spanish. (3) I, II. Miss Ryan in charge
   Prerequisite: course 2 or three years of high school Spanish.

3B. Intermediate Spanish. (3) I, II. Miss Ryan in charge
   Prerequisite: course 3A or four years of high school Spanish.

8A–8B. Spanish Conversation. (1–1) Beginning each term. Mr. Bailiff in charge
   The class meets two hours weekly. Open to students who have completed course 2 or its equivalent with grade A or B.

10. Commercial Spanish. (3) I, II. Miss Ryan
    Prerequisite: course 3A or four years of high school Spanish. Required of all majors in business administration who elect Spanish to fulfill their language requirement. Not on the Letters and Science List of Courses.

20. Grammar Review. (5) I, II. Miss Ryan
    Prerequisite: same as for course 25A–25B.
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25A–25B. Advanced Spanish. (3–3) Yr. Miss Krause, Mrs. Lowther
For lower division students who have had course 3B or the equivalent. Designed especially for freshmen and sophomores who propose to make Spanish their major subject.

42A–42B. Spanish Civilization. (2–2) Yr. Mr. Barja
Prerequisite: sophomore standing. Lectures are in English, reading in Spanish or English. Required of major students in Spanish.
A study of the growth and development of Spanish culture in the various fields.

UPPER DIVISION COURSES

Prerequisite: 16 units of lower division Spanish or the equivalent.
Major students who enter the upper division without course 20 or 25A–25B must take 101A–101B.

Junior Courses: Courses 101A–101B and 102A–102B.

101A–101B. Oral and Written Composition. (3–3) Yr. Mr. Corbató, Miss Krause, Mr. Templin

102A–102B. Survey of Spanish Literature to 1900. (3–3) Yr. Mr. Zeitlin
Prerequisite: course 42A–42B. Required of major students in Spanish.

104A–104B. Survey of Spanish-American Literature. (3–3) Yr. Mr. Crow
Lectures and reading.
A study of the principal authors of Spanish America.

108A–108B. Spanish Literature from 1850–1898. (2–2) Yr. Mr. Barja
A study of Spanish Realism in the second half of the nineteenth century.

109A–109B. Spanish Literature from 1700–1850. (2–2) Yr. Mr. Corbató
A study of the Neo-classic and Romantic movements.

110A–110B. Contemporary Literature. (2–2) Yr. Mr. Templin
Reading and discussion of contemporary writers.

114. Mexican Literature. (3) I. Mr. González

115A–115B. Readings in Classical Literature. (2–2) Yr. Mr. Zeitlin
Students planning to take graduate work in Spanish are expected to take this course or offer an equivalent.

116A–116B. Advanced Composition. (3–3) Yr. Mr. Bailiff
Required of Spanish majors.

124. Argentine Literature. (3) II. Mr. González

134. The Argentine Novel. (3) II. Mr. González

* Not to be given, 1942–1943.
Spanish and Italian 279

184. Latin-American Civilization. (3) I. Miss Krause
A synthetic view of the forces, European and indigenous, geographic
and social, which have influenced the people and culture of the Hispanic
republics and Brazil. Attention will be given to distinctive forms of expres-
sion in the field of the arts and their significance for the creation of national
cultures.

GRADUATE COURSES†

• 201. Studies in Lyric Poetry. (2) II. Mr. Bailiff

• 204. The Gaucho Epic. (2) II. Mr. González
Prerequisite: course 124 or 134. Lectures, outside reading, reports, and
intensive reading in class.

205A–205B. Prose Masterpieces of the Sixteenth and Seventeenth Centuries,
(2–2) Yr. Mr. Barja

209A–209B. The Drama of the Golden Age. (2–2) Yr. Mr. Templin

210A–210B. Contemporary Literature. (2–2) Yr. Mr. Barja

212A–212B. Historical Grammar and Old Spanish Readings. (2–2) Yr.
Mr. Zeitlin

224. The Contemporary Mexican Novel. (2) II. Mr. González
Prerequisite: course 114.

• 230. Ballads. (2) II. Mr. Templin

234. The Modernista Movement in Spanish America. (2) I. Mr. González
Prerequisite: course 114 or 104B.

• 245A–245B. Realism and Naturalism in the Nineteenth Century. (2–2) Yr.
Mr. Barja

PROFESSIONAL COURSE IN METHOD

370. The Teaching of Spanish. (3) I, II. Mrs. Lowther
Required of all candidates for the general secondary credential whose
major subject is Spanish. To be taken concurrently with Education 370, or
in the last half of the senior year.

ITALIAN

LOWER DIVISION COURSES

1. Elementary Italian. (5) I, II. Mr. Speroni
Essentials of grammar; reading of easy texts.

1A–1B. Elementary Italian. (3–3) Yr.
This course covers in two terms the work of course 1.

2. Elementary Italian. (5) I, II. Miss Piziali
Prerequisite: course 1, or one year of high school Italian.

† All candidates for the degree of Master of Arts must offer at least two years of high
school Latin, or the equivalent.
* Not to be given, 1942–1943.
Spanish and Italian

3A. Intermediate Italian. (3) I, II.  
Mr. Speroni  
Prerequisite: course 2, or two years of high school Italian.

3B. Intermediate Italian. (3) I, II.  
Mr. Speroni  
Prerequisite: course 3A, or three years of high school Italian.

*42A–42B. Italian Civilization. (2–2) Yr.  
Given in English; not open to students who have taken or are taking course 103A–103B.

UPPER DIVISION COURSES

Sixteen units of lower division courses in Italian are required for admission to any upper division course. All upper division courses are conducted mainly in Italian.

101A–101B. Composition, Oral and Written. (3–3) Yr.  
Mr. Speroni

*103A–103B. Survey of Italian Literature. (3–3) Yr.

Prerequisite: 6 units of upper division Italian, or the equivalent.

PORTUGUESE

LOWER DIVISION COURSES

1. Elementary Portuguese. (4) I.  
Mr. Zeitlin  
This course corresponds to the first two years of high school Portuguese.

2. Elementary Portuguese. (4) II.  
Mr. Zeitlin  
Prerequisite: course 1 or two years of high school Portuguese.

UPPER DIVISION COURSE

101A–101B. Grammar, Composition, and Reading of Texts. (3–3) Yr.  
Mr. Zeitlin

RELATED COURSES (See page 171)

Romance Languages and Literatures

201. Historical Grammar and Methodology of Romance Linguistics.  
(2–2) Yr.  
Mr. Nitze

*203A–203B. Old Provençal: Reading of Texts. (2–2) Yr.  
Mr. Templin

*235. Romance Versification. (2) I.  
Mr. Bailiff

*252. Methodology of Romance Phonetics: Seminar. (2) II.
SUBJECT A: ENGLISH COMPOSITION

CARL SAWYER DOWNES, Ph.D., Assistant Professor of English, Chairman, Committee on Subject A.

*JAMES K. LOWERS, M.A., Supervisor of Instruction in Subject A.
VIVIAN T. FURMAN, M.A., Associate in Subject A.
MARY-ELIZABETH C. KIBBEY, M.A., Associate in Subject A.

Subject A. (No credit) I, II. The Staff

Fee, $10.

Three hours weekly for one term. Although this course yields no credit, it displaces 2 units on the student's program. Every student who does not pass the examination in Subject A is required to take, in the term immediately following this failure, the course in Subject A. Sections are limited to thirty students. For further details, see page 38.

Training in correct writing, including drill in sentence and paragraph construction, diction, punctuation, grammar, and spelling. Weekly compositions and written tests on the text.

* Absent on leave, 1942–1948.
Zoology

ZOOLOGY

Bennet M. Allen, Ph.D., Professor of Zoology.
Albert W. Bellamy, Ph.D., Professor of Zoology (Chairman of the Department).
Loyd Holmes Miller, Ph.D., Professor of Biology.
Gordon H. Ball, Ph.D., Associate Professor of Zoology.
Raymond B. Cowles, Ph.D., Associate Professor of Zoology.
Sarah Rogers Atsatt, Ph.D., Assistant Professor of Zoology.
Boris Krichesky, Ph.D., Assistant Professor of Zoology.
Edgar L. Lazier, Ph.D., Assistant Professor of Zoology.
A. Mandel Schechtman, Ph.D., Assistant Professor of Zoology.
Francis B. Sumner, Ph.D., Professor of Biology, Scripps Institution of Oceanography.
Martin W. Johnson, Ph.D., Assistant Professor of Marine Biology, Scripps Institution of Oceanography.
Tsze Tuan Chen, Ph.D., Lecturer in Zoology.
Herbert S. Jennings, Ph.D., Research Associate in Zoology.
Marion L. Queal, Ph.D., Research Associate in Zoology.

Letters and Science List.—All undergraduate courses in this department are included in the Letters and Science List of Courses. For regulations governing this list, see page 68.

Preparation for the Major.—Zoology 1, 2, 13, 14; or 15, 2, 14, and one year of college chemistry, preferably 3A–3B. French and German are recommended.

The Major.—Eighteen units of upper division work in zoology and 6 units of upper division work chosen from zoology or from approved related courses in anthropology, bacteriology, botany, chemistry, entomology, home economics, mathematics, paleontology, physics, or psychology. Of the 18 upper division units in zoology at least 4 units must be taken in each of the three following groups of courses:

Group 1: Courses 101, 103, 111, 113, 120, 131.
Group 2: Courses 104, 105, 106, 107, 107C, 111C.
Group 3: Courses 112, 113, 113C, 115, 115C.

Curriculum for Medical Technicians.—For details see the ANNOUNCEMENT OF THE COLLEGE OF LETTERS AND SCIENCE, LOS ANGELES.

Laboratory Fees.—Zoology 1, 2, 13, $3.50; 4, $6; 14, $2; 15, $6; 16, 35, 105, 131, 133, $3.50; 106, $8.50; 107C, $6; 111C, $3.50; 112, $2.50; 115C, $3; 199A, 199B, $3.50.

ZOOLOGY

LOWER DIVISION COURSES

1. General Zoology. (3) I, II.

Lectures, two hours; laboratory, three hours. Fee, $3.50.

An introduction to the facts and principles of animal biology.

* In residence spring term only, 1948–1949.
2. General Zoology. (3) I, II. Mr. Lazier
   Lectures, two hours; laboratory, three hours. Prerequisite: course 1.
   Fee, $3.50.

4. Microscopical Technique. (2) I, II. Mr. Schechtman
   Laboratory, six hours; assigned readings. Prerequisite: high school
   chemistry and courses 1 and 13, or the consent of the instructor. Fee, $6.
   The preparation of tissues for microscopical examination.

13. Elementary Physiology. (3) I, II. Miss Atsatt
   Lectures, two hours; laboratory, three hours. Prerequisite: course 1
   and five units of college chemistry. Fee, $3.50.
   An introduction to vertebrate morphology and physiology with special
   reference to human physiology.

14. Elementary Embryology. (2) I, II. Mr. Lazier
   Lecture, one hour; laboratory, three hours. Prerequisite: courses 1 and
   2, or 1 with the consent of the instructor. Fee, $2.
   An introduction to embryology with emphasis on the vertebrates.

15. Introductory Zoology and Physiology. (5) I. Miss Atsatt, Mr. Bellamy
   Lectures, three hours; laboratory, six hours. Prerequisite: Chemistry
   1A or 2A. Fee, $7.
   A combination of courses 1 and 13.

16. Applied Human Physiology. (2) I, II. Miss Atsatt
   Lectures, two hours; laboratory, three hours. Prerequisite: course 13
   or 15. Fee, $3.50.

18. Human Biology. (2) II. Mr. Allen
   Prerequisite: an elementary college course in biology, botany, or zoology.
   A biological consideration of man and his institutions; lectures, discus-
   sions, readings and reports.

35. General Human Anatomy. (3) II. Miss Atsatt
   Lecture, two hours; laboratory, three hours. Prerequisite: sophomore
   standing; course 1 or 15. Fee, $3.50.

**Upper Division Courses**

101. Physiological Biology. (2) I. Mr. Krichesky
   Lectures, readings, and demonstrations. Prerequisite: course 1 and 13
   or 15 or Botany 1A, and Chemistry 8 and 9, or the equivalent.
   Physicochemical processes and the principles of living matter.

103. Experimental Zoology. (2) I. Mr. Schechtman
   Lectures and reports on articles in scientific journals. Prerequisite:
   courses 1, 2, 14, or the consent of the instructor.
   Factors governing cell-differentiation; a survey of the results of experi-
   mental embryology, transplantation, regeneration, and tissue culture.

* Not to be given, 1942–1948.
104. Vertebrate Paleontology. (3) I.
Mr. Miller
Lecture, one hour; laboratory, six hours. Prerequisite: courses 1, 2.
A study of the structure and the evolution of the mammals of the western hemisphere.

105. Mammalian Embryology. (3) II.
Mr. Allen
Lecture, one hour; laboratory, six hours. Prerequisite: courses 1 and 2, or 14. Fee, $3.50.
Emphasis on man, rat, and pig.

106. Comparative Anatomy of the Vertebrates. (4) I.
Mr. Lazier
Lecture, two hours; laboratory, six hours. Prerequisite: courses 1, 2, 13, 14. Fee, $8.50.
A study of the structural relationships of the vertebrates. Dissection of the elasmobranch, amphibian, and mammal.

107. Microanatomy. (2) II.
Mr. Krichesky
Prerequisite: courses 1, 13, 14.
The structure and activities of the cell, with emphasis on the mammals.

107C. Microanatomy Laboratory. (2) II.
Mr. Krichesky
Prerequisite or concurrent: course 107. Fee, $6.

110. Protozoology. (4) I.
Mr. Ball
Lectures, two hours; laboratory, six hours. Prerequisite: courses 1, 2. Fee, $3.50.
Morphology, physiology, and ecology of free living and parasitic protozoa.

111. Parasitology. (2) II.
Mr. Ball
Prerequisite: courses 1, 2.
General discussion of the biological aspects of parasitism and of the animal parasites of man and the domestic animals.

111C. Parasitology Laboratory. (2) II.
Mr. Ball
Prerequisite or concurrent: course 111. Fee, $3.50.

112. Advanced Invertebrate Zoology. (4) I.
Mr. Ball
Lectures, two hours; laboratory and field, six hours. Prerequisite: courses 1, 2. Fee, $2.50.
Morphology, habits, habitats, and life histories of both marine and fresh water invertebrates, with especial reference to local faunas.

113. Vertebrate Zoology. (2) II.
Mr. Cowles
Prerequisite: courses 1, 2.
Emphasis upon the habits, distribution, and ecology of the avifauna of California.

113C. Vertebrate Zoology Laboratory. (2) II.
Mr. Cowles
Prerequisite or concurrent: course 113.

115. Vertebrate Zoology. (2) I.
Mr. Cowles
Prerequisite: courses 1, 2.
Ecology, distribution, and habits of the cold-blooded vertebrates.
115C. Vertebrate Zoology Laboratory. (2) II.  Mr. Cowles
Prerequisite: course 115. Fee, $3.
The ecology and taxonomy of the cold-blooded vertebrates.

117. Zoological Theories and Concepts. (2) II.  Mr. Bellamy
Readings, discussions, and lectures. Prerequisite: 6 units of upper division zoology.
The history and development of basic concepts and theories concerning organisms.

118. Endocrinology. (2) I.  Mr. Allen
Prerequisite: courses 1 and 13, or 15. Lectures and reports on articles in scientific journals.

130. Genetics. (2) I.  Mr. Bellamy
Lectures and discussions, two hours. Prerequisite: one year of college zoology.
The student is given an opportunity to become familiar with the principles of heredity and research methods in genetics.

131. Genetics Laboratory. (2) I.  Mr. Bellamy
Laboratory, six hours. Prerequisite or concurrent: course 130. Fee, $3.50.

132. Advanced Genetics. (2) II.  Mr. Bellamy
Lectures, two hours; seminar, one hour. Prerequisite: course 131.
A continuation of course 130 with special reference to experimental evolution.

133. Advanced Genetics Laboratory. (2) II.  Mr. Bellamy
Laboratory, six hours. Prerequisite or concurrent: course 132. Fee, $3.50.

199A–199B. Problems in Zoology. (2–2) Yr.  Mr. Allen and the Staff
Prerequisite: course 13 or 15, with such special preparation as the problem may demand. Fee, $3.50 a term.

GRADUATE COURSES

250. Survey of Animal Biology; Seminar. (3) II.  The Staff

251A–251B. Seminars in Ecology.  Mr. Miller, Mr. Cowles, Mr. Johnson
Section 1. Warm Blooded Vertebrates. (1–1) Yr.  Mr. Miller
Section 2. Cold Blooded Vertebrates. (1–1) Yr.  Mr. Cowles
Section 3. Invertebrates. (1) I.  Mr. Johnson

252A–252B. Seminars in Endocrinology.  Mr. Allen, Mr. Kriehesky
Section 1. Growth and Development. (1–1) Yr.  Mr. Allen
Section 2. Physiology of Reproduction. (1–1) Yr.  Mr. Kriehesky

253A–253B. Seminars in Genetics and Evolution. (2–1) Yr.  Mr. Bellamy, Mr. Sumner, Mr. Chen

* Not to be given, 1942–1948.
254A–254B. Seminars in Experimental Zoology. (2–2) Yr.
Mr. Schechtman, ———

255A–255B. Seminars in Protozoology and Parasitology. (2–2) Yr.
Mr. Ball

290A–290B. Research in Zoology. (2–6; 2–6) Yr.
The Staff

PALEONTOLOGY†

LOWER DIVISION COURSE

1. General Paleontology. (2) I.
Lectures, quizzes, and two required Saturdays in the field.

A discussion of the general principles of paleontology, the influences that surrounded the ancient life of the earth, and some of the ways in which animals respond to such influences.

RELATED COURSES IN ANOTHER DEPARTMENT (see page 215)

Biology 1. Fundamentals of Biology. (3) I, II.
Mr. Cowles, Miss Scott

Biology 12. General Biology. (3) II.
Mr. Cowles, ———

Mr. A. M. Johnson

† Courses in invertebrate paleontology are offered by the Department of Geology (see page 195).
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