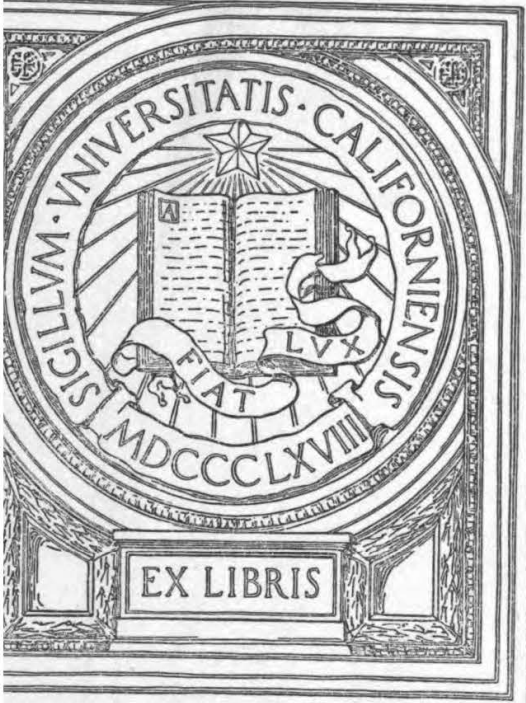
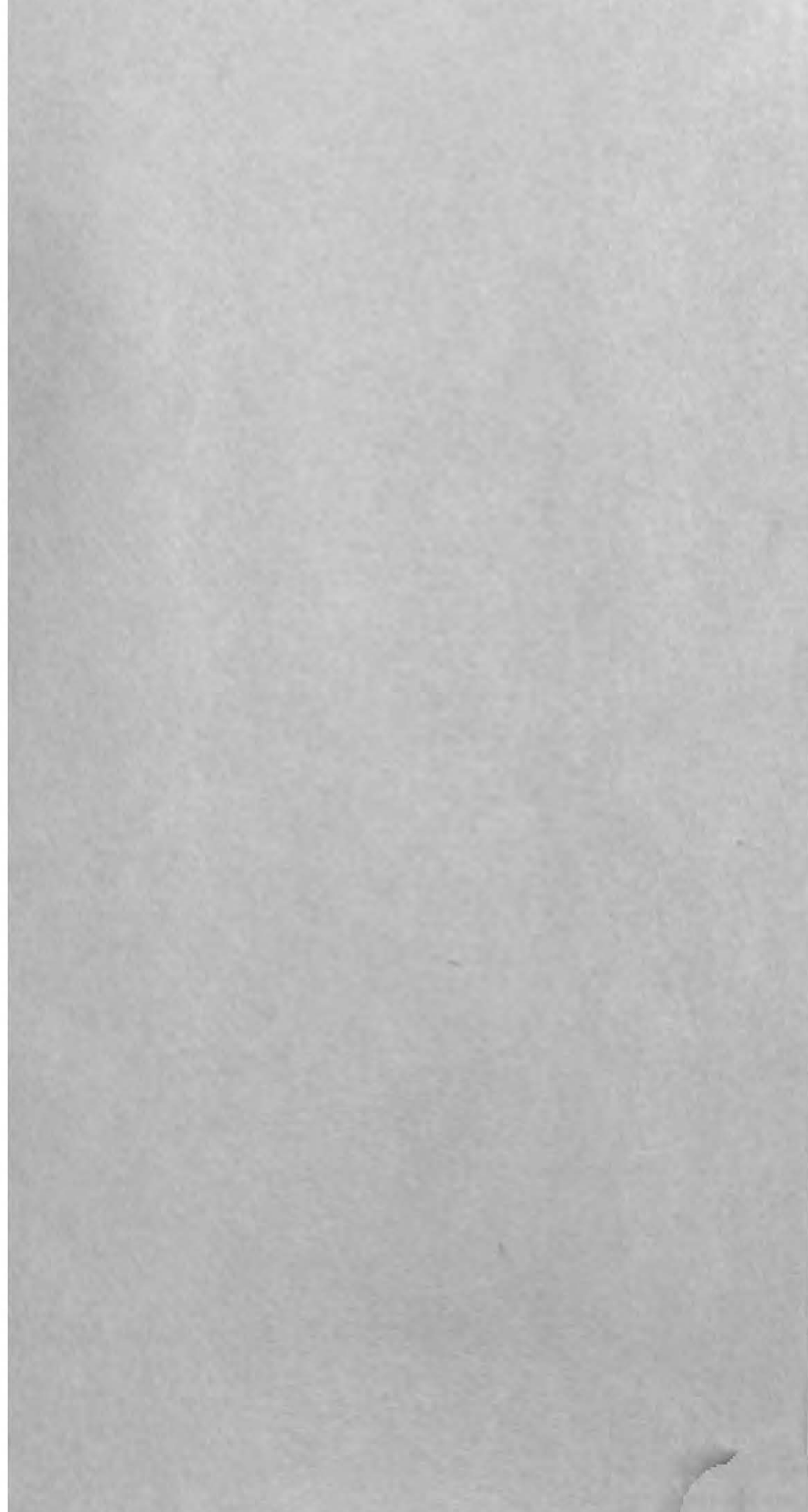


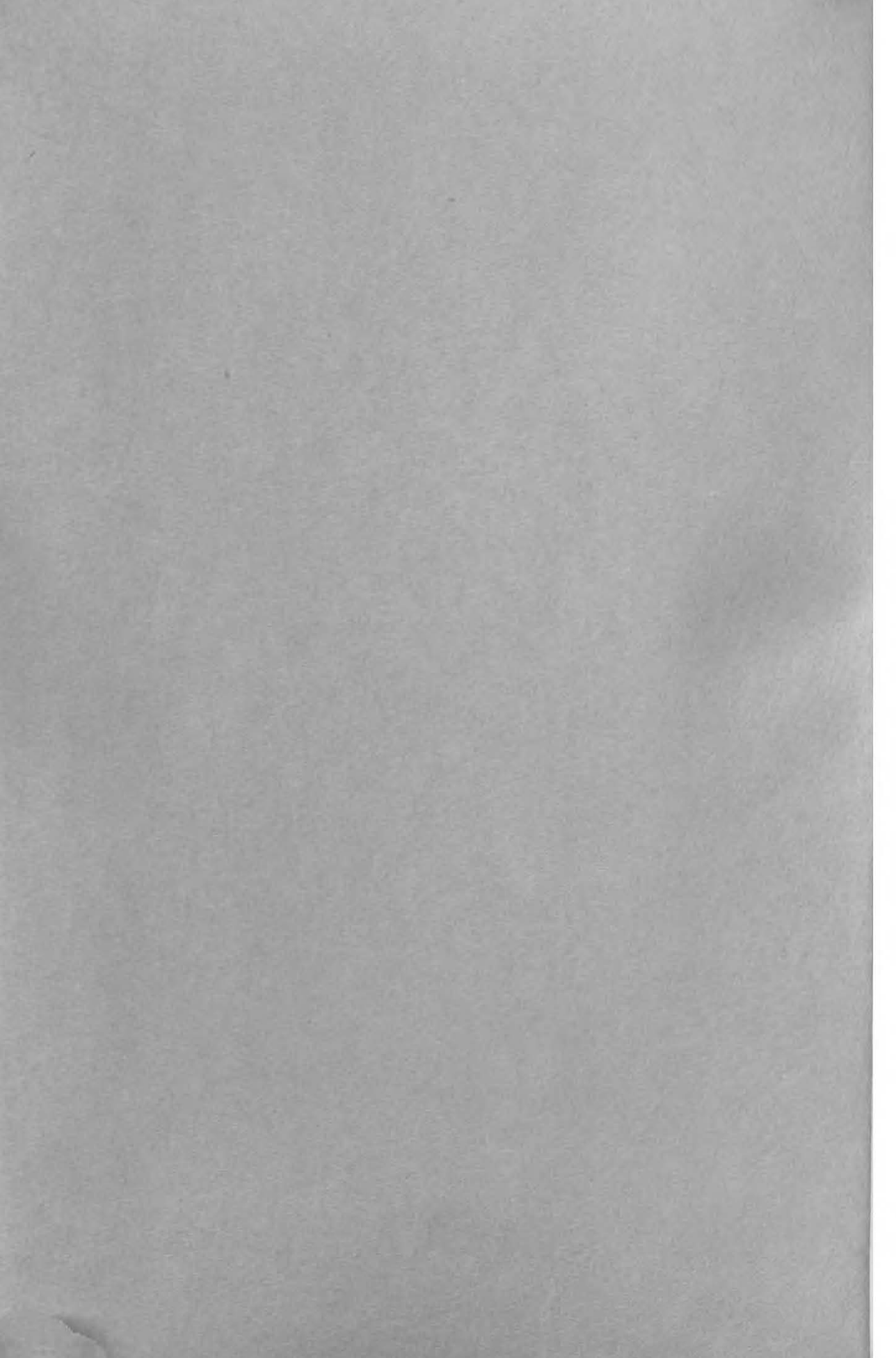
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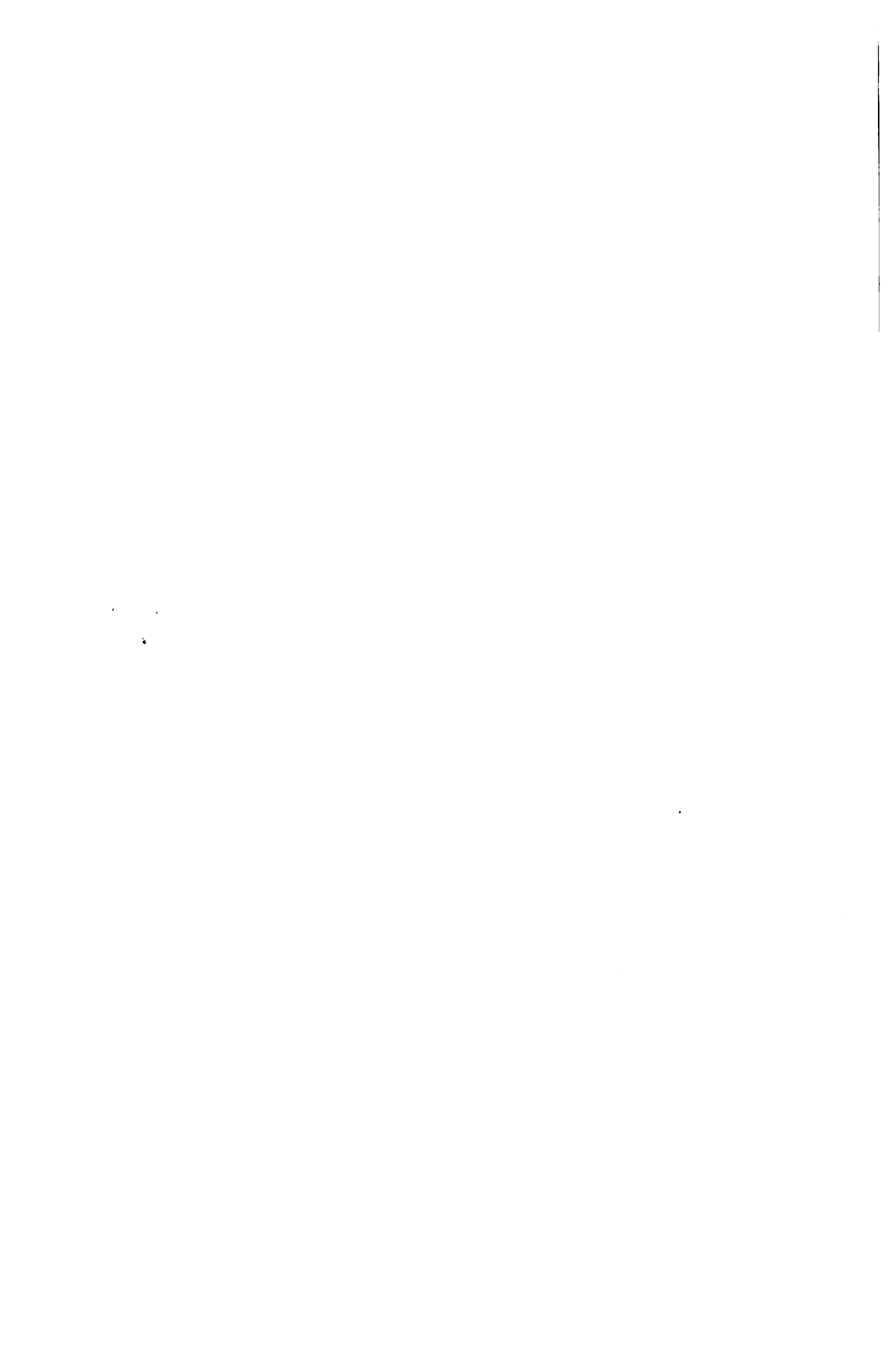


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with Announcements for 1948-1949

IN TWO VOLUMES

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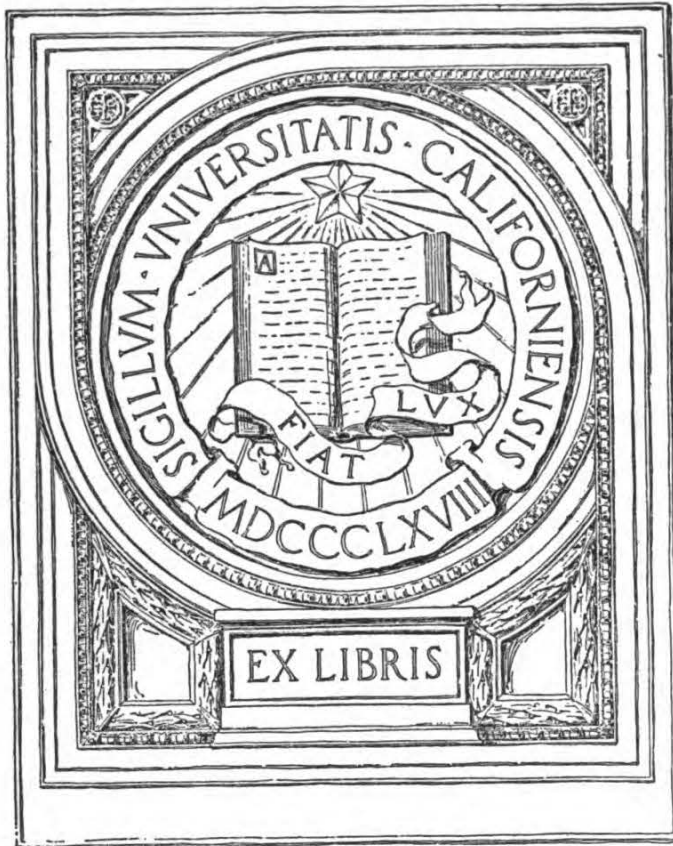
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UNIVERSITY OF CALIFORNIA

LICK ASTRONOMICAL
DEPARTMENT
(*Lick Observatory*)

MOUNT HAMILTON, CALIFORNIA

APRIL, 1949

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UNIVERSITY OF CALIFORNIA

LICK ASTRONOMICAL
DEPARTMENT

(Lick Observatory)

MOUNT HAMILTON, CALIFORNIA

APRIL, 1949

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LICK ASTRONOMICAL DEPARTMENT

(*Lick Observatory*)

OFFICERS OF THE OBSERVATORY

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GERALD E. KRON, Ph.D., Associate Astronomer.

FERDINAND J. NEUBAUER, Ph.D., Associate Astronomer and Librarian.

NICHOLAS U. MAYALL, Ph.D., Associate Astronomer.

HAROLD F. WEAVER, Ph.D., Assistant Astronomer.

CARL A. WIRTANEN, M.A., Senior Observing Assistant.

HISTORY OF THE LICK OBSERVATORY

THE LICK OBSERVATORY was founded by James Lick, a pioneer citizen of San Francisco, through a deed of trust dated September 21, 1875, which provided the sum of \$700,000 for the purchase of land and the establishment thereon of a telescope and observatory of particular specifications. Of this sum there remained upon the completion of the project, in 1888, an unexpended balance of \$90,000, which amount, under the terms of the trust, has been conserved as an endowment. The site of the Observatory was chosen by Mr. Lick. Further particulars relating to the provisions of his deed of trust, and to the history of the Observatory, are recorded in a pamphlet referred to on page 7. Mr. Lick's gift was acknowledged by the Regents on December 7, 1875.

SITUATION

The Observatory stands on the summit of Mount Hamilton, in Santa Clara County. The Mountain, which is the highest peak of its section of the Coast Range of California, lies thirteen miles due east of San Jose, and the Observatory is accessible from that city by a good road twenty-five miles in length. The elevation above sea level is 4,209 feet. The Observatory estate consists of a range of mountain- and woodland of more than 3,000 acres. The setting is superb and the environment is admirably suited to the purposes of the Observatory.

BUILDINGS AND INSTRUMENTS

The establishment consists of a *main building*, containing offices, computing rooms, a library of about 20,000 books and 6,000 pamphlets, and the domes of

the 36-inch equatorial and the 12-inch equatorial, and of *separate buildings* to shelter the Crossley reflector, the meridian circle, and the 20-inch Carnegie astrographic telescope. A fireproof building contains vaults for the storage of astronomical negatives, other records of value, and scientific instruments temporarily not in use, and also photographic darkrooms and photographic laboratories. On the grounds are dwelling houses for the astronomers, students, and employees, and shops for the workmen. The Observatory is well provided with auxiliary instruments, such as clocks, spectrographs, photometers, measuring engines, and other essentials to precise astronomical and astrophysical investigation. Among the principal telescopes are the following:

36-inch Refracting Telescope; objective by Alvan Clark & Sons; mounting by Warner & Swasey.

36-inch Reflecting Telescope; presented to the Lick Observatory in 1895, by Edward Crossley, Esq., of Halifax, England. The large mirror of this instrument is by Sir Howard Grubb. The original mounting was replaced in 1904. The building was erected from funds subscribed by citizens of California.

12-inch Refracting Telescope; by Alvan Clark & Sons.

6½-inch Meridian Circle; objective by Alvan Clark & Sons; mounting by Repsold.

A *20-inch Astrographic Telescope* of 12-foot focal length, gift of the Carnegie Corporation. This instrument provides a field of good definition 6 degrees square.

Large Reflecting Telescope; funds amounting to \$1,800,000 have been provided by the State Legislature for construction of a large reflecting telescope. The designs for this instrument are being prepared.

RESEARCH AND PUBLICATIONS

The entire equipment of the Lick Astronomical Department is used for research. The principal programs relate to spectrographic measurement of the radial velocity of stars and nebulae; micrometric measurement of double stars, satellites and comets; photographic observation of nebulae, star clusters, planets, satellites, and comets; qualitative analysis of stellar and nebular spectra; and photoelectric measures of the brightness and colors of stars and nebulae.

The results of investigations are published in the *Publications of the Lick Observatory*, Volumes I to XIX; *Contributions from the Lick Observatory*, Series II, begun in 1941, of which twenty-three numbers have been published; *Astronomical Photographs Taken at the Lick Observatory*; and the *Lick Observatory Bulletin*, Volumes I to XIX. Numerous short papers have been published in various scientific journals. Volumes VII and XIX of the *Publications* and many numbers of the *Bulletin* relate to investigations made at the Berkeley Astronomical Department.

UNIVERSITY FELLOWSHIPS

The Regents have established salaried fellowships in the Lick Astronomical Department. These usually permit the holders to pursue studies and to undertake investigations in fulfillment of requirements for the degree of Doctor of Philosophy. It is essential that an appointee be a graduate of a college or university of high standing, who has decided to make astronomy or one of the related sciences the basis of a professional career. Applications should be made to the Dean of the Graduate Division, Northern Section.

THE MARTIN KELLOGG FELLOWSHIP

A fellowship in the Lick Astronomical Department was endowed by Mrs. Louise W. B. Kellogg, in memory of her husband, Martin Kellogg, whose services to the University of California as professor and President covered nearly half a century.

The purpose of the Martin Kellogg Fellowship is to provide opportunities for advanced instruction and for research to students who have already received the degree of Doctor of Philosophy, or to members of the staffs of observatories. Preference will be given to qualified applicants who may desire to pursue formal studies or researches in the Lick Astronomical Department, or in the Lick and Berkeley Astronomical departments. The annual stipend is variable in amount. Applications should be made in writing to the Director of the Lick Observatory.

Appointments will usually be made for the period of twelve months beginning July 1 of each year.

THE ALEXANDER F. MORRISON MEMORIAL RESEARCH ASSOCIATESHIP

A foundation in support of this office was endowed by the late Mrs. A. F. Morrison, in memory of her husband, Alexander F. Morrison, of the Class of 1878 of the University of California, the class of which Mrs. Morrison was herself a member.

Eligibility to the position requires that the appointee be "an astronomer, or astrophysicist, . . . or devotee of other subject intimately related to astronomy, of wide and admirable repute by virtue of contributions . . . to the science of astronomy." It is expected that the Associate will reside at the Lick Observatory, as a guest member of the staff, during a period agreed upon by the Associate and the University.

REGULATIONS GOVERNING STUDENTS AT THE LICK OBSERVATORY

At the Observatory informal graduate instruction in astronomy is offered by the Astronomers, in connection with the investigations in which they are en-

gaged, or which may be specially assigned to the students by the Director. Graduate instruction at the Observatory is restricted, as a general rule, to students qualified to be on the footing of astronomical assistants. All formal instruction in astronomy is provided by the Astronomical Department at Berkeley.

Applicants for admission to the Lick Observatory as students must first qualify in the Northern Section of the Graduate Division of the University. Applicants are advised to file their applications with the Dean of the Graduate Division, at Berkeley, before February 20.

As many graduate students—including holders of fellowships—as can be given accommodations at Mount Hamilton, without expense to the University, may pursue astronomical studies at the Lick Observatory; in return for the accommodations they will be required to execute such computations, etc., as are assigned to them.

HIGHER DEGREES

Graduate students enrolled in the Lick Astronomical Department of the University may become candidates for the degrees of Master of Arts and Doctor of Philosophy. The general conditions on which these degrees are granted are stated in the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

The term of residence at the Lick Observatory for each graduate student is determined by the Director.

QUARTERS FOR THE STUDENTS

Partly furnished rooms are allotted to students at the Observatory. The cost of board is approximately \$65 per month.

Intending students are advised to communicate with the Director of the Observatory before filing their formal applications for admission with the Dean of the Graduate Division. The post office address is Mount Hamilton, Santa Clara County, California.

ADMISSION OF VISITORS TO THE OBSERVATORY

The Observatory buildings are open to visitors during office hours every day of the year, except during periods of heavy snow and on University holidays. Visitors are permitted to look through the telescopes on Friday evenings from 7 to 9 P.M.

A more complete account of the Observatory and its work may be obtained by writing to the Secretary, Lick Observatory, Mt. Hamilton, California.

UNIVERSITY OF CALIFORNIA

SCRIPPS INSTITUTION
OF OCEANOGRAPHY

LA JOLLA, CALIFORNIA

APRIL, 1949

UNIVERSITY OF CALIFORNIA

ANNOUNCEMENT OF
SCRIPPS INSTITUTION OF
OCEANOGRAPHY

La Jolla, California

APRIL, 1949

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GEORGE F. TAYLOR, B.S., Business Manager.

WILLIAM C. POMEROY, Ph.D., Registrar.

² In residence spring semester only, 1948-1949.

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OFFICERS OF THE INSTITUTION

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DENIS L. FOX, Ph.D., Professor of Marine Biochemistry.

CARL L. HUBBS, Ph.D., Professor of Biology.

MARTIN W. JOHNSON, Ph.D., Professor of Marine Biology.

GEORGE F. McEWEN, Ph.D., Professor of Physical Oceanography and Curator of Physical Oceanography.

NORRIS W. RAKESTRAW, Ph.D., Professor of Chemistry.

ROGER REVELLE, Ph.D., Professor of Oceanography and Associate Director of the Scripps Institution of Oceanography.

FRANCIS P. SHEPARD, Ph.D., Professor of Marine Geology.

HARALD U. SVERDRUP, Ph.D., Professor of Oceanography and Director, Emeritus.

T. WAYLAND VAUGHAN, Ph.D., Professor of Oceanography and Director, Emeritus.

CLAUDE E. ZOBELL, Ph.D., Professor of Marine Microbiology.

WALTER H. MUNK, Ph.D., Associate Professor of Geophysics.

DAYTON E. CARRITT, Ph.D., Assistant Professor of Marine Chemistry.

MARSTON C. SARGENT, Ph.D., Assistant Professor of Oceanography.

THEODORE J. WALKER, Ph.D., Instructor in Marine Botany.



FRED B. PHLEGER, Ph.D., Visiting Associate Professor of Marine Geology.

ROBERT S. DIETZ, Ph.D., Lecturer in Submarine Geology.

R. DANA RUSSELL, Ph.D., Lecturer in Submarine Geology.

JOHN D. ISAACS, B.S., Associate Oceanographer.

LEONARD N. LIEBERMANN, Ph.D., Research Associate in the Marine Physical Laboratory.

RUSSELL W. RAITT, Ph.D., Senior Research Associate in the Marine Physical Laboratory.

JAMES M. SNODGRASS, A.B., Associate Marine Biologist.

ROBERT S. ARTHUR, A.B., Assistant Oceanographer.

EDWARD D. GOLDBERG, Ph.D., Assistant Marine Chemist.

JOHN L. MCHUGH, M.A., Assistant Marine Biologist.

ROBERT O. REID, M.S., Assistant Oceanographer.

PHILIP RUDNICK, Ph.D., Assistant Marine Physicist.

FREDERICK D. SISLER, M.A., Assistant Marine Biologist.

VICTOR C. ANDERSON, B.S., Research Associate in the Marine Physical Laboratory.

DANIEL E. ANDREWS, B.S., Research Associate in the Marine Physical Laboratory.

WESLEY R. COE, Ph.D., Sc.D., Visiting Research Associate.

- BEATRICE M. SWEENEY, Ph.D., Research Associate.
STANLEY W. CHAMBERS, A.B., Associate in Oceanography.
JOHN D. COCHRANE, M.S., Associate in Oceanography.
GIFFORD C. EWING, M.S., Associate in Oceanography.
JEFFERY D. FRAUTCHY, B.S., Associate in Marine Geology.
PAUL L. HORRER, B.S., Associate in Oceanography.
DOUGLAS L. INMAN, M.S., Associate in Marine Geology.
PALMER OSBORN, M.S., Associate in Oceanography.
JAMES RUSK, A.B., Associate in Oceanography.
HENRY M. STOMMEL, A.B., Associate in Oceanography.
WARREN S. WOOSTER, M.S., Associate in Oceanography.
LOUIS W. KIDD, B.S., Assistant in Oceanography.
WILLIAM G. VAN DORN, Assistant in Oceanography.
JAMES L. FAUGHN, B.S., Marine Superintendent, Engineering.
DOROTHEA FOX, A.B., Acting Librarian.
SAM D. HINTON, A.B., Senior Museum Zoölogist.
JOHN C. KIRBY, Senior Administrative Assistant.
HERBERT J. MANN, A.B., Marine Technical Superintendent.
FINN W. OUTLER, Marine Technical Superintendent in the Marine Physical
Laboratory.
FRANCES E. SPARKS, Secretary.
CLEMENS W. STOSE, Marine Superintendent, Hull.
MELVIN WATTENBERG, A.B., Accountant.
DON D. WILKERSON, Grounds and Buildings, Superintendent.

SCRIPPS INSTITUTION OF OCEANOGRAPHY

HISTORY AND ORGANIZATION

THE SCRIPPS INSTITUTION OF OCEANOGRAPHY is a research institute of the University of California, situated chiefly on the La Jolla campus of the University. The teaching staff of the Institution constitutes the Department of Oceanography, one of the departments of instruction in the University's southern section.

The Institution is an outgrowth of the program of field investigations on the animal life of the Pacific Ocean begun in 1892 by the Department of Zoölogy of the University of California under the leadership of Professor W. E. Ritter. A summer field station was established each year at a locality along the California coast. At first financial support came in small sums from numerous persons interested in the work, from alumni of the University, and to some extent from the University itself. The interest of Miss E. B. Scripps and Mr. E. W. Scripps began in 1903 when the field station was moved from San Pedro to San Diego. Most of the funds for the physical development of the La Jolla campus and for support of the scientific work during the early years were given by the Scripps family. With the growth of the Institution the State of California has borne an increasing proportion of the total cost.

For several years the enterprise was carried on as the Marine Biological Association of San Diego, a corporation which had no official connection with the University of California, though such a relation was looked forward to and provided for in the articles of incorporation. The Institution became an integral part of the University in 1912, when the property and management were transferred to the Regents of the University, the name of the foundation being then changed to the Scripps Institution for Biological Research. The scope and character of the research program ultimately focused on all aspects of the study of the sea and this fact was formally recognized on October 13, 1925, when the name was changed by the Regents to the Scripps Institution of Oceanography.

The Institution is divided, for organizational purposes, into a series of scientific divisions dealing respectively with Physical Oceanography, Chemical Oceanography, Marine Vertebrates, Marine Invertebrates, Marine Botany, Marine Microbiology, Marine Biochemistry, Submarine Geology, Fisheries Biology, Marine Physics, and Special Developments of oceanographic equipment and methods. Supporting activities include marine facilities, a marine technical division, machine and electronic shops, a library, business and accounting offices, a purchasing office and stockroom, and a museum and aquarium.

SITUATION

The La Jolla campus of the University consists of 177 acres originally designated as a "pueblo lot" (a heritage of early Mexican rule in California) of the

City of San Diego on the coast two miles north of La Jolla and about sixteen miles north of the center of San Diego. This site on the ocean shore was chosen because it offered unique opportunities for research on the waters and the life of the open sea and at the same time provided ample grounds on which to build. These advantages outweighed the early disadvantages of relative isolation from human habitation and transportation facilities, which have largely disappeared with the growth of San Diego and La Jolla.

Docking facilities for the ships of the Institution and additional laboratory space have been provided by the U. S. Navy on the grounds of the U. S. Navy Electronics Laboratory at Point Loma.

BUILDINGS

The following are the principal buildings on the La Jolla campus:

The Library-Museum, a reinforced concrete structure 60 feet long and 60 feet wide, containing two stories plus a basement. On the first floor are oceanographic and natural history exhibits, which are open to the public nearly every day throughout the year, and the business office. Museum preparation rooms and a seismograph room occupy the basement. The latter contains recording seismometers forming part of the seismograph network of the California Institute of Technology Seismological Laboratory. The second floor is occupied by the library, consisting of a stack room with a capacity of about 25,000 volumes, and a reading room which is also used for public lectures and scientific meetings.

The George H. Scripps laboratory building, 75 feet long, 45 feet wide, and two stories in height. On the lower floor there are laboratories, equipped with running sea water, for the experimental study of fishes and other marine organisms, and a marine sediments laboratory. The upper floor contains research and administrative offices including those of the Director and Associate Director and a seminar room.

William E. Ritter Hall, a laboratory building 100 feet long, 46 feet wide, and three stories in height. This building is used primarily for oceanographic investigations that require the use of physics and chemistry as tools for research, and it is equipped accordingly. Some of the rooms have aquaria with running salt water, and there are three controlled temperature rooms capable of maintaining within 1° any temperature between 0° and 40° C.

Three temporary buildings, each 90 by 25 feet; two of these contain machine and electronics shops, a recording room for remote recording instruments installed on the sea bottom, and a few offices. The other is used primarily for graduate student and research offices.

A *public aquarium building* of wood, containing seventeen concrete tanks with plate glass fronts.

Twenty-six cottages which are occupied as residences by members of the Institution.

In addition to the buildings on the La Jolla campus, approximately 28,000 square feet of floor space in five buildings for laboratories, offices, shops, and storerooms have been provided by the U. S. Navy Electronics Laboratory at Point Loma. Part of this space is occupied by a joint laboratory of the Scripps Institution and the U. S. Fish and Wildlife Service.

SPECIAL FACILITIES

The special facilities of the Institution for oceanographic studies at sea and for marine biological work in the laboratory include the following:

A *research vessel PAOLINA T.* This is a converted purse seiner of 80.3 feet length over all, beam 22 feet, and draft 9 feet, driven by a 250-horsepower Atlas Diesel engine. The *Paolina T* has a cruising radius of about 2,500 miles at $8\frac{1}{2}$ knots. Her special equipment includes radio, radar and sonar gear, a Northern Dragger winch with 15,000 feet of $\frac{3}{8}$ -inch wire rope and 10,000 feet of $\frac{1}{4}$ -inch wire rope, and a hydrographic winch carrying 20,000 feet of $\frac{5}{32}$ -inch wire. The vessel has a large below decks laboratory, and berthing accommodations for 12 crew members and scientists.

A *research vessel CREST*, over-all length 136 feet; beam 24.6 feet; draft 6.1 feet. Twin screws are directly driven by two 500-horsepower General Motors Diesels. This vessel is a converted mine sweeper. Cruising radius is about 4,000 miles at 10 knots. Radio, radar and sonar equipment, and two electrically operated winches carrying respectively 10,000 feet of $\frac{1}{4}$ -inch and 20,000 feet of $\frac{5}{32}$ -inch wire rope are installed. There are two deck laboratories, and accommodations for 22 scientists and crew members.

A *research vessel E. W. SCRIPPS*, length over all 104 feet; beam 21.3 feet; draft 12 feet. This vessel is a converted schooner equipped with a 185-horsepower Union Diesel engine and has a cruising radius of about 2,500 miles at a speed of 8 knots. Two electrically operated oceanographic winches are installed on deck. These winches are fitted with 20,000 feet of $\frac{3}{8}$ -inch and 20,000 feet of $\frac{5}{32}$ -inch wire rope. Pilot house and laboratory are on deck. Radio direction finder and sonic sounding equipment are installed. Accommodations below deck include berthing for six scientists and nine crew members.

A *research vessel HORIZON*, length over all 143 feet; beam 33 feet; draft 13.5 feet, powered by two General Motors Diesels delivering 1,500 horsepower to an electrically driven shaft. This vessel is a converted navy advance tug and has a cruising radius of nearly 10,000 miles at 10 knots. Electrically operated winches carrying $\frac{1}{2}$ -inch, $\frac{1}{4}$ -inch, and $\frac{5}{32}$ -inch wire rope are installed. A large deck laboratory provides adequate working space. Sonar, radio, and radar equipment are installed for navigation and for special investigations. There are accommodations for twenty-seven scientists and crew members.

A 38-foot *buoy boat* equipped with radio and portable echo-sounding equipment and powered with a 125-horsepower Diesel engine. This vessel is used primarily for biological and geological field work in the La Jolla area.

A *wharf*, the piles and beams of concrete, the decking of wood, 1,000 feet long and 20 feet wide. At the seaward end are a pump for the salt-water system, two workrooms, various pieces of scientific apparatus for observations in marine biology, meteorology, and oceanography, including an automatic tide gauge established by the United States Coast and Geodetic Survey and other aids to scientific work.

A *salt water system*, including a concrete storage and settling tank of 60,000-gallons capacity, situated east of the laboratories at an elevation of about 90 feet. From the end of the wharf sea water is pumped through 4-inch lead pipes directly into this tank; it is then delivered by gravity through 2½-inch lead pipes to the laboratories and to the aquarium.

An area approximately one mile square off shore from the Institution has been reserved by the United States Coast Guard for installation of special underwater scientific equipment by the Institution. Several bottom-mounted wave-measuring instruments are installed here and are connected by submarine cable to a central recording room on the campus.

THE LIBRARY

The library contains over 22,000 volumes, 50,000 reprints and pamphlets, 450 journals of which 300 are gifts and exchanges, and a large collection of charts, especially of the North Pacific Ocean. Major emphasis is on unbroken series of scientific journals that deal directly or in part with marine research. Other specialized items include reports of investigations by marine stations in all countries, reports of ocean expeditions, and marine biological monographs. The library reflects general interest in all ocean bodies with particular concentration on the Pacific Ocean and its eastern shores.

OCEANOGRAPHIC DATA AND MARINE COLLECTIONS

The oceanographic materials and data received by the Institution are derived from a number of sources. The seaward end of the Institution's pier is a permanent hydrographic station; the four large vessels mentioned above are each operated at sea about 180 days per year in investigations of submarine geology, ocean currents, physical and chemical properties and processes of ocean waters, and marine organisms. Through coöperation with the U. S. Coast Guard, the Hopkins Marine Laboratory, and others, the Institution has a line of long-shore or near-shore observation stations which extend from San Diego to Cape Mendocino. It coöperates with the U. S. Navy and the United States Coast and Geodetic Survey in obtaining records of surface and sub-surface water temperatures and in collecting water and bottom samples in various areas throughout the Pacific Ocean. It also coöperates with the U. S. Fish and Wildlife Service and the California Division of Fish and Game in studies of the population dynamics of pelagic fisheries.

COURSES OF INSTRUCTION AND HIGHER DEGREES

Graduate and a few upper division courses in marine meteorology, biochemistry, geology, and microbiology; physical and chemical oceanography; phytoplankton, marine invertebrates, and biology of fishes are offered by the resident staff members throughout the year. The entire staff participates in a lecture seminar which meets weekly. Reports on current investigations by members of the staff of the Institution and by students, lectures by visiting scientists, and reviews of important literature are given at frequent scientific conferences.

Students seeking admission, as well as those who desire to become candidates for degrees, must meet the general requirements of the University of California. Work leading to the degrees of Master of Science and Doctor of Philosophy in oceanography is offered at La Jolla. Candidates for such degrees occasionally find it necessary to work one or more semesters in other departments of the University either at Berkeley or Los Angeles. Advanced degrees may also be obtained by special coöperative arrangements with other departments of the University in certain fields of study in which the emphasis is upon marine sciences. The general requirements for degrees follow the rules of the Graduate Council, for which one should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.

Further information concerning admission to the Institution for advanced study and a description of the work offered will be found in the GENERAL CATALOGUE, DEPARTMENTS AT LOS ANGELES. For summer session work, see also the BULLETIN OF THE SUMMER SESSION, DEPARTMENTS AT LOS ANGELES. Investigators and students who contemplate work at the Institution should correspond with the Director before deciding to come to La Jolla.

VISITING INVESTIGATORS

Experienced investigators who wish to utilize for their researches such facilities as the Institution possesses will be welcome. There are opportunities for the study of a wide variety of oceanographic subjects as well as for investigations in marine biology.

UNIVERSITY OF CALIFORNIA

HASTINGS COLLEGE
OF THE LAW

SAN FRANCISCO

APRIL, 1949

HASTINGS COLLEGE OF THE LAW

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Affiliated with the University of California

ANNOUNCEMENT

FOR THE YEAR

1948-1949

EDUCATION CODE OF CALIFORNIA

Article 6

HASTINGS COLLEGE OF THE LAW

Sec. 20141. *Designation.* The law college founded and established by S. C. Hastings shall forever be known and designated as the Hastings College of Law.

Sec. 20142. *Officers.* The officers of the college are a dean, a registrar, and eight directors. One of the directors shall always be an heir or representative of S. C. Hastings. The dean and registrar shall be appointed by, and may be removed by the board of directors.

Sec. 20143. *President.* The Chief Justice of the Supreme Court of the State is president of the board of directors.

Sec. 20144. *Board of Directors.* The business of the college shall be managed by the board of directors. Five directors constitute a quorum for the transaction of all business. The directors shall serve without compensation.

Sec. 20145. *Vacancies.* Vacancies in the board of directors shall be filled by the board from members of the Bar Association of San Francisco or otherwise.

Sec. 20146. *Appointment and Removal of Officers.* The acting officers of the college shall be appointed and may be removed by the directors.

Sec. 20147. *Curriculum.* The college shall afford facilities for the acquisition of legal learning in all branches of the law. To this end it shall establish a curriculum of studies and shall matriculate students who reside at the University of California or elsewhere in the State.

Sec. 20148. *Affiliation with University of California.* The college is affiliated with the University of California and is the law department thereof.

Sec. 20149. *Dean.* The dean of the college is ex-officio a member of the faculty of the University of California.

Sec. 20150. *Diplomas.* The faculty of the University of California shall grant, and the president shall sign and issue, diplomas to the students of the college.

Sec. 20151. *Professorships.* Professorships may be established in the name of any founder who pays to the directors the sum of thirty thousand dollars (\$30,000).

Sec. 20152. *Appropriation.* The sum of 7 per cent per annum upon one hundred thousand dollars (\$100,000) shall be appropriated annually by the State and shall be paid in semi-annual payments to the directors of the college.

Sec. 20153. *Failure to appropriate.* If the State fails to pay to the directors of the college the sum of seven thousand dollars (\$7,000) annually, pursuant to Section 20152, or if the college ceases to exist, the State shall pay to the heirs or legal representatives of S. C. Hastings, the sum of one hundred thousand dollars (\$100,000), and all unexpended accumulated interest, unless the failure is caused by mistake or accident, or the omission of the Legislature to make the appropriation at any one session.

Sec. 20154. *Sacramento Courses.* All courses conducted by the College at Sacramento shall be deemed to be given at the site of the College in San Francisco.

HASTINGS COLLEGE OF THE LAW

DIRECTORS

HON. PHIL S. GIBSON, Chief Justice of the Supreme Court, ex officio President of the Board.....	San Francisco
WILLIAM B. BOSLEY, A.B., LL.B., Vice-President of the Board.	San Francisco
SIDNEY M. EHRMAN, B.L., LL.B.....	San Francisco
ALLEN L. CHICKERING, A.B., LL.B.....	San Francisco
MAURICE E. HARRISON, A.B., J.D., LL.D.....	San Francisco
JOHN T. PIGOTT, A.B.....	San Francisco
EUGENE M. PRINCE, A.B., J.D.....	San Francisco
*E. CLINTON LA MONTAGNE, Esq.....	San Francisco
EDGAR T. ZOOK, A.B., LL.B.	San Francisco

OFFICERS OF INSTRUCTION AND ADMINISTRATION

ROBERT GORDON SPROUL, B.S., LL.D., Litt.D., President of the University.
DAVID E. SNODGRASS, A.B., LL.B., Dean and Isaias W. Hellman Professor of Law.

ARTHUR M. SAMMIS, LL.B., Professor of Law and Registrar.

JAMES R. MERRITT, A.B., LL.B., Associate Professor and Librarian.

ROBERT W. HARRISON, A.B., LL.B., Professor of Law, Emeritus.

ARTHUR M. CATHCART, A.B., Professor of Law.

CHESTER G. VERNIER, A.B., J.D., Professor of Law.

OLIVER L. McCASKILL, Ph.B., J.D., Professor of Law.

AUGUSTIN DERBY, A.B., LL.B., Professor of Law.

ERNEST G. LORENZEN, Ph.B., A.M., LL.B., J.U.D., Professor of Law.

MAX RADIN, A.B., LL.B., Ph.D., LL.D., Professor of Law.

LAWRENCE VOLD, A.B., LL.B., S.J.D., Professor of Law.

GEORGE G. BOGERT, A.B., LL.B., Visiting Professor of Law.

DUNCAN D. LOW, A.B., LL.B., Assistant Professor of Law.

BRADFORD BOSLEY, A.B., J.D., Assistant Professor of Law.

A. BROOKS COX, A.B., J.D., Assistant Professor of Law.

†ROBERT A. GRANTIER, A.B., LL.B., Assistant Professor of Law.

HARLOW P. ROTHERT, A.B., LL.B., Assistant Professor of Law.

PAUL E. BASYE, A.B., LL.M., J.D., S.J.D., Assistant Professor of Law.

B. ABBOTT GOLDBERG, A.B., LL.B., Instructor in Law.

J. ALBERT HUTCHINSON, LL.B., Instructor in Law.

DAVID J. McDANIEL, A.B., LL.B., Instructor in Law.

MOSES S. HUBERMAN, A.B., LL.B., Instructor in Law.

KARL M. RODMAN, A.B., LL.B., S.J.D., Instructor in Law.

* Great Grandson of Hon. Serranus Clinton Hastings.

† Absent on leave, 1948-1949.

ALBERT A. SPIEGEL, A.B., LL.B., Instructor in Law.

JOHN H. MURRAY, A.B., LL.B., Instructor in Law.

CYRIL VIADRO, A.B., M.S., LL.B., Instructor in Law.

J. RICHARD JOHNSTON, A.B., LL.B., Instructor in Law.

SIDNEY RUDY, A.B., LL.B., Instructor in Law.

WILLIAM F. BOURNE, A.B., LL.B., Instructor in Law.

EMOGENE P. BOWLING, Secretary.

CALENDAR

FIRST SEMESTER, 1948

August	23-25	Registration of first-year students.
August	26-28	Registration of second- and third-year students.
August	30	Instruction begins, first semester.
September	6	Monday, Labor Day, a holiday.
November	11	Thursday, Armistice Day, a holiday.
November	25	Thursday, Thanksgiving Day, a holiday.

Christmas Recess

December 19 to January 16, inclusive.

SECOND SEMESTER, 1949

January	17-22	Registration of students.
January	24	Instruction begins, second semester.
February	22	Tuesday, Washington's Birthday, a holiday.
May	28	Spring semester ends.
May	30	Monday, Memorial Day, a holiday.

SUMMER SESSION, 1949

June	15-18	Registration of second- and third-year students.
June	20	Instruction begins, Summer Session.
July	4	Monday, Independence Day, a holiday.
August	1	Summer Session ends.



The office of the Dean and the office of the Registrar are situated on the mezzanine floor of the California Building at 515 Van Ness Avenue, San Francisco. Telephone: MARKET 1-5250.

HISTORY

Hastings College of the Law was created by an act of the Legislature of California, approved March 26, 1878, which provided for its affiliation with the University of California. The College was endowed by and named for Honorable Serrano Clinton Hastings, the first Chief Justice of the Supreme Court of California.

In the early years of the College, John Norton Pomeroy, while occupying the chair of Professor of Municipal Law, wrote his famous treatise on Equity Jurisprudence. Upon his death in 1885, Honorable Charles W. Slack, a member of the second graduating class, was appointed to the faculty and, from 1894 until 1899, acted as Professor of Municipal Law and Dean. Between the years 1888 and 1894, Honorable E. W. McKinstry, formerly a Justice of the Supreme Court of California, was Professor of Municipal Law.

For twenty years from the time of the retirement of Judge Slack from the faculty in 1899, Dr. Edward Robeson Taylor was Professor of Law and Dean. In 1919 he was succeeded by Maurice E. Harrison, now a Director of the College, who served until 1925. William M. Simmons was Dean from 1925 until his death in 1940, his successor being David E. Snodgrass, who is Dean at the present time.

SITUATION

The classrooms and quarters of the College are on the ground, mezzanine, and second floors of the California Building, 515 Van Ness Avenue, San Francisco. The Supreme Court, the District Court of Appeal for the First Appellate District, the Railroad Commission, the Industrial Accident Commission, and the offices of other State boards and officials are located in the State Building nearby. Less than a block distant is the City Hall, which houses the civil departments of the Superior and Municipal Courts and the San Francisco Law Library. Within a few blocks of the College is the Post-office Building, where the United States District Court and the United States Circuit Court of Appeals for the Ninth Circuit hold their sessions. Thus the opportunity for the study of law and the direct observation of its practices, afforded to students of Hastings College, is unexcelled among city law schools.

PURPOSE

The purpose of the College is to offer systematic and thorough instruction in those branches of jurisprudence which will prepare the student for the practice of the profession of law. With this end in view, the instruction given is based primarily on the case-book method, the aim being to develop the analytical powers of the student, as well as to provide a familiarity with the historical development of legal principles. Special attention is given to the codes and statutes of California, and to the decisions of the California courts.

LIBRARY FACILITIES

All Hastings College students have access to the San Francisco Law Library, one of the finest law libraries in the West, which is located in the City Hall. Students also have exclusive use of the library belonging to the College, which is located on the mezzanine and second floors of the California Building.

DEGREE ON GRADUATION

The Degree of Bachelor of Laws is conferred by the Board of Regents of the University of California upon all students who have satisfactorily completed the curriculum and who have complied with the regulations of the faculty.

GRADES

The system of grading is as follows: A, B, C, and D are passing grades; E represents a condition and F a failure. One grade point is given for each semester hour of work in which a grade of C is obtained; two grade points for each semester hour of work in which a grade of B is obtained, and three grade points for each semester hour in which a grade of A is obtained. The grade of D, although a passing grade, yields no credit in grade points. The grade of E entails a penalty of minus one-half grade point for each semester hour of work for which such grade was received. The grade of F entails a penalty of minus one grade point for each semester hour of work for which such grade was received.

Grades of D, E, or F may be removed by passing reëxaminations in subjects in which such grades have been received. Reëxaminations may not, however, be taken in more than the equivalent of two full-year subjects in any one year, and must be completed within one year after the original examination in each instance. Only one reëxamination may be taken in any course.

If a grade D, E, or F is subsequently removed, a student will be given credit for the grade received in the reëxamination, but not for a grade higher than C. The grade-point penalty resulting from a condition or a failure will, however, be deducted from the total number of grade-point credits.

SCHOLARSHIP AVERAGE

In order to qualify for a degree, a student must receive a passing grade in all of the courses in the three-year curriculum, and must maintain a cumulative average grade of not less than 1.0 grade points. Likewise, a grade-point average of at least 1.0 is required in the work of the third year. Furthermore, no student may receive a degree who has not first removed all conditions or failures which he has theretofore received.

A student who has received a condition or a failure in twelve or more units of work in any one year will not be permitted to take reëxaminations or to be advanced to the next succeeding year. Reëxaminations for the purpose of removing conditions or failures, or for the purpose of obtaining grade points

in subjects in which a grade of D was received, will not be given except when regular examinations are given.

If a student is otherwise eligible for advancement he may take reexaminations to remove conditions, failures, or grade-point deficiencies *during the next succeeding year*, but only when regular examinations are given. A fee of \$5 is charged for any special examination or for any reexamination.

No first-year student will be permitted to register for the work of the second semester who has received a net total of less than two grade-point credits. To be eligible for the work of the second year, a first-year student at the conclusion of his first year's work must have received at least 22 grade-point credits. No first-year student will be permitted to take reexaminations for the purpose of removing grades of D, E, or F unless he shall theretofore have received at least 22 grade-point credits. A first-year student who is eligible to take reexaminations may continue in attendance and may take the regular second-year subjects. A disqualified first-year student may, in the discretion of the faculty, and under such conditions as the faculty shall impose, repeat the first-year work in the next succeeding school year, but not otherwise.

To be eligible for the work of the third year, a second-year student at the conclusion of his second year's work must have received at least 59 grade-point credits. No second-year student will be permitted to take reexaminations for the purpose of removing grades of D, E, or F unless he shall theretofore have received at least 59 grade-point credits. A second-year student who is eligible to take reexaminations in second-year subjects may continue in attendance and may take the regular third-year subjects.

No third-year student will be eligible to receive a degree unless he maintains at least a 1.0 average grade in his third-year work.

RIGHTS RESERVED BY THE FACULTY OF HASTINGS COLLEGE OF THE LAW

The faculty reserves the right, in its discretion, to deny admission to any applicant for admission to the College. Whenever in its judgment the best interests of the College will be furthered thereby, it may terminate the membership of any student, or may withhold the granting of any degree. In such case, any and all rights which may have been acquired by matriculation or entrance into the College, or by work done there, shall cease.

Any student who applies for permission to take the California Bar Examination without previously having taken examinations in all of the courses of his senior year will be excluded immediately from the College and will be denied the right subsequently to qualify for a degree.

The faculty reserves the right, in its discretion, to refuse to recommend for a degree any student who, for any reason whatsoever, is not deemed fitted to become a member of the legal profession.

The curriculum and regulations affecting students may be revised at any time, in the discretion of the faculty.

ATTENDANCE

Work in the College cannot be satisfactorily pursued by students who are irregular in their attendance. Academic standing will be forfeited whenever a student becomes so irregular in attendance as to satisfy the faculty that it is unwise for him to continue.

FEEES

A fee of \$75 for the work of each semester is payable at the time of registration by each resident of the State of California. An additional fee of \$150 for the work of each semester is payable at the time of registration by each non-resident.*

Students whose registration occurs after the dates fixed for registration are subject to an additional charge of \$5. (For dates of registration, see page 5.)

A graduation fee of \$5 is required, at least ten days prior to commencement, of every candidate for a degree. This fee will be returned if the degree is not conferred.

REFUND OF FEES

Refund of the nonresident fee of \$150 will be made to a student who withdraws from the College, in accordance with the following schedule, and not otherwise :

No. of Weeks	No. of Weeks	No. of Weeks
1—\$150	6—\$90	11—\$40
2— 150	7— 80	12— 30
3— 120	8— 70	13— 20
4— 110	9— 60	14— 10
5— 100	10— 50	15—...

If, on account of illness, a student is compelled to withdraw from the College before the expiration of half of a semester, a pro rata portion of the registration fee of \$75 will be refunded upon written application to the Registrar. No refund of such fee will be granted when a student voluntarily withdraws, or when a student has attended more than one-half of the semester for which payment was made.

SHEFFIELD SANBORN SCHOLARSHIPS

Mrs. Frances B. Sanborn, widow of Sheffield S. Sanborn of the class of 1894, has established two scholarships for students in the University of California, known as the Sheffield Sanborn Scholarships. One of these is open to students in Hastings College of the Law or in the School of Jurisprudence, at Berkeley, who have not yet received a degree in law and who otherwise would not have the opportunity to acquire legal training. It yields about \$275 a year.

* Education Code, Sec. 20004.

JOHN BELL MHOON SCHOLARSHIPS

With funds presented to the Regents of the University of California by the late Mrs. John Bell Mhoon there have been established the John Bell Mhoon Scholarships. These scholarships are open to students in Hastings College of the Law, or in the School of Jurisprudence, at Berkeley, especially to students who need financial assistance to enable them to continue their studies. Each scholarship yields about \$375 a year.

ALLEN D. WILSON MEMORIAL SCHOLARSHIPS

With the income from a fund bequeathed to the University, the Regents of the University of California have established the Allen D. Wilson Memorial Scholarships. One of these is open to students in Hastings College of the Law, or in the School of Jurisprudence, at Berkeley. This scholarship yields about \$350 a year.

FRANK M. PIXLEY SCHOLARSHIP

With the income from a fund bequeathed to the University by Mrs. Amelia V. R. Pixley, the Regents of the University of California have established the Frank M. Pixley Scholarship. In accordance with the wishes of the donor this scholarship is granted to some student in law to assist him in his studies. It is open to students in Hastings College of the Law, or in the School of Jurisprudence, at Berkeley. This scholarship yields about \$250 a year.

WARREN OLNEY, JR., MEMORIAL SCHOLARSHIP

The younger lawyers associated with the firm of which the late Warren Olney, Jr., a Director of the College at the time of his death, was the senior member, have established a scholarship which bears his name. This scholarship, the income from which is about \$160 a year, is open to students in Hastings College of the Law.

BANCROFT-WHITNEY PRIZE

A prize is given annually by the Bancroft-Whitney Company to the student having the highest scholastic standing at the close of his senior year. The winner of this prize for 1948 was Dan L. Garrett, Jr.

RECORDER PRINTING & PUBLISHING CO. AWARD

The Recorder Printing & Publishing Company has established an award of a one-year subscription to the Advance California Reports and Advance California Appellate Reports (A.C. and A.C.A.), which is presented annually to the member of the Senior Class who is adjudged by the faculty to have made the greatest advancement in scholarship during his final school year. The recipient of this award in 1948 was Jean Woodward.

BUREAU OF NATIONAL AFFAIRS AWARD

The Bureau of National Affairs, of Washington, D.C., awards an annual subscription to The United States Law Week to the student who, in the judgment of the faculty, has made the most satisfactory scholastic progress during his final school year. This prize was awarded to John E. Troxel in 1948.

STUDENT LOAN FUNDS

MARCEL E. CERF MEMORIAL LOAN FUND

Friends of the College and of the late Marcel E. Cerf, who once served as a member of the faculty, have contributed a fund which is available for loans to second- and third-year students. This fund is administered by the Dean.

LOUIS T. HENGSTLER LOAN FUND

Mr. Lawrence Livingston, B.L., 1914, LL.B. (Hastings), 1915, a member of the San Francisco Bar, has contributed a fund to be used for making loans to second- and third-year students as a memorial to the late Louis T. Hengstler, a former member of the faculty. The amount of this fund represents the benefits received by the donor from a Sheffield Sanborn Scholarship, together with accumulated interest from the time when the scholarship was received. This fund is administered by the Dean.

DAVID DALE CRAIK MEMORIAL LOAN FUND

This fund was established by friends and fellow students of David Dale Craik, a former student who died during the academic year 1937-1938. This fund is administered by the Dean.

REQUIREMENTS FOR ADMISSION

Every applicant for admission to the College must present evidence of good moral character and must have completed at least 60 units of work acceptable for a bachelor's degree in the College of Letters and Science of the University of California, Berkeley, or of the University of California, Los Angeles. None of the courses in the prelegal curriculum is prescribed by Hastings College of the Law.

An applicant who has taken academic work at educational institutions other than the University of California, *but who has not completed sufficient work to entitle him to a bachelor's degree*, must have completed the equivalent of at least 60 units of work acceptable for a bachelor's degree in the College of Letters and Science of the University of California. Each such applicant is required to have his record evaluated by the Director of Admissions of the University of California, for the purpose of determining its equivalent in the University's College of Letters and Science.

A transcript of record showing all work at other institutions attended should be sent directly to the Director of Admissions of the University of California, Berkeley 4, California, with the request for an evaluation. A fee of \$5 for making this evaluation is charged by the University. Remittances should be made by draft or money order payable to The Regents of the University of California.

A nonrefundable application fee of \$5 is payable by each student who has not previously been enrolled as a member of the student body, or whose advancement has been deferred by reason of absence or disqualification. Remittances should be made by draft or money order payable to the Registrar of Hastings College of the Law.

Should the number of applications for admission exceed the number for whom adequate accommodations are available, preference will be given to holders of college degrees.

No student will be admitted who has been dropped because of scholarship deficiencies at another law school, whether eligible for readmission to such other school or not.

ADVANCED STANDING

Credit may be allowed for not more than one year of satisfactory work, done at other law schools which are approved by the American Bar Association's Section of Legal Education and Admissions to the Bar, but only if the applicant has maintained an average grade of not less than B minus (1.67 grade points) in all of his work at such law schools.

No student will be entitled to receive a degree unless he completes two full years of work at Hastings College of the Law.

VETERANS EDUCATIONAL BENEFITS

Hastings College of the Law is one of the institutions approved by the Veterans Administration for participation in the program of educational benefits provided for veterans under Public Laws 346 (The Servicemen's Readjustment Act of 1944, or "GI Bill of Rights") and 16 (The Vocational Rehabilitation Act). Under Public Law 346, the Veterans Administration provides tuition, fees, books, and supplies, with added subsistence of \$75 per month for single veterans or \$105 to \$120 for others. The period of government aid is approximately twelve months plus the period of service, to a maximum of forty-eight months. Under Public Law 16, veterans who qualify by reason of disability incurred in service are provided tuition, fees, and supplies, with a minimum subsistence of \$105 per month, hospitalization, and allowances for dependents. The maximum period of aid is approximately forty-eight months.

Veterans contemplating study at the College are urged to file their applications under Public Law 346 (Form 1950, accompanied by certified copies of service record and discharge) with the Veterans Administration in advance, so that their programs may be approved before funds are needed.

ADVICE TO PROSPECTIVE STUDENTS

The student who intends to study law should first acquire a background of knowledge in history, economics, and current political and social theories. A knowledge of accounting and business methods also will be helpful. Furthermore, a thorough training in English expression is essential. For these reasons, a student who contemplates the study of law at Hastings College of the Law is advised first to complete a full college or university course in nonprofessional subjects.

Students in the College are expected to give substantially all of their time to their studies. Opportunities for employment exist in San Francisco; but only a student of exceptional physical strength and mental capacity can hope to complete the work of the College satisfactorily and at the same time engage in outside work. If possible, the money required for subsistence should be obtained before beginning the course.

The curriculum is so arranged that students cannot advantageously enter the College except at the beginning of the academic year, in August.

AUDITING OF COURSES

Members of the California Bar, and those graduates of Hastings College of the Law who are not members of the Bar, with the Dean's approval, may be admitted for the purpose of auditing courses.

A fee of \$10 per unit of work is payable by each auditor at the time of registration.

FIRST YEAR*(In two sections)*

- Agency.** Mr. DERBY, Mr. BOURNE
Seavey's Cases on Agency.
Three hours a week, second semester. 3 units.
- Common Law Pleading.** Mr. MERRITT, Mr. SPIEGEL
McBaine's Cases on Civil Procedure, second edition.
Two hours a week, first semester. 2 units.
- Contracts.** Mr. SNODGRASS, Mr. COX
Williston's Cases on Contracts, fourth edition, or Patterson & Goble's
Cases on Contracts, second edition.
Four hours a week, first semester.
Three hours a week, second semester. 7 units.
- Criminal Law.** Mr. DERBY, Mr. HUTCHINSON
Derby's Cases on Criminal Law, third edition, or Hall & Glueck's Cases on
Criminal Law.
Three hours a week, first semester. 3 units.
- Equity I.** Mr. MCCASKILL
Cook's Cases on Equity, fourth (1-vol.) edition.
Two hours a week, second semester. 2 units.
- Property I.** Mr. MCDANIEL, Mr. HUTCHINSON
Bigelow's Cases on Personal Property, third edition.
Two hours a week, second semester. 2 units.
- Property II.** Mr. BASYE, Mr. RUDY
Aigler's Cases on Titles, third edition.
Bigelow's Cases on Rights in Land, third edition.
Two hours a week throughout the year. 4 units.
- Torts.** Mr. LORENZEN, Mr. VOLD
Thurston & Seavey's Cases on Torts.
Three hours a week, throughout the year. 6 units.

A careful reading of the following texts is suggested for first-year students:

- Morgan, Introduction to the Study of Law.
Maitland & Montague, Sketch of English Legal History.
Pollock's First Book of Jurisprudence.

SECOND YEAR*(In two sections)*

- Business Associations.** Mr. ROTHERT, Mr. DERBY
Magill & Hamilton's Cases on Business Organization, Vol. II.
Three hours a week, throughout the year. 6 units.

- Community Property.** Mr. HUBERMAN
Burby's Cases on Community Property, or
De Funiak's Cases on Community Property.
One hour a week, first or second semester. 1 unit.
- Constitutional Law.** Mr. CATHCART
Dowling's Cases on Constitutional Law, third edition.
Two hours a week, throughout the year. 4 units.
- Domestic Relations.** Mr. VERNIER
Madden & Compton's Cases on Domestic Relations.
Two hours a week, second semester. 2 units.
- Equity II.** Mr. LOW, Mr. RODMAN
Cook's Cases on Equity, third (1-vol.) edition.
Two hours a week, throughout the year. 4 units.
- Legal Bibliography.** Mr. MERRITT
Brandt, How to Find the Law, third edition.
One hour a week, first or second semester. 1 unit.
- Negotiable Instruments.** Mr. VERNIER
Britton's Cases on Bills & Notes, third edition.
Two hours a week, throughout the year. 4 units.
- Property III.** Mr. BASYE, Mr. BOSLEY, Mr. MURRAY
Aigler's Cases on Titles, third edition.
Costigan's Cases on Wills and Administration, third edition.
Two hours a week, throughout the year. 4 units.
- Sales of Personal Property.** Mr. VOLD
Vold's Cases on Sales.
Two hours a week, throughout the year. 4 units.
- A careful reading of Maitland's Equity is suggested for second-year students.**

THIRD YEAR

(In two sections)

- Code Pleading and Trial Practice.** Mr. MCCASKILL
Cathcart & Howell's Cases on Code Pleading.
McBaine's Cases on Civil Procedure, second edition.
Four hours a week, first semester. Three hours a week, second semester.
7 units.
- Conflict of Laws.** Mr. LORENZEN
Lorenzen's Cases on Conflict of Laws, fifth edition.
Two hours a week, throughout the year. 4 units.
- Evidence.** Mr. GOLDBERG, Mr. JOHNSON
Morgan and Maguire's Cases on Evidence, second edition.
Two hours a week, throughout the year. 4 units.

Mortgages.

Mr. BOSLEY, Mr. VIADRO

Osborne's Cases on Property Security.
Three hours a week, second semester. 3 units.

Property IV.

Mr. SAMMIS

Leach's Cases on Future Interests, second edition.
Two hours a week, throughout the year. 4 units.

Restitution.

Mr. RADIN

Thurston's Cases on Restitution.
Two hours a week, first semester. 2 units.

Suretyship.

Mr. RADIN

Simpson's Cases on Suretyship.
Two hours a week, first semester. 2 units.

Trusts.

Mr. BOGERT

Bogert's Cases on Trusts.
Three hours a week, second semester. 3 units.

A careful reading of Wellman's Art of Cross-Examination is suggested for third-year students.

SUMMER SESSION

Summer courses will be given for a period of six weeks in 1949. The subjects of instruction and the names of the instructors will be announced later. The lecture period will consist of two hours daily, from Monday to Saturday, inclusive, of each week. A fee of \$42 for the work of the Summer Session is payable at the time of registration.

If, on account of illness, a student is compelled to withdraw from the College before the expiration of half of a Summer Session, but not otherwise, a pro rata portion of the registration fee will be refunded upon written application to the Registrar.

STANDARDS OF THE AMERICAN BAR ASSOCIATION

The Council of the Section of Legal Education and Admissions to the Bar requests that attention be called to the Standards of the American Bar Association. These Standards provide in effect that every candidate for admission to the Bar shall give evidence of graduation from a law school which requires at least two years of study in a college as a condition of admission, and three years of law study (or longer if the students devote only part of their time to their studies), which has an adequate library and a sufficient number of teachers giving their entire time to the school to insure actual personal acquaintance and influence with the whole student body, and which is not operated as a commercial enterprise.

LIST OF STUDENTS—1947-1948

- AIROLA, LOWELL ANTHONY. . . Angels Camp
1st year—2425 Piedmont Ave., Berkeley
- AIROLA, ORRIN KENNETH. . . San Andreas
1st year—2427 Hilgard Ave., Berkeley
- ALLDREDGE, J. B. San Francisco
1st year—131 Hugo St.
- ALLEN, WARREN DOUGLAS. Berkeley
2nd year—Hotel Carlton
- ANDERSON, BRUCE WYRICK. . . Placerville
1st year—915 Fulton St.
- ANDERSON, THOMAS JOSEPH. . . Oakland
2nd year—4127 Maple Ave.
- ANDREEN, ROBERT EDWIN. . . San Francisco
1st year—1850 Pacheco St.
- ARNOLD, STANLEY. Susanville
3rd year *Special*—2898 Jackson St.
- ASHBURN, HARVEY. San Francisco
2nd year—600 Page St.
- ASHFIELD, HARRY VANNESS
San Francisco
2nd year—1880 25th St.
- ATKINSON, ROBERT FERRISH. . . Piedmont
1st year—17 Mesa Ave.
- BAER, MONROE, JR. Sacramento
1st year—3544 California St.
- BAHRE, MAYNARD CHRISTIAN
San Francisco
2nd year—116 Collingwood St.
- BAILEY, HAROLD ARTHUR. Nevada
1st year—23 Lansdale St., San Anselmo
- BAINBRIDGE, ROBERT A. Fort Bragg
2nd year—364 Valencia St.
- BAKER, DANIEL WIET. San Francisco
2nd year—340 32nd Ave.
- BAKER, RAYMOND NORVAL. . . San Leandro
1st year—406 Breed Ave.
- BALES, LOUIS WILLIAM. San Francisco
2nd year—633 Lincoln Way
- BALL, ROBERT MCKENZIE. . . San Francisco
2nd year—138 Brookdale Ave.
- BANCROFT, JAMES RAMSEY. . . San Francisco
2nd year—14 Castelo Ave.
- BARBER, ROBERT KYLE. San Francisco
3rd year—25 Parnassus Ave.
- BARCONEY, OLIVER H. Oakland
(1) 1st year—2023 Market St., Oakland
- BARRETT, GEORGE CLARKE. Merced
1st year—1090 Page St.
- BARRETT, JOHN WILLIAM. Nevada
2nd year—446 Candlestick Rd.
- BARRON, JOHN JOSHUA, JR. Fresno
1st year—1001 Shrader St.
- BECK, VERNE FRANCIS M. Redding
(1) 2nd year—1405 Van Ness Ave.
- BECKER, HERBERT PETER. . . San Francisco
1st year—10 Willard St.
- BELCHER, WILLIAM THORNTON, JR.
Oakland
2nd year—914 Willow St., Oakland
- BENNER, EDWARD R. Berkeley
(1) 3rd year—1714 Francisco St.,
Berkeley
- BENTLEY, WILLIAM AMBROSE
San Francisco
2nd year—250 Laurel St.
- BETTINI, RICHARD VICTOR. . . Menlo Park
1st year—811 Stanford Ave.,
Menlo Park
- BETTS, WILLIAM JAMES. Richmond
2nd year—1043 9th St., Richmond
- BIANCHI, HENRY ELVIN. San Francisco
2nd year—27 Patton St.
- BLEUEL, YATES SMOOT. Oakland
2nd year—1127 Sunny Hills Rd.,
Oakland
- BLMGREN, CARL HOWARD. . . San Francisco
2nd year—1166 O'Farrell St.
- BOIES, LEWIS WILLIAM. San Francisco
2nd year—2627 Vicente St.
- BOONE, WILLIAM BENTON. Berkeley
1st year—2251 Hearst Ave., Berkeley
- BOSTICK, ROBERT LANDIS. Oakland
2nd year—3289 Montana St., Oakland
- BOUGHTON, DOROTHY M. Illinois
(1) 2nd year—187 Wilson St.
- BRADLEY, LOREN ORMBY. San Mateo
1st year—472 Edgewood Rd., San Mateo
- BRAIN, CHARLES EDWARD. Oakland
1st year—659 Wesley Ave., Oakland
- BRAND, JOE L. Riverside
2nd year—1040 Bush St.
- BRANN, FRANKLYN KEITH. . . San Francisco
2nd year—510 26th Ave.
- BRIDGEMAN, ARTHUR RICHARD. . Alameda
(1) 3rd year—1719 Bay St., Alameda
- BRIEGLER, JOHN PHILLIPS. Berkeley
2nd year—2500 Hillgass Ave., Berkeley
- BROWER, JAMES MCNEIL. Oakland
1st year—1727 48th Ave., Oakland
- BROWN, NAT. San Francisco
3rd year—131 Serrano Dr.
- BURGESS, MYRTLE MARIE. . . San Francisco
1st year—420 Russia Ave.
- BURKE, LEONARD PATRICK. . . San Francisco
3rd year—474 29th Ave.
- BURNAM, JACK LEONARD. Oakland
1st year—1803 East 21st St., Oakland
- BUSATH, DOUGLAS CHEEVER. . . Sacramento
2nd year—281 Blythdale St.
- BUSH, STANLEY MICHAEL, JR. . . Berkeley
2nd year—2907 A Grove St., Berkeley
- BYINGTON, LEWIS RYAN. San Francisco
2nd year—1115 Green St.
- CADWALADER, GEORGE LYELL
San Francisco
3rd year—1942 Pacific Ave.
- CALDWELL, CLAUDE HARVEY. Fairfax
3rd year—Box 565, Fairfax
- CALFEE, DAVID WALKER. Richmond
2nd year—1023 9th St., Richmond
- CAMPBELL, HOMER EDGAR. Arvin
1st year—Box 306, Arvin
- CARD, WILLIAM HENRY. Sebastopol
1st year—2898 Jackson St.
- CAREY, CHARLES JOSEPH, JR. . . Berkeley
1st year—855 Indian Rock Ave.,
Berkeley
- CARPENTER, DONALD RAYMOND
San Francisco
2nd year—926 Grove St.
- CARROLL, OLIVER JUNIOR. Sacramento
(1) 1st year—Route 2, Box 2890,
Sacramento
- CARTER, ROBERT DITSON. Cottonwood
2nd year—404 San Anselmo Ave.,
San Anselmo

- CASTLE, ARTHUR ROBERT Palo Alto
1st year—245 Leavenworth St.
- CATTERTON, GUY BERRY Oakland
3rd year—585 Capell St., Oakland
- CAVALIER, WILLIAM ST. CYR, JR.
Piedmont
1st year—401 Hampton Rd., Piedmont
- CECCHETTINI, HORACE ERNEST
Sacramento
2nd year—1427 Clay St.
- CENEDELLA, ATTILIO HAROLD . . . Berkeley
(1) 1st year—2937 Scott St.
- CHAMBERLAIN, PAUL HOFMANN . . Auburn
1st year—2626 Claremont Ave.,
Berkeley
- CHANNELL, WILLIAM RICHARD . . . Orinda
2nd year—51 Orchard Rd., Orinda
- CHAPMAN, WILLIAM SAMUEL
San Francisco
(1) 1st year—1000 Oak St.
- CHARLES, STANLEY PETER, JR.
San Francisco
(1) 1st year—134 Upper Ter.
- CHENEY, MARSHALL CHIPMAN, JR.
Berkeley
1st year—2715 Channing Way,
Berkeley
- CHERTOK, ELY San Francisco
1st year—648 Capp St.
- CISSNA, NORMAN CLARK . . . San Francisco
1st year—1245 Broderick St.
- CLARK, CURTIS RICHARD . . . San Francisco
(1) 1st year—701 Pine St.
- CLARK, LESTER HOWARD . . . San Francisco
1st year—1827 Vallejo St.
- CLAVERIE, ROBERT RAYMOND . . . Fresno
2nd year—3778 Washington St.
- CLAWSON, LAWRENCE WALTER . . Oakland
3rd year—6427 Colby St., Oakland
- COAN, GEORGE ROGER Beverly Hills
3rd year—3848 Sacramento St.
- COCHRAN, GAIL VICTOR Oakland
3rd year—3936 Robley Ter., Oakland
- CODUTI, LEONARD LEO San Francisco
2nd year—1320 O'Farrell St.
- COGGINS, BRUCE TRAVERS Orinda
2nd year—77 Orchard Rd., Orinda
- COHELAN, SHIRLEY MABEL San Francisco
1st year—1044 Pine St.
- COHEN, JEROME San Francisco
2nd year—603 Scott St.
- COLE, ROBERT WILEY Sacramento
1st year—281 Dolores St.
- COLESTON, HOWARD JAMES . . . Berkeley
2nd year—2430 Fulton St., Berkeley
- COLVIN, MORTON ROBERT . . . San Anselmo
2nd year—54 Brookside Dr.,
San Anselmo
- COMMERFORD, WILLIAM JOSEPH Berkeley
(1) 1st year—1212 Neilson St.,
Berkeley
- COMSTOCK, MARSHALL HURD Santa Rosa
1st year—1918 Franklin St.
- CONAWAY, ROBERT EARL Stockton
1st year—1114 Sutter St.
- CONNERS, ROBERT NIELSON . . . Berkeley
1st year—1619 Oxford St., Berkeley
- CONSTINE, DON BEN San Francisco
3rd year—588 42nd Ave.
- CONWAY, THOMAS BOONE . . . San Francisco
1st year—2016 California St.
- COOK, DANIEL GULLETT Carmel
(1) 1st year—P. O. Box 1583, Carmel
- COOKE, THOMAS ARTHUR Nevada
3rd year—516 Ellis St.
- COONEY, ROBERT JOSEPH El Cerrito
2nd year—227 Ashbury Ave., El Cerrito
- CORKIN, THOMAS J. Oroville
2nd year—3778 Washington St.
- CORNELL, HAROLD DICKERSON Richmond
2nd year—36 Syndicate Court North,
Richmond
- COSHOW, WILLIAM WAYNE San Francisco
1st year—1495 45th Ave.
- CRATON, EDWARD JACOB Los Angeles
1st year—1918 Franklin St.
- CRAWFORD, HOWARD GRAHAM, JR.
San Francisco
2nd year—370 Upper Terrace
- CREASEY, LLOYD MONTROSE San Francisco
2nd year—425 Hyde St.
- CROWLEY, TIMOTHY JOHN San Francisco
2nd year—63 Tioga Ave.
- CUNNINGHAM, FRED M. Berkeley
2nd year—1049 Spruce St., Berkeley
- CURRY, BEN Le Grand
1st year—2898 Jackson St.
- CURTIN, THOMAS FRANCIS, JR.
San Francisco
2nd year—1139 Broadway
- CUTHERELL, ROBERT STANHOPE
Sacramento
1st year—3778 Washington St.
- DAGGETT, ALFRED HAMPTON . . . Oakland
2nd year—451 Hanover Ave., Oakland
- DAGGETT, GORDON WILLIAMS . . Oakland
2nd year—451 Hanover Ave., Oakland
- DAGGETT, STUART, JR. Berkeley
2nd year—725 Hildale St., Berkeley
- DAHL, S. LOREN Corning
2nd year—1746 15th St.
- DAVIS, BENJAMIN MITCHELL Sacramento
3rd year—1650 California St.
- DAVIS, CHARLES JOSEPH . . San Francisco
(1) 1st year—5149 Anza St.
- DAWSON, CHARLES C., JR. . . . Berkeley
1st year—1216 Colusa Ave., Berkeley
- DEADRICH, PAUL E. San Leandro
2nd year—544 Dowling Blvd.,
San Leandro
- DE FOYD, ALMAS EDWARD . . San Francisco
1st year—1541 Steiner St.
- DEMLER, EVERETT ELDON . . . San Lorenzo
1st year—2635 Channing Way, Berkeley
- DENNEY, WOODROW WILSON
San Francisco
2nd year—2138 43rd Ave.
- DEVANEY, JOHN P. West Los Angeles
(1) 1st year—1338 Leavenworth St.
- DICKENSON, HOWARD GEORGE . . . Napa
1st year—2302 College Ave., Berkeley
- DICKERSON, GEORGE MORTON . . Nevada
2nd year—3778 Washington St.
- DICKEY, AMOS WILLARD . . San Francisco
3rd year *Special*—5505 Mission St.
- DICKEY, RANDAL FRANK, JR. . . Alameda
1st year—3221 Thompson Ave.,
Alameda
- DICKIE, WALTER MURRAY, JR. . Berkeley
2nd year—8 Roble Ct., Berkeley
- DIEHL, JOHN WILLIAM Nevada
1st year—861 Moultrie St.

- DIGGES, ROBERT, JR. Kentfield
1st year—3778 Washington St.
- DINOLA, PAUL J. San Francisco
3rd year *Special*—116 Clayton St.
- DOHRER, JOSEPH FRANCIS San Francisco
1st year—995 Sutter St.
- DONALDSON, MARILYN JEAN. . San Mateo
1st year—326 Ascot Rd., San Mateo
- DOPKINS, WILLIAM ERLE, JR. . Berkeley
3rd year—2516 Piedmont Ave.,
Berkeley
- DORAN, RAYMOND ELMO. Berkeley
(1) 1st year—3138 Eton Ave.,
Berkeley
- DOUGHERTY, HUGH EDWARD San Leandro
1st year—442 Superior Ave.,
San Leandro
- DOUGLAS, JAMES DIXON. Porterville
2nd year—Box 595, House 267,
Marin City
- DOW, MCMORRIS MARSHALL San Francisco
1st year—665 Pine St.
- DRAKULICH, SAM JOSEPH. Nevada
2nd year—725 Holly Park Circle
- DRECKMAN, HAROLD GENE. . Long Beach
1st year—152 Brookdale St.
- DUDLEY, HERBERT EARL. . . . Santa Rosa
3rd year—1722 15th St.
- DUKE, GEORGE, JR. Berkeley
1st year—2091 California St., Berkeley
- DUNLAP, JOHN FOSTER. San Francisco
2nd year—1253 Stanyan St.
- DUNN, WILLIAM PHILLIPS. . . . Inglewood
3rd year—58 Clayton St.
- DUNSEATH, WILLIAM N. Nevada
2nd year—3778 Washington St.
- DYORSON, MELVIN. San Francisco
2nd year—1427 Clay St.
- DYCHE, JAMES LAURENCE. . . . Berkeley
(1) 1st year—1244 Curtis Street,
Berkeley
- EOCLES, SAMUEL DAVIS. Oakland
1st year—2087 Durant Ave., Oakland
- EDDY, JAMES STONE. Berkeley
2nd year—1789 Oxford St., Berkeley
- EDMAN, LELAND MORRIS. Fresno
1st year—3778 Washington St.
- EDMUNDS, JAMES MARSHALL
San Francisco
1st year—647 Cole St.
- EDWARDS, MARK ULIN. Berkeley
2nd year—1433 Josephine St.,
Berkeley
- EDWARDS, REVIS MARION. Susanville
(1) 1st year—2898 Jackson St.
- EHLMAN, GRIGGS MATTHEW
San Francisco
2nd year—3242 Washington St.
- ELLEDGE, ROBERT RAYMOND. . Porterville
3rd year—3158 College Ave., Berkeley
- ENGBRIGHT, HARRY JACKSON
San Francisco
3rd year—536 Leavenworth St.
- ERIKSEN, PRESTON NORWOOD. . Oakland
2nd year—251 Parkview Terrace,
Oakland
- ESCHWIG, WOODROW WILSON
San Francisco
2nd year—3465 25th St.
- EVANS, PHILIP LYNDEN. Oakland
3rd year—850 56th St., Oakland
- FALE, DONALD JAMES. Eureka
3rd year—610 Polk St.
- FERNWOOD, STANLEY M. San Francisco
3rd year—580 McAllister St.
- FISHGOLD, MATTHEW MAYER
San Francisco
3rd year—921 Vicente St.
- FLEMING, JAMES MARTIN. . . . San Francisco
2nd year—742 Hyde St.
- FLYNN, JOHN JOSEPH. San Francisco
2nd year—2487 23rd Ave.
- FOLEY, EMMETT JAMES. San Francisco
3rd year—254 Guerrero St.
- FONG, BILLIE HIM. Sacramento
2nd year—14 Bourbin St.
- FOURT, JOHN EDWARD. San Francisco
1st year—1280 Grove St.
- FOX, CHRIS BERNARD, JR. Oakland
3rd year—2951 Delaware St., Oakland
- FRANCOIS, TERRY ARTHUR. . . . Oakland
2nd year—3010 Adeline St., Oakland
- FRANCOVICH, SAMUEL BOYD. . . . Nevada
3rd year—1646 Sutter St.
- FRANK, BELLE WEIDBERG. . . . San Francisco
(1) 1st year—190 Ocean Ave.
- FRATINI, ALBERTO. San Francisco
1st year—548 Lombard St.
- FREETHY, VERNON FRANCIS
San Francisco
2nd year—1246 Portola Drive
- FRENCH, WILLIAM GILBERT. . . . Glendale
1st year—879 Valencia St.
- FRIOUX, GEORGE EDWARD, JR. . . Stockton
1st year—1870 Sacramento St.
- FRUCHT, PHILIP SAMUEL. San Jose
(1) 1st year—390 26th Ave.
- FUGAZI, ROBERT ANDREW. . . . San Francisco
2nd year—2031 29th Ave.
- GABRIELLI, JOHN E. Nevada
2nd year—364 Valencia St.
- GALLAGHER, WILLIAM MICHAEL
Sacramento
2nd year—2235 Larkin St.
- GALLIANO, TRAYNOR. Oakland
2nd year—328 51st St., Oakland
- GARLINGHOUSE, STEPHEN. . . . Berkeley
2nd year—2031 Dwight Way, Berkeley
- GARRETT, DAN LOY, JR. Berkeley
3rd year—1627C University Ave.,
Berkeley
- GARRETT, WILLIAM LEE. Merced
2nd year—1090 Page St.
- GARVER, JACK PHILIP. Long Beach
1st year—2201 Baker St.
- GATELY, WILLIAM FRANCIS. . . . Sacramento
1st year—1495 45th Ave.
- GATES, EDWARD S. Berkeley
1st year—1111 9th St., Berkeley
- GERRINGER, JARL PAUL. Oakland
1st year—5500 Brookdale Ave.,
Oakland
- GEZELIN, EMILE JUSTIN. . . . San Francisco
3rd year—247 7th Ave.
- GHISELLI, MICHAEL GEORGE. . . . Alameda
2nd year—1312 Fountain St., Alameda
- GIBBERT, FLOYD VINCENT San Francisco
2nd year—3013 Fillmore St.
- GIBBS, FRANKLIN PHILIP, JR. . Berkeley
1st year—2610 Etna St., Berkeley
- GIBBS, MELVIN KIRK, JR. Fresno
1st year—General Delivery, Tiburon

- GILL, STANTON WILLIAM.. San Francisco
3rd year—2380 San Bruno Ave.
- GILMORE, EDWARD JOSEPH San Francisco
3rd year—1234 5th Ave.
- GIOVANETTI, CHARLIE.....Santa Rosa
1st year—239 12th Ave.
- GOMES, ARVY JAY.....Berkeley
3rd year—1865 Euclid Ave., Berkeley
- GORDON, FRED WILLIAM...San Francisco
3rd year—533 Taraval St.
- GORDON, SIDNEY.....San Francisco
2nd year—1454 15th St.
- GORMAN, RICHARD MCQUEEN.. Piedmont
2nd year—216 Palm Drive, Piedmont
- GRABOWSKI, LEON.....San Francisco
1st year—1918 Franklin St.
- GREEN, ROBERT WILLIAM.....Berkeley
1st year—2345 West St., Berkeley
- GREEN, SMITH W.....Los Angeles
1st year—1742 Bush St.
- GREGORY, JOHN BERTRAND San Anselmo
1st year—Box 223, San Anselmo
- GRIFFIN, JOHN RANDOLPH San Francisco
2nd year—4037 Geary Blvd.
- GRIFFITH, STANLEY HARRY...Oakland
1st year—1143 McKinley Ave.,
Oakland
- GRIFFITHS, PAUL EDWARD...Bakersfield
2nd year—835 Turk St.
- GROGAN, EDWARD RALPH.....Albany
1st year—1248 Portland Ave., Albany
- GUALCO, REYNOLD JAMES.. San Francisco
3rd year—3967 Sacramento St.
- GUETLING, ALFRED J.....Merced
2nd year—1090 Page St.
- GUPTA, KAMINI KANT.....Berkeley
3rd year—2402 Bonar St., Berkeley
- GUPTA, RUTH CHURCH.....Berkeley
3rd year—2402 Bonar St., Berkeley
- HAAS, MYRON BARNETT...San Francisco
1st year—2600 Ridge Road, Berkeley
- HALES, WILLIAM JAMES...San Francisco
1st year—3575 Fillmore St.
- HALL, LEONARD CHESTER...Bakersfield
3rd year—220 Golden Gate Ave.
- HALLIN, CLARK OSSELL...San Francisco
1st year—3778 Washington St.
- HAM, ARTEMUS W., JR.....Nevada
3rd year—1611 Sunnysdale Ave.
- HAMMAN, JAMES L.....San Francisco
2nd year—85 Patton St.
- HAMMER, EDWARD ALBERT San Francisco
2nd year—370 Valencia St.
- HAMMER, GEORGE EMERSON San Francisco
3rd year—2415 Octavia St.
- HAMMERSMITH, WILLIAM L....Nevada
2nd year—4106 Porter St., Oakland
- HAMRICK, BENJAMIN WILLIAM
San Diego
1st year—1405 Van Ness Ave.
- HANCOCK, FRANCIS CECIL GORE
San Francisco
3rd year—276A 19th Ave.
- HANCOCK, WALTER CLINE San Francisco
2nd year—1425A 19th Ave.
- HANSEN, KENNETH ALVIN
Sequoia Nat'l. Park
1st year—1635 Sunnysdale Ave.
- HANSEN, ROBERT BERNARD...Wilmington
2nd year—10 Cumberland St.
- HANSEN, ROBERT BLAINE.....Merced
2nd year—1035 21st St., Merced
- HARDIE, ALBERT MILTON, JR...Berkeley
1st year—2319 Roosevelt Ave.,
Berkeley
- HARDIE, JANE.....San Francisco
3rd year—1753 Washington St.
- HARTFORD, BERTRAM VINCENT
San Francisco
1st year—154 Borica Way
- HARTVIG, DONALD HARRISON.....Lodi
2nd year—3149 Cabrillo St.
- HASTINGS, WARREN, JR.....Berkeley
1st year—1730 LaLoma Drive, Berkeley
- HAUER, GEORGE WALKER.....Belmont
2nd year—1600 Belburn Rd., Belmont
- HAWS, EDSSEL W.....San Francisco
3rd year—2090 Green St.
- HAYES, HAROLD ROBERT.....Mill Valley
3rd year—15 Throckmorton Ave.,
Mill Valley
- HAYES, JAMES ARTHUR.....Oakland
3rd year—961 107th Ave., Oakland
- HAYES, JOHN ONKKA....San Francisco
2nd year—2765 Hyde St.
- HAYNES, PRISCILLA HOPE...Redwood City
1st year—131 Hopkins Ave.,
Redwood City
- HEDLUND, EARL FLOYD.....Richmond
1st year—256 So. 15th St., Richmond
- HEFNER, ARCHIE.....Alameda
2nd year—2252 San Jose Ave.,
Alameda
- HEIDER, WALLACE BECK.....Oregon
1st year—1161 Stanyan St.
- HENLEY, VICTOR RALPH....Sacramento
2nd year—1214 G 9th St., Berkeley
- HENRY, MAX EUGENE.....Rialto
3rd year—401 Lake St.
- HERVY, JAMES EDGAR.....San Diego
1st year—3778 Washington St.
- HINMAN, WILLIAM RALPH San Francisco
1st year—580 McAllister St.
- HIRSCH, BENJAMIN.....San Francisco
3rd year—924 Grove St.
- HIRSCH, LEOPOLD MATHIEU San Anselmo
1st year—80 Monterey Blvd.,
San Anselmo
- HOFFMAN, HARLAND JACK San Francisco
2nd year—2710 Cabrillo St.
- HOFFMAN, HARVEY WILLIAM..Wisconsin
2nd year—580 McAllister St.
- HOGAN, ALBERT DABNEY....Piedmont
3rd year—120 Latham St., Piedmont
- HOGAN, FRANK PROCTOR.....Oakland
(1) 2nd year—633 Alma Ave.,
Oakland
- HOLCOMB, R. WILLIAM..San Bernardino
1st year—1619 Oxford St., Berkeley
- HOLLAND, JOHN EDWARD...Sacramento
2nd year—3778 Washington St.
- HOOPER, CLAYTON MELVIN San Francisco
1st year—101 Upland Drive
- HOPPER, RALPH EUGENE.....Idaho
2nd year—580 McAllister St.
- HORTON, RICHARD WINGFIELD...Nevada
1st year—2212 Sacramento St.
- HOUSEBERG, ERNEST JAMES Pennsylvania
2nd year—2200 25th Ave.
- HUBBERT, ROBERT GUY...San Francisco
2nd year—1127 Filbert St.

- HUDSON, ROBERT HENRY, JR. Watsonville
1st year—301½ Webster St.
- HUDSON, THOMSON JAY.....Carmel
2nd year—1194 Spruce St., Berkeley
- HULL, JOHN WILLARD.....Berkeley
(1) 1st year—2435 College Ave.,
Berkeley
- HULL, LEWIS WILLARD.....Lost Hills
2nd year—1690 Greenwich St.
- HULTGREN, RICHARD ERLING
San Francisco
1st year—1739 Pine St.
- HUMBER, VERNON WALTER San Francisco
2nd year—35 Sequoia Way
- INMAN, DONALD BERT.....Berkeley
1st year—1627 Oak View Ave.,
Berkeley
- IREDALE, THOMAS BRUCE.....San Mateo
1st year—706 W. Popular Ave.,
San Mateo
- JAEGER, WILLIAM PAUL, JR....Berkeley
1st year—53 Domingo Ave., Berkeley
- JAMES, HELEN CLARA.....San Francisco
2nd year—2703C McAllister St.
- JANUS, CHESTER WALTER..San Francisco
(2) 1st year—1529 Sunnysdale Ave.
- JAY, ROBERT FREDERICK..San Francisco
1st year—3666 20th St.
- JENKINS, THOMAS M.....Oakland
2nd year—262 Capricorn St., Oakland
- JENNINGS, CHARLES W.....Selma
2nd year—15 Liberty St.
- JEWETT, HARLAN RUSSELL..Los Angeles
1st year—1501 Lincoln Way
- JEWETT, HAROLD WOODWARD, JR.
Piedmont
1st year—124 Guilford Rd., Piedmont
- JIMINEZ, ALBERT.....Berkeley
1st year—2115 9th St., Berkeley
- JOHNSON, RICHARD EARLE San Francisco
2nd year *Special*—1632 25th St.
- JOHNSON, STANLEY ALLAN....Oakland
2nd year—3557 Wilson Ave., Oakland
- JOHNSTON, HUGH BYRON..San Francisco
(1) 1st year—2898 Jackson St.
- JOHNSTONE, JAMES MARL.....Stockton
2nd year—1726 15th St.
- JONES, BERTON FARLEY.....Oakland
(1) 1st year—2583 26th Ave.
- JONES, ROBERT THEODORE.....Indiana
1st year—32 Bonnie Lane, Berkeley
- JONES, SAMUEL LLOYD....San Francisco
1st year—2402 Clay St.
- KAISER, ROBERT AUGUST.....Oakland
3rd year—2906 Delaware St., Oakland
- KAKURES, PETER DENIS.....Oakland
3rd year—4080 Lakeshore Ave.,
Oakland
- KARSEVAE, LEONARD JOSEPH
San Francisco
1st year—1618 Quesada Ave.
- KAZANSKY, FRANCIS LOUISE...San Diego
1st year—4318 23rd St.
- KEANE, JOHN FRANCIS.....Berkeley
1st year—2035 Channing Way,
Berkeley
- KEARNEY, JAMES STANLEY San Francisco
2nd year—1871 35th Ave.
- KELLY, DORAN LOUIS.....Vallejo
(1) 2nd year—1034 Capitol St., Vallejo
- KELLY, GRAHAM M.....San Diego
1st year—2223 Union St., Berkeley
- KENNEDY, JOSEPH GAMBLE...Pasadena
2nd year—2476 Bush St.
- KIESER, CHARLES WILLIAM San Francisco
2nd year—398 Santa Ana Ave.
- KINNEY, JOHN CHARLES.....Brisbane
2nd year—281 San Benito Rd.,
Brisbane
- KINSEY, DOUGLAS KEITH..San Francisco
1st year—2835 Van Ness Ave.
- KLEBANOFF, SAMUEL H.....Petaluma
(1) 1st year—2200 Pacific St.
- KNAPP, LEWIS CHARLES....Sacramento
1st year—2541 Dwight Way, Berkeley
- KNOX, PHILIP MESSENGER, JR. Oakland
2nd year—4121 Greenwood Ave.,
Oakland
- KNUDSEN, RICHARD ALBERT BERNDT
Pasadena
1st year—1820 Cayuga Ave.
- KOPPERUD, ANDREW, JR...San Francisco
1st year—2707 Sacramento St.
- KOUTCHIS, PETER MICHAEL.....Chico
1st year—3778 Washington St.
- KRALOWEC, GEORGE I.....Porterville
1st year—1611 Vallejo St.
- KUGLER, MANUKI LEON.....Los Angeles
1st year—813 Grove St.
- KUKULA, THADDEUS J....San Francisco
2nd year—1725 Turk St.
- KUNY, KENNETH ALBERT.....Tulare
2nd year—828 Arlington Ave., Oakland
- KUTZ, ROBERT BOYNE.....Chico
3rd year—3204 Telegraph Ave.,
Oakland
- LANGDON, MONROE NICHOLAS...Stockton
3rd year—3855 Irving St.
- LAUGHLIN, DAVID HART.....Oakland
3rd year—6450 Benvenue Ave., Oakland
- LAURENT, JAMES MADISON.San Francisco
1st year—75 San Benito Way
- LAWRENCE, FRANCIS WARREN
San Francisco
2nd year—1948 Green St.
- LE BARRON, FREDERICK HARRY, JR.
San Diego
2nd year—3778 Washington St.
- LECKMAN, HENRY T., SR...San Francisco
1st year—2187 32nd Ave.
- LE GAR, EDWARD BOTSFORD.....Taft
2nd year—3778 Washington St.
- LEIBL, DANIEL.....Pasadena
1st year—862 39th Ave.
- LEOV, WARREN GREGORY...San Francisco
(1) 1st year—1351 23rd Ave.
- LEONHAEUSER, RAYMOND CARL
San Francisco
3rd year—1200 15th Ave.
- LEVIKOW, IRVING WILLIAM.San Francisco
1st year—1840 Clay St.
- LEVINS, WILLIAM FRANCIS.San Francisco
2nd year—1090 Page St.
- LEVY, RAYMOND HERBERT..San Francisco
2nd year—2000 Noriega St.
- LEWIS, JEROME ROBERT.....Berkeley
3rd year—1385 Neilson St., Berkeley
- LEWIS, JOSEPH FRANCIS...San Francisco
1st year—2037 Fulton St.

- LIDE, CHARLES KEITH.....Alameda
2nd year—1207 St. Charles St.,
Alameda
- LIN, VICTORIA.....San Francisco
(1) 1st year—790 California St.
- LINDSEY, JAMES THOMAS.....Fresno
2nd year—339 Waller St.
- LINDSLEY, HERBERT LESLIE, JR..Berkeley
1st year—32 Bonnie Lane, Berkeley
- LITTLEFIELD, WILBUR FORREST..Berkeley
2nd year—1141 10th St., Berkeley
- LOHNEIS, GEORGE NORTON.San Francisco
3rd year—362 26th Ave.
- LORTON, EUGENE FREDERICK
San Francisco
1st year—60 San Anselmo Ave.
- LOUGHRAN, JAMES PHILIP.San Francisco
1st year—1311 5th Ave.
- LOUIE, PAUL HOY.....San Francisco
1st year—1410 Powell St.
- LOW, WILLIAM HENRY.....Santa Ana
2nd year—2303 Sacramento St.
- LOWER, ROY.....Oakland
2nd year—1300 107th Ave., Oakland
- LOWERY, WILLIAM RAYMOND.Los Angeles
1st year—701 Faxon Ave.
- LOWREY, CLAY WILSON.....Fresno
1st year—829 Golden Gate Ave.
- LUCKHARDT, WILLIAM GORDON
San Francisco
1st year—7 Upper Terrace
- LYON, KARL DAVID.....Missouri
1st year—833 Kirkham St.
- MCALDER, EDWARD POTTER.San Francisco
1st year—1262½ Sacramento St.
- MARTHUR, PAUL ENOCH...Los Angeles
(1) 1st year—608 No. Laurel Ave.,
Los Angeles
- MCAULIFF, HAROLD CLAYTON..San Diego
1st year—722 Golden Gate Ave.
- MCCARTNEY, ROBERT THEO, JR...Oakland
1st year—937 63rd St., Oakland
- MCCLENAHAN, GEORGE RICHARD
San Francisco
1st year—3756 24th St.
- MCDONALD, JOHN EDWARD, JR.
Santa Rosa
1st year—1751 Pacific Ave.
- MCDONALD, JOHN WILLIAM
San Francisco
1st year—1644 Taylor St.
- MCDONOUGH, JOHN JOSEPH...Berkeley
1st year—2100 Virginia St., Berkeley
- MCDONOUGH, MARK JOSEPH...Oakland
2nd year—3701 Grand Ave., Oakland
- MCGRATH, SAMUEL VINCENT..Richmond
1st year—330 So. 20th St., Richmond
- MCGUIRE, ELMER J.....Oakland
3rd year—5940 Claremont Ave.,
Oakland
- MCINNES, DAVID GEORGE...Sacramento
2nd year—663 2nd Ave.
- MCINNIS, LEO VINCENT.....Fairfield
1st year—3778 Washington St.
- MCKEVITT, OWEN GRANDI..San Francisco
2nd year—3778 Washington St.
- MCNEIL, ALVIN DONALD....San Bruno
2nd year *Special*—757 Masson Ave.,
San Bruno
- MACCHESNEY, STUART LACHLAN.Berkeley
1st year—1129 9th St., Berkeley
- MACDONALD, LLOYD STONE....Berkeley
1st year—1611 Posen Ave., Berkeley
- MAHONEY, DANIEL C.....Washington
(1) 1st year—210 Harvard Rd.,
San Mateo
- MAHONEY, JOHN HEROLD.....Petaluma
(1) 1st year—Route 4, Box 156,
Petaluma
- MAHONEY, PAUL FRANCIS.....Alameda
(1) 1st year—711 Santa Clara Ave.,
Alameda
- MANFREDO, DONALD FRANCIS
San Francisco
2nd year—1080 Eddy St.
- MANGELS, WARREN WESLEY.San Francisco
2nd year—1347 Page St.
- MARCUS, MAURICE SHEPARD.San Francisco
1st year—1270 Grove St.
- MARKLEY, TOM BONIFACE San Francisco
2nd year—1350 33rd Ave.
- MAROTIAN, SIMON.....Fresno
3rd year—2442 Jackson St.
- MARTIN, MYRON ANTHONY San Francisco
3rd year—189 Highland Ave.
- MARTIN, ROLAND EUGENE...San Diego
1st year—49 Sonia St., Oakland
- MARTINELLI, VICTOR.....Piedmont
2nd year—1239 Grand Ave., Piedmont
- MARTINO, PHILLIP.....San Francisco
2nd year—425 Hyle St.
- MATHEU, JOHN PRENDERGAST
San Francisco
1st year—1250 Chestnut St.
- MATIN, ARTHUR.....San Francisco
2nd year—607 15th Ave.
- MAVEETY, LUTHER JACKSON New Mexico
2nd year—41 Octavia St.
- MENDELL, MIRIAM W.....San Francisco
(1) 2nd year—4134 Fulton St.
- MERICKEL, BRUCE ARTHUR..Menlo Park
1st year—1325 Craze, Menlo Park
- MERLO, AUGUST JOHN.....Oakland
1st year—301½ Webster St.
- MEVIS, WILLIS H.....San Francisco
2nd year—3778 Washington St.
- MICHAELS, RUDOLF HANS..San Francisco
3rd year—3550 California St.
- MICHELSON, ALBERT, JR. San Francisco
2nd year—513 Clayton St.
- MILLER, GEORGE SCOTT.....Montebello
2nd year—3000 Cutting Blvd.,
Richmond
- MILLER, ROBERT DONALD...San Carlos
2nd year—184 Fir St., San Carlos
- MILLSAP, ROBERT RUSSELL...Larkspur
3rd year—44 Diane Lane, Larkspur
- MILLSPAUGH, PHILLIP M., JR. Berkeley
2nd year—1410 Josephine St.,
Berkeley
- MINASIAN, DAVID HANKINS...Pittsburg
1st year—Monroe Hotel, Sacramento St.
- MOHLER, ALBERT DANIEL.....Oakland
(1) 1st year—1967 Courtland Ave.,
Oakland
- MONTGOMERY, THOMAS MILTON, JR.
Auburn
3rd year—655 Stockton St.
- MOORE, CHARLES VERNON.....Eureka
2nd year—461 S. 24th St., Richmond
- MOORE, JAMES SAMUEL.....Berkeley
2nd year—735 Hilldale Ave., Berkeley

- MOORE, JOHN WILBURN... San Francisco
1st year—5725 California St.
- MORGAN, CHARLES OLIVER, JR.
San Francisco
2nd year—2583 39th Ave.
- MORGAN, HERBERT EUGENE... Oakland
2nd year—1368 Holman Rd., Oakland
- MORISON, ROBERT DANIEL... Fontana
1st year—5836 Ocean View, Oakland
- MORRILL, NORMAN... San Francisco
1st year—2127 31st Ave.
- MORSE, WILLIAM REED... Nevada
1st year—1760 Sunnydale Ave.
- MORTARA, BENJAMIN SEBASTIAN, JR.
San Francisco
2nd year—2241 Bay St.
- MORTON, BYRON CHARLES... Riverside
2nd year—1750 Sacramento St.
- MULCH, THEODORE WAYNE... Roseville
1st year—1947 San Pablo Ave.,
Berkeley
- MURPHY, FREDERICK CLINTON... Willows
1st year—1730 LaLoma St., Berkeley
- MYERS, JESSE L... San Francisco
(1) 1st year—Winton Hotel
- NAHMAN, CAROLINE... San Francisco
(1) 1st year—504 Page St.
- NAPHAN, ALFRED ROBERT... El Cerrito
2nd year—8765 Terrace Dr., El Cerrito
- NELSON, EDWIN BRUCE... Piedmont
(1) 1st year—511 Hampton Rd.,
Piedmont
- NELSON, GORDON WILLIAM... Oakland
1st year—1484 Excelsior Ave., Oakland
- NEWLOVE, WILBUR CLARK... Santa Cruz
2nd year—825 Geary St.
- NEWMAN, ROBERT CHARLES
Santa Barbara
2nd year—1090 Page St.
- NISBET, ROBERT E... Berkeley
3rd year—3118 College Ave., Berkeley
- NORTON, WILLIS S... Stockton
3rd year—1565 Sunnydale Ave.
- NOTTINGHAM, PHILIP BARNTH... Oakland
2nd year—5823 Nottingham Dr.,
Oakland
- NOVAK, JOHNNIE LE ROY... Novato
(1) 1st year—Novato
- NUSBAUM, ALLEN LLOYD... Richmond
1st year—467 Carlston St., Richmond
- O'DAY, THOMAS MARTIN... San Francisco
1st year—311 Spruce St.
- O'DONNELL, WILLIAM... San Francisco
(2) 1st year—3627 Moraga St.
- O'DEAIN, PAUL JAMES... Richmond
2nd year—405 46th St., Richmond
- O'HARA, SALLY M... Vallejo
1st year—940 Powell St.
- OLSON, THOMAS WARREN... San Francisco
3rd year—3855 Irving St.
- O'NEAL, JAMES LYLE... Berkeley
2nd year—2476 Bush St.
- ORRICK, ANDREW DOWNEY San Francisco
(1) Graduate—2698 Pacific Ave.
- ORSI, VICTOR... Roseville
3rd year—1403 A 12th Ave.
- OTTO, ALFRED PAUL... Oakland
1st year—400 Perkins St., Oakland
- OVERSON, WESLEY ELLSWORTH
San Francisco
3rd year—33 Acevedo Ave.
- PAIGE, THOMAS ERNEST... Fresno
1st year—1346 Hyde St.
- PAPER, HARRY WOLF... San Francisco
2nd year—1460 Golden Gate Ave.
- PARDEE, JAMES EDWIN... Susanville
3rd year—2898 Jackson St.
- PARRISH, JOSEPH WILLIAM FRANKLIN
Berkeley
1st year—1216 10th St., Berkeley
- PATERSON, DONALD EDGAR, JR.
San Francisco
1st year—135 Henry St.
- PATRICK, JAMES ANTHONY... Berkeley
2nd year—1117 Addison St., Berkeley
- PATTON, RICHARD EVANS... Arbuttle
3rd year—6368 Racine St., Oakland
- PAYNE, EUGENE CHARLES, JR.
San Francisco
3rd year—208 Frederick St.
- PEARL, RICHARD OTHO... Richmond
1st year—24 Four Ct., Harbor Gate,
Richmond
- PEASE, CLARENCE HARRIS... Sacramento
3rd year—1742 39th Ave.
- PECK, JAMES MASON... Vallejo
2nd year—729 Maine St., Vallejo
- PECKINPAH, ROBERT LINCOLN... Quincy
3rd year—189 Parnassus St.
- PETTIS, JOHN ALOEY, JR... San Carlos
3rd year—2065 Brittan Ave.,
San Carlos
- PETTIT, WALTER FITCH... Berkeley
1st year—2430 Ashby Ave., Berkeley
- PHELPS, WILLIAM HORACE San Francisco
2nd year—220 Golden Gate Ave.
- PINGER, EDWARD BLACKER... Berkeley
2nd year—53 Tunnel Rd., Berkeley
- PLUMLEY, CLIFFORD HENRY... Berkeley
2nd year—1446 Kaina Ave., Berkeley
- POPELKA, ROBERT JOSEPH
South San Francisco
3rd year—201 Bonita Ave.,
South San Francisco
- POSTEL, LLOYD FRANCIS... Mill Valley
2nd year—145 Eldridge Ave.,
Mill Valley
- POSTEL, WALDO FRANCIS, JR.
San Francisco
2nd year—256 Santa Clara Ave.
- POWERS, WALTER WILLIAM... Escalon
1st year—P. O. Box 53, Escalon
- PRESLEIGH, RANDALL JOHN... Redding
2nd year—637 Lathrop St.
- PRUGH, GEORGE SHIPLEY, JR... Piedmont
3rd year—356 Stonecrest Dr.
- PUTLER, OWEN JUDKINS... Madera
(1) 1st year—Route 1, Box 154,
Madera
- QUAIL, JOHN LESTER, JR... Fresno
1st year—520 Scott St.
- QUINLISK, WALLACE GRANT San Francisco
2nd year—162 Appleton Ave.
- RABIN, OREN MELVIN... San Francisco
1st year—2228 North Point St.
- RAFFERTY, RICHARD AUSTEN... Berkeley
3rd year—1242 Rose St., Berkeley

- RAINVILLE, JOSEPH WOODSON... Berkeley
1st year—2517 Hillegass Ave., Berkeley
- RECANZONE, MARIO GIOVANNI... Nevada
1st year—43 Dakota St.
- REDDINGIUS, ROBERT PETRUS
San Francisco
1st year—1362 Post St.
- REILLY, JAMES CRAWFORD... Oakland
1st year—1251 Sunnyhills Rd.,
Oakland
- REINTHALER, WALTER CHARLES Oakland
1st year—647 56th St., Oakland
- REITZEL, RAYMOND BOK... Berkeley
(1) 1st year—2441 Haste St., Berkeley
- RENNER, JOHN LEO... San Francisco
1st year—2041 Pierce St.
- RICHARDS, DORIS... San Francisco
(1) 3rd year—300 Page St.
- ROBB, JOSEPH WILLIAM... San Francisco
1st year—2100 Green St.
- ROBERTS, BRUCE DOUGLAS... Nevada
2nd year—1090 Page St.
- ROBERTS, FRANKLIN HENRY... Patterson
3rd year—2785 Green St.
- ROBERTS, WILLIAM FRANK... Stockton
2nd year—1701 Franklin St.
- ROBERTSON, RODNEY HILL San Francisco
2nd year—214 Arleta Ave.
- ROBINSON, RALPH WELLS.. San Francisco
1st year—3362 Clay St.
- ROBINSON, RICHARD McDONALD
San Francisco
2nd year—1396 29th Ave.
- ROCKWELL, CLYDE ROY... Berkeley
2nd year—2511 Virginia St., Berkeley
- RODGERS, LEE WALTER... Palo Alto
2nd year—579 University Ave.,
Palo Alto
- ROSE, ADRIAN WARD... San Francisco
2nd year—1300 26th Ave.
- ROWE, EVERETT PAUL... Santa Barbara
2nd year—2898 Jackson St.
- RUNDEN, DAVID ELLING... Indiana
1st year—175 Colon Ave.
- RUSO, JAMES MICHAEL... Oakland
2nd year—978 12th St., Oakland
- RYAN, MARTIN HENRY... Jackson
2nd year—2417 Durant Ave., Berkeley
- SACK, JEROME... San Francisco
3rd year—2898 Jackson St.
- SAKUMA, MAMORU... San Francisco
2nd year—1844 Golden Gate Ave.
- SANDALL, WALTER DALE... Bakersfield
1st year—El Portal Park, San Pablo
- SANDERSON, WILLIAM H... Madera
2nd year—764 8th Ave.
- SAYLOR, EUGENE EDWARD... Berkeley
1st year—1702 University Ave.,
Berkeley
- SCHAAL, THOMAS EDGAR... Mill Valley
2nd year—11 Bayview Ave.,
Mill Valley
- SCHACHT, RICHARD PHILIP... Alameda
2nd year—2030 San Antonio Ave.,
Alameda
- SCHNEPPLE, RUSSELL GEORGE... Oakland
3rd year—2287 35th Ave., Oakland
- SCHOENIG, RICHARD ALLAN San Francisco
2nd year—2884 Jackson St.
- SCHUM, ROBERT JOSEPH... Marin City
3rd year—P. O. Box 325, Marin City
- SCIARONI, ANTOINETTE LLOYD... Fresno
2nd year—550 Geary St.
- SCOTT, LAURENCE LACHLAN... Berkeley
2nd year—2414 Telegraph Ave.,
Berkeley
- SELLAR, WILLIAM RUDD... Vallejo
2nd year—3778 Washington St.
- SEYMOUR, ROBERT JOHN.. San Francisco
1st year—248 15th Ave.
- SHARP, STANLEY RAY... San Diego
1st year—1405 Van Ness Ave.
- SHAW, NORMAN WAITE, JR... Berkeley
3rd year—71 Tunnel Rd., Berkeley
- SHEAREE, DONALD WALLACE... Oakland
2nd year—734 Alcatraz Ave., Oakland
- SHEPARD, JOHN E... Selma
3rd year—11 Fuente St.
- SHERMAN, LEWIS FRANK... El Cerrito
2nd year—131 Pomona Ave., El Cerrito
- SHIMOFF, ROBERT... San Francisco
2nd year—550 Larkin St.
- SHORT, ALAN B... Stockton
3rd year—153 Blythdale Ave.
- SHORTALL, RICHARD COLLINS
San Francisco
3rd year—1651 33rd Ave.
- SIMPKINS, DONALD LANCASTER
San Francisco
2nd year—220 Golden Gate Ave.
- SINAI, DAVID PLATT... Nevada
2nd year—920 Taylor St.
- SKINNER, JOHN TEMPLE.. San Francisco
2nd year—2886 Jackson St.
- SOLICH, GREGORY ANTHONY... Richmond
2nd year—126 Santa Fe Ave.,
Richmond
- SOUZA, ETHEL GLORIA... Los Banos
(1) 1st year—2527 Ridge Road,
Berkeley
- SPANOS, GEORGE G... Stockton
2nd year—3778 Washington St.
- SPAULDING, EDWIN NEAL... Richmond
(1) 1st year—316 So. 13th St.
Richmond
- SPEROS, PETER J... San Francisco
2nd year—620 25th Ave.
- SPIVEY, LEONARD L... San Jose
3rd year—2442 Jackson St.
- STAIGER, WARREN ARTHUR... Dixon
1st year—645 Bush St.
- STAMPS, ARNOLD NESTOR... Berkeley
2nd year—2214 Browning St., Berkeley
- STATTON, HAROLD FRANCIS... Martinez
2nd year—1731 Pine St., Martinez
- STAVE, JOSEPH ANDREW... Berkeley
3rd year—2227A McGee Ave., Berkeley
- STEIN, GEORGE KARL, JR... San Francisco
2nd year—2515 Broadway
- STENNETT, JOHN LEE... San Francisco
2nd year—1714 15th St.
- STEPHENSON, ETTA GERALDINE Oakland
1st year—5800 Clover Dr., Oakland
- STEWART, WALTON GARFIELD New Jersey
3rd year—2476 Bush St.
- STILL, LESLIE EVAN, JR... Long Beach
2nd year—1746 15th St.
- STILL, WILLIAM EDWARD... Long Beach
1st year—16 Laguna St.
- STONE, LEONARD... Berkeley
(1) 1st year—2314 Dwight Way,
Berkeley

- STREETEE, JACK Nevada
3rd year—1646 Sutter St.
- STREBLING, FRED TAYLOR . . . Walnut Creek
2nd year—2101 Laguna St.
- STRICKER, JACK WINSOR Oakland
3rd year—2689 66th Ave., Oakland
- STROMSNES, CLARENCE A. . . San Francisco
3rd year—395 25th Ave.
- SUSSMAN, MARVIN New York
1st year—2231 Derby St., Berkeley
- SYME, ROBERT DAVID San Francisco
1st year—3778 Washington St.
- TAYLOR, RUSSELL B. Nevada
2nd year—3778 Washington St.
- TEN DOESSCHATE, PAUL JOHN . . . Hayward
1st year—919 Medford Ave., Hayward
- THIELER, ALAN HENRY . . . San Francisco
2nd year—529 Duboce Ave.
- THOMAS, JAMES RICHARD Compton
2nd year—3848 Sacramento St.
- THOMAS, ROBERT LELAND . . . San Francisco
2nd year—650 Ellis St.
- THOMPSON, GEORGE DOUGLAS . . . Vacaville
2nd year—2401 Warring St., Berkeley
- THOMPSON, LELAND JEROME . . . Long Beach
1st year—735 Ellis St.
- THOMPSON, RUPEET FARNHAM Los Angeles
1st year—166 Embarcadero St.
- THORBURN, WILLIAM JOHN Piedmont
1st year—139 Ricardo Ave., Piedmont
- THORN, OLNEY ROBERT San Diego
2nd year—2731 Bancroft Way, Berkeley
- THURMAN, THOMAS WAGGONER . . . Oakland
3rd year—3028 Capp St., Oakland
- TIEDEMAN, RICHARD FULTON Alameda
2nd year—1080 Post St., Alameda
- TINDALL, KEEN EASTON Auburn
2nd year—306 Faxon Ave.
- TOCHTERMAN, MENDEL BRESLAVER . . . Chico
3rd year—1534 41st Ave.
- TONER, DOBOTHY PATRICIA . . . San Francisco
2nd year—230 Twin Peaks Blvd.
- TOWNE, EDWARD BANCROFT, JR. Redwood City
(1) 1st year—2937 Scott St.
- TOWNER, POETEE ALBERT Sacramento
2nd year—500 Stanyan St.
- TOWNSEND, CHARLES EDWARD, JR. Oakland
3rd year—6144 Valley View Drive, Oakland
- TRAPP, PATRICIA BUTLER . . . San Francisco
3rd year *Special*—580 McAllister St.
- TRASK, BERNARD KAUKAOHU . . . Oahu, T. H.
2nd year—1826 25th St.
- TRAVIS, CLYDE JAMES San Francisco
1st year—2235 Jackson St.
- TRAYLOR, MELVIN M. Palo Alto
1st year—P. O. Box 555, Stanford Univ., Palo Alto
- TREADWELL, JAMES EDWARD . . . Berkeley
1st year—2424 Fulton St., Berkeley
- TREFFTS, JOHN VINCENT San Francisco
3rd year—2339 Green St.
- TRENT, JOHN PARKINGSON Richmond
(1) 1st year—169 Blythdale Ave.
- TROXEL, JOHN EVERETT San Francisco
3rd year—3855 Irving St.
- TRUETT, HAROLD JOSEPH Alameda
1st year—2933 Gibbons Dr., Alameda
- TUBMAN, PAUL ROBERT Pasadena
3rd year—709 Geary St.
- TUCKER, NED CROSBY Richmond
1st year—1157 So. 30th St., Richmond
- TURNER, CLEMONS CORUM . . . Long Beach
2nd year—3848 Sacramento St.
- TWIGG, HENRY LEON San Francisco
1st year—2760 Golden Gate Ave.
- UPDEGROVE, MAURICE GONDER San Francisco
(1) 1st year—1511 17th Ave.
- URCH, JACK WARREN San Francisco
2nd year—633 Cabrillo St.
- VANCE, DUANE PENNISH Stockton
(1) 1st year—1509 Lucerne Ave., Stockton
- VAN DYKE, JAMES CLAUD Alameda
3rd year—925 Broadway, Alameda
- VAN METER, JACK CLARENCE San Francisco
3rd year—355 15th Ave.
- VAUGHN, ORVILLE R., JR. San Mateo
(1) 1st year—305 Ascot Rd., San Mateo
- VIAU, LAWRENCE EDMOND Del Rey
2nd year—2004 Pierce St.
- VOKOUN, JOSEPH FRANCIS, JR. . . Berkeley
3rd year—2626B Etna St., Berkeley
- WALLS, THOMAS FRANCIS Fresno
1st year—139 Blythdale Ave.
- WALTHER, LAWRENCE DONNER Los Angeles
2nd year—2405 Octavia St.
- WANLASS, LESLIE ATHOL San Pablo
1st year—2326 22nd st., San Pablo
- WELCH, STEVEN HENRY, JR. Berkeley
3rd year—2209 Grant St., Berkeley
- WERCHICK, JACK HERBERT . . . San Francisco
2nd year—712 Douglass St.
- WERLHOF, BRUCE ATHERTON . . . Red Bluff
3rd year—363 Page St.
- WERNICK, LIBBY Los Angeles
1st year—435 W. Portal St.
- WEST, GLENN COUNTY Lodi
2nd year—108 Monterey Blvd.
- WESTFALL, LESLIE MILLER Eureka
2nd year—Box 1046, Belvedere
- WHEELER, DONALD EUGENE . . . San Francisco
2nd year—3778 Washington St.
- WHITE, RALPH IRBY San Francisco
2nd year—190 Ewing Terrace
- WHITE, RAYMOND ERNEST Chico
1st year—3778 Washington St.
- WIDBIN, STANLEY BENJAMIN San Francisco
3rd year—554 22nd Ave.
- WILD, MOUNT GORDON Fresno
2nd year—6 Virginia Gardens, Berkeley
- WILKINS, RICHARD SHANNON Fresno
3rd year—1223 37th Ave.
- WILLIAMS, JOHN BEATIE Oakland
1st year—387 Orange St., Oakland
- WILLIAMS, JOSEPH B. West Virginia
(1) 1st year—534 Carolina St.
- WILSON, ARTHUR RUSSELL, JR. San Francisco
2nd year—821 37th Ave.
- WILSON, DOUGLAS EDWIN Stockton
3rd year—1718 15th St.

- WILSON, EDWIN WALTER.....Hanford
 2nd year—3848 Sacramento St.
 WILSON, LIONEL JOSEPH.....Oakland
 2nd year—889 Apgar St., Oakland
 WILSON, ROBERT ARNOLD.....Davis
 1st year—936 Fulton St.
 WILTERDINK, WILLIAM HENRY
 San Francisco
 (1) 2nd year—920 Bay St.
 WINKLER, ROBERT VICTOR.....Berkeley
 2nd year—2332 Fulton St., Berkeley
 WISNER, MAX ALDEAN.....San Francisco
 2nd year—1234 Dolores St.
 WONG, CHARLES FOO, JR.....Berkeley
 3rd year—1010 Page St., Berkeley
 WOOD, CHARLES ALBERT, JR.....Berkeley
 1st year—2531 Regent St., Berkeley
 WOOD, HENRY COBB.....Oakland
 (1) 1st year—2609 13th Ave., Oakland
 WOODRUFF, HERBERT CHARLES...Merced
 3rd year—1090 Page St.
 WOODS, SETH PATRICK....Redwood City
 1st year—Route No. 1, Box 380,
 Redwood City
- WOODWARD, JEAN.....Oakland
 3rd year—1757 26th Ave., Oakland
 WYLIE, ROBERT ERSKINE.....Oakland
 1st year—5706 Presley Way, Oakland
- YEE, SAMUEL EDMUND.....Marysville
 (1) Graduate—1020 Stockton St.
 YOUNG, DELMAR J.....Oakland
 2nd year—690 Poirier St., Oakland
 YOUNG, LELAND STANLEY.....Etna
 1st year—636A 4th Ave.
 YOUNG, ROBERT BOW.....San Francisco
 (1) 1st year—212 Cardenas St.
- ZAVLARI, PETER B.....So. San Francisco
 3rd year—200 Carmelo Lane,
 So. San Francisco
 ZELTZER, SOLOMON.....Los Angeles
 1st year—2962 Clay Ave.
 ZENOVICH, GEORGE NICHOLAS...Fresno
 1st year—2898 Jackson St.

SUMMARY—1947—1948

	First Semester	Second Semester
First year	242	202
Second year	224	219
Third year	107	104
Special students	7	6
Graduates	2	—
	<hr/>	<hr/>
Totals	582	531

UNIVERSITY OF CALIFORNIA

CALIFORNIA SCHOOL
OF FINE ARTS

SAN FRANCISCO

APRIL, 1949

UNIVERSITY OF CALIFORNIA

CALIFORNIA SCHOOL
OF FINE ARTS

San Francisco

APRIL, 1949

THE SAN FRANCISCO ART ASSOCIATION

*Maintains the California School of Fine Arts
The San Francisco Museum of Art
and Montalvo Foundation*



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The School is affiliated with the University of California

THE CALIFORNIA SCHOOL OF FINE ARTS

800 CHESTNUT STREET, SAN FRANCISCO

DOUGLAS MACAGY, *Director*

FACULTY

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BALDASSARE ARMATO, Instructor in Lettering.
WHITNEY ATCHLEY, Instructor in Ceramics.
FRANZ BERGMANN, Instructor in Jewelry Design.
RAY BERTRAND, Instructor in Lithography and Engraving.
ELMER BISCHOFF, Instructor in Basic Drawing, Painting Elements, Objective Drawing.
DORE BOTHWELL, Instructor in Textile Design, Color Control, Life Drawing.
MILTON CAVAGNARO, Instructor in Design Development, Artist and Client.
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CLAIRE FALKENSTEIN, Instructor in Sculpture and Construction.
PAUL Q. FORSTER, Instructor in Illustration.
WILLIAM A. GAW, Instructor in Painting.
LELAND GRALAPP, Instructor in Lithography and Engraving.
EDMOND GROSS, Instructor in Advertising Layout.
ROBERT B. HOWARD, Instructor in Associated Arts Workshop.
JEANNE KEWELL, Instructor of Children's Classes.
SQUIRE KNOWLES, Instructor in Objective Drawing.
WALTER LANDOR, Instructor in Package Design.
ARCH LAUTERER, Instructor in Stage Design and Set Construction.
DOUGLAS MACAGY, Instructor in Contemporary Art.
ERNEST MUNDT, Instructor in Design, Society, Artist; Design Workshop; Contemporary Art.
DAVID PARK, Instructor in Reality in Representation, Painting, Line Drawing.
ALLEN PEARE, Instructor in Advertising Art.
SIDNEY PETERSON, Instructor in Film Workshop.
FREDERICK W. QUANDT, JR., Instructor in Photography.
HAL RIEGGER, Instructor in Ceramics.
MAURICE SANDS, Instructor in Interior Design.
ZYGmund SAZEVICH, Instructor in Sculpture.
DON SHORT, Instructor in Portfolio Assembly.
ANTONIO SOTOMAYOR, Instructor in Life Sketch.

CLAY SPOHN, Instructor in Painting, Drawing and Composition, Objective Drawing.

JULIETTE STEELE, Instructor in Lithography and Engraving.

CLYFFORD STILL, Instructor in Painting, Life Drawing.

JEAN VARDA, Instructor in Figure Composition.

RUTH CRAVATH WAKEFIELD, Instructor of Children's Classes.

EDWARD WESTON, Visiting Instructor in Photography.

MINOR WHITE, Instructor in Photography.

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THE CALIFORNIA SCHOOL OF FINE ARTS

HISTORY AND SITUATION

THE CALIFORNIA SCHOOL OF FINE ARTS was founded in 1874 by the San Francisco Art Association; in 1893 it was affiliated with the University of California. For many years the School was known as the Mark Hopkins Institute of Art and occupied the historic site at the corner of California and Mason streets in San Francisco. This property was a gift of the late Edward F. Searles. In 1906 the original buildings were destroyed in the earthquake and fire and a temporary structure took their place. Here the School remained until July, 1923, when the San Francisco Art Association, with the approval of the Regents of the University of California, sold the property and with the proceeds bought the present site at Chestnut and Jones streets. The School moved to its Russian Hill site in 1926.

Well-equipped studios, laboratories, library, gallery, restaurant, and recreation rooms provide excellent facilities for the work of the School and for the various activities of the San Francisco Art Association.

ENROLLMENT AND INSTRUCTION

No preliminary qualifications are required for professional courses of study. Satisfactory work done in other institutions of high standing will be recognized in so far as it meets the requirements of this School. Elementary work will be given to beginners.

The instruction is individual, as well as by lectures and informal talks to the class, and students are given every opportunity to advance as rapidly as is consistent with sound training.

All courses in the School are planned for three years, or six semesters, with an optional fourth year of advanced studies. Students are trained to meet professional standards in the various branches of the so-called fine arts and those of design for commerce and industry. The courses develop from elementary considerations to specialization in a selected field.

Terms for units of credit. The School will evaluate work done by students in terms of units of credit according to the regulations issued by the State Board of Education.

A unit or semester-hour is one recitation or lecture hour a week of prepared work carried for a period of eighteen weeks. Prepared work presupposes an average of at least two full hours of study in preparation for each hour of lecture or recitation. A credit fee of two dollars is charged.

SCHOLARSHIPS AND FELLOWSHIPS

The educational services of the School to student and community are recognized generously by distinguished citizens who have established funds for scholarship purposes. Awards are made each year by the President and Board of Directors of the San Francisco Art Association. Application forms will be sent by the Registrar on request.

HONOR SCHOLARSHIPS. Students of outstanding ability may be selected for unconditional tuition awards.

WORKING SCHOLARSHIPS. Tuition may be granted to students who require such assistance, in return for minor services to the School.

HIGH SCHOOL SCHOLARSHIPS. Tuition awards offered through competition to all high school students of this State. High schools will be sent detailed information early in the spring.

Abraham Rosenbery Traveling Fellowship. The purpose of this fellowship is to recognize and assist persons who have demonstrated their ability in creative work of professional standing, and whose personal qualifications indicate their ability to make a real contribution to the fine arts. General terms require that the applicant shall have been enrolled at the California School of Fine Arts for at least two semesters. Applicants must apply for the scholarship in accordance with instructions contained in a form supplied by the San Francisco Art Association on written request.

James D. Phelan Scholarship Fund. Founded at the bequest of the late Senator Phelan for tuition at the School and for studies abroad.

Anne Bremer Memorial Fund. Founded by the late Albert M. Bender and other friends of the School in memory of Anne Bremer, California artist and member of the San Francisco Art Association.

Virgil Williams Scholarship. Founded by the late Dora Norton Williams as a memorial to her husband, Virgil Williams, a former Director of the School.

Adelaide Lewis Scholarship. Founded at the bequest of the late Adelaide Lewis.

PRIZES

I. N. Walter Sculpture Prize. From the income of a fund donated by the late Caroline Walter in memory of her husband, Isaac N. Walter, a cash prize is awarded annually for the best student work done in sculpture during the regular session.

The Robert Howe Fletcher Cup. For outstanding merit to an undergraduate student as an honorary award each year, the student's name is engraved upon the cup.

GENERAL INFORMATION

The Anne Bremer Memorial Library. This library, housed in one of the most attractive rooms of the School, has a splendid collection of books and reproductions covering all phases of art, ancient and modern, as well as current art journals and periodicals of America and Europe.

Owing to the generosity of the late Albert M. Bender, the library is one of exceptional value. It is open to students for reference and research study.

Gallery. A large exhibition gallery, which contains the celebrated mural painting of Diego Rivera, is used regularly for displays of general and student interest.

Activities. Students may be admitted free or at reduced rates to many activities of the San Francisco Art Association. A recreation hall is available to students outside class hours.

Store. For the convenience of students, the School operates a store where supplies may be bought.

CURRICULUM

Professional training courses are offered in three departments. Each course requires certain subjects and allows the student to select others. The choice of elective subjects increases as the student develops individual interests and skills. Complete courses cover six terms of eighteen weeks each—three school years. A description of each subject is given under Day Courses and Night Courses.

DEPARTMENT OF PAINTING, SCULPTURE, GRAPHIC ARTS

This department covers the field of pictorial and sculptural design, representation, and symbolism. Technical training in each medium is incorporated in classes which develop the artist's vision within a wide range of contemporary aesthetic considerations.

DEPARTMENT OF DESIGN FOR COMMERCE AND INDUSTRY

This department offers comprehensive and specialized training in advertising art, illustration, ceramics, textile design, packaging, and allied activities. It prepares the student for professional practice.

DEPARTMENT OF PHOTOGRAPHY

This department provides thorough training for the professional photographer. Exact technical procedures are incorporated in a program which leads students from elements of the art to production in the special branches.

DAY COURSES

There are ten periods per week in the day schedule. Classes meet from 9 a.m. to 12 noon and 1 to 4 p.m.

1. Reality in Representation.

DAVID PARK

Introduction to problems of pictorial representation. Selection, interpretation, and treatment of subject matter through drawing and painting in gouache. 3 credit units.

2. Drawing and Composition.

CLAY SPOHN, RICHARD DIEBENKORN

Exploration and analysis of the means of pictorial composition in terms of imaginative and objective drawing. 2 credit units.

3. Line Drawing.

DAVID PARK

Expressive use of line in wide range of subject matter. Rapid drawing to overcome technical timidity and to stimulate confidence in imaginative expression. 1 credit unit.

4. Sculpture (I).

ZYGmund SAZEVICH

Elementary considerations of form in relation to modeling and carving in various materials. 2 credit units.

5. Contemporary Art.

ERNEST MUNDT, DOUGLAS MACAGY

Leading art movements of the twentieth century studied in detail through practical work, illustrated lectures, and seminars. Correlates studies in other courses and places them in the cultural setting at this time. 3 credit units.

6. Space Organization.

EDWARD CORBETT

Practical and critical study of the parts line, shape, and color play in the organization of two- and three-dimensional space in pictorial design. 3 credit units.

7. Figure Composition (I).

RICHARD DIEBENKORN

Introduction to graphic interpretation of the posed human figure in terms of contemporary aesthetic ideas. 2 credit units.

8. Objective Drawing.

SQUIRE KNOWLES

Accurate rendering of objective appearance in terms of line, shape, space, texture, light, and shade. Types of graphic projection, including perspective. 3 credit units.

9. Design, Society, Artist.

ERNEST MUNDT

Dominant visual art forms, from town planning to painting, studied in cultural sequence with bearings on our own time. The social role of the artist considered in its alliance with patron and public. Includes interpretative design, model-making, illustrated talks, seminars, and informal presentation of significant plays. 5 credit units.

10. Figure Composition (II).

JEAN VARDA

Continuation of Figure Composition (I) with emphasis on aesthetic interpretation of the posed human figure in its spatial environment. 4 credit units.

11. Painting Elements.

ELMER BISCHOFF

Introduction to oil painting in terms of technique and aesthetic questions of objective and subjective treatment. Museum visits to analyze traditional techniques and attitudes. 2 credit units.

12. Lithography and Engraving.

RAY BERTRAND, JULIETTE STEELE, LELAND GRALAPP

Traditional and experimental techniques. Work on the stone, zinc, and copper plates, processing and pulling proofs on the press. Black and white and color. Lithography, etching, and engraving. 2 to 10 credit units.

13. Painting A.

WILLIAM A. GAW

Formal composition determined by techniques of oil and water color. Two- and three-dimensional color placement. Still life and figure. 3 to 10 credit units.

14. Painting A and B.

CLAY SPOHN, CLYFFORD STILL

Work in oil from imagination and observation. Investigation of technical mediums. Development of form under objective or subjective conditions. 3 to 10 credit units.

15. Sculpture (II).

ZYGMUND SAZEVICH

Advanced considerations of sculptural form. Carving and casting techniques. 3 to 8 credit units.

16. Design Development (I).

MILTON CAVAGNARO

Creative manipulation and control of space, color, line, shape, and texture as background to imaginative handling of layout, book design, packaging, etc. 3 credit units.

17. Design Workshop.

ERNEST MUNDT

Introduction to design in three dimensions. Space problems involved in architecture, sculpture, commercial products. Study of effects of manual and power tool processes on various materials. 2 credit units.

18. Color Control.

DORR BOTHWELL, ELMER BISCHOFF

Color composed in relation to space of two and three dimensions. Practice in mixing hues and values. Comparison of current color theories. 1 credit unit.

19. Lettering (I).

BALDASSARE ARMATO

Basic construction of individual letter forms. Elements of letter spacing. Preliminary consideration of lettering in relation to advertising art. 2 credit units.

20. Advertising Layout (I).

EDMOND GROSS

Primary considerations of design for newspaper, magazine, and direct mail advertising. Mediums for reproduction. Production methods. 3 credit units.

21. Lettering (II).

BALDASSARE ARMATO

Continuation of Lettering (I). Comparison of type faces and hand lettering in advertising art, book design, and packaging. Lettering for reproduction. 2 credit units.

22. Life Drawing.

DORR BOTHWELL, CLYFFORD STILL

Graphic representation of the human figure. Drawing from the posed model. 3 credit units.

23. Ceramics (I).

WHITNEY ATCHLEY, HAL RIEGGER

Pottery design and construction by various hand methods. Studies for mass production. 2 credit units.

24. Textile Design.

DORR BOTHWELL

Designs created in color to accord with professional production methods. Trains designers for the field of commercially printed textiles. 2 credit units.

25. Advertising Layout (II).

EDMOND GROSS

Continuation of Advertising Layout (I). Advanced treatment. 3 credit units.

26. Lettering (III).

BALDASSARE ARMATO

Continuation of Lettering (II). Considerations of hand lettering related to typography in layout. Production procedures. 2 credit units.

27. Illustration.

PAUL Q. FORSTER

Covers field from advertising and magazine work to fine book illustration. Analysis of illustrator's methods, mediums, and problems of reproduction. 2 credit units.

28. Ceramics (II).

WHITNEY ATCHLEY, HAL RIEGGER

Continuation of Ceramics (I). Further considerations of pottery construction, methods of mass production, ceramic bodies, glazes, and colors. 2 to 8 credit units.

29. Professional Practice A—Portfolio Assembly.

DON SHORT

Preparation of a representative set of designs, layouts, etc., for commercial reproduction as a sample portfolio for presentation to prospective clients, art directors, and advertising agencies. 1 credit unit.

30. Professional Practice B—Package Design.

WALTER LANDOR

Consumer goods container, package, and label design. Based on analysis of competitive products, study of consumer psychology, and relation of package design to distributive merchandising practices. 1 credit unit.

- 31. Professional Practice C—Artist and Client.** MILTON CAVAGNARO
Merchandising procedures which relate artist to client through advertising agencies or free lance. Analysis by leading art directors, as guest speakers, of market controls on advertising art. Thorough briefing in processes of printing, lithography, engraving, screen printing. Visits to plants for first-hand knowledge of mechanical processes. 1 credit unit.
- 32. Design Development (II).** MILTON CAVAGNARO
Intensive exercises in design, aimed at overcoming habits of visualization formed by merely current design fashions. Leads student to regard his field as a changing process with a future. 3 credit units.
- 33. Associated Arts Workshop.** ROBERT B. HOWARD
Design under working conditions. A wide range of mediums worked with manual and power tools in individual and collaborative projects. Relates architecture, sculpture, painting, ceramics, mosaic, etc. 3 to 5 credit units.
- 34. Photography (I).**
MINOR WHITE, FREDERICK W. QUANDT, JR., and guest instructors
Theory and practice of the photographic process. The "zone system" of visualization and tone identification. Formal and expressive approaches and treatments. The view camera in natural and artificial light. Laboratory, studio, and field practice. (Students are expected to make personal arrangements for transportation and accommodation for two overnight trips per term.) Two terms. 13 credit units per term.
- 35. Photography (II).**
MINOR WHITE, FREDERICK W. QUANDT, JR., and guest instructors
Continuation of project method started in Photography (I). Emphasis on photography of people and their activities. Portraiture. Use of the miniature camera. Introduction to characteristics of color transparencies. Two terms. 12 credit units per term.
- 36. Photography (III).** MINOR WHITE and guest instructors
Large-scale projects with publication or public display as ultimate aim. History of photography. Techniques of display. Seminars by guest instructors on variety of subjects. Experimental photography. Program for each student is outlined at the start of the session. Course available to students with two or more years of training, critical writing, or teaching photography or art. Two terms. Maximum 15 credit units per term.

NIGHT COURSES

Courses range from classes for beginners to refreshers for professionals. In certain cases it is possible to combine day with night classes to make up a full-time schedule. Classes meet from 7 to 10 p.m. on Monday, Wednesday, and Friday weekly through each term, unless otherwise noted.

A. Basic Drawing.

ELMER BISCHOFF

Introduction to problems of space division, the compositional use of black, white, greys, and textures. Delineation of form through various techniques in line and tone. 3 credit units.

B. Life Drawing.

RICHARD DIEBENKORN

Design characteristics of the posed human figure, its graphic representation. 2 credit units.

C. Life Sketch.

ANTONIO SOTOMAYOR

Features of the human figure in brief, active poses, graphically represented. 1 credit unit.

D. Painting.

WILLIAM A. GAW

Still life and figure arrangements. Techniques of oil and water color. Prerequisite: Drawing. 3 credit units.

E. Painting.

DAVID PARK

The human figure as a subject for design, expression. Work from the model and imagination. Prerequisite: Drawing. 3 credit units.

F. Advertising Art.

ALLEN PEARE

Current techniques in advertising art. Design, lettering, type specifications, color, illustration. Analysis of styling today and future prospects. 3 credit units.

G. Ceramics.

WHITNEY ATCHLEY

The shaping of pottery by wheel and mold. Kiln stacking, glaze making, and firing. 3 credit units.

H. Sculpture and Construction.

CLAIRE FALKENSTEIN

Contemporary considerations of sculptural form. Construction in wire, wood, plaster, clay, and plastics. Design in space of static and mobile forms. Develops individual expression and skill in modern studio techniques. 2 credit units.

I. Interior Design.

MAURICE SANDS

General preparation for the professional practice of interior decoration through discussion and experiment, and an evaluation of its relationship to allied professions. 2 credit units.

J. Film Workshop ("Workshop 20").

SIDNEY PETERSON

Basic problems of film production. Two parts: (1) preliminary survey of the field; (2) short film produced by students working in collaboration. Covers all necessary steps in production, from initial script to final sound print. 3 credit units.

K. Jewelry Design.

FRANZ BERGMANN

Creative design and execution of jewelry in silver. Includes repoussé, chasing, soldering, polishing, and simple stone settings. 2 credit units.

L. Stage Design and Set Construction.

ARCH LAUTERER

Principles of design, color, and lighting of the stage. Practical experience includes design and construction of sets for the San Francisco Municipal Theater ("Bay Theater") under supervision of the director of the show. 2 credit units.

CHILDREN'S CLASSES

Saturday morning classes, from 9 a.m. to 12 noon, are designed to heighten the child's ability to observe and to consider the ever-widening limits of his world in a creative spirit. Painting, drawing, and clay modeling are included in class activities.

37. For children from 6 through 10 years of age.

Conducted by JEANNE KEWELL

38. For children from 11 through 16 years of age.

Conducted by RUTH CRAVATH WAKEFIELD



UNIVERSITY OF CALIFORNIA

LOS ANGELES
MEDICAL DEPARTMENT

*A Postgraduate
Medical Training Center*

APRIL, 1949

LOS ANGELES, CALIFORNIA

UNIVERSITY OF CALIFORNIA

LOS ANGELES
MEDICAL DEPARTMENT

*A Postgraduate
Medical Training Center*

APRIL, 1949

LOS ANGELES MEDICAL DEPARTMENT*

A Postgraduate Medical Training Center

ROBERT GORDON SPROUL, B.S., LL.D., Litt.D., President of the University.

STAFFORD L. WARREN, M.D., Dean of the Medical School.

NORMAN B. NELSON, M.D., Dr.P.H., Assistant Dean of the Medical School;
in charge of the Los Angeles Medical Department.

THE LOS ANGELES MEDICAL DEPARTMENT of the University of California is an institution which offers clinical instruction to graduates of medicine. The undergraduate medical work of the University is carried on at Berkeley and at San Francisco.

The Los Angeles Medical Department traces its origin to the organization of a college of medicine by the University of Southern California in 1886. From that date until February, 1909, it remained a medical department of the University of Southern California; but in the latter year its property was transferred to the University of California.

In order not to duplicate the expense of undergraduate teaching in the University of California it was decided in 1914 to confine the work of the Los Angeles Medical Department to instruction for graduates of medicine. The aim of the work is to permit graduates to review past studies which will keep them in touch with recent advances in medicine.

The instruction offered is largely clinical. In these courses the practitioner attends the dispensary and hospital clinics, and, without any obligation on the part of the instructor to give special didactic instruction, follows the clinical work in the dispensary and hospital, and obtains therefrom such knowledge and experience as is possible.

The clinical work gives the student opportunity to work with patients in the dispensary, and at the bedside, so that he may acquire proper methods of technique, in the hope that the experience so gained will enable him to obtain a greater knowledge and capacity in his particular field.

Physicians who have received the M.D. degree and are licensed in some state of the Union, are eligible for admission to these courses, the work of the department being construed to be an expression of the general extension activities of the University.

The Graves Memorial Dispensary is situated in the buildings of the department on North Broadway, between Ord and Alpine streets, the property extending from North Broadway to Castelar Street. The address of the main building is 737 North Broadway. The telephone is MUtual 2436. The Graves Dispensary cares for about forty thousand patients yearly.

* Additional information may be obtained from Dr. Norman B. Nelson, 737 North Broadway, Los Angeles 12, California.



SUMMER SESSIONS

1948



First Session

Six Weeks: June 21 to July 31

Second Session

Six Weeks: August 2 to September 11

APRIL 1, 1948

BERKELEY • CALIFORNIA

UNIVERSITY OF CALIFORNIA
BULLETIN

University of California Bulletin

PUBLISHED AT BERKELEY, CALIFORNIA

Volume XLII

April 1, 1948

Number 19

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 August 24, 1912.

Issued semimonthly.



Some changes may be necessary in the courses and in the fees announced in this bulletin.

All who receive this bulletin are requested to offer it to others who may be interested in summer study. Copies will be mailed, upon request, by the Office of the Summer Sessions, 222 Administration Building, Berkeley 4, California, or by the Office of the Provost, 405 Hilgard Avenue, Los Angeles 24, California, or by the Acting Provost, Santa Barbara College, University of California, Santa Barbara, California

UNIVERSITY OF CALIFORNIA
BERKELEY

Summer Sessions · 1948

UNIVERSITY OF CALIFORNIA
BERKELEY

Summer Sessions

• 1948 •

First Session

June 21 to July 31

Second Session

August 2 to September 11

APRIL 1, 1948

Published by

UNIVERSITY OF CALIFORNIA PRESS, BERKELEY AND LOS ANGELES

THE UNIVERSITY OF CALIFORNIA



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MARION M. STEWART, Senior Administrative Assistant, Office of the Summer Sessions.

CALENDAR

1948

First Summer Session

- June 19.....Saturday—Registration.
June 21.....Monday—Registration; classes begin.
July 30.....Friday—Final examinations.
July 31.....Saturday—Last day of classes.

Second Summer Session

- July 31.....Saturday—Registration.
August 2.....Monday—Registration; classes begin.
September 10..Friday—Final examinations.
September 11..Saturday—Last day of classes.

MEMBERS OF THE FACULTY

- DONALD ADAMS, Ph.D., Professor of Psychology, Duke University.
- GEORGE P. ADAMS, Ph.D., Mills Professor of Mental and Moral Philosophy and Civil Polity.
- ORVILLE D. ADAMS, M.S., Assistant Superintendent, Board of Education, San Francisco.
- IRWIN O. ADDICOTT, Ed.D., Assistant Superintendent and Director of Instruction and Research, Fresno City Schools.
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- O. RICHARD AINSWORTH, M.A., Assistant in Mathematics in the Summer Sessions.
- FREDERICK J. ALADJEM, A.B., Assistant in German in the Summer Sessions.
- HENRY L. ALDER, Ph.D., Instructor in Mathematics.
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- RUDOLPH ALTROCCHI, Ph.D., Professor of Italian.
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- GLENN E. BARNETT, Ed.D., Assistant Professor of Education.
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- GEORGE F. PAPPENFUSS, Ph.D., Assistant Professor of Botany and Curator of Algal Collection.
- J. CECIL PARKER, Ed.D., Associate Professor of Education.
- HENRY PAROUTAUD, A.B., Assistant in French in the Summer Sessions.
- LUDMILA A. PATRICK, M.A., Lecturer in Russian.
- RICHARD E. PAULSON, A.B., Associate in Zoölogy.
- CHARLES A. PEASE, A.B., Associate Supervisor of Physical Education.
- ARNOLD PERSTEIN, Ph.M., Associate Professor of Speech.
- LAARS H. PETERSON, Ph.D., Associate Professor of Education.
- HENRI M. PEYRE, Docteur ès Lettres, Professor of French, Yale University.
- ELSA F. PICONE, M.A., Assistant in Italian in the Summer Sessions.
- DAVID PIETZ, B.S., Lecturer in Civil Engineering.
- FRANK A. PITELKA, Ph.D., Assistant Professor of Zoölogy and Assistant Curator of Birds, California Museum of Vertebrate Zoölogy.
- MILTON J. POLISSAR, Ph.D., Instructor in the City College of San Francisco.
- MILOS POLIVKA, M.S., Lecturer in Civil Engineering.
- THOMAS C. POLSON, Ph.D., Assistant Supervisor of the Teaching of Science.
- GEORGE R. POTTER, Ph.D., Professor of English.
- RICHARD E. POWELL, Ph.D., Assistant Professor of Chemistry.
- DANIEL J. PRATOLA, M.A., Assistant in Italian in the Summer Sessions.
- WILSON S. PRITCHETT, M.S., Lecturer in Electrical Engineering.
- FLORA GROSSI PROVENZANO, M.A., Assistant in French in the Summer Sessions.
- IRVING PUTTER, M.A., Lecturer in French.
- ROBERT R. PUTZ, A.B., Assistant in Mathematics in the Summer Sessions.
- NORMAN F. RAMSEY, Ph.D., Associate Professor of Physics, Harvard University.
- HENRY RAPOPORT, Ph.D., Instructor in Chemistry.
- CHARLES A. REED, Ph.D., Assistant Professor of Zoölogy, University of Arizona.
- JAMES GORDON RETALLACK, Ph.D., Instructor in Physics.
- LESTER E. REUKEMA, Ph.D., Professor of Electrical Engineering.
- DAVID A. REVZAN, Ph.D., Lecturer in Marketing.
- BERTHA C. REYNOLDS, A.B., B.S., formerly Associate Director, Smith College School of Social Work, and Visiting Lecturer in the School of Social Welfare at Washington University, and the University of Michigan.
- JOHN J. REYNOLDS, A.B., Assistant in Spanish in the Summer Sessions.

- PATRICIA RING, A.B., Assistant in German in the Summer Sessions.
CHARLES R. RINGO, M.S., LL.B., C.P.A., Lecturer in Business Administration.
ROYAL A. ROBERTS, M.B.A., Associate Professor of Business Administration.
BURTIS L. ROBERTSON, Ph.D., Professor of Electrical Engineering.
RUSSELL T. ROBINSON, B.S., Lecturer in Agricultural Economics (Davis).
MARIO RODRÍGUEZ, A.B., Assistant in Spanish in the Summer Sessions.
EDWARD S. ROGERS, A.B., M.D., M.P.H., Professor of Public Health and Medical Administration.
EARL R. ROLPH, Ph.D., Assistant Professor of Economics.
LAWRENCE A. ROMANI, M.A., Assistant in French in the Summer Sessions.
GEORGE L. ROSECRANS, A.B., Assistant State Supervisor of Apprentice Training, California State Department of Education.
WILLARD V. ROSENQUIST, M.A., Instructor in Decorative Art.
ALLAN J. ROSS, B.S., Assistant in Mathematics in the Summer Sessions.
ARTHUR M. ROSS, Ph.D., Lecturer in Business Administration.
CECILIA G. ROSS, M.A., Associate in Spanish.
ELEANOR RUMMELL, A.B., Assistant in Spanish in the Summer Sessions.
DAVID H. RUSSELL, Ph.D., Professor of Education.
ROBERT RUSSELL, A.B., Assistant in Mathematics in the Summer Sessions.
DAVID RYNIN, Ph.D., Assistant Professor of Speech.
ROBERT M. SAUNDERS, M.S., Lecturer in Electrical Engineering.
PAUL B. SCHAEFFER, Ph.D., Associate Professor of European History.
EDWARD H. SCHAFER, JR., Ph.D., Assistant Professor of Oriental Languages.
JAY SCHEINMAN, B.Eng., Lecturer in Engineering Design.
KARL E. SCHEVILL, M.A., Assistant in Spanish in the Summer Sessions.
WILLIAM K. SCHEMELZLE, M.B.A., Lecturer in Business Administration.
JACQUES SCHNIER, M.A., Assistant Professor of Sculptural Design.
ROGER J. SCHULTE, Ed.D., Head, Department of Attendance, Pupil Welfare and Work, Berkeley Public Schools.
HENRY C. SCHUMACHER, M.D., LL.D., Medical Director for the Western States, U. S. Public Health Service.
RALPH A. SEBAN, M.S., Lecturer in Mechanical Engineering.
ERNA SEEGER, A.B., Teacher, Albany Public Schools, California.
ABRAHAM SEIDENBERG, Ph.D., Assistant Professor of Mathematics.
MAX SELINGER, A.B., Assistant in German in the Summer Sessions.
OSCAR N. SERBEIN, JR., Lecturer in Statistics, Columbia University.
ROGER H. SESSIONS, A.B., Mus.B., Professor of Music.
MADELEINE M. SEVENANS, A.B., Director of Speech Activities, Beverly Hills Schools.
DOROTHY C. SHADI, Ph.D., Lecturer in Spanish.
LEROY R. SHAW, A.B., Assistant in German in the Summer Sessions.
ALEX C. SHERRIFFS, Ph.D., Assistant Professor of Psychology.
MILDRED SHRINER, B.S., Lecturer in Special Education.
C. WAYNE SHUMAKER, Ph.D., Assistant Professor of English.

- JANE W. SHURMER, M.A., Associate Professor and Head of the Department of Physical Education for Women, Chico State College.
- CORNELIUS H. SIEMENS, Ph.D., Director, Compton College, Compton.
- EDWARD SILVERMAN, M.A., Assistant in Mathematics in the Summer Sessions.
- LESLEY B. SIMPSON, Ph.D., Professor of Spanish and Chairman of the Department.
- WINFIELD W. SISSON, B.S., Lecturer in Engineering Design.
- ENGEL SLUITER, Ph.D., Associate Professor of History.
- HENRY R. W. SMITH, Ph.D., Professor of Latin and Classical Archaeology and Associate Curator of Classical Archaeology.
- MARIANNE FREUNDLICH SMITH, Ph.D., Lecturer in Mathematics.
- MAURICE M. SMITH, Ph.D., Lecturer in Education.
- OTTO J. M. SMITH, Ph.D., Lecturer in Electrical Engineering.
- RALPH I. SMITH, Ph.D., Assistant Professor of Zoölogy.
- W. VIRGIL SMITH, A.B., LL.B., M.A., Assistant Superintendent in charge of Instruction and Curriculum Research, Seattle Public Schools, Seattle.
- HERSCHEL R. SNODGRASS, M.S., Associate in Physics.
- NATHAN W. SNYDER, M.S., Assistant Professor of Mechanical Engineering.
- HAROLD SPEARS, Ed.D., Curriculum Coördinator, San Francisco Public Schools.
- LESLIE SPIER, Ph.D., Professor of Anthropology, University of New Mexico.
- CHARLES C. STAEBLING, M.S., C.P.A., Associate Professor of Accounting.
- KENNETH M. STAMPP, Ph.D., Assistant Professor of History.
- ROGER Y. STANIER, Ph.D., Assistant Professor of Bacteriology.
- THOMAS D. STANTON, JR., M.A., Associate in Chemistry.
- CHARLES W. STEELE, M.A., Assistant in Spanish in the Summer Sessions.
- WILLIAM R. STEINHOFF, M.A., Associate in Subject A.
- CURT STERN, Ph.D., Professor of Zoölogy.
- ROBERT S. STEWART, Ph.D., Assistant Professor of Education, San Francisco State College.
- THOMAS D. STEWART, Ph.D., Professor of Chemistry.
- WILLIAM W. STILES, B.S., M.D., M.P.H., Associate Professor of Public Health.
- RICHARD G. STONEHAM, M.S., Assistant in Mathematics in the Summer Sessions.
- O. PAUL STRAUBINGER, Ph.D., Instructor in German, in charge of lower division courses the First Summer Session.
- EDWARD W. STRONG, Ph.D., Professor of Philosophy.
- GLEB STRUVE, A.B., Professor of Russian.
- KENNETH F. SULLIVAN, M.S., Associate in Accounting.
- MARY BENSON SUMMERFIELD, M.A., Associate in Physics.
- SIDNEY S. SUTHERLAND, M.S., Assistant Professor of Education, and Supervisor of Teacher Training in Agriculture (Davis).
- ALAN SWALLOW, Ph.D., Assistant Professor of English, University of Denver.
- WARD E. TABLER, A.B., Lecturer in Speech.

- GEORGE K. TAJIMA, A.B., Assistant in Electrical Engineering.
PAUL S. TAYLOR, Ph.D., Professor of Economics.
GEORGE F. TEALE, B.S., Lecturer in Electrical Engineering.
JACOBUS TEN BROEK, J.S.D., Associate Professor of Speech.
EDWIN L. THEISS, Ph.D., C.P.A., Professor of Business Administration, University of Illinois.
LAWRENCE G. THOMAS, Ph.D., Associate Professor of Education, Stanford University.
FRANKLIN W. THOMPSON, M.S., Lecturer in Engineering Design.
FREDERICK BURTIS THOMPSON, M.A., Assistant in Mathematics in the Summer Sessions.
ERICH G. THOMSEN, Ph.D., Assistant Professor of Mechanical Engineering.
ELNORA E. THOMSON, R.N., Lecturer in Public Health Nursing.
LOUIS P. THORPE, Ph.D., Professor of Education, the University of Southern California.
PATRICK A. TORK, M.S., Associate Professor of Physical Education, the University of West Virginia.
GEORGE E. TROXELL, B.S., Professor of Civil Engineering.
ROBERT C. TRYON, Ph.D., Professor of Psychology and Chairman of the Department.
READ D. TUDDENHAM, Ph.D., Assistant Professor of Psychology.
FRANCIS J. TURNER, Sc.D., Associate Professor of Geology.
JOE TUSSMAN, M.A., Instructor in Speech.
SETH POWERS ULMAN, M.A., Lecturer in Dramatic Art in the Summer Sessions.
VIRGINIA T. L. URBANI, A.B., Assistant in French in the Summer Sessions.
BERNARD A. VALLERGA, B.S., Lecturer in Civil Engineering.
LAWRENCE L. VANCE, Ph.D., C.P.A., Associate Professor of Accounting.
JOHN J. VAN NOSTRAND, Ph.D., LL.D., Professor of Ancient History.
CATHARINA WILHELMINA ELIZABETH VAN SEVENTER, M.A., Assistant in French in the Summer Sessions.
JEAN VERHOOGEN, Ph.D., Associate Professor of Geology.
THEODORE VERMEULEN, Ph.D., Associate Professor of Chemical Engineering.
SHERNA S. VINOGRAD, Ph.D., Lecturer in English.
CARL J. VOGT, M.S., Professor of Mechanical Engineering and Chairman of the Division.
WAYNE S. VUCINICH, Ph.D., Assistant Professor of History, Stanford University.
ABRAHAM WALD, Ph.D., Professor of Mathematical Statistics, Columbia University.
DWIGHT WALDO, Ph.D., Assistant Professor of Political Science.
BILLIE WALLACE, A.B., Assistant in French in the Summer Sessions.
LOTTIE WALLENSTEIN, A.B., Assistant in French in the Summer Sessions.
RONALD WALPOLE, Ph.D., Assistant Professor of French.
MARJORIE WALSH, M.A., Lecturer in Speech.

- NORMAN S. WANER, M.S., Instructor in Engineering Design.
- WILLIAM W. WATSON, Ph.D., Professor of Physics and Chairman of the Department, Yale University.
- OLIVER D. WASHBURN, M.A., Teacher, Berkeley High School.
- EDWIN JACK WEBBER, M.A., Assistant in Spanish in the Summer Sessions.
- FRANCES M. WEESNER, A.B., Lecturer in Microscopic Technique.
- HANS WELTIN, Ph.D., Assistant Professor of Physics (Santa Barbara).
- PAUL F. WENDT, Ph.D., Assistant Professor of Finance.
- EDWARD J. WEST, Ph.D., Associate Professor of English, University of Colorado.
- E. HORTENCE WHITE, M.A., Assistant in Spanish in the Summer Sessions.
- TERENCE WILBUR, Assistant in German in the Summer Sessions.
- CHARLES R. WILKE, Ph.D., Assistant Professor of Chemical Engineering.
- RALPH A. WILLOUGHBY, A.B., Assistant in Mathematics in the Summer Sessions.
- H. LAWRENCE WILSEY, M.A., Instructor in Economics, Cornell University.
- GARFF B. WILSON, Ph.D., Assistant Professor of Speech.
- ORLANDO W. WILSON, A.B., Professor of Political Science.
- EDWIN E. WITTE, Ph.D., Professor of Business Administration, University of Wisconsin.
- HANS M. WOLFF, J.D., Ph.D., Associate Professor of German.
- LESLIE WONG, M.B.A., Associate in Accounting.
- SHERWIN F. WOOD, Ph.D., Lecturer in Zoölogy in the Summer Sessions.
- RICHARD J. WOODWARD, JR., B.S., Lecturer in Civil Engineering.
- WILLIAM G. WOOLWORTH, M.A., Curriculum Coördinator, Albany Public Schools, Principal of the Demonstration Elementary School.
- ROBERT WULIGER, A.B., Lecturer in English.
- OSCAR ZARISKI, M.A. (honoris causa), Professor of Mathematics, Harvard University.
- BRUNO H. ZIMM, Ph.D., Assistant Professor of Chemistry.
- GEORGE W. ZINKE, Ph.D., Associate Professor of Economics, University of Colorado.

THE UNIVERSITY OF CALIFORNIA

THE UNIVERSITY OF CALIFORNIA was founded in 1868 and is, by the terms of its charter, an integral part of the educational system of the State. It provides, for all qualified students, a college education without distinction of sex, creed, or race, and its instruction covers all the broad and essential fields of human knowledge, including the arts, the sciences, and literature. It also provides fundamental training for many of the professions.

Since its founding, the University has grown steadily in size, in influence, and in opportunity. Today it carries on its activities on eight campuses—at Berkeley, Los Angeles, San Francisco, Davis, Mount Hamilton, La Jolla, Riverside, and Santa Barbara. In addition to its centers of resident instruction, the University of California maintains a state-wide extension service.

SUMMER SESSIONS, 1948

There will be two Summer Sessions of six weeks each at the University of California on the Berkeley campus during 1948. The first session will be held from June 21 to July 31; the second session from August 2 to September 11.

Summer Sessions will be held on the Los Angeles campus and at Santa Barbara College during the same period.

Purpose of the Sessions—

The purpose of the Summer Sessions is to provide essential training for all types of students; to equip undergraduate and graduate students, teachers, school executives, nurses, homemakers, social workers, and other professional groups for improved service; and to assist returning service men and women to resume their educational programs. The University endeavors through its Summer Sessions to make available programs of study based upon its full resources.

Veterans Affairs—

An Office of Veterans Affairs, in charge of a Coördinator of Veterans Affairs, has been established by the University to work out with returning service men and women the many irregularities in their educational programs resulting from war service, to maintain liaison in their behalf with the United States Veterans Administration, and to assist them in becoming assimilated in the life and spirit of the University. This office is situated on the campus in Building F, Dana Street near Allston Way (opposite the Gymnasium for Men).

In addition, the United States Veterans Administration maintains an office, in charge of a Training Officer, to assist returning service men and women who are applying for federal educational benefits. This office is located in Building E, Dana Street near Allston Way.

Information regarding educational benefits available from the State of California may be obtained from the California Department of Veterans Affairs, Sacramento 7, California.

Veterans who have used previously any benefits under the provisions of Public Law 346 (G. I. Bill) or Public Law 16 (Rehabilitation), and who expect to transfer to any campus of the University, should apply to their local U. S. Veterans Administration Office for a Supplemental Certificate of Eligibility and, if necessary, for transfer of file, in sufficient time to receive the Supplemental Certificate of Eligibility prior to their departure from that region. Failure to present this certificate at the time of registration will necessitate payment for tuition, fees, and books as required of nonveterans.

Veterans Counseling Centers are located on or in the vicinity of each campus. Services of these centers are available to all veterans without cost. The centers offer vocational counseling which may include aptitude testing and use of the center's library of occupational materials, as well as extensive interviewing. The Counseling Center for the Berkeley Campus is located in Building C, on Allston Way.

Applications for Admission—

Persons who wish to attend either session are urgently requested to notify the University, using the form of application at the end of this bulletin. Applications for the First Summer Session should be received on or before Wednesday, June 2; for the Second Summer Session, on or before Wednesday, July 14. Persons who do not file their applications by these dates may encounter some delay in registration.

New students who plan to offer work taken in the Summer Sessions toward an undergraduate degree at the University of California should file their credentials (for Application Fee, see page 24, for Vaccination Certificates, see next paragraph) covering high school and collegiate work, with the University Admissions Director.* This should be done at least five weeks before the opening of each session in order that applicants may be properly advised regarding their status. Candidates for higher degrees or certificates should follow the instructions on page 26.

Vaccination—

Students planning to attend the Summer Sessions, 1948, must file with their applications for admission a certificate testifying to successful vaccination against smallpox within the last seven years. This form is furnished by the Office of the Summer Sessions and must be signed by a licensed physician. Students in attendance at the University of California, Berkeley, throughout the

* If a student has shortages for admission to the fall and spring semesters, he may not offer work taken in the Second Summer Session toward the satisfaction of requirements for entrance into the immediately succeeding fall semester.

spring semester, 1948, or veterans of World War II who present evidence of service in the armed forces of the United States are not required to furnish this certificate.

Student Health Service—

The Student Health Service is available to students registered in the Summer Sessions, in cases of acute illness, in accordance with the provisions in the GENERAL CATALOGUE.

Admission Requirements—

Attendants of the Summer Sessions are divided into two broad classifications:

Auditors. Any adult is permitted to attend the regular exercises of either Summer Session as an auditor, upon filing an application, paying the regular tuition fee of \$42, and filing a study list. An auditor does not participate in recitations, does not take examinations, and therefore does not receive credit. In general, an auditor will not be admitted to seminars, to the laboratory sections of any courses, nor to activity courses in physical education.

Students. (1) Persons under twenty-one years of age. Admission will be granted to persons who are under twenty-one years of age provided they are graduates of high schools or other secondary schools. Admission to the Summer Sessions does not carry with it a guarantee of admission to the regular sessions of the University. For further information concerning admission requirements, and regulations concerning unit credit, please address the Office of Admissions, University of California, Berkeley 4, California.

(2) Persons more than twenty-one years of age. The University does not attempt, in general, to make inquiry concerning the educational qualifications of applicants for admission to the Summer Sessions who are more than twenty-one years of age. The University assumes that the applicant either is a high school graduate or has maturity and special fitness for the type of work he intends to undertake. The instructor of any Summer Session course may require of those persons entering his course a preliminary test, formal or informal, of knowledge which he believes essential to the work proposed.

Registration Dates—

The office of the Registrar will be open for the registration of First Summer Session students, Saturday, June 19, from 8:30 A.M. to 1 P.M., and Monday, June 21, from 8:30 A.M. to 3 P.M.; for Second Summer Session students, Saturday, July 31, 8:30 A.M. to 1 P.M., and Monday, August 2, 8:30 A.M. to 3 P.M. Prospective attendants should note the importance of making application for admission in advance of these dates in order to avoid delay in registration. (See page 22.)

Students who find it impossible to register for either session on the first Saturday or Monday, may register as late as the second Monday. Students who register late, however, may enroll in the courses desired only when, in the opinion of the instructor, they can satisfactorily make up the work already done by the class.

Fees—

The tuition fee for each session, irrespective of the number of courses taken, is \$42 for both residents and nonresidents of California. Fees must be paid at time of registration, *not in advance*. Additional fees are charged in certain courses in anatomy, art, bacteriology, biochemistry, botany, chemistry, decorative art, economics, education, engineering, optometry, physical education, physics, physiology, Subject A, and zoölogy. Each of these fees is stated in the description of the course.

Persons who wish to attend courses or occasional lectures without examination or formal credit may obtain an admission card for this purpose upon payment of the regular fee, \$42, or may purchase from the Cashier in the Administration Building fifty-cent tickets for single lectures.

The tuition fee of \$42 must be paid at the time of registration. Refunds for withdrawals are made *only* when the admission card and fee receipt are returned, and when the reasons for withdrawal are satisfactory. If the admission card and the fee receipt are returned during the first week of the session, a refund of 60 per cent of the tuition or laboratory fees will be granted; during the second week, a refund of 20 per cent; after the second week, no refund will be made. Any student who is obliged to request a refund must do so *at the time of withdrawal*, and must, *at that time*, return admission card and fee receipt to the Registrar.

Application Fee. No application fee is necessary to enter the Summer Sessions. However, application for admission to any *regular* session of the University of California, must be accompanied by a remittance of \$5,* payable to The Regents of the University of California.

Admission to Courses; Classification and Numbering of Courses—

All courses in the Summer Sessions which are identical, or nearly so, with courses given during the fall and spring semesters at Berkeley, are distinguished by the letter "S" prefixed to the regular number of the course.

Courses are classified and numbered as follows:

I. UNDERGRADUATE COURSES

(1) *Lower Division Courses* (numbered 1–49, or sometimes indicated by letters if in subjects usually given in a high school). A lower division course is a course open to freshmen or to sophomores and does not count as upper division work in any department.

* Veterans who expect to enroll under the provisions of Public Law 346 (the G. I. Bill of Rights), or Public Law 16, are not required to remit this fee.

(2) *Upper Division Courses* (numbered 100-199). An upper division course in any department is one open only to students who have completed one or more lower division courses in that department, or is an elementary course in a subject of such difficulty as to require the maturity of upper division students. Students will not be permitted to register in upper division courses unless they have completed the courses named as prerequisites, or, if no courses are definitely named as prerequisites, until they have attained junior standing in the University. Accepted professional training, however, will be regarded as sufficient preparation for upper division courses in the field in which the student has been trained. The prerequisites for courses should be noted carefully.

II. **GRADUATE COURSES** (numbered 200-299). As a condition for enrollment in a graduate course the student must submit to the instructor in charge of the course satisfactory evidence of preparation for the work proposed; adequate preparation consists normally of the completion of at least 12 units of upper division work, basic to the subject of the graduate course, irrespective of the department in which such basic work may have been completed.

The admission of undergraduates to graduate courses is limited to seniors who have an average grade of at least B in the basic courses; the study-list limits in such cases are the limits imposed by the rules of the Graduate Division.

A student who includes in his program a graduate course (one of the courses numbered from 200-299) is not permitted to register for more than four units.* In general, auditors will not be admitted to graduate courses. Further directions concerning graduate study may be had from the Dean of the Graduate Division.

III. **TEACHERS COURSES** (numbered 300-399). *Professional Teacher-Training Courses* in the Department of Education and courses in other departments that are especially intended for teachers or prospective teachers.

IV. **CERTAIN PROFESSIONAL COURSES** (numbered 400-499) in departments other than education.

Credit—

In general, credit will be given at the rate of one unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two units. Credit may be given, in due proportion, for a smaller number of exercises, when these are of more than the usual length (which for lectures and recitations is about fifty minutes). A recitation or lecture presupposes about two hours of study outside the classroom; laboratory or other exercises which do not require outside preparation are estimated at a lower rate than recitations and lectures.

The maximum amount of credit obtainable during either of the Summer Sessions by a student who devotes his entire time to courses strictly of university level is from four to six units, according to the kind of work selected; a

* For graduate students, exceptions to this rule may be made only by permission of the Dean of the Graduate Division.

student who includes in his program a graduate course is not permitted to register for more than four units of credit.* In the Summer Sessions additional credit for one-half unit of physical education may be received. Students who are registered for credit may audit such courses as they choose with the exception of laboratory or activity courses. A bachelor's degree represents 120 or more units of credit, distributed according to the special requirements of the college or department in which the student is enrolled.

Two Summer Sessions are accepted as the equivalent of one half-year of residence for the bachelor's degree, but the amount of unit-credit that may be completed during two Summer Sessions will not exceed three-fourths of the amount that could be completed by an undergraduate student in a single regular session.

Students from other institutions should find out from their own registrars if courses taken in the Summer Sessions of the University of California, Berkeley, will fulfill specific requirements at the institutions in which they are registered.

Acceptance of a particular course toward any university degree is subject to the approval of the authorities of the college or school in which the degree is offered. For the requirements of the colleges and schools at Berkeley and Los Angeles, see the respective GENERAL CATALOGUES.

Graduate Students—

No student is assumed to be in graduate standing at this institution until his credentials have been evaluated and approved. For purposes of adjustment of status, all prospective candidates for higher degrees or for certificates, and all other persons who wish to establish graduate status, should file a formal *Application for Admission* to the Graduate Division together with credentials, at the office of the Dean of the Graduate Division at least four weeks before the opening of the Summer Sessions. The *Application* must be accompanied by a money order or bank draft for \$5,† made out to The Regents of the University of California, in payment of the *Application Fee*. The *Application* blank may be obtained by addressing the Dean of the Graduate Division. Each student must file, in addition, the *Application for Admission to the First or Second Summer Session*, to be found in the last pages of this catalogue. *Persons who do not contemplate work toward a higher degree or certificate at this institution may register in the Summer Sessions unclassified and may enroll in any courses for which they have met prerequisites. Such persons need not file credentials nor formal Application for Admission to graduate standing; but they must file the Summer Session Application. Transcripts of student's records and all other official credentials are retained permanently in the files of the Office of*

* For graduate students, exceptions to this rule may be made only by permission of the Dean of the Graduate Division.

† Veterans who expect to enroll under the provisions of Public Law 346 (the G. I. Bill of Rights), or Public Law 16, are not required to remit this fee.

the Dean of the Graduate Division. In addition to having the records sent to this office, the student must have in his possession an official record for his own use and for departmental use here.

Summer Session Work Toward Higher Degrees—

For regulations governing requirements for higher degrees and for other information on graduate study, the student should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

Students who plan to offer courses of the Summer Sessions in partial fulfillment of the requirements for the master's degree should be careful to select only courses especially designated as acceptable for this purpose. Not all the upper division courses announced for the Summer Sessions may be offered in satisfaction of the requirements for the master's degree.

Following is the complete list of courses for the Summer Sessions of 1948 which will be accepted in partial fulfillment of the minimum requirement of 20-24 units of advanced work for the master's degree.

COURSES ACCEPTED TOWARD THE MASTER'S DEGREE

FIRST SUMMER SESSION COURSES*

(June 21 to July 31, 1948)

Accepted as Upper Division Courses:

- Agriculture—All courses.
Anatomy 100.
Anthropology—All courses.
Architecture S114.
Art S106, S112, S199.
Biochemistry S110.
Botany S108, S111.
Business Administration—
All "100" courses.
Chemistry S110B, S111, S143, S180H,
S199.
Decorative Art S127.
Dramatic Art 136, S407 (for teacher
training curricula only).
Economics—All "100" courses.
Education S101, S106, S110, S111,
112, S114, S116, S117, S118, S119,
121, S125, 127, S130, S131, 133,
S134, 136, S138, S141, S142, S145,
S148, S153, S160, S164, S167, S170,
and the following courses offered at
Davis: S160, S161, S198.
Engineering—
CE S108A, S108B, S108C, S108F.
EE S100A, S101, S104A, S105,
S110A, S111A, S116A, S126,
S132A, S133.
ME S102B, S105A, S105B, S106,
S106A, S113, S120.
English S106L (for teacher-training
curricula only), S110, S114B, S116,
S122, S125E, S130B, S155, S156,
S157, S199.
French S101A, S109A, S114, S130A,
S199.
Geography S123B.
German 121, S199.
History—All "100" courses.
Home Economics 129, S163, 169,
S199.
Italian S101A, 151A.
Journalism S140, S190.
Mathematics 108 (for teacher-train-
ing curricula only), S110A, S199.
Music 105D, S108, 112, 117D, 150.
Oriental Languages 152.
Philosophy S114, S117, S136C.
Physical Education S110, S140, S199.
Physiology S199 (for teacher-train-
ing curricula only).
Political Science S114, S135, S138,
S152, S181.
Psychology S104, S107, 119, S126,
S141, S145A, S146, S148A, S162,
S168, S185, S199.
Public Health S121, S145, S170, S199.
Scandinavian Languages and Litera-
ture 104, 107.
Slavic Languages S102A, S103A,
S130, S199.
Sociology and Social Institutions
121c, 133, S148.
Spanish and Portuguese—
All "100" courses.
Speech S107A, S111B.
Zoölogy S100, S103C, S112, S123,
S199.

* Subject to approval by the Department of Education, these courses may be offered in partial satisfaction of the minimum requirement of 24 units for the Certificate of Completion of the teacher-training curricula.

Accepted as Graduate Courses:

- | | |
|---|--|
| Agriculture—All "200" courses. | Geography S219A. |
| Anthropology S244. | German 216, S250. |
| Art S298. | History—All "200" courses. |
| Biochemistry S201 if taken by a senior, S280, S299. | Home Economics S214, S238. |
| Business Administration—
All "200" courses. | Mathematics—All "200" courses. |
| Chemistry S250, S290, S299. | Music S203, S211. |
| Economics—All "200" courses. | Physical Education S260A, S260B, S290. |
| Education S200, S210B, S216A, S217, 225, S227, S231, S232A, S233B, 237 S240A, S244, S248A, S249A, S260A, S270A, S272B, S273, S276, S279, 280, S284, S298. | Physics S221A, S290. |
| English S201, S218, S220A, S245, S256, S260. | Physiology S201A. |
| French S220A, S298. | Psychology S213, S214Q. |
| | Public Health S299. |
| | Slavic Languages S298. |
| | Social Welfare S211, S253A, S253B, S258A, S259, S266A, S298. |
| | Spanish and Portuguese—
All "200" courses. |
| | Zoölogy 212, S224. |

SECOND SUMMER SESSION COURSES*

(August 2 to September 11, 1948)

Accepted as Upper Division Courses:

- | | |
|--|--|
| Agriculture—All "199" courses. | Economics—All "100" courses. |
| Anatomy S102. | Education S106, S107, S110, S111, 112, S113, S114, S116, S119, 128, S130, S138, S142, S145, S170, and the following course offered at Davis: S199. |
| Anthropology—All courses. | Engineering— |
| Art S114, S151, S169, S199. | CE S102A, S107A, S108A, S108B, S108E, S108F. |
| Bacteriology S101. | EE S100B, S104B, S110B, S132A, S133, S135, S197. |
| Business Administration—
All "100" courses. | ME S102B, S103, S105B, S106A, S113, S143. |
| Chemistry S105, S109, S115, S145A, S145B, S180H, S199. | |
| Classics S178 (for teacher-training curricula only). | |
| Decorative Art S160A, S160B, S195B. | |

* Subject to approval by the Department of Education, these courses may be offered in partial satisfaction of the minimum requirement of 24 units for the Certificate of Completion of the teacher-training curricula.

English S106G, S110, S114A, 114c, Physics S124.
 S117B, S121, S123, S125D, S130c, Physiology 113, S199 (for teacher-
 training curricula only).
 French S101B, S109B, S113, S130B, Political Science 102, 125, 126, S127,
 S133A, 167, S168A, S180.
 Geography S125B. Psychology—All courses.
 German 119, S199. Public Health S199.
 History—All "100" courses. Slavic Languages S102B, S103B, S138,
 S199.
 Italian S101B. Sociology and Social Institutions 122.
 Journalism S141, 162. Spanish and Portuguese—
 Mathematics S110B, S113, S199. All "100" courses.
 Music S199. Speech S107A, S111A.
 Oriental Languages S112. Zoölogy S106, S115, S199.
 Philosophy S104, S135.
 Physical Education S199.

Accepted as Graduate Courses :

Agriculture—All "200" courses.	English 236, S251.
Agricultural Economics S119 offered at Davis.	French S298.
Agronomy S199 offered at Davis.	German S255.
Anthropology S244.	History—All "200" courses.
Art S298.	Italian 200A.
Biochemistry S280, S299.	Mathematics 203.
Botany S201.	Music S298.
Business Administration—	Physical Education S290.
All "200" courses.	Physics S219, S290.
Chemistry S244, S250, S280, S290, S299.	Physiology S201B.
Economics—All "200" courses.	Psychology S213, S214T.
Education S210A, S235, S240B, S248B, S298, and the following course of- fered at Davis, S260.	Public Health S299.
	Spanish and Portuguese— All "200" courses.
	Zoölogy S224.

With reference to the distribution of work among upper division and graduate courses, the student should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION. Before undertaking work toward a higher degree the student should ascertain from the graduate adviser in the department concerned, whether or not he should first complete preparatory fundamental courses.

College of Letters and Science—

Requirements for the degree of Bachelor of Arts in the College of Letters and Science are listed in the GENERAL CATALOGUE.

Regulations Concerning Letters and Science Courses—

At least 108 units for the A.B. degree must be in courses chosen from the Letters and Science List of Courses, and the 36 units in upper division courses required in the upper division must be selected from the same list with the exceptions noted in the GENERAL CATALOGUE, DEPARTMENTS AT BERKELEY.

The following courses offered in the Summer Sessions, 1948, are on the Letters and Science List, the designation "all courses" meaning all courses numbered below 200.

FIRST SUMMER SESSION COURSES

- | | |
|---|---|
| Anatomy—All courses. | German—All courses. |
| Anthropology—All courses. | History—All courses. |
| Architecture S14, S114. | Home Economics 129, S199. |
| Art—All courses. | Italian—All courses. |
| Astronomy—All courses. | Journalism—All courses. |
| Bacteriology—All courses. | Mathematics—All courses. |
| Biochemistry—All courses. | Music—All courses. |
| Botany—All courses. | Oriental Languages—All courses. |
| Business Administration S6A, S6B,
S107, S151. | Philosophy—All courses. |
| Chemistry—All courses except S143. | Physics—All courses. |
| Classics—All courses. | Physiology—All courses. |
| Decorative Art—All courses. | Political Science—All courses. |
| Dramatic Art—All courses except
S20. | Psychology—All courses except S104,
S185. |
| Economics—All courses. | Public Health S5A. |
| Education S110 and not more than
3 units from 101, 102, 105. | Scandinavian Languages and Litera-
ture—All courses. |
| English—All courses. | Slavic Languages—All courses. |
| French—All courses. | Sociology and Social Institutions—
All courses. |
| Geography—All courses. | Spanish and Portuguese—All courses. |
| Geology—All courses. | Speech—All courses. |
| | Zoölogy—All courses. |

SECOND SUMMER SESSION COURSES

- | | |
|--|---|
| Anatomy—All courses. | Classics—All courses. |
| Anthropology—All courses. | Decorative Art—All courses. |
| Art—All courses. | Economics—All courses. |
| Biochemistry—All courses. | Education S110 and not more than
3 units from 101, 102, 105. |
| Botany—All courses. | English—All courses. |
| Business Administration S6A, S6B,
S107, S151. | French—All courses. |
| Chemistry—All courses except S145A,
S145B. | Geography—All courses. |
| | Geology—All courses. |

German—All courses.	Political Science—All courses except 167, 168A.
History—All courses.	Psychology—All courses except S3, S185.
Italian—All courses.	Public Health S5B.
Journalism—All courses.	Slavic Languages—All courses.
Mathematics—All courses.	Sociology and Social Institutions—All courses.
Music—All courses.	Spanish and Portuguese—All courses.
Oriental Languages—All courses.	Speech—All courses.
Paleontology—All courses.	Zoölogy—All courses.
Philosophy—All courses.	
Physics—All courses.	
Physiology—All courses.	

For further information, consult the **GENERAL CATALOGUE, DEPARTMENTS AT BERKELEY.**

Colleges of Applied Sciences—

For information concerning curricula in these colleges, reference should be made to the following bulletins: for the College of Chemistry—**GENERAL CATALOGUE**; the College of Agriculture—the **PROSPECTUS OF THE COLLEGE OF AGRICULTURE**; the College of Engineering—the **ANNOUNCEMENT OF THE COLLEGE OF ENGINEERING**, or the **GENERAL CATALOGUE**; the College of Pharmacy—the **ANNOUNCEMENT OF THE COLLEGE OF PHARMACY**, or the **GENERAL CATALOGUE**. Copies of these publications may be obtained from the Registrar.

Professional Curricula—

The University offers professional curricula leading to appropriate degrees and certificates in architecture, business administration, dentistry, education, hospital dietetics, jurisprudence, librarianship, medicine, nursing, optometry, pharmacy, public health, and social welfare. The curricula in architecture, hospital dietetics, and public health are described in the **GENERAL CATALOGUE**; the other curricula are described in separate bulletins which will be mailed without charge upon request. Copies of all publications may be obtained from the Registrar.

School of Education—

The School of Education offers professional curricula to students preparing for teaching in elementary and secondary schools, and for experienced teachers desiring preparation for educational administration, research, or other specialized phases of public school education. In addition, qualified students may combine certain of the curricula with programs leading to (1) the degree of Master of Arts in education, (2) the degree of Master of Education with the field of specialization in Agricultural Education, (3) the degree of Master of Education offered jointly with the California State Colleges, (4) the degree of Doctor of Philosophy in education, and (5) the degree of Doctor of Education.

Graduates of other universities and colleges should follow the instructions given on page 26 concerning the evaluation of transcripts by the Dean of the Graduate Division. For further information consult the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, or address the Dean of the School of Education, Room 207, Haviland Hall, University of California, Berkeley 4, California.

Other Requirements Concerning Credit—

A student who applies for credit in any course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the *close of the session*. Furthermore, he will be required to hand in all his work by that time, in order that the instructor may make his report. Students are not authorized to continue any part of the work beyond the close of the session. No provision is made for reëxamination or supplementary work for the removal of deficiencies.

Subject A—

For students in the Summer Sessions who wish to enroll in courses in English composition and who have not fulfilled the Subject A requirement (Elementary Composition), a special examination will be given on Saturday, June 19, at 2 P.M. and Saturday, July 31, at 2 P.M. The Subject A examination is designed to test the students' ability to write English without gross errors in spelling, grammar, diction, sentence structure, and punctuation.

Scholarship Grades—

The final result of the work of students in every course, graduate and undergraduate, will be reported to the Registrar in the same grades* used in the regular sessions.

Transcripts of record for Summer Session work, whether for courses of matriculation or university level, will be issued by the Registrar, upon application, to any student in the session; and personal recommendations from instructors may be obtained by school officers and others through the Office of Teacher Placement.

Approval of Study Lists—

Students regularly enrolled at this institution pursuing programs in the Colleges of Chemistry, Engineering, Letters and Science, Pharmacy, or in the Schools of Business Administration, Education, Jurisprudence, Librarianship,

* Grades: A, excellent; B, good; C, fair; D, barely passing; E and F, not passed. Concerning grades E and F, it should be noted that in the Summer Sessions no reëxaminations or special examinations are provided for the removal of conditions.

Grade points or quality units will be assigned as follows: grade A, three points for each unit; B, two points for each unit; C, one point for each unit; D, E, and F, no points. For students graduating in certain curricula there are required grade points equal in number to the number of units of work undertaken. For further information, see GENERAL CATALOGUE.

Nursing, Optometry, Public Health, Social Welfare, must have their study lists approved by the Dean of the College or School concerned, or by his representative.

Graduate students who wish to offer Summer Sessions work toward requirements for a higher degree or certificate must have the signature of the Graduate Adviser in the major department as signifying approval.

Other Summer Sessions students, not previously matriculated in this institution, are not required to have study lists approved.

Changes in Study Programs—

Changes in study programs after the study lists have been filed may be made only by a written petition filed with the Registrar not later than Tuesday, July 13, 4:30 P.M., for the first session, and Tuesday, August 24, 4:30 P.M., for the second session.

Final Examinations—

By a general University rule, final examinations must be held in all courses except as otherwise authorized. Usually the final examination takes the place of the last recitation or other scheduled period for each course. Special examinations to suit the convenience of individual students will not be given.

When a course requires a final examination, there can be no individual exemption from it. A student who fails to pass the examination does not receive credit for the course. *Special examinations and reexaminations in summer courses are not permitted.*

Office of Teacher Placement—

Students of the Summer Sessions, as well as former graduates and students of the University of California, are entitled to the services of the Office of Teacher Placement at 102 Administration Building. Teachers who are candidates for positions in California should, if possible, send for and fill out registration blanks prior to the opening of the sessions, in order that confidential information regarding their scholarship and teaching experience may be obtained in advance and their recommendations prepared for distribution. Though there is no fee for placement services, registrants pay a \$5 fee which is used to cover the cost of copying their letters of recommendation. This fee also entitles registrants to the services of the Office of Teacher Placement on the Los Angeles and Santa Barbara campuses. The office is open for the service of school officials from 9 A.M. to 12 M. and from 1 P.M. to 5 P.M., daily, except Saturday, when it closes at noon. The office will give more effective aid to superintendents and principals if it is notified in advance of the specific requirements of positions and the hour at which appointments are desired.

**INSTITUTES CONDUCTED BY
UNIVERSITY EXTENSION**

Second Conference on Home-School Relationships—June 15—June 19.

This institute will be presented in coöperation with the California Congress of Parents and Teachers, the State Department of Education, and the School of Education. Fee, \$10.

Institute in Emergency Elementary Teacher Training—June 21—August 20.

The fourth annual Emergency Elementary Teacher Training Institute to recruit and train teachers urgently needed to meet the shortage in California elementary schools will be held under the auspices of the School of Education and Division of Education Extension. Fee, \$50. 8 units credit. (X100; X300)

Institute on School Health—June 21—July 9.

This institute is offered in coöperation with the California Joint Committee of School Health, representing the State Departments of Education and Public Health, the Schools of Education and Public Health, and the Departments of Physical Education and Nursing. Fee, \$15. 3 units credit. (XB 151)

Institute on Youth and Marriage Today—June 23—July 23.

This institute consists of a series of lectures dealing with marriage education. Fee for persons enrolled in the University of California Summer Sessions, \$3; for the general public, \$5.

Workshop on Junior College (Homemaking) Curriculum—July 19—August 6.

This workshop will be given by the School of Education and Division of Education Extension in coöperation with the State Department of Education, Commission for Vocational Education, and Bureau of Homemaking Education. Fee, \$3. 3 units credit. (X334)

Orientation and English Language Institute for Foreign Students—August 2—September 11.

The second Orientation and English Language Institute for Foreign Students, sponsored by the Department of Speech and the Committee on Foreign Students, is designed for men and women students from other countries who come to the United States to study at a college or university, or who have been brought to this country under the auspices of a government program. The institute offers its students an opportunity to improve their knowledge of English and to become familiar with the life, customs, and culture of the United States, as well as with the procedures and methods of work and study in North American colleges. To be eligible for admission, a student must have had some previous training in English and have been admitted to a college or university in the United States. Fee, \$85. 4 units credit. (XB 25)

INSTITUTES CONDUCTED BY UNIVERSITY EXTENSION

Institute on Field Problems and Studies in Nursing—July 12–July 30.

This institute will be presented by the Department of Nursing in cooperation with the State Department of Public Health. Fee, \$21. 3 units credit. (X410)

Driver Education for High School Teachers—August (date to be announced).

This Institute will be offered to meet the demand of teachers for training in driver instruction. Fee to be announced.

Motor Vehicle Fleet Supervisors Training Course—August 23–August 27.

The fifth annual Motor Vehicle Fleet Supervisors' Training Course will be presented by the Division of Engineering Extension in cooperation with the Institute of Public Safety of Pennsylvania State College. Fee to be announced.

For further information on these institutes, please consult the Department of Institutes, University Extension, University of California, Berkeley 4.

Other institutes of interest to students in the Summer Sessions will be announced later.

Accommodations and Expenses—

Living accommodations will be available during the Summer Sessions, for single men and women, in residence halls operated by the University, and in approved boarding houses. A card file listing accommodations in private homes is available to all students. For all information regarding housing, please write to Housing Office, Building "Q," University of California, Berkeley 4, California.

The following table will enable the student to estimate the expense, apart from transportation to and from Berkeley, of attending the Summer Sessions. The amounts stated are for one Summer Session of six weeks only.

University tuition fee.....	\$42.00–\$42.00
Laboratory fees (according to courses taken).....	2.50– 31.00
Textbooks and stationery.....	5.00– 15.00
Laundry	5.00– 12.00

The Associated Students' Store in Stephens Memorial Student Union Building carries all textbooks for courses offered in the Summer Sessions, as well as stationery and other supplies.

International House—

Conveniently situated on the campus, International House offers to students comfortable living accommodations and pleasant social rooms.

International House is established to promote greater understanding among students brought together from many countries. Residents have the privilege of participating in a social and cultural program.

The cost of residence in International House is comparable to that of other living accommodations in the community. Residence is on a combined room and board basis.

Further information will be sent upon request by the Office of Residence and Membership, International House, Berkeley 4, California. Application should be made as early as possible.

Y.M.C.A.—

The University Young Men's Christian Association seeks to supplement the offerings of the University by providing opportunities for the development and application of social, ethical, and religious ideals. It is open without fee to all men of the University irrespective of race or creed. In addition to its group activities, it provides personal counseling and services. Reading and recreation rooms are available for use in its building at 2227 Union Street. Opportunities to meet and talk with members of the University faculty on an informal basis are found at the "Y."

Y.W.C.A.—

The building of the Young Women's Christian Association of the University of California, situated on the corner of Allston Way and Union Street, a block west of Sather Gate, will be open during the Summer Sessions for the use of all women students. The building provides reading and rest rooms, a sunny patio and a foyer.

Recreational Activities—

Hearst Gymnasium for Women and the Gymnasium for Men provide every modern facility for sports and recreation. There are five outdoor swimming pools for recreational swimming, eighteen tennis courts, eight handball courts, and several fields for outdoor sports and activities.

During the period of the Summer Sessions there will be a number of tournaments—tennis, badminton, squash, ping pong, and a swimming meet. These tournaments are open to both men and women students.

Students in the Summer Sessions are especially urged to take an active part in the events planned for their entertainment.

Libraries—

During the Summer Sessions the General Library of the University will be open from 8 A.M. to 10 P.M., Monday to Thursday inclusive, 8 A.M. to 5 P.M.,

Friday and Saturday, and from 1 P.M. to 10 P.M., Sunday. Lange Library of Education in Haviland Hall will be open the same hours as the General Library except that it will be open on Sunday, 1 P.M. to 5 P.M.

The University Library, the greater part of which is housed in the building made possible by the bequest of the late Charles Franklin Doe, now contains more than 1,423,000 volumes. It is constantly augmented by donations and exchanges and by large purchases of books with the income from the Michael Reese, Jane K. Sather, E. A. Denicke, Alumnus, Meyer, Carpentier, and other funds. Books are especially bought each year for the particular courses offered during the Summer Sessions. All students in the Summer Sessions may enjoy full privileges of the Library, including the drawing of books, upon presentation of registration certificates. The Bancroft Library contains books and manuscripts relating to Latin-American and Western American history. Several of the departments of instruction have collections of books, useful for ready reference and classroom work.

Site, Climate, and Transportation—

The Berkeley campus of the University of California is situated on the eastern shore of San Francisco Bay, directly opposite the Golden Gate. The University grounds comprise five hundred and thirty acres, rising in gentle slopes to the Berkeley hills. From almost every part of the campus—and the city of Berkeley—there is a magnificent outlook over the bay and the city of San Francisco, the neighboring plains and mountains, the Pacific Ocean, and the Golden Gate.

Berkeley has a climate well suited to university work. The summers are cool with an average temperature for the months of June, July, August, and September of about 65 degrees. Temperatures as high as 85 degrees are of infrequent occurrence and brief duration.

From the business center of Oakland, it is about a twenty-five minutes' ride by electric car or bus to the University; about thirty minutes' from San Francisco by train. Motorists from San Francisco may come by way of the San Francisco-Oakland Bay Bridge.

Research Institutes and Bureaus—

Designed to facilitate the cultivation of knowledge in special fields and to emphasize the need of public service, various research institutes and bureaus have been established within the University, among them the Bureau of Public Administration, the Institute of Child Welfare, and the Bureau of International Relations.

The Bureau of International Relations in 207 South Hall was established by the University in 1921. It provides facilities for upper division and graduate students and interested members of the faculty to pursue research in the field of international law and relations. Among other primary sources, it contains a complete set of official documents of the League of Nations, including

its Treaty Series, the Publications of the Permanent Court of International Justice, and the documentation of the United Nations. In addition to the documentary collection, the Bureau has many important secondary works dealing with current international problems, a number of outstanding American and foreign periodicals, and certain American and English newspapers regarded as most useful in the field.

Further information may be obtained from Mr. F. M. Russell, 202 South Hall.

The Bureau of Public Administration and Library of Economic Research, situated in the University Library Building, contain an extensive collection of pamphlets and other materials which supplement the main library collection on governmental problems. Since 1940, special attention has been given to the building up of a very comprehensive collection dealing with war and postwar problems. These facilities are available to properly qualified students and are particularly helpful to those who plan to engage in governmental work. The library and research staff of the Bureau of Public Administration carry on informational and research programs on public problems, in the service of governmental agencies and civic organizations.

The Institute of Child Welfare is pursuing investigations of wide significance in the field of education through its study of child development by expert research workers. To a limited number of University students it gives opportunity for directed observation of children as a background to the understanding of human growth and educational problems. The facilities include a nursery school, and library and research facilities for students qualified to make use of assembled materials in the field of adolescent development.

Students interested in acquiring a knowledge of the forces and influences affecting present-day world politics or in preparing for careers in international relations and the Foreign Service are afforded opportunities for study through the facilities of the Department of Political Science and its Bureau of International Relations.

Museums and Laboratories—

For students pursuing research and graduate study, laboratories and laboratory equipment are available. All the scientific departments are adequately equipped with museums and laboratories in the Life Sciences Building.

The Museum of Anthropology, founded by Mrs. Phoebe A. Hearst, and on the Berkeley campus since 1931, contains 150,000 specimens illustrating the history and development of culture from the earliest times.

The Museum of Paleontology, situated in the Hearst Memorial Mining Building, was organized in the year 1921, and is supported largely by funds donated by Miss Annie M. Alexander. The Museum maintains the largest fossil collections on the Pacific Coast, and makes use of these in teaching and research. The Matthew Library of Paleontology is housed in the Hearst Memorial

Mining Building, and is open to students. A public exhibition gallery is on the second floor of this building. Anyone interested in using the research facilities of the Museum may address the Director.

The Museum of Vertebrate Zoölogy, situated in the Life Sciences Building, was founded and endowed by Miss Annie M. Alexander as a repository for specimens and information relative to the higher vertebrate animals of the Pacific Coast region of North America. The particular groups of animals with which it is concerned are the mammals, birds, reptiles, and amphibians; of these, it has a large and continually growing collection, as indicated (on March 24, 1947) by a total of 252,279 catalogue entries. The specimens, with the accompanying field notes, photographs, and maps, provide the bases for studies along systematic, faunistic, ecologic, and economic lines. Persons interested in employing the facilities of the Museum may address the Director.

Summer Schools for Children—

Children's Recreation School—

The Department of Physical Education conducts the Children's Recreation School during the Second Summer Session. An opportunity is afforded boys and girls from seven to thirteen years of age to participate in a recreational program under the guidance of competent instructors. For details concerning this school, please refer to page 133.

The Demonstration Elementary School—

During the First Summer Session, the University will maintain an elementary school to demonstrate certain aspects of a modern elementary school program in practice and to offer opportunities for the growth and development of boys and girls. Regular observation in the school is scheduled through courses in education in the First Summer Session. Teachers, principals, supervisors, and superintendents may also use the school as a laboratory in working out their own professional problems. These observations will form the basis of conferences and discussion for students in different classes. Other persons on the campus will be able to visit the school by arrangement. For further details see page 79.

The Demonstration Secondary School—

Technical High School in Oakland will be open during the summer for eight weeks, June 21 to August 13. High school students will be accepted from any school district, but it is advisable to arrange with the home school before entrance if credit for graduation from high school is desired. Semester credit for not more than four subjects may be obtained. In addition to the usual academic subjects, courses in arts and crafts, manual arts, household arts, and in vocal and instrumental music will be offered. The school will be open from 7:50 A.M. to 2:30 P.M., five days a week. For further details see page 79.

The school will be used in connection with classes in education for purposes of teacher training and demonstration.

COURSES OF INSTRUCTION

SUMMER SESSIONS, 1948

AGRICULTURE

FREDERICK L. GRIFFIN, M.S., Associate Professor of Agricultural Education (Davis).

BEN A. MADSON, B.S.A., Professor of Agronomy (Davis).

RUSSELL T. ROBINSON, B.S., Lecturer in Agricultural Economics (Davis).

SIDNEY S. SUTHERLAND, M.S., Assistant Professor of Education, and Supervisor of Teacher Training in Agriculture (Davis).

A qualified student may pursue, at Berkeley or Davis, during the period of the Summer Sessions, June 21 to July 31, and August 2 to September 11, the courses for advanced undergraduates numbered 199 and the graduate courses numbered in the 200 series, and at Riverside, the graduate courses numbered in the 200 series, as announced in the PROSPECTUS OF THE COLLEGE OF AGRICULTURE. Since the above courses are for advanced and graduate students only, arrangements must be made in advance of registration if possible, with the instructor concerned.

In addition the following courses will be offered at Davis:

(June 21 to July 31, 1948)

Education S160. **Introduction to Vocational Education.** Mr. SUTHERLAND
2 units.

Education S161. **Problems in Vocational Education.** Mr. SUTHERLAND
2 units.

Education S198. **Directed Group Study in Agricultural Education.**
2 units. Mr. SUTHERLAND

(July 19 to August 27, 1948)*

Education S199. **Special Study for Advanced Undergraduates.**
1-5 units. Mr. SUTHERLAND

Education S260. **Vocational Education Seminar.**
2 units. Mr. GRIFFIN, Mr. SUTHERLAND

Agricultural Economics S119. **Farm Management.** Mr. ROBINSON
3 units.

Agronomy S199. **Special Study for Advanced Undergraduates.**
2-3 units. The STAFF, Mr. MADSON in charge

* Persons who wish to take one or more courses during this period should consult Mr. S. S. Sutherland several weeks in advance of the opening of the course.

ANATOMY

C. WILLET ASLING, M.D., Assistant Professor of Anatomy

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

100. Elementary Human Anatomy.

Mr. ———

A brief presentation of some of the main facts and principles of developmental, structural, and functional human anatomy. Designed for students who wish to acquire a practical knowledge of some of the interesting facts pertaining to this subject. Fee, \$5. 3 units.

M Tu W Th F, lecturers, 8; demonstrations and conferences, 9.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S102. General Human Anatomy.

Mr. ASLING

Demonstration and laboratory study of prepared human dissections, models, and microscopic slides. Not open to freshmen or to premedical or pre dental students.

Lectures and laboratory. Prerequisite: Zoölogy 1A or Physiology 1A, 1C. Fee, \$6. 3 units.

Lectures, M Tu W Th F, 8; laboratory, M W F, 9-12.

ANTHROPOLOGY

- CORA DU BOIS, Ph.D.**, formerly Anthropologist, Sarah Lawrence College.
ROBERT F. HEIZER, Ph.D., Assistant Professor of Anthropology and Assistant Curator of American Archaeology.
THEODORE D. MCCOWN, Ph.D., Associate Professor of Anthropology and Associate Curator of Physical Anthropology.
LESLIE SPIER, Ph.D., Professor of Anthropology, University of New Mexico.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S115. The Peoples of Southeast Asia.** Miss Du Bois
 2 units.
 M Tu W Th F, 9.
- S118. Some Problems in the Field of Personality and Culture.** Miss Du Bois
 2 units.
 M Tu W Th F, 11.
- 197. Summer Field Course in Archaeology.** Mr. Heizer
 Introduction to the technique of archaeological research. Limited to 8 students. Prerequisite: Anthropology 195 or consent of the instructor. Fee, \$25. 4 units.
- S244. Research.** The Staff (Mr. McCown in charge)
 2-4 units.
 Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S105. The American Indians.** Mr. Spier
 Prehistory of the Western Hemisphere; development, spread, and attainments of culture. 2 units.
 M Tu W Th F, 9.
- 175. The Culture Area Concept.** Mr. Spier
 Analysis of a particular culture area with emphasis on the processes of cultural development. 2 units.
 M Tu W Th F, 11.
- S244. Research.** The Staff (Mr. McCown in charge)
 2-4 units.
 Hours to be arranged.

ARCHITECTURE

JACQUES SCHNIER, M.A., Assistant Professor of Sculptural Design.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S14. Elements of Sculpture.

Mr. SCHNIER

Basic sculpture forms and the principles of composition in three dimensions and low-relief. 2 units.

M Tu W Th F, 8-10.

S114. The Human Figure in Sculpture.

Mr. SCHNIER

Compositions in three-dimensions and low-relief using the human figure as basic motif. Fee, \$3.50. 2 units.

M Tu W Th F, 10-12.

ART

ELMER N. BISCHOFF, M.A., Instructor, California School of Fine Arts.

OTTO BRENDEL, Ph.D., Professor of Art, Indiana University.

HOWARD COOK, Artist, New Mexico.

JAMES A. MCCRAY, M.A., Assistant Professor of Art.

ARTHUR KEITH MONAGHAN, M.A., Assistant Professor of Art, State College of Washington.

EUGEN NEUHAUS, Ph.D., (hon.c.), Professor of Art.

CHIURA OBATA, Assistant Professor of Art.

All upper division practice courses may be repeated indefinitely without duplication of credit.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- | | |
|--|----------------------|
| S1B. History of Medieval Renaissance, and Modern Art.
Emphasis on painting. 2 units.
M Tu W Th F, 9. | Mr. MCCRAY |
| S2A. Form and Space in Black and White.
2 units.
M Tu W Th F, 1-3. | Mr. BISCHOFF |
| S2B. Form and Space in Black and White.
Prerequisite: Art 2A. 2 units.
M Tu W Th F, 1-3. | Mr. BISCHOFF |
| S3A. Form and Color.
Prerequisite: Art 2B. 2 units.
M Tu W Th F, 3-5. | Mr. BISCHOFF |
| S3B. Form and Color.
Prerequisite: Art 3A. 2 units.
M Tu W Th F, 3-5. | Mr. BISCHOFF |
| S12. Freehand Basic Brushwork in Sumi Painting.
2 units.
M Tu W Th F, 10-12. | Mr. OBATA |
| S106. Advanced Drawing and Painting.
2 units.
M Tu W Th F, 10-12. | Mr. MCCRAY |
| S112. Advanced Drawing and Painting.
2 units.
M Tu W Th F, 8-10. | Mr. OBATA |
| S199. Special Study for Advanced Undergraduates. Mr. MCCRAY in charge
1-3 units.
Hours to be arranged. | |
| S298. Special Study for Graduate Students.
2-4 units.
Hours to be arranged. | Mr. MCCRAY in charge |

SECOND SUMMER SESSION COURSES
(August 2 to September 11, 1948)

- S1A. Art of the Ancient Mediterranean World to the Close of the Roman Empire.** Mr. BRENDEL
 2 units.
 M Tu W Th F, 9.
- S2A. Form and Space in Black and White.** Mr. MONAGHAN
 2 units.
 M Tu W Th F, 1-3.
- S2B. Form and Space in Black and White.** Mr. MONAGHAN
 2 units.
 M Tu W Th F, 1-3.
- S3A. Form and Color.** Mr. MONAGHAN
 Prerequisite: Art 2B. 2 units.
 M Tu W Th F, 3-5.
- S3B. Form and Color.** Mr. MONAGHAN
 Prerequisite: Art 3A. 2 units.
 M Tu W Th F, 3-5.
- S14. Elementary Drawing and Painting.** Mr. COOK
 2 units.
 M Tu W Th F, 10-12.
- S114. Advanced Drawing and Painting.** Mr. COOK
 Fee, \$5. 2 units.
 M Tu W Th F, 8-10.
- S151. The Art of Ancient Egypt and Mesopotamia.** Mr. BRENDEL
 2 units.
 M Tu W Th F, 11.
- S169. History of American Art.** Mr. NEUHAUS
 Prerequisite: Upper division standing. 2 units.
 M Tu W Th F, 2.
- S199. Special Study for Advanced Undergraduates.** Mr. NEUHAUS
 1-3 units.
 Hours to be arranged.
- S298. Special Study for Graduate Students.** Mr. NEUHAUS
 2-4 units.
 Hours to be arranged.

ASTRONOMY

WILLIAM F. MEYER, Ph.D., Professor of Astronomy.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

S1A. Introduction to Astronomy.

Mr. MEYER

General facts and principles of the science of astronomy. 2 units.

M Tu W Th F, 8.

BACTERIOLOGY

SANFORD S. ELBERG, Ph.D., Associate Professor of Bacteriology.

ROGER Y. STANIER, Ph.D., Assistant Professor of Bacteriology.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

S2. General Bacteriology.

Mr. STANIER

Lectures and laboratory. Prerequisite: Chemistry 1A. Designed especially for students who are not majoring in bacteriology. Fee, \$14.50. 4 units.

M Tu W Th F, laboratory, section 1, 9-12; section 2, 2:30-5:30; lectures, 1-2:30.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S101. Advanced Bacteriology.

Mr. ELBERG

Lectures, demonstrations and laboratory. Prerequisite: Bacteriology 1 or 2. Fee, \$34.50. 6 units.

M Tu W Th F, lecture, 9-10:30; laboratory, 10:30-12 and 2-5.

BIOCHEMISTRY

FRANK W. ALLEN, Ph.D., Associate Professor of Biochemistry.

JESSE PHILIP GREENSTEIN, Ph.D., Chief Biochemist and Chairman of the Biochemistry Section, National Cancer Institute.

DAVID M. GREENBERG, Ph.D., Professor of Biochemistry and Chairman of the Division.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S110. Quantitative Medical Biochemistry. Mr. ALLEN and Assistants
Lectures and laboratory work appertaining to blood analysis, respiratory gas analysis, and other methods that are used in clinical laboratories and that illustrate normal and abnormal life processes. Prerequisite: Biochemistry 101M, or 103 and 104, with grade C or higher. Fee, \$14. 5 units.
M Tu W Th F, lectures, 9; laboratory, 10-12, and 2-5.

S201. Selected Topics in Biochemistry—The Biochemistry of Cancer.

Mr. GREENSTEIN

Open to senior students with honor standing by the consent of the instructor. 2 units.

M Tu W Th F, 1.

S280. Research in Biochemistry. The STAFF (Mr. GREENBERG in charge)
2-4 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

The STAFF (Mr. GREENBERG in charge)

Reading and conference for properly qualified graduate students under the direction of a member of the staff. 1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S280. Research in Biochemistry. The STAFF (Mr. GREENBERG in charge)
2-4 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

The STAFF (Mr. GREENBERG in charge)

Reading and conference for properly qualified graduate students under the direction of a member of the staff. 1-3 units.

Hours to be arranged.

BOTANY

JOHN F. DAVIDSON, Ph.D., Instructor in Botany.

CHARLES J. ENGARD, Ph.D., Associate Professor of Botany, University of Hawaii.

LEONARD MACHLIS, Ph.D., Assistant Professor of Plant Physiology.

GEORGE E. PAPPENFUSS, Ph.D., Assistant Professor of Botany and Curator of Algal Collections.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. General Botany.

Mr. ENGARD

A survey of fundamental biological facts and principles as illustrated by plants. Fee, \$4.50. 5 units.

M Tu W Th F, lectures, 1-2:30; laboratory, 2:30-5:30.

S108. Taxonomy of Flowering Plants.

Mr. DAVIDSON

A survey of the seed plants with lectures on phylogeny and classification; laboratory work in identification practice. Prerequisite: Botany 1. Fee, \$6. 4 units.

M Tu W Th F, lectures, 1; laboratory, 2-5.

S111. Elementary Plant Physiology.

Mr. MACHLIS

The fundamental activities of plants, such as absorption, transpiration, synthesis of foods, respiration, growth, movement, and reproduction. Prerequisite: Botany 1, Chemistry 1A and 8. Fee, \$11.50. 4 units.

M Tu W Th F, lectures, 8; laboratory, 9-12.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S12. Introduction to Structure and Function of Plants. **Mr. PAPPENFUSS**

Not open for credit to students who have had Botany 1. Fee, \$2.50. 4 units.

Lectures, M Tu W Th F, 1-2:30; laboratory, Section 1, Tu Th, 2:30-5; Section 2, W F, 2:30-5.

BUSINESS ADMINISTRATION

- CHARLES A. ANDERSON, Ph.D., Assistant Professor of Business Administration, Harvard University.
- PHILIP B. BERGFELD, J.D., Assistant Professor of Commercial Law.
- JOHN G. BLOCKER, Ph.D., Professor of Accounting, University of Kansas.
- JULIAN H. BRADSHAW, M.A., Associate in Business Administration.
- ALBERT B. CARSON, Ph.D., C.P.A., Assistant Professor of Business Administration (Los Angeles).
- ALFRED S. CLEVELAND, Ph.D., Lecturer in Business Administration.
- FRANKLIN H. COOK, M.A., LL.B., Associate Professor of Economics, Pennsylvania State College.
- DONALD A. CORBIN, M.A., Associate in Accounting.
- ROBERT L. DIXON, Ph.D., Professor of Accounting, School of Business Administration, University of Michigan.
- JOHN T. DUNLOP, Ph.D., Associate Professor of Economics, Harvard University.
- EWALD T. GREYER, Ph.D., Professor of Economics on the Flood Foundation, Chairman of the Department of Business Administration, and Dean of the School of Business Administration.
- EDWARD R. HAWKINS, Ph.D., Dean, School of Business, Johns Hopkins University.
- VAN DUSEN KENNEDY, Ph.D., Assistant Professor of Industrial Relations.
- CHARLES W. LAMDEN, M.A., Associate in Accounting.
- PAUL W. MCGANN, A.B., Lecturer in Business Administration.
- PERRY MASON, Ph.D., C.P.A., Professor of Accounting and Associate Dean of the School of Business Administration.
- MAURICE MOONITZ, Ph.D., C.P.A., Associate Professor of Accounting.
- DAVID A. REVZAN, Ph.D., Lecturer in Marketing.
- CHARLES R. RINGO, M.S., LL.B., C.P.A., Lecturer in Business Administration.
- ROYAL A. ROBERTS, M.B.A., Associate Professor of Business Administration.
- ARTHUR M. ROSS, Ph.D., Lecturer in Business Administration.
- WILLIAM K. SCHMELZLE, M.B.A., Lecturer in Business Administration.
- OSCAR N. SERBEIN, JR., M.S., Lecturer in Statistics, Columbia University.
- CHARLES C. STAEBLING, M.S., C.P.A., Associate Professor of Accounting.
- KENNETH F. SULLIVAN, M.S., Associate in Accounting.
- EDWIN L. THEISS, Ph.D., C.P.A., Professor of Business Administration, University of Illinois.
- LAWRENCE L. VANCE, Ph.D., C.P.A., Associate Professor of Accounting.
- PAUL F. WENDT, Ph.D., Assistant Professor of Finance.
- H. LAURENCE WILSEY, M.A., Instructor in Economics, Cornell University.
- EDWIN E. WITTE, Ph.D., Professor of Business Administration, University of Wisconsin.
- LESLIE WONG, M.B.A., Associate in Accounting.

FIRST SUMMER SESSION COURSES
(June 21 to July 31, 1948)

S6A. Principles of Accounting.

Mr. LAMDEN

Prerequisite: at least sophomore standing. It is recommended that students who plan to enter the School of Business Administration complete this course in their sophomore year. 3 units.

M Tu W Th F, 8. Laboratory sections to be arranged.

S6B. Principles of Accounting.

Mr. SULLIVAN

Prerequisite: at least sophomore standing and Business Administration 6A. It is recommended that students who plan to enter the School of Business Administration complete this course in their sophomore year. 3 units.

M Tu W Th F, 11. Laboratory sections to be arranged.

S18. Commercial Law.

Mr. BERGFELD

Historical development of the law and its functions with respect to social and economic relationships; courts and court procedure; contracts, including sales and negotiable instruments; legal obligations; fundamentals of property. Prerequisite: at least sophomore standing. Prescribed for students in the School of Business Administration. 2 units.

M Tu W Th F, 11.

S107. Economics of Enterprise.

Mr. MCGANN, Mr. CLEVELAND

Economic theory as applied to the problems of the enterprise; a study of demand, production, costs, prices, wages and employment, interest, profits, taxation, risks, and business stabilization. Not open to students taking Economics 100A. Primarily for juniors. 2 units.

M Tu W Th F: section 1, 8; section 2, 9.

S108. Business Fluctuations and Forecasting.

Mr. MCGANN, Mr. ROSS

Not open to students who have taken Economics 103. Prerequisite: Business Administration 107. General analysis of the factors responsible for economic instability and of the problems thereby created for the business firm. 2 units.

M Tu W Th F: section 1, 10; section 2, 8.

S118. Advanced Commercial Law.

Mr. BERGFELD

Administrative and constitutional law; business organization, including partnerships, corporations, and agency; creditors' rights; financing sales transactions (problems in connection with conditional sales contracts, trade acceptances, letters of credit, etc.). Prerequisite: Business Administration 18. 2 units.

M Tu W Th F, 9.

S120. Industrial Organization and Management.

Mr. SCHMELZLE

The role of private enterprise; organization for ownership, control, and management; rationalization, regulation, and business planning. 2 units.

M Tu W Th F, 10.

S121. Management Problems and Policies.

Mr. CLEVELAND

Prerequisite: senior standing and Business Administration 107, 120, and 123. Recommended: Business Administration 134 and 151. 2 units.

M Tu W Th F, 8.

S123. Marketing.

Mr. HAWKINS

The evolution of markets and marketing; market structure, organization, and behavior; marketing functions; pricing and price policy; marketing problems of producers of raw materials, agriculturists, manufacturers, wholesalers, and retailers; marketing costs and efficiency; public and private regulations. 2 units.

M Tu W Th F, 1.

S125. Advertising.

Mr. ROBERTS

The executive consideration of the problems of advertising. Methods for planning and preparing advertising with emphasis on product and market research and copy ideas. An analysis of the structure of copy and the evaluation of the principal forms of media. 2 units.

M Tu W Th F, 1.

S133. Investments.

Mr. WENDT

A critical study of investment principles and practices with special reference to the procedures prevailing during the last decade. Prerequisite: Business Administration 6A-6B. 2 units.

M Tu W Th F, 1.

S134. Corporation Finance.

Mr. BLOCKER

The instruments and methods of financing a corporation with reference primarily to the effect on the corporation and its stockholders. Prerequisite: Business Administration 6A-6B. 2 units.

M Tu W Th F, 8.

S144. Life Insurance.

Mr. SERBEIN

A nontechnical study of principles and practices. Prerequisite: Economics 143. 2 units.

M Tu W Th F, 2.

S151. Industrial Relations.

Mr. KENNEDY

Background of the problems faced by management in the field of industrial relations and labor legislation, with an introduction to personnel administration. Students will not receive credit for both Economics 150A and Business Administration 151. 2 units.

M Tu W Th F, 11.

S153. Personnel Administration.

Mr. ROBERTS

Analysis of industrial relations and personnel administration with special attention to such problems as labor turnover, discipline and discharge, selection and placement of personnel, health and safety, joint relations, etc. Prerequisite: Business Administration 151 or Economics 150A. 2 units.

M Tu W Th F, 10.

S154. Collective Bargaining Systems.

Mr. KENNEDY

Collective bargaining systems in American industries such as steel, automobile, coal, clothing. Labor agreements, conciliation, mediation, and arbitration of labor disputes. Prerequisite: Business Administration 151 or Economics 150A. 2 units.

M Tu W Th F, 2.

S160A. Advanced Accounting.

Mr. STAEBLING

Intensive study of the advanced theory of accounts and its application. Selected problems and reading on the various phases of accounting procedure. Prerequisite: Business Administration 6A-6B, with average grade not lower than C. 3 units.

M Tu W Th F, 9. Laboratory sections to be arranged.

S160B. Advanced Accounting.

Mr. STAEBLING

Intensive study of the advanced theory of accounts and its application. Selected problems and reading on the various phases of accounting procedure. Prerequisite: Business Administration 160A with average grade not lower than C. 3 units.

M Tu W Th F, 11. Laboratory sections to be arranged.

S161. Cost Accounting.

Mr. BLOCKER

Prerequisite: Business Administration 6A-6B, with an average grade not lower than C; 160A is recommended. 3 units.

M Tu W Th F, 10. Laboratory sections to be arranged.

S162. Auditing.

Mr. DIXON

Prerequisite: Business Administration 6A-6B, 160A. Laboratory sections to be arranged. 3 units.

M Tu W Th F, 9.

S163. Budgetary Control.

Mr. THEISS

Prerequisite: courses 6A-6B, 160A-160B, 161. 2 units.

M Tu W Th F, 1.

S180. Introduction to Real Estate and Urban Land Economics.

Mr. WENDT

The nature of real property; the principles of urban land utilization; classification of property rights; urban development; real property valuation; the real estate market and its functions; the organization of the real estate business; government regulation of real estate practices. Prerequisite: Economics 1A-1B, 40, and junior standing. 2 units.

M Tu W Th F, 10.

S198A. Directed Group Study.

The STAFF (Mr. GREYER in charge)

1-3 units.

S199A. Special Study for Advanced Undergraduates.

The STAFF (Mr. GREYER in charge)

1-3 units.

S221. Seminar in Business Policy.

Mr. SCHMELZLE

2 units.

Tu Th, 2-4.

S226. Advanced Marketing.

Mr. HAWKINS

Readings, case, problem, and special report work. Prerequisite: course 123, and graduate standing. 2 units.

M W, 3-5.

S261B. Public Accounting Problems.

Mr. THEISS

Advanced cost accounting.

Prerequisite: courses 160A-160B, 161. 2 units.

M W, 3-5.

S269. Income Tax Procedure.

Mr. DIXON

A study of the federal and California laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Prerequisite: courses 160A-160B, 161. 2 units.

M Tu W Th F, 11.

S297. Research in Business Problems.

Mr. GRETHER

Primarily for candidates for the degree of Master of Business Administration. 1-4 units.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S6A. Principles of Accounting.**

Mr. MOONITZ

Prerequisite: at least sophomore standing. It is recommended that students who plan to enter the School of Business Administration complete this course in their sophomore year. 3 units.

M Tu W Th F, 11. Laboratory sections to be arranged.

S6B. Principles of Accounting.

Mr. LAMDEN

Prerequisite: at least sophomore standing and Business Administration 6A. It is recommended that students who plan to enter the School of Business Administration complete this course in their sophomore year. 3 units.

M Tu W Th F, 8. Laboratory sections to be arranged.

S18. Commercial Law.

Mr. COOK

Historical development of the law and its functions with respect to social and economic relationships; courts and court procedure; contracts, including sales and negotiable instruments; legal obligations; fundamentals of property. Prerequisite: at least sophomore standing. Prescribed for students in the School of Business Administration. 2 units.

M Tu W Th F, 9.

S107. Economics of Enterprise.

Mr. BRADSHER, Mr. WILSEY

Economic theory as applied to the problems of the enterprise; a study of demand, production, costs, prices, wages and employment, interest, profits, taxation, risks, and business stabilization. Not open to students taking Economics 100A. Primarily for juniors. 2 units.

M Tu W Th F: Section 1, 8; section 2, 10.

S108. Business Fluctuations and Forecasting. Mr. MOONITZ, Mr. BRADSHER

Not open to students who have taken Economics 103. Prerequisite: Business Administration 107. General analysis of the factors responsible for economic instability and of the problems thereby created for the business firm. 2 units.

M Tu W Th F: Section 1, 9; section 2, 10.

S118. Advanced Commercial Law.

Mr. COOK

Administrative and constitutional law; business organization, including partnerships, corporations, and agency; creditors' rights; financing sales transactions (problems in connection with conditional sales contracts, trade acceptances, letters of credit, etc.). Prerequisite: Business Administration 18. 2 units.

M Tu W Th F, 11.

- S120. Industrial Organization and Management.** Mr. ANDERSON
The role of private enterprise; organization for ownership, control, and management; rationalization, regulation, and business planning. 2 units.
M Tu W Th F, 1.
- S123. Marketing.** Mr. REVZAN
The evolution of markets and marketing; market structure, organization, and behavior; marketing functions; pricing and price policy; marketing problems of producers of raw materials, agriculturists, manufacturers, wholesalers, and retailers; marketing costs and efficiency; public and private regulations. 2 units.
M Tu W Th F, 8.
- S126. Sales Analysis and Sales Management.** Mr. REVZAN
Prerequisite: course 123. 2 units.
M Tu W Th F, 11.
- S127. Business Administration.** Mr. ANDERSON
Production planning and control. 2 units.
M Tu W Th F, 3.
- S134. Corporation Finance.** Mr. WILSEY
The instruments and methods of financing a corporation with reference primarily to the effect on the corporation and its stockholders. Prerequisite: Business Administration 6A-6B. 2 units.
M Tu W Th F, 1.
- S151. Industrial Relations.** Mr. WITTE
Background of the problems faced by management in the field of industrial relations and labor legislation, with an introduction to personnel administration. Students will not receive credit for both Economics 150A and Business Administration 151. 2 units.
M Tu W Th F, 11.
- S155. Labor Law.** Mr. WITTE
A study of federal and state laws and court decisions affecting hours, wages, strikes, boycotts, picketing, union recognition and operation, legality of collective agreements, etc. A discussion of the National Labor Relations Act, Fair Labor Standards Act, and other legislation. Prerequisite: Business Administration 151 or Economics 150A and Business Administration 154. 2 units.
M Tu W Th F, 1.
- S160A. Advanced Accounting.** Mr. CARSON
Intensive study of the advanced theory of accounts and its application. Selected problems and reading on the various phases of accounting procedure. Prerequisite: Business Administration 6A-6B, with average grade not lower than C. 3 units.
M Tu W Th F, 11. Laboratory sections to be arranged.
- S160B. Advanced Accounting.** Mr. CARSON
Intensive study of the advanced theory of accounts and its application. Selected problems and reading on the various phases of accounting procedure. Prerequisite: Business Administration 160A with average grade not lower than C. 3 units.
M Tu W Th F, 9. Laboratory sections to be arranged.

S161. Cost Accounting.

Mr. VANCE

Prerequisite: Business Administration 6A-6B, with an average grade not lower than C; 160A is recommended. 3 units.

M Tu W Th F, 10. Laboratory sections to be arranged.

S162. Auditing.

Mr. VANCE

Prerequisite: Business Administration 6A-6B, 160A. Laboratory sections to be arranged. 3 units.

M Tu W Th F, 11.

S198A. Directed Group Study.

The STAFF (Mr. MASON in charge)

1-3 units.

S199A. Special Study for Advanced Undergraduates.

1-3 units.

The STAFF (Mr. MASON in charge)

S251. Seminar in Industrial Relations.

Mr. DUNLOP

Wages in theory and practice. 2 units.

M W, 3-5.

S269. Income Tax Procedure.

Mr. RINGO

A study of the federal and California laws relating to personal, estate, and corporation income taxes, from the accounting point of view. Prerequisite: course 160A-160B, 161. 2 units.

M Tu W Th F, 8.

S297. Research in Business Problems.

Mr. MASON

Primarily for candidates for the degree of Master of Business Administration. 1-4 units.

CHEMISTRY

JAMES CASON, Ph.D., Assistant Professor of Chemistry.

MARSHALL W. CRONYN, Ph.D., Lecturer in Chemistry.

GEORGE E. GIBSON, Ph.D., Professor of Chemistry.

WILLIAM D. GWINN, Ph.D., Assistant Professor of Chemistry.

DONALD N. HANSON, Ph.D., Instructor in Chemical Engineering.

DAVID HARKER, Ph.D., Research Laboratories, General Electric Co., Schenectady.

GEORGE JURA, Ph.D., Assistant Professor of Chemistry.

CHARLES W. KOCH, B.S., Associate in Chemistry.

AXEL R. OLSON, Ph.D., Professor of Chemistry.

EDWIN F. ORLEMANN, Ph.D., Assistant Professor of Chemistry.

RICHARD E. POWELL, Ph.D., Assistant Professor of Chemistry.

HENRY RAPOPORT, Ph.D., Instructor in Chemistry.

THOMAS D. STANTON, JR., M.A., Associate in Chemistry.

THOMAS D. STEWART, Ph.D., Professor of Chemistry.

THEODORE VERMEULEN, Ph.D., Associate Professor of Chemical Engineering.

CHARLES R. WILKE, Ph.D., Assistant Professor of Chemical Engineering.

BRUNO H. ZIMM, Ph.D., Assistant Professor of Chemistry.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

A. Elementary Chemistry.*

Mr. STANTON

An introduction to general chemistry. Credit for matriculation chemistry will be given for the satisfactory completion of this course. Lectures and experimental illustration, or recitations, and fifteen hours of laboratory work per week. Fee, \$16. No unit credit.

M Tu W Th F, lectures, 8; laboratory, 9-12.

S1A. General Chemistry.

Mr. POWELL

Prerequisite: high school chemistry and physics, or either subject alone with a grade of A or B. These prerequisites may be waived for students above the freshman year whose university records are good. Preference will be given to students who have attended the University previously rather than to those attending for the first time in the First Summer Session of 1948. Fee, \$16. 5 units.

Lectures, M Tu W Th F, 9; laboratory, M Tu W Th F, 1-4. The first hour of each laboratory period is reserved for discussion and quiz.

S5. Quantitative Analysis.

Mr. OLSON

Prerequisite: Chemistry 1B, or its equivalent, with a grade of C or higher. Fee, \$23. 3 units.

Laboratory, M Tu W Th F, 1-5. The first hour, Tu Th and alternate F, is reserved for lecture and quiz.

* Students registering in Chemistry A may not enroll for more than 8 units of credit.

S8. A Short Survey of Organic Chemistry.

Mr. STEWART

An introductory study of the carbon compounds. Prerequisite: Chemistry 1A, or its equivalent with a grade of C or higher. 3 units.

Lectures, M Tu W Th F, 8; quiz, Tu Th, 10.

S9. Organic Chemistry. Laboratory.

Mr. CRONYN

An experimental study of the physical properties and chemical reactions of the common classes of organic compounds. Open to students who have completed Chemistry 1B with a grade of C or higher and who are taking or have taken Chemistry 8, or its equivalent. Fee, \$31. 3 units.

Laboratory, M Tu W Th F, 1-5. The first hour, M W and alternate F, is reserved for lectures and recitations.

S12A. Organic Chemistry.

Mr. CASON

Prerequisite: course 1B with a grade of C or higher. Lectures and laboratory work designed for students whose major is chemistry. Fee, \$31. 5 units.

M Tu W Th F, lectures, 9-10:30; laboratory, 1-4.

S110B. Physical Chemistry.

Mr. GWINN

The general principles of physical chemistry and elementary thermodynamics. Prerequisite: Chemistry 5, Mathematics 4A, Physics 4B. 3 units.

M Tu W Th F, 9; Tu Th 8.

S111, S111H. Physical Chemistry. Laboratory.

Mr. ZIMM

Prerequisite: course 110A, 110B (may be taken concurrently) or 109 with the permission of the instructor; and calculus. Physicochemical measurements. Fee, \$31. 3 units.

Laboratory, M Tu W Th F, 1-5.

S143. Introduction to Chemical Engineering.

Mr. WILKE

Prerequisite: course 109 or 110A. A survey of chemical industry in relation to major products, equipment, and economics. Problem work on weight and heat balances in representative processes. 3 units.

M W F, 10-12; and 1 additional hour to be arranged.

S180H. Research.

The STAFF (Mr. POWELL in charge)

Prerequisite: Chemistry 110B or the equivalent.

Students who have completed with high credit a satisfactory number of advanced courses may prosecute original research under the direction of one of the members of the instructing staff. The consent of the instructor must be obtained. Fee, \$16. 2-6 units.

S199. Special Study for Advanced Undergraduates.

2-3 units.

The STAFF (Mr. POWELL in charge)

Hours to be arranged.

S250. Research in Chemical Engineering. The STAFF (Mr. WILKE in charge)

Research facilities will be provided for graduate study in the unit physical operations and the unit chemical processes. 1-4 units.

Hours to be arranged.

S280. Research.

The STAFF (Mr. POWELL in charge)

2-4 units.

Hours to be arranged.

S290. Graduate Seminar. The STAFF (Mr. POWELL in charge)
S290—1: X-Ray Diffraction and Structural Chemistry. Mr. HARKER
 2 units.
 M W, 10–12.

S290—2: Intermetallic Compounds. Mr. HARKER
 2 units.
 Tu Th, 10–12.

S299. Special Study for Graduate Students.

The STAFF (Mr. POWELL in charge)
 Any properly qualified graduate student who wishes to pursue a problem of his own choice, through reading or nonlaboratory study, may do so if his proposed project is acceptable to the member of the staff with whom he works.
 2–4 units.
 Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1B. General Chemistry. Mr. GIBSON
 Continuation of Chemistry 1A. Fee, \$16. 5 units.
 M Tu W Th F, lectures, 9; laboratory, 1–4. The first hour of each laboratory period is reserved for discussion and quiz.

S5. Quantitative Analysis. Mr. ORLEMANN, Mr. KOCH
 Prerequisite: Chemistry 1B, or its equivalent, with a grade of C or higher.
 Fee, \$23. 3 units.
 Laboratory, M Tu W Th F, 1–5. The first hour, Tu Th and alternate F, is reserved for lecture and quiz.

S12B. Organic Chemistry. Mr. RAPOPORT
 Lectures and laboratory. Prerequisite: courses 12A, or 8 and 9. Fee, \$31.
 5 units.
 M Tu W Th F, lectures, 9–10:30; laboratory, 1–4.

S105. Advanced Quantitative Analysis. Mr. ORLEMANN
 Prerequisite: course 5. Fee, \$23. 3 units.
 Laboratory, M Tu W Th F, 1–5. The first hour, M W and alternate F, is reserved for lecture and quiz.

S109. Physical Chemistry—Brief Course. Mr. JURA
 (Formerly numbered 110.)
 Selected topics in physical chemistry. Primarily for nonchemistry majors.
 Prerequisite: Chemistry 5; one year of college physics. 3 units.
 Lectures: M Tu W Th F, 9 and 2 other hours to be arranged.

S115. Microchemistry. Mr. KOCH
 Synthesis and preparation of organic and inorganic samples on the milligram and microgram scale and their analysis by gravimetric and volumetric methods. Fee, \$23. 3 units.
 M Tu W Th F, 1–5.

S145A-S145B. Unit Operations Laboratory.

Mr. VERMEULEN

Material and energy measurements illustrating fundamental principles.

S145A: pumping of fluids; turbulent and streamline flow; pressure drop in pipes and tower packings; heat transfer; evaporation.

S145B: filtration, drying of solids, continuous distillation, extraction, absorption, crushing. Special problems will be arranged for advanced students. Prerequisite: courses 144 and 146A, or the equivalent. 145A is prerequisite to 145B. Fee, \$18. 2 units for each course.

M W F, 1-5.

S180H. Research.

The STAFF (Mr. ORLEMANN in charge)

Prerequisite: Chemistry 110B or the equivalent.

Students who have completed with high credit a satisfactory number of advanced courses may prosecute original research under the direction of one of the members of the instructing staff. The consent of the instructor must be obtained. Fee, \$16. 2-6 units.

S199. Special Study for Advanced Undergraduates.

2-3 units.

The STAFF (Mr. ORLEMANN in charge)

Hours to be arranged.

S244. Distillation.

Mr. HANSON

Design calculation methods for fractionation columns in binary and multi-component separations. 3 units.

M Tu W Th F, 9, and 2 additional hours to be arranged.

S250. Research in Chemical Engineering.

The STAFF (Mr. VERMEULEN in charge)

Research facilities will be provided for graduate study in the unit physical operations and the unit chemical processes. 1-4 units.

Hours to be arranged.

S280. Research.

The STAFF (Mr. ORLEMANN in charge)

2-4 units.

Hours to be arranged.

S290. Graduate Seminar.

The STAFF (Mr. ORLEMANN in charge)

Subject to be announced later. 1 unit.

Hours to be arranged.

S299. Special Study for Graduate Students.

The STAFF (Mr. ORLEMANN in charge)

Any properly qualified graduate student who wishes to pursue a problem of his own choice, through reading or nonlaboratory study, may do so if his proposed project is acceptable to the member of the staff with whom he works. 2-4 units.

Hours to be arranged.

CLASSICS

BEN L. CHARNEY, Ph.D., Instructor in Latin.

JOSEPH FONTENROSE, Ph.D., Associate Professor of Classics.

JOHANNA GOETZL, Ph.D., Instructor in Latin.

ARTHUR E. GORDON, Ph.D., Associate Professor of Latin.

WILLIAM M. GREEN, Ph.D., Assistant Professor of Latin.

WILLIAM C. HELMBOLD, Ph.D., Lecturer in Classics.

HENRY B. W. SMITH, Ph.D., Professor of Latin and Classical Archaeology and Associate Curator of Classical Archaeology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Classics

S172. **Classical Art and Archaeology in North America.** Mr. SMITH
An introduction to Classical Antiquity as represented in the Greek, Roman, and Etruscan collections (public and private) of North America. Lectures, visits to local collections; practical assignments. 2 units.
M Tu W Th F, 11.

Latin

S1. **Latin for Beginners. Double Course.** Mr. GREEN
4 units.
M Tu W Th F, 8-10.

Greek

S1. **Greek for Beginners. Double Course.** Mr. HELMBOLD, Mr. CHARNEY
4 units.
M Tu W Th F, 10-12.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Classics

S178. **Greek and Roman Mythology.** Mr. FONTENROSE
2 units.
M Tu W Th F, 11.

Latin

S2. **Elementary Latin Readings. Double Course.** Mr. GORDON, Miss GOETZL
4 units.
M Tu W Th F, 9-11.

DECORATIVE ART

MARY A. DUMAS, M.A., Instructor in Decorative Art.

HOPE M. GLADDING, Professor of Decorative Art and Design.

LUCRETIA NELSON, M.A., Assistant Professor of Design.

WILLARD V. ROSENQUIST, M.A., Instructor in Decorative Art.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S16A. Theory of Design and Color.

2 units.

M Tu W Th F, 8-10.

Mr. ROSENQUIST

S16B. Theory of Design and Color.

2 units.

M Tu W Th F, 10-12.

Mr. ROSENQUIST

S60A. Theory of Design and Color: Second-Year Problems. Miss NELSON

Original problems in line, form, and color. Prerequisite: 16A-16B and Art

2A. 2 units.

M Tu W Th F, 10-12.

S127. Primitive Art.

Prehistoric, primitive, and barbaric art. 2 units.

M Tu W Th F, 9.

Miss NELSON

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S16A. Theory of Design and Color.

2 units.

M Tu W Th F, 10-12.

Miss DUMAS

S160A-S160B. Advanced Design.

Prerequisite: Course 16A-16B, and Art 2A, or equivalents. Enrollment limited by laboratory facilities. 2 units each course.

M Tu W Th F, 8-10.

Miss DUMAS

S195B. American Decorative Art from the First Colonial Periods to 1850.

Miss GLADDING

Spanish, English, Dutch colonial periods, and the federal period. Lectures, with slides, from material in museum collections and private houses showing the work of the more significant artists, housewrights, and craftsmen. 2 units.

M Tu W Th F, 2.

DRAMATIC ART

JANE BOGARD, M.A., Assistant in Dramatic Art in the Summer Sessions.

FRED O. HARRIS, M.F.A., Associate Professor of Dramatic Art and Chairman of the Department.

ROBERT DOUGLAS HUME, M.A., Assistant Professor of Dramatic Art, Lindenwood College, Missouri.

WARREN C. LOUNSBURY, A.B., Lecturer in Stage Crafts and Technical Director of the University Theater.

SETH POWERS ULMAN, M.A., Lecturer in Dramatic Art in the Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S10A. Principles and Theory of Acting.

Mrs. BOGARD

Special emphasis will be given to group work as a technique for teaching creative acting. 2 units.

M Tu W Th F, 1.

S20. Stage Crafts.

Mr. LOUNSBURY

Methods and materials for stage design and stage lighting, scene painting and scene construction. 2 units.

M Tu W Th F, 9.

136. Play Production.

Mr. ULMAN

Theory of acting and directing in relation to play production. 2 units.

M Tu W Th F, 11.

S407. Speech for the Stage.

Mr. HUME

In Section 2 special emphasis will be given to speech in high school theater work. 2 units.

M Tu W Th F: section 1, 10; section 2, 2.

Supervised Staff Work in Play Production.

Mr. LOUNSBURY

The University Theater will present a play in Wheeler Auditorium the week of July 19th, directed by Mr. Ulman. Participation in the play is open to all students. No credit.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

Supervised Staff Work in Play Production.

Mr. HARRIS

The University Theater will present a play in the Greek Theater the week of August 30th, directed by Mr. Harris. Participation in the play is open to all students. No credit.

ECONOMICS

EDWARD H. CHAMBERLIN, Ph.D., Professor of Economics, Harvard University.

JAMES A. CRUTCHFIELD, A.B., Lecturer in Business Administration.

MALCOLM M. DAVISSON, J.D., Ph.D., Professor of Economics and Chairman of the Department.

JOHN F. DUE, Ph.D., Associate Professor of Economics, University of Utah.

JOHN T. DUNLOP, Ph.D., Associate Professor of Economics, Harvard University.

WYTZE GORTER, A.B., Lecturer in Economics (Los Angeles).

ROY W. JASTRAM, A.B., Lecturer in Business Administration.

FRANK L. KIDNER, Ph.D., Associate Professor of Economics.

CARL LANDAUER, Ph.D., Professor of Economics.

JOHN M. LETICHE, M.A., Lecturer in Economics.

MILTON LIPTON, A.B., Lecturer in Business Administration.

SANFORD A. MOSK, Ph.D., Associate Professor of Economics.

EARL R. ROLPH, Ph.D., Assistant Professor of Economics.

OSCAR N. SERBEIN, JR., M.S., Lecturer in Statistics, Columbia University.

PAUL S. TAYLOR, Ph.D., Professor of Economics.

GEORGE W. ZINKE, Ph.D., Associate Professor of Economics, University of Colorado.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A-S1B. Elements of Economics. Mr. CRUTCHFIELD, Mr. _____

Introduction to economic theory and an analysis of the operation and problems of the modern economic system. Prerequisite: S1A is prerequisite to S1B. Open to freshmen and others. 3 units for each course.

S1A. M Tu W Th F, 9, and two quiz sections.

Mr. CRUTCHFIELD

S1B. M Tu W Th F, 1, and two quiz sections.

Mr. _____

S40. Elementary Statistics.

Mr. JASTRAM

An introduction to modern methods of analyzing statistical data, their gathering and classification, with emphasis on analysis and presentation. Economic material is used as the basis of illustrative problems. Open to any student with two years of high school algebra or one year of high school algebra and Mathematics D. Fee, \$2.50. 3 units.

M Tu W Th F, lectures, 10; laboratory, two sections per week of two hours each.

NOTE.—Credit in this course is limited to 2 units for students who have received credit for Education 114 or Psychology 5.

S100A-S100B. Economic Theory.

Mr. LANDAUER, Mr. _____

Study of the economic process with special reference to the theory of general equilibrium, particular equilibrium, imperfect competition, and economic fluctuations. This course should be taken in the junior year. Economics 100A is not open to students taking Business Administration 107 (formerly numbered 109). 100A is prerequisite to 100B. 2 units for each course.

S100A. M Tu W Th F, 1, Mr. _____.

S100B. M Tu W Th F, 1, Mr. Landauer.

S102. Advanced Economic Theory.

Mr. DUE

Analysis of the determinants of the aggregate level of output and employment, and of the allocation of resources to specific uses. Includes advanced value and distribution theory, and a brief review of modern monetary theory. Prerequisite: course 100A-100B. 2 units.

M Tu W Th F, 11.

S104. Economic Policy.

Mr. DUE

A survey and appraisal of the economic programs advanced by leading organizations—economic, political, and religious—in this country. Special attention will be accorded to the role of government in relation to economic enterprise in both its domestic and international aspects. 2 units.

M Tu W Th F, 2.

S106. Social Reform Movements.

Mr. LANDAUER

Plans and movements for social reform, with special reference to the economic aspects of their aims. 2 units.

M Tu W Th F, 2.

S113. Economic History of the United States.

Mr. MOSK

2 units.

M Tu W Th F, 9.

S114. Economic Problems of Latin America.

Mr. MOSK

2 units.

M Tu W Th F, 10.

S130A. Public Finance and Taxation.

Mr. DAVISSON

A general survey of the growth and economic effects of public expenditure and public indebtedness, the character of taxation, and tax systems (federal, state, and local) of the United States. 2 units.

M Tu W Th F, 8.

S135. Money and Credit.

Mr. ———

An introductory study of the history and theory of modern financial institutions and practices. Primarily for juniors. 2 units.

M Tu W Th F, 10.

S143. Economics of Insurance.

Mr. SERBEIN

An introduction to the underlying principles of insurance followed by a descriptive study of the practices in the more important branches of the insurance business. 2 units.

M Tu W Th F, 9.

S150A. Labor Economics.

Mr. TAYLOR

The social background of labor legislation and trade unionism. 2 units.

M Tu W Th F, 1.

NOTE.—Students will not receive credit for both course 150A and Business Administration 151.

S190A. International Trade and Commercial Policies.

Mr. LETICHE

2 units.

M Tu W Th F, 9.

S199. Special Study for Advanced Undergraduates.

Mr. MOSK

Designed primarily for seniors on the Honors List of the College of Letters and Science. 1-2 units.

Hours to be arranged.

S250A. Seminar in Labor Economics.

Mr. TAYLOR

2 units.
M W, 3-5.

S298. Research.

Mr. LANDAUER

Open to candidates for the Ph.D. degree who have passed the qualifying examination and who are engaged in research for the thesis, and in special cases, with the approval of the instructor in charge, to qualified graduate students who desire to do special work in a particular field. 1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S1A-S1B. Elements of Economics.**

Mr. ———, Mr. KIDNER

Introduction to economic theory and an analysis of the operation and problems of the modern economic system. Prerequisite: S1A is prerequisite to S1B. Open to freshmen and others. 3 units for each course.

S1A. M Tu W Th F, 1, and two quiz sections, Mr. ———.

S1B. M Tu W Th F, 9, and two quiz sections, Mr. Kidner.

S40. Elementary Statistics.

Mr. LIPTON

An introduction to modern methods of analyzing statistical data, their gathering and classification, with emphasis on analysis and presentation. Economic material is used as the basis of illustrative problems. Open to any student with two years of high school algebra or one year of high school algebra and Mathematics D. Fee, \$2.50. 3 units.

M Tu W Th F, lectures, 10; laboratory, two sections per week of two hours each.

NOTE.—Credit in this course is limited to 2 units for students who have received credit for Education 114 or Psychology 5.

S100A-S100B. Economic Theory.

Mr. DUNLOP, Mr. GORTER

Study of the economic process with special reference to the theory of general equilibrium, particular equilibrium, imperfect competition, and economic fluctuations. This course should be taken in the junior year. Economics 100A is not open to students taking Business Administration 107 (formerly numbered 109). 100A is prerequisite to 100B. 2 units for each course.

S100A. M Tu W Th F, 11, Mr. Dunlop.

S100B. M Tu W Th F, 1, Mr. Gorter.

S102. Advanced Economic Theory.

Mr. CHAMBERLIN

Analysis of the determinants of the aggregate level of output and employment, and of the allocation of resources to specific uses. Includes advanced value and distribution theory, and a brief review of modern monetary theory. Prerequisite: course 100A-100B. 2 units.

M Tu W Th F, 10.

S113. Economic History of the United States.

Mr. ZINKE

2 units.
M Tu W Th F, 2.

S135. Money and Credit.

Mr. ROLPH

An introductory study of the history and theory of modern financial institutions and practices. Primarily for juniors. 2 units.

M Tu W Th F, 9.

S137. Money, Banking, and Monetary Policy.

Mr. ROLPH

Analysis of the mechanics of the monetary system of the United States with studies of monetary systems of other countries; problems involved in monetary management and evaluation of programs for monetary and banking reform. Prerequisite: course 135. 2 units.

M Tu W Th F, 11.

S150B. Labor Economics.

Mr. ZINKE

History of the labor movement. Course 150A is recommended but not required as a prerequisite for 150B. 2 units.

M Tu W Th F, 1.

NOTE.—Students will not receive credit for both course 150A and Business Administration 151.

S190B. International Economic Relations.

Mr. GORTER

Fundamental factors in international economic relations. 2 units.

M Tu W Th F, 10.

S199. Special Study for Advanced Undergraduates.

The STAFF (Mr. ROLPH in charge)

Designed primarily for seniors on the Honors List of the College of Letters and Science. 1–2 units.

Hours to be arranged.

S204. Seminar in Contemporary Economic Theory.

Mr. CHAMBERLIN

2 units.

Tu Th, 3–5.

S298. Research.

Mr. KIDNER

Open to candidates for the Ph.D. degree who have passed the qualifying examination and who are engaged in research for the thesis, and in special cases, with the approval of the instructor in charge, to qualified graduate students who desire to do special work in a particular field. 1–3 units.

Hours to be arranged.

EDUCATION

- ORVILLE D. ADAMS, M.S., Assistant Superintendent, Board of Education, San Francisco.
- IRWIN O. ADDICOTT, Ed.D., Assistant Superintendent and Director of Instruction and Research, Fresno City Schools.
- MILES H. ANDERSON, M.A., Assistant State Supervisor, in charge of Development of Instructional Material, California State Department of Education.
- EDNA W. BAILEY, Ph.D., Professor of Education.
- GLENN E. BARNETT, Ed.D., Assistant Professor of Education.
- HUGHES M. BLOWERS, A.B., Regional Supervisor, Bureau of Business Education, California State Department of Education.
- HENRY BOWMAN, Ph.D., Chairman of the Department of Marriage Education, Stephens College.
- ARTHUR H. BRAYFIELD, Ph.D., Dean of Student Personnel, Long Beach City College.
- ROBERT E. BROWNLEE, A.B., Resident Supervisor, Oakland Technical High School, Principal of the Demonstration Secondary School.
- LEO F. CALN, Ph.D., Professor of Education and Director of Special Education, San Francisco State College.
- HAROLD D. CARTER, Ph.D., Associate Professor of Education.
- LESLIE L. CHISHOLM, Ph.D., Professor of Education, University of Nebraska.
- CLINTON C. CONRAD, Ph.D., Lecturer in Education.
- GEORGIA T. COOPER, M.A., Principal, Glen Taylor School, Walnut Creek.
- JOHN H. CORNEHLSSEN, JR., Ph.D., Dean of Men, Associate Professor of Psychology, San Francisco State College.
- ENOCH DUMAS, Ed.D., Assistant Professor of Education and Coördinator for Elementary School Credentials, Chico State College.
- FLORENCE DUNLOP, Ph.D., Psychologist and Supervisor of Special Classes, Ottawa Public Schools, Ottawa, Ontario, Canada.
- RALPH G. ECKERT, Ph.D., Chief, Bureau of Parent Education, California State Department of Education.
- MERLE ELLIOTT, Ph.D., Director of Research, Oakland Public Schools.
- JOHN W. ERNEST, M.B.A., Instructor in Merchandising, Los Angeles City College.
- WILLARD S. FORD, Ph.D., Professor of Secondary Education, Chico State College.
- MABEL F. GIFFORD, Lecturer in Special Education.
- LUTHER C. GILBERT, Ph.D., Professor of Education.
- FRANK W. HART, Ph.D., Professor of Education.
- MERTON E. HILL, Ed.D., Professor of Education.
- EVAN R. KEISLAR, Ph.D., Assistant Professor of Education, Tufts College.
- NOEL KEYS, Ph.D., Professor of Education.
- HOWARD KINGSLEY, Ph.D., Professor of Psychology, Boston University.
- ERNEST G. KRAMER, A.B., Regional Supervisor, Bureau of Trade and Industrial Education, California State Department of Education.

- GEORGE C. KYTE, Ed.D., Professor of Education.**
- FRANK LAYCOCK, Ph.D., Instructor in Psychology, Chico State College.**
- MARTIN LITTLE, Ph.D., Associate Professor of Education, University of Tennessee.**
- WILSON LITTLE, Ph.D., Associate Professor of Education.**
- PAUL V. W. LOFGREN, Ph.D., Lecturer in Education.**
- BERNARD J. LONSDALE, M.S., Consultant in Elementary Education, California State Department of Education.**
- JAMES M. MCCALLISTER, Ph.D., Director of Personnel Service, Herzl Branch, Chicago City Junior College.**
- SIDNEY E. MCGAW, B.S., Assistant Supervisor, California State Department of Education.**
- JOHN E. MARSHALL, Ed.D., Director of Research and Schoolhouse Planning, State Department of Education, Charleston, West Virginia.**
- HENRY C. MECKEL, Ph.D., Supervisor of the Teaching of English.**
- JOHN U. MICHAELIS, Ph.D., Associate Professor of Education.**
- GAIL E. MOORE, M.Ed., Supervisor, Trade and Industrial Teacher-Training, California State Department of Education.**
- RICHARD D. MOSIER, Ph.D., Assistant Professor of Education.**
- WILLIAM G. PADEN, J.D., M.A., LL.D., Superintendent of Schools, Alameda.**
- J. CECIL PARKER, Ed.D., Associate Professor of Education.**
- LAERS H. PETERSON, Ph.D., Associate Professor of Education.**
- THOMAS C. POLSON, Ph.D., Assistant Supervisor of the Teaching of Science.**
- GEORGE L. ROSECRANS, A.B., Assistant State Supervisor of Apprentice Training, California State Department of Education.**
- DAVID H. RUSSELL, Ph.D., Professor of Education.**
- ROGER J. SCHULTE, Ed.D., Head, Department of Attendance, Pupil Welfare and Work, Berkeley Public Schools.**
- ERNA SEEGER, A.B., Teacher, Albany Public Schools, California.**
- MADELEINE M. SEVENANS, A.B., Director of Speech Activities, Beverly Hills Schools.**
- MILDRED SHRINER, B.S., Lecturer in Special Education.**
- CORNELIUS H. SIEMENS, Ph.D., Director, Compton College.**
- MAURICE M. SMITH, Ph.D., Lecturer in Education.**
- W. VIRGIL SMITH, A.B., LL.B., M.A., Assistant Superintendent in charge of Instruction and Curriculum Research, Seattle Public Schools.**
- HAROLD SPEARS, Ed.D., Curriculum Coördinator, San Francisco Public Schools.**
- ROBERT S. STEWART, Ph.D., Assistant Professor of Education, San Francisco State College.**
- LAWRENCE G. THOMAS, Ph.D., Associate Professor of Education, Stanford University.**
- LOUIS P. THORPE, Ph.D., Professor of Education, the University of Southern California.**
- WILLIAM G. WOOLWORTH, M.A., Curriculum Coördinator, Albany Public Schools, Principal of the Demonstration Elementary School.**

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S101. The History of Education—General Course.** Mr. MOSIER
The development of educational thought and practice viewed as a phase of social progress. 2 units.
M Tu W Th F, 8.
- S106. Theory of Education.** Mr. MOSIER
The great educational classics and their meaning for modern man. 2 units.
M Tu W Th F, 11.
- S110. Introduction to Educational Psychology.** Mr. KINGSLEY
Original nature and tendencies of man; the learning process; individual differences and their measurement. 2 units.
M Tu W Th F, 10.
- S111. Growth and Development of Children.** Mrs. BAILEY
The processes through which the normal human being reaches maturity, acquires effective use of his bodily equipment and learning capacity, and makes satisfactory personal and social adjustments. Directed observation of normal children. Prerequisite: Education 110 or Psychology 2. 2 units.
M Tu W Th F, 2.
- 112. The Improvement of Reading.** Mr. McCALLISTER
Methods of analysis and correction of reading difficulties in the elementary school and high school; individual and group techniques for use in remedial and regular classrooms; effective reading readiness program; development of word meaning, recognition, and analysis; improvement of comprehension and recall; skimming and speeded reading; study skills and higher mental processes; provision for individual differences in abilities and interests; the place of skills in a modern reading program. 2 units.
M Tu W Th F, 11.
- S114. Statistical Methods in Education.** Mr. M. M. SMITH
The use of statistical techniques in educational research and interpreting the results of measurement. Prerequisite: Education 110. Mathematics 1 is also recommended. 2 units.
M Tu W Th F, 8.
- S116. The Exceptional Child.** Miss DUNLOP
The intellectually superior and mentally inferior child, the physically handicapped, and the delinquent, with educational and sociological application. 2 units.
M Tu W Th F, 2.
- S117. Psychology of High School Subjects.** Mr. GILBERT
A psychological analysis of the various subjects of the high school curriculum with a survey of psychological experiments. Prerequisite: course 110. 2 units.
M Tu W Th F, 8.

S118. Psychology of Elementary School Subjects.

Mr. McCallister

A psychological analysis of the various subjects of the elementary school curriculum with particular attention to psychological experiments. Prerequisite: Education 110. 2 units.

M Tu W Th F, 9.

S119. Standard Tests in Education.

Mr. M. M. Smith

A critical survey and evaluation of standard tests, including achievement and psychological tests available for school purposes; practice in giving and scoring tests, and interpreting results for the improvement of instruction; organization of a testing program. 3 units.

M Tu W Th F, 10, and one hour of field work.

121. Training Center in Family Life, Health, and Social Relations.

Mr. Keys, Mr. Eckert, and visiting lecturers

Biological, physiological, psychological, and social bases for instruction and counseling in family life education, with emphasis on psychosexual maturation and conduct. Admission only by special application to Mr. Keys. 4 units.

M Tu W Th F, 11-12, 1:30-3:30.

S125. Instructional Materials and Equipment.

Mr. Anderson, Mr. Polson

An introduction to audiovisual, radio, and other aids to teaching; their selection, use, and evaluation. Laboratory work will include making and collecting teaching materials, such as slides, film strips, graphs, and charts; operating commonly used audiovisual equipment; and practicing demonstration and blackboard techniques. Prerequisite: course 130 or 170. 2 units. (Section 1 limited to students who are working for the Trade and Industrial Credential.) Fee, \$5.

Section 1, M W, 4-6, 1; section 2, Tu Th, 1. Laboratory to be arranged.

127. Principles of Teaching the Slow Learner.

Miss Dunlop

Principles of adapting the curriculum, materials, and methods of teaching to the needs of the mentally handicapped child. This course may be counted toward the special credential for working with mentally retarded children. Prerequisite: teaching experience. 3 units.

M Tu W Th F, 4, and field work.

S130. Elementary Education.

Mr. Addicott

The aim, function, work, and attainable goals of the elementary school, as a basic part of the American system of education; its relations with the other schools of the American series and the community. 2 units.

M Tu W Th F, 8.

S131. Special Problems of Teaching in Elementary Schools.

Mr. Dumas

Newer trends and teaching problems in oral and written language, spelling, handwriting, creative expression, arithmetic, health and physical education, art, and music. 2 units.

M Tu W Th F, 3.

133. Elementary Education Workshop.

Mr. Barnett (in charge), Mr. Dumas, Mr. Woolworth

The study of problems in elementary education by means of group discussions, meetings, individual conferences, participation in creative activities and observation in the Demonstration Elementary School. Opportunities for spe-

cialization in the preparation of curricular material. Emphasis upon the solution of individual problems brought to the workshop by participating teachers, superintendents, and elementary principals. 4 units.

M Tu W Th F, 1. Students will observe at the School mornings.

S134. Reading and Literature in the Elementary School. Mr. RUSSELL

Objectives, standards of attainment, types of reading instruction, diagnostic and remedial techniques, reading readiness, place of reading in the activity program. Introduction to children's literature, children's interests in reading, criteria for selection of content, the place of supplementary and library reading. 2 units.

M Tu W Th F, 11.

135. Industrial Arts in the Elementary School. Mrs. SEEGER

The meaning and significance of industrial arts in elementary education. Studies and activities appropriate for children of different ages. Laboratory experiences in clay, wood, textiles, and other materials used by man to provide for his basic needs. Emphasis upon integration with social studies. Lectures, readings, and laboratory. Laboratory fee, \$2. 2-4 units.

Section 1. Kindergarten and primary grades, M W, 3-6.

Section 2. Intermediate and upper grades, Tu Th, 3-6.

136. Elementary School Principals' Workshop.

Mr. LONSDALE, Mr. ADDICOTT

The work of the elementary school principal in its supervisory, administrative and public relations aspects. Stress will be given to methods of supervision in relation to procedures in the Demonstration Elementary School and to the responsibilities of the principal in curriculum and in community relations. Tuition fee is \$20 for those not otherwise enrolled in the Summer Session. (Three weeks only, June 28-July 16). 3 units.

Persons enrolling in this course only should file application in the usual manner and pay the fee of \$20 at the Registrar's Office, Friday, June 25, or Monday, June 28.

M Tu W Th F, 11-12, Discussion of Curricular and Supervisory Practices in the Demonstration School. 2-4, Study and Discussion.

S138. Social Studies in the Elementary School. Mr. MICHAELIS

Aims, content, and outcomes; unified social studies *vs.* separate courses; critical analysis of typical units and courses of study; selection, sequence, and organization of units; the place of textbooks and supplementary materials; relation to the three R's, the arts, and elementary sciences. 2 units.

M Tu W Th F, 10.

S141. The Administration of City School Systems. Mr. PADEN

Interpretation of the principles and policies involved in city school organization and administration. 2 units.

M Tu W Th F, 10.

S142. The Administration of State School Systems. Mr. MARSHALL

The organization and administration of state school systems with special reference to the interrelation of federal, state, and county support and organization. 2 units.

M Tu W Th F, 11.

S145. Problems in Public School Finance and Business Administration.

Mr. W. LITTLE

Methods and problems of financing public education, including a study of the principles of public school business administration, preferred practice, and procedure. Prerequisite: Education 140 or 141 and 142 and teaching experience. 2 units.

M Tu W Th F, 9.

S148. Public Education in California.

Mr. PADEN

Organization and administration of the California school system, as given in the School Law of the State and as interpreted by the ruling of the State Superintendent of Public Instruction and the Attorney General. 2 units.

M Tu W Th F, 8.

S153. Mental Hygiene—Elementary.

Mr. ELLIOTT

A basic mental hygiene course for persons concerned with problems of childhood. Development from infancy through adolescence with special reference to those factors contributing to mental health and those which are causal in personal, educational, and social problems. Aggressive and withdrawing types of behavior, speech problems, etc., studied as symptoms of mental hygiene difficulties. The teacher as a positive influence in the child's mental condition. 2 units.

Tu Th, 4-6.

S160. Vocational Education.

Mr. MOORE

Philosophy and organization of vocational education of less than college grade, with particular reference to principles underlying education for agriculture, commerce, homemaking, and industry. Prerequisite: Education 101 or 102, and 110. 2 units.

M Tu W Th F, 11.

S164. Counseling and Guidance.

Mr. BRAYFIELD

Designed for vocational counselors, teachers, principals, and other persons interested in the guidance of youth. Origin, philosophy, and present practices. Prerequisite: Education 110 and consent of the instructor. 2 units.

M Tu W Th F, 9.

S167. Individual Inventory.

Mr. CORNEILSEN

Types of information needed; procedures and techniques; records, forms; case studies; interpretation of data. 2 units.

M W, 7:30-9:30 p.m.

S170. Secondary Education.

Mr. SIEMENS

Functions, scope, objectives, and curricula, including the fields of the high school and junior college in relation to individual and social needs. Prerequisite: Education 101 or 102, and 110. Ordinarily juniors will not be admitted to this course. 2 units.

M Tu W Th F, 9.

186. Laws Relating to Children.

Mr. SCHULTE

The educational code, labor code, and welfare code of the State of California, together with federal legislation applicable to school children. 2 units.

M Tu W Th F, 8.

187. Supervision of Child Welfare and Attendance.

Mr. SCHULTE

Methods and procedures in the supervision of child welfare and attendance; supervised practice in social investigation related to school children. Child guidance, teacher-pupil and parent-school relationships; the social resources of the school and community and their utilization for the welfare of the school child. Supervised practice and field work. Accepted as part of the required work, or as one of the elective groups, for the Attendance Officer Credential. 2-4 units.

M Tu W Th F, 10, and field work.

S200. Research Techniques.

Mr. CARTER

Research problems in education; historical and scientific methods; design of investigations; bibliographical techniques, statistical methods, survey methods, and laboratory techniques; methods of reporting results. 2 units.

M Tu W Th F, 10.

S210B. Advanced Educational Psychology.

Mr. KINGSLEY

The chief problems in learning and their bearing on education, with emphasis on the outcomes of scientific experiment. 2 units.

M W, 4-6.

S216A. Educational Psychology. Seminar.

Mr. CARTER

Research in educational psychology. Limited to graduate students whose special interest is in the field of educational psychology. Admission on consultation with the instructor. 2 units.

M W, 7:30-9:30 p.m.

S217. Experimental Education.

Mr. GILBERT

Laboratory experiments, with special reference to the more elaborate techniques applied to the various school subjects. The course includes voice recording, photographing eye-movements in reading and spelling, analysis of rhythm in reading, arithmetic, and writing; and studies of the motor responses accompanying appreciation. Each member of the class will participate in all experiments. 2 units.

Tu Th, 4-6.

225. Administration and the Curriculum.

Mr. W. V. SMITH

For teachers, supervisors, directors, superintendents, and curriculum committee members. Problems of relationships of curriculum improvement and administrative organization and procedure. Prerequisite: teaching or administrative experience. 2 units.

M W, 7:30-9:30 p.m.

S227. Problems in Curriculum Development Practicum.

Mr. PARKER, Mr. W. V. SMITH

Designed as a workshop for teachers, principals, and superintendents who wish to make specific plans and develop materials for specific curriculum problems in their schools. Prerequisite: two courses in elementary and/or secondary curriculum, teaching experience, graduate standing, and consent of instructors. 4 units.

M Tu W Th, 2-4.

S231. Administration of Elementary Education. Practicum.

Mr. KYTE

The work of the principal and his assistants in organizing, administering and supervising an elementary school in order to improve instruction. Admission on consultation with the instructor. 2 units.

Tu Th, 2-4.

S232A. The Elementary School Curriculum. Seminar.

Mr. RUSSELL

Current research and original investigation relating to the curriculum of the elementary school. Admission on consultation with instructor. 2 units.

M W, 7:30-9:30 p.m.

S233B. Supervision of Elementary Education. Practicum.

Mr. KYTE

Principles and practices of supervision including the nature and use of the various supervisory techniques, and the supervision of the several types of teachers. For supervisors, elementary school principals, and superintendents of schools. 2 units.

M W, 2-4.

237. Trends in Elementary Education.

Mr. BARNETT

A survey of current practices descriptive of the emerging elementary school in the United States with special attention to their implications for the student's own professional needs. Prerequisite: graduate standing and at least 12 units in education. 2 units.

Tu Th, 2-4.

S240A. Educational Administration. Seminar.

Mr. PETERSON

Limited to candidates for the master's or doctor's degrees, whose special interest is administration. Admission on consultation with instructor. 2 units.

Tu Th, 7:30-9:30 p.m.

S244. Problems in Schoolhousing.

Mr. MARSHALL

To prepare administrators to meet problems of housing in their own school systems or to qualify them as educational consultants in the field of schoolhousing. Analysis of established technique and research studies, validation of existing standards or derivation of new standards. Prerequisite: Education 248A-248B or extensive experience in school administration. 2 units.

M W, 2-4.

S248A. Educational Administration.

Mr. W. LITTLE

Intended to serve the fundamental needs of state, county, and city superintendents or other school administrative officers. The basic material of study will be the school surveys, superintendents' reports, and contributions to education in the field of administration. Prerequisite: 12 units of education or extensive teaching and administrative experience. 2 units.

Tu Th, 4-6.

S249A. School Surveys. Practicum.

Mr. PETERSON

Training in the practical application of the principles and technique developed in the companion course (248A-248B), including additional field work equivalent to two hours per week. Opportunity to organize and participate in the conduct of school surveys and field studies.

Limited to students enrolled in course 248A. 2 units.

Tu Th, 2-4.

S260A. Vocational Education. Seminar.

Mr. BRAYFIELD

For graduate students whose major interest is in vocational education, counseling and guidance, or closely related problems. Admission on consultation with the instructor. 2 units.

Tu Th, 7:30-9:30 p.m.

S270A. Secondary Education. Seminar.

Mr. SIEMENS

For advanced students who wish to study some topic in secondary education or to investigate some problem in organization, instruction, or measurement. Admission on consultation with instructor. 2 units.

Tu Th, 7:30-9:30 p.m.

S272B. Secondary School Curriculum: Techniques of Curriculum Making.

Mr. PARKER

For advanced students who wish to make critical studies of current practices in curriculum making in secondary schools. This course will place emphasis upon criteria for the selection and organization of instructional materials and activities. It will also stress practice in the analysis and evaluation of courses of study in current use. 2 units.

M W, 4-6.

S273. Supervision in Secondary Schools.

Mr. CHISHOLM

The organization, function, and techniques of supervision with special reference to secondary schools. Prerequisite: Education 130 or 170; teacher experience, and the permission of the instructor. 2 units.

M W, 7:30-9:30 p.m.

S276. The Administration of Secondary Education. Practicum.

Mr. CHISHOLM

A study of administrative organization in all types of secondary schools. An investigation of the duties, obligations, and responsibilities of the administrative staff. A survey of administrative procedures for guidance on all secondary levels. A study of the secondary administrator and his relation to supervision of instruction. Each student is expected to select a term problem, including field work, and carry it through to completion. Prerequisite: Education 170 and 141 or 142. 2 units.

Tu Th, 7:30-9:30 p.m.

S279. The Junior College: A Practicum.

Mr. HILL

Limited to candidates for advanced degrees or for the junior college credential whose special interest is teaching in or the administration of the junior college. Each student will be required to select a problem in the junior college field and develop it fully during the session. 2 units.

Tu Th, 9-11.

280. Teacher Education. Seminar.

Mr. MICHAELIS

Research problems in professional preparation of teachers including teacher selection, courses in education, observation and participation, student teaching, placement, follow-up, and organization of teacher education programs. Prerequisite: graduate standing and teaching experience. 2 units.

M W, 4-6.

S284. Counseling, Child Welfare, and Parent Education.

Mrs. BAILEY, Mr. ELLIOTT

For counselors, attendance officers, and school administrators. Current practices with regard to pupil personnel services. Techniques in studying individual pupils; child guidance procedures frequently used; adaptations of different grade levels to rural and urban situations. Inservice training for coöperation in these techniques. Community resources in child welfare, especially parents' organizations and study classes. Techniques of parent education as part of adult education and as a factor in children's welfare. 2 units.

M W, Section 1, 2-4; Section 2, 4-6.

S298. Directed Research.

The STAFF (the DEAN in charge)

2-4 units.

Hours to be arranged.

300B. Recent Developments in Teaching English Literature and Composition in Secondary Schools.

Mr. MECKEL

For teachers who are interested in familiarizing themselves with current literature and research in the teaching of English and who wish to develop units of work or teaching materials to use in their own courses during the regular school year. Teachers who plan to take the course are advised to communicate in advance with the instructor and indicate their field of interest. Prerequisite: a teaching credential and teaching experience. 2 units.

M Tu W Th F, 3.

S320A. Lectures, Field Trips, Observations, and Participation.

Mr. CONRAD and Assistants

Introduction to teaching; participation in some form of school work. A limited number of juniors and seniors will be admitted. It is strongly recommended that students reserve a two-hour period of time for observation. 1 unit.

M W, 1.

S320E. Professional Methods.

Mr. MECKEL and Assistants

2 units.

M W, 4-6.

S323. Practicum in Supervised Teaching.

Mr. CONRAD and Assistants

Prerequisite: Education 320 or experience as a teacher, and the consent of the instructor. An opportunity to obtain more extended experience under supervision. The emphasis is varied in accordance with the candidate's previous experience. 2-4 units.

Tu Th, 4-6.

SPECIAL EDUCATION COURSES*Cerebral Palsied Children***S379. Educational Treatment of Cerebral Palsied Children.** Mrs. SHRINER

Presentation of problems, including research and educational experiments. Adaptation of equipment for the individual child. Methods and curriculum activities which aid coordination, speech, and walking. The social development of the child as integrated in the total school learning program. 2 units.

M Tu W Th F, 11.

*Speech****394. Speech Disorders.**

Mrs. GIFFORD

Classification of speech defects and disorders. Nervous speech disorders; stammering, stuttering, hesitation, cluttering. Personality in teaching. Teacher training in corrective technique for use in public schools; clinic observation. 2 units.

M Tu W F, 2; clinic, Th, 2.

394P. Advanced Problems in Speech Disorders.

Mrs. GIFFORD

A study of various theories of causes and treatment; case studies covering physical, mental, and emotional aspects; home and social adjustments; clinic observation. 2 units.

M Tu W F, 1; clinic, Th, 2.

* The following courses offered in Education satisfy all the requirements for the Speech Correction Credential for persons holding a valid teachers credential: S153, S284, 394, 394P, 394S, 395, 395P.

394s. Clinical Practice in Speech Therapy.

Mrs. COOPER

Supervised teaching in the correction of speech defects and disorders. This opportunity for practice teaching with children is open to all persons who have had Speech Education 393P, 394P, 395P, or the equivalent. All students enrolled in the Summer Sessions who have speech defects or disorders are invited to make use of this clinic for help in overcoming their speech difficulties. 2 units.

M Tu W Th F, 10-12.

395. English Phonetics with Special Reference to Speech Improvement.

Miss SEVENANS

Correct formation of English sounds; the most common articulatory faults and their correction. Standards of pronunciation. Exercises for ear training; exercises for control of the voice mechanism. Designed to aid the teacher in self-improvement in speech as well as in class instruction. Special attention given to the preparation of materials for use in the classroom. Open to classroom teachers as well as to those seeking a Speech Credential. 2 units.

M Tu W Th F, 10.

395P. Phonetics Applied to the Correction of Articulatory Speech Defects.

Mrs. COOPER

Detailed study of the correct production of the sounds of English; methods of diagnosis of articulatory defects and their correction, functional and organic. Preparation of material for use in corrective work both with groups and with individuals. Prerequisite: Education 395 or equivalent. 2 units.

M Tu W Th F, 9.

*Trade and Industrial Education***163c. Construction of Vocational Curricula.**

Mr. KRAMER

Utilizing occupational and trade analysis to lay out and plan the course content and the pattern of courses of a vocational curriculum. 2 units.

M Tu W Th F, 8.

167c. Coöperative and Apprentice Education.

Mr. ROSECRANS

The problems incident to the organization and administration of coöperative and apprentice education. 2 units.

M Tu W Th F, 9.

167M. Tests and Measurements in Vocational Education.

Mr. LOFGREN

The construction and use of objective achievement tests to measure the progress of learning and the adequacy of instruction in vocational training courses. 2 units.

M Tu W Th F, 9.

167s. Supervision of Vocational Education.

Mr. ADAMS

Qualifications, duties, and responsibilities of local and state supervisors of vocational education; financing of local and state programs of supervision; methods and devices for promoting programs; problems of administration and supervision arising from changing social and economic conditions. 2 units.

M Tu W Th F, 8.

168. Conference Leading.

Mr. MOORE

Methods of organizing, planning, and conducting conferences in school, industrial public service, trade advisory committee, and community organizations. 2 units.

Tu Th, 2-4.

361. Occupational Analysis.

Mr. MCGAW

Analysis and classification of the trade knowledge and experience which the worker possesses. The use of trade and job analysis techniques employed in organizing an occupation into effective units of learning. In this course every trainee must make a trade analysis of his occupation. 2 units.

M Tu W Th F, 8.

362. Technique of Vocational Instruction.

Mr. ANDERSON

Outline of instructional and administrative problems involved in the actual teaching of a trade; methods of teaching and demonstration teaching; related problems and suggested solutions. 2 units.

M Tu W Th F, 10.

363A. Organization and Management of Instruction.

Mr. MCGAW

The organization and management of shop instruction; shop layout, tool-room procedures and management; shop class techniques and safety precautions. 2 units.

M Tu W Th F, 9.

367. Civic and Employment Relations.

Mr. KRAMER

Of value to teachers of applied subjects in creating a sound and fundamental attitude of mind toward citizenship and industrial relations on the part of potential workers. 2 units.

M Tu W Th F, 10.

*Courses in Distributive Education***161D. Introduction to Distributive Education.**

Mr. BLOWERS

Philosophy and objectives of distributive education; problems of organization. The plan of training; types of classes; personnel of groups; business and employee relationships. Admission on consultation with the instructors. 2 units.

M Tu W Th F, 9.

161T. Techniques and Materials in Distributive Education. Mr. BLOWERS

A study of methods and content used in teaching classes in distributive education. Techniques of analysis for building course content; lesson plans; techniques of presentation. Admission on consultation with the instructors. 2 units.

M Tu W Th F, 11.

162wst. Workshop in Sales Training.

Mr. ERNEST

A study of the objectives of salesmanship classes in the merchandising curriculum. New developments and current practices in sales training. Lesson plans; assigned problems and reports. Open to teachers of salesmanship and merchandising subjects, and prospective teachers. 2 units.

M Tu W Th F, 10.

The Demonstration Schools**ELEMENTARY****ORGANIZATION AND AIMS**

The Demonstration Elementary School will be open daily Monday through Friday during the First Summer Session, June 21 to July 30, from 9 A.M. to 12 M. Work will be offered in each grade from the kindergarten through the sixth with a special nongraded group for primary children and a remedial

reading group of eighteen children. Through the courtesy of the Berkeley Board of Education and the Superintendent of Schools, the Demonstration School will be housed in the Whittier-University Elementary School, a short distance from the campus on Virginia and Milvia Streets. Rooms will be open daily for observation by Summer Session students, especially those enrolled in courses in elementary education. Persons not enrolled in the Summer Session may visit the school upon payment of the auditor's fee of fifty cents for each visit.

The school will provide daily practical demonstration of modern elementary school procedures. Visitors will be able to observe practices which provide children with opportunities for optimum growth and development through learnings organized in terms of experiences.

THE PUPILS

Enrollment of children in the Demonstration School should be made by advance application to insure acceptance, since each class will be limited to thirty pupils. Enrollment in kindergarten will be limited to twenty-five students. Application for enrollment should be made to the Office of the Demonstration Elementary School, 307 Haviland Hall, University of California, Berkeley 4, California. The fee is \$15 for the six weeks' session, \$5 of which is payable at the time the application is made. The fee for the special class in remedial reading is \$30, \$10 of which is payable at the time the application is made. The balance of the fee will be paid on registration day, June 21, from 9 A.M. to 12 M. at the Demonstration School. Checks should be made payable to The Regents of the University of California.

SUPERVISED PLAYGROUND

Children may remain on the school playground in the afternoon under the direction of the supervisor provided by the Berkeley Recreation Department.

SECONDARY

ORGANIZATION

Through the courtesy of the Oakland Board of Education and the Superintendent of Schools, Technical High School will be open during the Summer Sessions from 7:50 A.M. to 2:30 P.M., five days a week for a period of eight weeks, June 21 to August 13. In all subjects, the work in grades 9 to 12 will be given, with additional offerings for pupils in the lower grades in art and music. The school is situated at Broadway and Forty-third street, in Oakland. Transportation is available on the No. 6 bus. Classes will be open daily for observation and for supervised teaching by students enrolled in Education S320A, S320E, and S323, or in other courses in education. Persons not enrolled in the Summer Sessions may visit the school upon payment of the auditor's fee of fifty cents for each visit.

THE PUPILS

High school students will be received from any school district, but it is advisable to arrange with the home school before entrance if credit for high school graduation is desired. Students may obtain semester credit for not more than four subjects. In addition to the usual academic courses, arts and crafts, manual arts, household arts, and vocal and instrumental music will be offered. Most of these activity subjects are open to teachers and to other adults.

Enrollment should be made by advance application to the Principal, Mr. Robert E. Brownlee, 304 Haviland Hall, University of California, Berkeley 4, California. Students may register and pay fees at Technical High School on Friday, June 18, from 8 A.M. to 4 P.M. and on Saturday, June 19, from 8 A.M. to 12 M. The fee is \$10 a course for the eight weeks' session. This fee must be paid on registration day. Checks should be made payable to The Regents of the University of California.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S106. Theory of Education.

Mr. THOMAS

A study of certain types of educational philosophy, such as humanism, naturalism, and instrumentalism, and of the aims of education in their relation to social ethics and social change. 2 units.

M W, 4-6.

S107. Education and Its Relations to Social Thought and Social Organization.

Mr. THOMAS

The influence of economic conditions and political movements, of social prejudice and social reform on education, with illustrations from the social history of democratic countries during the nineteenth and twentieth centuries. 2 units.

M W, 7-9 p.m.

S110. Introduction to Educational Psychology.

Mr. KEISLAR

Original nature and tendencies of man; the learning process; individual differences and their measurement. 2 units.

M Tu W Th F, 3.

S111. Growth and Development of Children.

Mr. THORPE

The processes through which the normal human being reaches maturity, acquires effective use of his bodily equipment and learning capacity, and makes satisfactory personal and social adjustments. Directed observation of normal children. Prerequisite: Education 110 or Psychology 2. 2 units.

M Tu W Th F, 11.

112. The Improvement of Reading.

Mr. LAYCOCK

Methods of analysis and correction of reading difficulties in the elementary school; individual and group techniques for use in remedial and regular classrooms; effective reading readiness program; development of word meaning, recognition, and analysis; improvement of comprehension and recall; skimming and speeded reading; study skills and higher mental processes; provision for individual differences in abilities and interests; the place of skills in a modern reading program. 2 units.

M Tu W Th F, 10.

S113. Individual Tests in Guidance.

Mr. LAYCOCK

The selection, administration, and interpretation of tests of intelligence, aptitude, and personality adjustments of value in diagnosis and counseling. Prerequisite: 6 units in psychology or educational psychology. 2 units.

Tu Th, 4-6.

S114. Statistical Methods in Education.

Mr. M. M. SMITH

The use of statistical techniques in educational research and interpreting the results of measurement. Prerequisite: Education 110. Mathematics 1 is also recommended. 2 units.

Tu Th, 7-9 p.m.

S116. The Exceptional Child.

Mr. THORPE

The intellectually superior and mentally inferior child, the physically handicapped, and the delinquent, with educational and sociological applications. 2 units.

M Tu W Th F, 9.

S119. Standard Tests in Education.

Mr. M. M. SMITH

A critical survey and evaluation of standard tests, including achievement and psychological tests available for school purposes; practice in giving and scoring tests, and interpreting results for the improvement of instruction; organization of a testing program. 3 units.

M W, 7-9 p.m.; laboratory, to be arranged.

128. The Psychology of the Slow Learner.

Mr. CAIN

The nature of mentally handicapped children including a study of maturation, principles of learning, personal-social needs, emotional adjustment, and individual differences. This course may be counted toward the special credential for working with mentally retarded children. Prerequisite: teaching experience. 2 units.

M W, 4-6.

S130. Elementary Education.

Mr. M. LITTLE

The aim, function, work, and attainable goals of the elementary school, as a basic part of the American system of education; its relations with the other schools of the American series and the community. 2 units.

M Tu W Th F, 2.

S138. Social Studies in the Elementary School.

Mr. M. LITTLE

Aims, content, and outcomes; unified social studies *vs.* separate courses; critical analysis of typical units and courses of study; selection, sequence, and organization of units; the place of textbooks and supplementary materials; relation to the three R's, the arts, and elementary sciences. 2 units.

M Tu W Th F, 3.

S142. The Administration of State School Systems.

Mr. FORD

The organization and administration of state school systems with special reference to the interrelation of federal, state, and county support and organization. 2 units.

M W, 7-9 p.m.

S145. Problems in Public School Finance and Business Administration.

Mr. FORD

Methods and problems of financing public education, including a study of the principles of public school business administration, preferred practice, and procedure. Prerequisite: Education 140 or 141 and 142 and teaching experience. 2 units.

Tu Th, 4-6.

S170. Secondary Education.

Mr. SPEARS

Functions, scope, objectives, and curricula, including the fields of the high school and junior college in relation to individual and social needs. Prerequisite: Education 101 or 102, and 110. Ordinarily juniors will not be admitted to this course. 2 units.

M Tu W Th F, 10.

S210A. Advanced Educational Psychology.

Mr. KEISLAR

A systematic treatment of the literature on (1) individual differences in mental abilities, (2) the inheritance of mental traits, (3) the psychology of learning. Prerequisite: course 110. 2 units.

M W, 7-9 p.m.

S235. The Elementary School Curriculum.

Mr. STEWART

Principles and procedures in curriculum making for the elementary school. Admission only on consultation with instructor. 2 units.

M W, 4-6.

S240B. Educational Administration. Seminar.

Mr. HART

Limited to candidates for the master's or doctor's degrees, whose special interest is administration. Admission on consultation with instructor. 2 units.

M W, 7-9 p.m.

S248B. Educational Administration.

Mr. HART

Intended to serve the fundamental needs of state, county, and city superintendents or other school administrative officers. The basic material of study will be the school surveys, superintendents' reports, and contributions to education in the field of administration. Prerequisite: 12 units of education or extensive teaching and administrative experience. 2 units.

M W, 4-6.

S298. Directed Research.

The STAFF (Mr. HART in charge)

2-4 units.

To be arranged.

NOTE.—Courses in other departments of special interest to teachers: Anatomy 100; Art S169; Classics S172; Decorative Art S195B; Dramatic Art S407, Section 2; courses in the Department of English; French S9A-S9B; Geography S5A, S123B, S125B; Italian S151A; Journalism S140; Mathematics 108; Philosophy S136C; courses in Physical Education; Public Speaking 112.

(COURSES OFFERED AT DAVIS

(June 21 to July 31, 1948)

Education S160. Introduction to Vocational Education. Mr. SUTHERLAND
2 units.

Education S161. Problems in Vocational Education. Mr. SUTHERLAND
2 units.

Education S198. Directed Group Study in Agricultural Education. Mr. SUTHERLAND
2 units.

*Summer Sessions, 1948**(July 19 to August 27, 1948*)***Education S199. Special Study for Advanced Undergraduates.**

1-5 units.

Mr. SUTHERLAND

Education S260. Vocational Education Seminar.

2 units.

Mr. GRIFFIN, Mr. SUTHERLAND

* Persons who wish to take one or more courses during this period should consult Mr. S. S. Sutherland several weeks in advance of the opening of the course.

ENGINEERING

- CLINTON J. ANCKER, JR., B.S.,** Instructor in Engineering Design.
- CYRIL P. ATKINSON, B.S.,** Lecturer in Engineering Design.
- ROBERT S. BERGER, B.S.,** Assistant in Mechanical Engineering in the Summer Sessions.
- FRANCIS R. BICHOWSKY, Ph.D.,** Lecturer in Mechanical Engineering.
- ROBERT A. BRUNS, M.S.,** Lecturer in Electrical Engineering.
- MAURICE A. BUCKLEY, Ph.D.,** Assistant Professor of Engineering, San Jose State College.
- NED P. CLYDE, M.S.,** Instructor in Civil Engineering.
- ISRAEL I. CORNET, Ph.D.,** Assistant Professor of Mechanical Engineering.
- CHARLES F. DALZIEL, E.E.,** Associate Professor of Electrical Engineering.
- GEORGE E. DAVIS, M.A.,** Lecturer in Engineering Design.
- LOUIS E. DAVIS, M.S.,** Assistant Professor of Mechanical Engineering.
- E. PAUL DE GARMO, M.S.,** Associate Professor of Mechanical Engineering.
- ROBERT W. DOWNING, B.S.,** Lecturer in Electrical Engineering.
- ROBERT M. DRAKE, JR., M.S.,** Instructor in Mechanical Engineering.
- LEONARD FARBAR, M.S.,** Lecturer in Mechanical Engineering.
- FRANCIS S. FOOTÉ, E.M.,** Professor of Railroad Engineering.
- JOSEPH FRISCH, B.S.,** Lecturer in Engineering Design.
- ROSTISLAV A. GALUZEVSKI, M.S.,** Instructor in Mechanical Engineering.
- CLYNE F. GARLAND, M.S.,** Associate Professor of Engineering Design and Chairman of the Division.
- WERNER GOLDSMITH, M.S.,** Instructor in Engineering Design.
- RAYMOND C. GRASSI, M.S.,** Assistant Professor of Mechanical Engineering.
- TROY D. GRAYBEAL, D.Eng.,** Assistant Professor of Electrical Engineering.
- ROBERT L. GREEN, B.S.,** Lecturer in Civil Engineering.
- LAWRENCE M. GROSSMAN, M.S.,** Lecturer in Mechanical Engineering.
- LEWIS D. HALL, B.S.,** Assistant in Mineral Technology in the Summer Sessions.
- FRANK M. HAMAKER, M.S.,** Lecturer in Engineering Design.
- JOHN W. HARMAN, M.S.,** Instructor in Engineering Design.
- HENRY E. HARRIS, M.S.,** Lecturer in Engineering Design.
- KARL HINRICHS, M.S.,** Lecturer in Electrical Engineering.
- FRED HIRSCH, M.M.E.,** Assistant Professor of Engineering Design.
- WILLIAM R. HOLMAN, M.S.,** Assistant in Mineral Technology in the Summer Sessions.
- FREDERICK L. HOTES, B.S.,** Lecturer in Civil Engineering.
- WILLIAM W. HOWE, A.B., Eng.,** Lecturer in Engineering Design.
- RALPH R. HULTGREN, Ph.D.,** Associate Professor of Physical Metallurgy.

- DANIEL O. KLUTE, B.S., Lecturer in Mechanical Engineering.
 WOLFGANG H. KUMMER, B.S., Assistant in Electrical Engineering.
 JAMES T. LAPSLEY, M.S., Assistant Professor of Mechanical Engineering.
 W. ROSS LAURENSEN, B.S., Lecturer in Mechanical Engineering.
 RICHARD W. LEUTWILER, M.S., Assistant Professor of Engineering Design.
 ALEXANDER S. LEVENS, M.S., C.E., Associate Professor of Engineering Design.
 TUNG-YEN LIN, M.S., Assistant Professor of Civil Engineering.
 GEORGE D. MEIXNER, B.S., Lecturer in Civil Engineering.
 JAMES L. MERIAM, Ph.D., Assistant Professor of Engineering Design.
 DARREL J. MONSON, B.S., Lecturer in Electrical Engineering.
 CARL W. NELSON, Ph.D., Assistant Professor of Engineering Design.
 PRENTISS C. NELSON, M.S., Assistant Professor of Mechanical Engineering.
 ARNOLD OLITT, B.S., Lecturer in Civil Engineering.
 DAVID PIRTZ, B.S., Lecturer in Civil Engineering.
 MILTON J. POLISSAR, Ph.D., Instructor in the City College of San Francisco.
 MILOS POLIVKA, M.S., Lecturer in Civil Engineering.
 WILSON S. PRITCHETT, M.S., Lecturer in Electrical Engineering.
 LESTER E. REUKEMA, Ph.D., Professor of Electrical Engineering.
 BURTIS L. ROBERTSON, Ph.D., Professor of Electrical Engineering.
 ROBERT M. SAUNDERS, M.S., Lecturer in Electrical Engineering.
 JAY SCHEINMAN, B.Eng., Lecturer in Engineering Design.
 RALPH A. SEBAN, M.S., Lecturer in Mechanical Engineering.
 WINFIELD W. SISSON, B.S., Lecturer in Engineering Design.
 OTTO J. M. SMITH, Ph.D., Lecturer in Electrical Engineering.
 NATHAN W. SNYDER, M.S., Assistant Professor of Mechanical Engineering.
 GEORGE K. TAJIMA, A.B., Assistant in Electrical Engineering.
 GEORGE F. TEALE, B.S., Lecturer in Electrical Engineering.
 FRANKLIN W. THOMPSON, M.S., Lecturer in Engineering Design.
 ERICH G. THOMSEN, Ph.D., Assistant Professor of Mechanical Engineering.
 GEORGE E. TROXELL, B.S., Professor of Civil Engineering.
 BERNARD A. VALLERGA, B.S., Lecturer in Civil Engineering.
 CARL J. VOGT, M.S., Professor of Mechanical Engineering and Chairman of the Division.
 NORMAN S. WANER, M.S., Instructor in Engineering Design.
 RICHARD J. WOODWARD, JR., B.S., Lecturer in Civil Engineering.

To be eligible for enrollment in engineering courses, engineering students must either be in good standing or must have formally applied for admission to engineering and have taken the appropriate qualifying examination. For nonengineering students, the course must be regularly prescribed in the student's curriculum.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Engineering

- S1A. Plane Surveying.** Mr. POLIVKA, Mr. VALLERGA
Principles; field practice; calculations and mapping. Prerequisite: plane trigonometry and one high school unit in mechanical drawing. Fee \$6. 3 units.
Lectures, M Tu W Th F, 9.
Field, section 1, M W, 1-4; section 2, Tu F, 1-4.
- S1B. Plane Surveying.** Mr. CLYDE
Principles; field practice; calculations and mapping. Prerequisite: Engineering 1A. Fee \$6. 3 units.
Lectures, M Tu W Th F, 8.
Field, Tu Th, 1-4.
- S22. Engineering Drawing.** Mr. THOMPSON, Mr. HOWE
Geometric constructions; freehand pictorials; theory of orthogonal projection; simple auxiliaries; sectioning, fasteners; dimensioning; simple working drawings. Prerequisite: plane geometry, trigonometry, and mechanical drawing. Fee \$2.50. 2 units.
Lectures and drafting, M Tu W Th F, section 1, 10-1; section 2, 10-1.
- S23. Descriptive Geometry.** Mr. LEVENS in charge
The fundamental principles of descriptive geometry and their applications to the solution of three-dimensional problems arising in the various branches of engineering. Prerequisite: course 22 and Mathematics 3A or 3 (may be taken concurrently). Fee \$2.50. 2 units.
Lectures, M W, 1-2:30.
Drafting, sections 1, 2, 3, 4, M W, 2:40-5:30 and Tu Th, 1-4.
- S24. Advanced Engineering Drawing.** Mr. SCHEINMAN, Mr. KLUTE
Working drawings of machine parts; freehand sketching; structural detailing; piping layouts; and introduction to graphic integration and differentiation. Prerequisite: course 23. Fee \$2.50. 2 units.
Lectures, Tu Th, 1-2:30.
Drafting, sections 1, 2, M W, 1-4 and Tu Th, 2:40-5:30.
- S35. Engineering Statics.** Mr. MERIAM, Mr. FRISCH, Mr. ANCKER, Mr. KLUTE
Force systems and equilibrium conditions as applied to engineering problems. Includes some graphical methods and the use of diagrams as an aid to algebraic solutions. Prerequisite: Physics 4A, Mathematics 4A and 4B (Mathematics 4B may be taken concurrently). 3 units.
M Tu W Th F, section 1, 8-9:30; section 2, 9:40-11; section 3, 11-12:30.
- S40. Elementary Metallurgy.** Mr. HULTGREN in charge
An elementary course for mechanical engineers describing the relationships between microstructure, composition, heat and mechanical treatment, and physical properties of metals and alloys. Heat treatment of steel and non-ferrous metals, production of steel, aluminium, and magnesium. Description of many engineering alloys. Prerequisite: Chemistry 1A, Physics 1A-1B or Physics 4A and 4B or 4 C (may be taken concurrently). Not open to metallurgy.

majors. Students specializing in metallurgy should take Chemistry 1B and Metallurgy 150A instead of this course. Fee \$4. 3 units.

Lectures, M Tu W Th F, 11.

Demonstrations, section 1, M W, 1-3; section 2, M W, 3-5; section 3, Tu Th, 1-3; section 4, Tu Th, 3-5.

S41. Manufacturing Processes.

Mr. GRASSI in charge

Nonmetals; casting processes; gaging; metal cutting; general purpose and production type machine tools; tooling; jigs and fixtures; hot and cold forming; grinding; protective and decorative surface treatments; gas and electric welding; relation of design to production. Prerequisite: courses 23 and 40; Chemistry 1A; Physics 4A. Fee \$10. 4 units.

Lectures, M Tu W Th F, 8.

Demonstrations, section 1, M W, 9-11:30; section 2, M W, 1-3:30; section 3 Tu Th, 9-11:30; section 4, Tu Th, 1-3:30.

Laboratory, section 1, Tu Th, 9-12; section 2, Tu Th, 1-4; section 3, W F, 9-12; section 4, W F, 1-4.

Refresher in Engineering Mathematics.*

Mr. POLISSAR

Solutions of equations; series; analytic geometry and calculus. Not for credit.

M Tu W Th F, 8-9:30.

Civil Engineering

S108A. Strength of Materials.

Mr. TROXELL, Mr. OLITT

Stress, strain, and elasticity; thin shells; welded and riveted joints; shafts and helical springs; statically determinate beams—reactions, shear, moment, flexural stress, shearing stress, deflection, design, unsymmetrical loading; bending and direct stress; columns—theory, design of steel and wood columns; combined stresses. Prerequisite: Mathematics 4A-4B, Physics 1C-1D or 4B-4C, Engineering 35 or Mechanical Engineering 102A (may be taken concurrently). 3 units.

M Tu W Th F, section 1, 8-9:30; section 2, 11-12:30.

S108B. Strength of Materials.

Mr. VALLERGA

Restrained and continuous beams; elastic energy; virtual work; stresses due to impact loads; elements of curved beams, flat plates, and thick-walled cylinders; shear center; beams of two materials; elements of reinforced concrete analysis and design. Prerequisite: Civil Engineering 108A. 2 units.

M Tu W Th F, 10.

S108C. Civil Engineering Laboratory.

Mr. VALLERGA, Mr. CLYDE

Physical tests of brick, concrete, iron, steel, and wood. Prerequisite: Engineering 8 and Civil Engineering 108A-108B. Fee \$11.50. 1 unit.

M W, 1-4.

S108F. Civil Engineering Laboratory.

Mr. OLITT, Mr. POLIVKA

Physical tests of brick, cement, mortar, concrete, steel, iron, and wood. For students in electrical and mechanical engineering, mineral technology, and architecture. Prerequisites (may be taken concurrently): for electrical and mechanical engineering and mineral technology, course 108A and Engineering 8 or 10A; for architecture, Engineering 18A. Fee \$11.50. 1 unit.

Tu Th, 1-4.

* To be offered only if advance enrollment of at least 12 students is obtained.

Electrical Engineering**S100A. Electrical Circuits and Machinery.**

Mr. ROBERTSON

Voltage generation; circuit constants; single-phase and polyphase circuit analysis; single-phase transformers; polyphase connections of transformers. Required for students in mechanical engineering. Prerequisite: Mathematics 14A or 4A. 3 units.

M Tu W Th F, 8-9:30.

S101. Electrical Engineering.

Mr. HINRICHS

Electric power generation, transmission, distribution, and utilization. Open to engineering students not registered in electrical or mechanical engineering. Prerequisite: Mathematics 4A, Physics 1c or Physics 4B. 3 units.

M Tu W Th F, 8-9:30.

S104A. Electrical Laboratory.

Mr. ROBERTSON in charge

Introductory experiments illustrating principles of design and operation of alternating and direct-current motors and generators, transformers, vacuum tubes, single and polyphase circuits, metering and control equipment. Prerequisite: course 100A-100B or 110A-110B which may be taken concurrently. Fee \$11.50. 1 unit.

Laboratory, sections 1 and 2, M Th, 9:40-12:30; sections 3 and 4, M Th, 1-4; sections 5 and 6, Tu F, 9:40-12:30; sections 7 and 8, Tu F, 1-4; sections 9 and 10, W, 1-4, S, 9-12.

S105. Electrical Measurements in Engineering. Mr. PRITCHETT in charge

Electrical measurements using direct current and low-frequency alternating current. Principles and characteristics of indicating and recording instruments, including oscillographs; potentiometer, bridge, and comparison methods; applications of these in the measurement of temperature, pressure, strain, etc., in various fields of engineering. Prerequisite (may be taken concurrently): course 100A, or 101, or 110A. Fee \$11.50. 3 units.

Lectures, M Tu W Th F, 10-11:30.

Laboratory, section 1, M Th, 1-4; section 2, Tu F, 1-4; section 3, W, 1-4, S, 9-12.

S110A. Electrical Circuits and Machinery.

Mr. MONSON

Alternating-current circuits. Required for students in electrical engineering. Prerequisite: Mathematics 14A or 4A-4B; Physics 1c, or Physics 4B. 3 units.

M Tu W Th F, 8-9:30.

S111A. Advanced Electrical Machinery.

Mr. SAUNDERS

Construction, theory of operation, and performance characteristics. Prerequisite: courses 104A-104B, 110A-110B; Mechanical Engineering 102A-102B. 3 units.

M Tu W Th F, 10-11:30.

S116A. Engineering Electronics and Radio Engineering. Mr. REUKEMA

Design and operating characteristics of radio transmitters and receivers for both amplitude and frequency modulation, of television transmitters and receivers, and of public address systems. Prerequisite: course 106 and senior standing in electrical or mechanical engineering. 3 units.

M Tu W Th F, 8:40-10.

S126. Industrial Electronics.

Mr. BRUNS in charge

A survey of some important applications of electronic devices in industry with particular emphasis on grid-controlled rectifiers, electronic heating, ignitron control of electric welding and special electronic methods of testing, measurement, and control. Prerequisite: course 106. Fee \$11.50. 4 units.

Lectures, M Tu W Th F, 8-9:30.

Laboratory, section 1, M Th, 1-4; section 2, Tu F, 1-4.

S132A. Electrical Communications Laboratory.

Mr. REUKEMA in charge

Experiments illustrating the fundamental principles involved in the operation of communication circuits and electronic devices. Particular considerations are given to the special methods of measurement and technique, which must be employed at high frequencies. Prerequisite: courses 104A-104B, 110A-110B completed; and 116A, which may be taken concurrently with 132A. Fee \$17.50. 2 units.

Laboratory, section 1, M Th, 1-5; section 2, Tu F, 1-5; section 3, W, 1-5, S, 8-12.

S133. Electrical Machinery Laboratory.

Mr. SAUNDERS in charge

Selected experiments on direct- and alternating-current machinery, designed to illustrate fundamental principles, applications, and recent developments in electric power machinery. Prerequisite: courses 104A-104B, 110A-110B completed; and 111A, which may be taken concurrently. Fee \$17.50. 2 units.

Laboratory, section 1, M Th, 1-5; section 2, Tu F, 1-5; section 3, W, 1-5, S, 8-12.

Mechanical Engineering**S102B. Kinematics and Dynamics.**

Mr. LEUTWILER, Mr. CORNET

Kinematics and dynamics of a particle and of rigid bodies with emphasis on engineering applications. The force, momentum, and energy methods of solution are utilized. Prerequisite: Mathematics 4A-4B; Physics 4A, course 102A or Engineering 35. 3 units.

M Tu W Th F, section 1, 8-9:30; section 2, 10-11:30.

S105A. Thermodynamics.

Mr. VOGT, Mr. FARBAR

Energy transformations, reversibility, thermodynamic properties of gases and vapors, theoretical and actual heat-power engine cycles other than steam. Prerequisite: junior standing in an engineering program of study. 3 units.

M Tu W Th F, section 1, 8-9:30; section 2, 9:40-11.

S105B. Thermodynamics.

Mr. SEBAN, Mr. GROSSMAN

Heat transmission; fuels and combustion; actual heat-power equipment and the theoretical and practical engine cycles using steam; reheat regenerative and complex steam cycles; valves, valve gear, and steam distribution; heat-power engine performance. Prerequisite: course 105A. 3 units.

M Tu W Th F, section 1, 8-9:30; section 2, 9:40-11.

S106. Machine Design.

Mr. LEUTWILER, Mr. GOLDSMITH

Application of the principles of mechanics, physical properties of materials, and shop processes to the design of machine parts. Empirical and rational methods are employed. Lectures and problems. Prerequisite: course 102B and Civil Engineering 108A. 4 units.

M Tu W Th F, lectures, 11; laboratory, 1-4.

S106A. Machine Design.

Mr. GARLAND, Mr. WANER

Application of principles of mechanics, physical properties of materials, and shop processes to the design of machine parts. Lectures and problems. Prerequisite: course 102A or Engineering 35; course 102B; Civil Engineering 108A and 108B. 3 units.

Lectures, M Tu W Th F, 11.

Laboratory, sections 1 and 2, Tu Th, 8-11.

S113. The Engineer and His Professional Development. Mr. LAURENSEN

Oral and written reports on various subjects pertinent to the professional relationships, duties, and ethics of the engineer. Prerequisite: senior standing in the mechanical or industrial engineering programs of study. 2 units.

M Tu W Th F, section 1, 8; section 2, 10.

S120. Principles of Engineering Investment and Economy. Mr. DE GARMO

Derivation of formulas used in the theory of investment; economy studies applied to original and alternative investments in engineering enterprise; replacement problems; relation of personnel and quality control factors to engineering economy; economy studies of governmental projects. Prerequisite: senior standing in an engineering program of study. 3 units.

M Tu W Th F, 8-9:30.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Engineering

S1A. Plane Surveying

Mr. MEIXNER

Principles; field practice; calculations and mapping. Prerequisite: plane trigonometry and one high school unit in mechanical drawing. Fee \$6. 3 units.

Lectures, M Tu W Th F, 10.

Field, Tu Th, 1-4.

S1B. Plane Surveying.

Mr. FOOTE, Mr. GREEN

Principles; field practice; calculations and mapping. Prerequisite: Engineering 1A. Fee \$6. 3 units.

Lectures, M Tu W Th F, 9.

Field, M W, 1-4.

S18A. Strength of Materials.

Mr. WOODWARD

Elementary analytic mechanics; application of statics and theory of elasticity to elements of structural design. For students in architecture. Prerequisite: Mathematics 4A, Physics 2A and 3A or 4A. 3 units.

M Tu W Th F, 8-9:30.

S22. Engineering Drawing.

Mr. SISSON

Geometric constructions; freehand pictorials; theory of orthogonal projection; simple auxiliaries; sectioning, fasteners, dimensioning; simple working drawings. Prerequisite: plane geometry, trigonometry, and mechanical drawing. Fee \$2.50. 2 units.

M Tu W Th F, 10-1.

S23. Descriptive Geometry.

Mr. HARMAN in charge

The fundamental principles of descriptive geometry and their applications to the solution of three-dimensional problems arising in the various branches

of engineering. Prerequisite: course 22 and Mathematics 3A or 3 (may be taken concurrently). Fee \$2.50. 2 units.

Lectures, M W, 1-2:30.

Laboratory, sections 1, 2, M W, 2:40-5:30 and Tu Th, 1-4.

S24. Advanced Engineering Drawing.

Mr. ATKINSON

Working drawings of machine parts; freehand sketching; structural detailing; piping layouts; and introduction to graphic integration and differentiation. Prerequisite: course 23. Fee \$2.50. 2 units.

Lectures, Tu Th, 1-2:30.

Laboratory, M W, 1-4 and Tu Th, 2:40-5:30.

S35. Engineering Statics.

Mr. DRAKE

Force systems and equilibrium conditions as applied to engineering problems. Includes some graphical methods and the use of diagrams as an aid to algebraic solutions. Prerequisite: Physics 4A, Mathematics 4A and 4B (Mathematics 4B may be taken concurrently). 3 units.

M Tu W Th F, 8-9:30.

Civil Engineering

S102A. Route Surveying.

Mr. FOOTE, Mr. WOODWARD

Simple, compound, and transition curves; reconnaissance, preliminary, and location surveys; calculations of earthwork and other quantities; field work. Prerequisite: Engineering 1A-1B. Fee \$6. 3 units.

Lectures, M Tu W Th F, 11.

Field, M W, 1-4.

S107A. Framed Structures.

Mr. LIN

For students in engineering who have completed courses 108A and Engineering 35 or Mechanical Engineering 102A.

Computation of stresses in roofs, building frames, and simple bridge trusses, by algebraic and graphical methods. 3 units.

Lectures, M Tu W Th F, 11.

Drafting, Tu Th, 1-4.

S108A. Strength of Materials.

Mr. PIRTZ, Mr. BUCKLEY

Stress, strain, and elasticity; thin shells; welded and riveted joints; shafts and helical springs; statically determinate beams—reactions, shear, moment, flexural stress, shearing stress, deflection, design, unsymmetrical loading; bending and direct stress; columns—theory, design of steel and wood columns; combined stresses. Prerequisite: Mathematics 4A-4B, Physics 1C-1D or 4B-4C, Engineering 35 or Mechanical Engineering 102A (may be taken concurrently). 3 units.

M Tu W Th F, section 1, 10-11:30; section 2, 8-9:30.

S108B. Strength of Materials.

Mr. GREEN, Mr. HOTES

Restrained and continuous beams; elastic energy; virtual work; stresses due to impact loads; elements of curved beams, flat plates and thick-walled cylinders; shear center; beams of two materials; elements of reinforced concrete analysis and design. Prerequisite: Civil Engineering 108A. 2 units.

M Tu W Th F, section 1, 8; section 2, 10.

* To be offered only if advance enrollment of at least 12 students is obtained.

S108E. Concrete Laboratory.

Mr. HOTES

Physical tests of cement, aggregates, and concrete; proportioning of concrete mixtures. Prerequisite: Engineering 8 and satisfactory standing in course 108A-108B. Fee \$11.50. 2 units.

M W, 1-4.

S108F. Civil Engineering Laboratory.

Mr. LIN, Mr. MELXNER, Mr. PIRTZ, Mr. GREEN

Physical tests of brick, cement, mortar, concrete, steel, iron, and wood. For students in electrical and mechanical engineering, mineral technology, and architecture. Prerequisites (may be taken concurrently): for electrical and mechanical engineering and mineral technology, course 108A and Engineering 8 or 10A; for architecture, Engineering 18A. Fee \$11.50. 1 unit.

Section 1, W F, 1-4; section 2, Tu Th, 1-4.

Electrical Engineering**S100B. Electrical Circuits and Machinery.**

Mr. TEALE

Machine windings and induced voltages; synchronous, induction, direct-current, and single-phase machines; rectification; electronic tubes and their associated circuits; practical engineering problems. Required for students in mechanical engineering. Prerequisite: course 100A. 3 units.

M Tu W Th F, 8-9:30.

S104B. Electrical Laboratory.

Mr. TEALE in charge

Introductory experiments illustrating principles of design and operation of alternating and direct-current motors and generators, transformers, vacuum tubes, single and polyphase circuits, metering and control equipment. Prerequisite: course 104A, and 100B or 110B which may be taken concurrently. Fee \$11.50. 1 unit.

Sections 1 and 2, M Th, 9:40-12:30; sections 3 and 4, M Th, 1-4; sections 5 and 6, Tu F, 9:40-12:30; sections 7 and 8, Tu F, 1-4; sections 9 and 10, W, 1-4, S, 9-12.

S106. Basic Electronics.

Mr. KUMMER

Electron emission; motion of charges in electromagnetic fields; electrical conduction in vacuum and through gases; electron tubes, high-vacuum and gas-filled; elementary applications of electronic devices in rectifiers and amplifiers. Prerequisite: course 100A, or 101, or 110A; 105 is recommended. Fee \$11.50. 4 units.

Lectures, M Tu W Th F, 10-11:30.

Laboratory, section 1, M Th, 1-4; section 2, Tu F, 1-4.

S110B. Electrical Circuits and Machinery.

Mr. SMITH

Single-phase transformers, polyphase transformations, polyphase induction motors. Required for students in electrical engineering. Prerequisite: course 110A. 3 units.

M Tu W Th F, 8-9:30.

S132A. Electrical Communications Laboratory.

Mr. TAJIMA

Experiments illustrating the fundamental principles involved in the operation of communication circuits and electronic devices. Particular considerations are given to the special methods of measurement, and technique, which must be employed at high frequencies. Prerequisite: courses 104A-104B, 110A-110B completed; and 116A, which may be taken concurrently. Fee \$17.50. 2 units.

Section 1, M Th, 1-5; section 2, Tu F, 1-5; section 3, W, 1-5, S, 8-12.

S133. Electrical Machinery Laboratory. Mr. DOWNING in charge
Selected experiments on direct- and alternating-current machinery, designed to illustrate fundamental principles, applications, and recent developments in electric power machinery. Prerequisite: courses 104A-104B, 110A-110B completed; and 111A, which may be taken concurrently. Fee \$17.50. 2 units.

Section 1, M Th, 1-5; section 2, Tu F, 1-5; section 3, W, 1-5, S, 8-12.

S135. Control of Electric Motors. Mr. GRAYBEAL
Design, construction, and operation of motor control equipment, electromagnets and relays, mechanism of arc extinction in breakers, wiring diagrams, electronic control devices, controllers for reversing and adjustable-speed motors, and other electrical machinery. Prerequisite: courses 110A-110B or 100A-100B, and 104A-104B. 3 units.

M Tu W Th F, 8-9:30.

S197. Hydroelectric Inspection. Mr. DALZIEL
Lectures; three-week inspection trip to selected hydroelectric plants in California; reports. Fee \$50. 4 units.
Hours to be arranged.

Mechanical Engineering

S102B. Kinematics and Dynamics. Mr. HIRSCH
Kinematics and dynamics of a particle and of rigid bodies with emphasis on engineering applications. The force, momentum, and energy methods of solution are utilized. Prerequisite: Mathematics 4A-4B; Physics 4A; Engineering 35 or Mechanical Engineering 102A. 3 units.

M Tu W Th F, 9:40-11.

S103. Elementary Fluid Mechanics. Mr. SNYDER
The principles of mechanics applied to the flow of compressible and incompressible fluids. Includes the hydraulic problems of flow in closed and open conduits. Prerequisite: course 102B. 3 units.

M Tu W Th F, 8-9:30.

S105B. Thermodynamics. Mr. P. C. NELSON
Heat transmission; fuels and combustion; actual heat power equipment and the theoretical and practical engine cycles using steam; reheat regenerative and complex steam cycles; valves, valve gear, and steam distribution; heat power engine performance. Prerequisite: course 105A. 3 units.

M Tu W Th F, 11-12:30.

S106A. Machine Design. Mr. C. W. NELSON
Application of principles of mechanics, physical properties of materials, and shop processes to the design of machine parts. Lectures and problems. Prerequisite: course 102A or Engineering 35; course 102B; Civil Engineering 108A and 108B. 3 units.

Lectures, M Tu W Th F, 8.

Laboratory, Tu Th, 9-12.

S113. The Engineer and His Professional Duties. Mr. BICHOWSKY
Oral and written reports on various subjects pertinent to the professional relationships, duties, and ethics of the engineer. Prerequisite: senior standing in the mechanical or industrial engineering programs of study. 2 units.

M Tu W Th F, 8.

S143. Time and Motion Study.

Mr. L. E. DAVIS

Laws of motion economy; study of hand motions and their simplification through the use of process charts, micromotion analysis, and work-place design; theory and practice of time study, rating of worker performance, rate setting and wage payment. Prerequisite: senior standing in an engineering program of study or in the School of Business Administration. Fee \$3. 3 units.

Lectures, M Tu W Th F, 11.

Laboratory, to be arranged.

ENGLISH

HERSCHEL C. BAKER, Ph.D., Assistant Professor of English, Harvard University.

ROSSITER R. BELLINGER, M.A., Lecturer in English.

TRAVIS BOGARD, Ph.D., Instructor in English.

JOHN M. BRINNIN, A.B., formerly Instructor in English, Vassar College.

WAYNE BURNS, Ph.D., Instructor in English.

JAMES M. CLINE, Ph.D., Professor of English.

GEORGE J. ENGELHARDT, Ph.D., Assistant Professor of English, University of Connecticut.

ROBERT M. P. GRINNELL, Ph.D., Assistant Professor of English.

FREDERICK L. GWYNN, Ph.D., Instructor in English, Harvard University.

GEORGE E. HAND, Ph.D., Associate Professor of English (Santa Barbara).

EDITH D. HENRICH, A.B., Lecturer in English.

MERRITT Y. HUGHES, Ph.D., Professor of English, University of Wisconsin.

JOHN E. JORDAN, Ph.D., Instructor in English.

HAROLD D. KELLING, Ph.D., Lecturer in English.

EDWARD S. LECOMTE, Ph.D., Assistant Professor of English.

BENJAMIN H. LEHMAN, Ph.D., Professor of English and Chairman of the Department.

GUY MONTGOMERY, Ph.D., LL.D., Professor of English.

GEORGE R. POTTER, Ph.D., Professor of English.

C. WAYNE SHUMAKER, Ph.D., Assistant Professor of English.

ALAN SWALLOW, Ph.D., Assistant Professor of English, University of Denver.

SHERNA S. VINOGRAD, Ph.D., Lecturer in English.

EDWARD J. WEST, Ph.D., Associate Professor of English, University of Colorado.

ROBERT WULIGER, A.B., Lecturer in English.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. First-Year Reading and Composition.

Mrs. VINOGRAD, Mr. WULIGER, Mr. BAKER

Training in writing and reading. Prerequisite: Subject A. 2 units.

M Tu W Th F, sections at 9, 10, 11.

S1B. First-Year Reading and Composition.

Mr. LECOMTE, Mr. BURNS, Mr. BELLINGER,

Mrs. VINOGRAD, Mr. WULIGER

An introduction to the study of literature, with further training in writing.
2 units.

M Tu W Th F, sections at 9, 10, 11, 1, 2.

S41A. Writing in Connection with the Reading of Important Books of the Nineteenth and Twentieth Centuries.

Mr. HAND

2 units.

M Tu W Th F, 11.

- S49. Twelve Great Books in the English Tradition.** Mr. CLINE
The course presents a history, not of English literature, but of English culture. The works selected are those which have expressed for the English people the great aspirations and achievements of the English nation. Readings and lectures. 2 units.
M Tu W Th F, 9.
- S106L. Advanced Composition.** Mr. KELLING
Primarily for candidates for the Certificate of Completion of the Teacher-Training Curriculum. 2 units.
M Tu W Th F, 2.
- S110. The English Language.** Mr. KELLING
Required for candidates for the Teacher's Certificate in English. 2 units.
M Tu W Th F, 1.
- S114B. The English Drama.** Mr. BAKER
From 1642 to the present. 2 units.
M Tu W Th F, 11.
- S116. The English Bible as Literature.** Mr. POTTER
2 units.
M Tu W Th F, 11.
- S122. The Victorian Period.** Mr. BELLINGER
2 units.
M Tu W Th F, 9.
- S125E. Contemporary Prose Fiction.** Mr. BRINNIN
2 units.
M Tu W Th F, 10.
- S130B. American Literature, 1840-1888.** Mr. BRINNIN
2 units.
M Tu W Th F, 9.
- S155. The Age of Chaucer.** Mr. GRINNELL
2 units.
M Tu W Th F, 1.
- S156. The Age of Elizabeth.** Mr. CLINE
2 units.
M Tu W Th F, 10.
- S157. The Age of Milton.** Mr. HUGHES
2 units.
M Tu W Th F, 1.
- S199. Special Study for Advanced Undergraduates.**
1-3 units. The STAFF (Mr. POTTER in charge)
Hours to be arranged.
- S201. Reading Course.** The STAFF (Mr. POTTER in charge)
Introduction to research methods; reading and reports. 2 units.
Hours to be arranged.

- S218. **Milton.** Mr. LECOMTE
2 units.
M W, 1-3.
- S220A. **The Medieval Mind.** Mr. GRINNELL
Readings in Medieval Latin. An introduction to the central language and literature of the Middle Ages, presupposing at least such a knowledge of Latin as may be gained in high school. 2 units.
Tu Th, 3-5.
- S245. **Spenser.** Mr. HUGHES
2 units.
M W, 3-5.
- S256. **The Augustan Age: Swift and Pope.** Mr. HAND
2 units.
Tu Th, 1-3.
- S260. **Special Study.** The STAFF (Mr. POTTER in charge)
1-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1A. **First-Year Reading and Composition.** Mr. SHUMAKER, Mr. BOGARD
Training in writing and reading. Prerequisite: Subject A. 2 units.
M Tu W Th F, sections at 10, 11.
- S1B. **First-Year Reading and Composition.**
Mr. ENGELHARDT, Mr. GWYNN, Mrs. HENRICH, Mr. JORDAN
An introduction to the study of literature with further training in writing.
2 units.
M Tu W Th F, sections at 9, 10, 11, 2.
- S106G. **Advanced Composition.** Mrs. HENRICH
2 units.
M Tu W Th F, 11.
- S110. **The English Language.** Mr. ENGELHARDT
Required for candidates for the Teacher's Certificate in English. 2 units.
M Tu W Th F, 1.
- S114A. **The English Drama.** Mr. BOGARD
From the miracle plays to 1642. 2 units.
M Tu W Th F, 2.
- 114C. **English Drama from Robertson to the Present.** Mr. WEST
2 units.
M Tu W Th F, 1.
- S117B. **Shakespeare.** Mr. MONTGOMERY
2 units.
M Tu W Th F, 11.
- S121. **The Romantic Period.** Mr. JORDAN
2 units.
M Tu W Th F, 9.

- S123. **Nineteenth-Century Prose.** Mr. SHUMAKER
2 units.
M Tu W Th F, 1.
- S125D. **The Novel.** Mr. LEHMAN
2 units.
M Tu W Th F, 1C.
- S130C. **American Literature: 1885 to the Present.** Mr. GWYNN
2 units.
M Tu W Th F, 9.
- S166. **The Age of Swift and Pope.** Mr. MONTGOMERY
2 units.
M Tu W Th F, 10.
170. **Theory and Practice of Contemporary Poetry.** Mr. SWALLOW
2 units.
M Tu W Th F, 11.
- S199. **Special Study for Advanced Undergraduates.**
1-3 units. The STAFF (Mr. LEHMAN in charge)
Hours to be arranged.
- S201. **Reading Course.** The STAFF (Mr. LEHMAN in charge)
Introduction to research methods; reading and reports. 2 units.
236. **Studies in English Literature of the 16th Century.** Mr. SWALLOW
2 units.
M W, 1-3.
- S251. **Keats.** Mr. WEST
2 units.
Tu Th, 2-4.
- S260. **Special Study.** The STAFF (Mr. LEHMAN in charge)
1-4 units.
Hours to be arranged.

FRENCH

- MAX BACH, A.B., Assistant in French in the Summer Sessions.
 RALPH BALDNER, M.A., Assistant in French in the Summer Sessions.
 FRANK BELCHER, A.B., Assistant in French in the Summer Sessions.
 EDOUARD BOURBOUSSON, Licencié ès Lettres, LL.D., Associate Professor of French, Oregon State College.
 FRANCIS J. CARMODY, Ph.D., Associate Professor of French.
 DOLORES HARDIN CHANDLER, M.A., Assistant in French in the Summer Sessions.
 ALVIN A. EUSTIS, JR., Ph.D., Instructor in French.
 DORIS FAY, A.B., Assistant in French in the Summer Sessions.
 PATRICIA GATHERCOLE, M.A., Assistant in French in the Summer Sessions.
 EUGENE M. GIBSON, M.A., Assistant in French in the Summer Sessions.
 FRED G. A. GOLLIEZ, A.B., Assistant in French in the Summer Sessions.
 ALICE HABIS-REUTINGER, Ed.D., Associate in French.
 HELEN H. HART, A.B., Assistant in French in the Summer Sessions.
 WILLIAM HUMPHRIES, M.A., M.Ed., Assistant in French in the Summer Sessions.
 ROGER T. JOCZ, M.A., Assistant in French in the Summer Sessions.
 ESTHER LAWTON LAFON, Agrégé de l'Université, Instructor in French, Cornell University.
 RUTH MCGOVNEY, M.A., Assistant in French in the Summer Sessions.
 EDMOND E. MASSON, A.B., Lecturer in French in the Summer Sessions.
 HENRY PAROUTAUD, A.B., Assistant in French in the Summer Sessions.
 HENRI M. PEYRE, Docteur ès Lettres, Professor of French, Yale University.
 FLORA GROSSI PROVENZANO, M.A., Assistant in French in the Summer Sessions.
 IRVING PUTTER, M.A., Lecturer in French.
 LAWRENCE A. ROMANI, M.A., Assistant in French in the Summer Sessions.
 VIRGINIA T. L. URBANI, A.B., Assistant in French in the Summer Sessions.
 CATHARINA WILHELMINA ELIZABETH VAN SEVENTER, M.A., Assistant in French in the Summer Sessions.
 BILLIE WALLACE, A.B., Assistant in French in the Summer Sessions.
 LOTTIE WALLENSTEIN, A.B., Assistant in French in the Summer Sessions.
 RONALD WALPOLE, Ph.D., Assistant Professor of French.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***S1. Elementary French. Beginners' Course.**

Mr. JOCZ, Miss WALLACE, Miss GATHERCOLE, Mrs. CHANDLER
 Essentials of grammar, reading, pronunciation, and conversation. 4 units.
 M Tu W Th F, sections 1 and 2, 8-10; sections 3 and 4, 10-12; section 5,
 12-2.

S2. Elementary French (continuation of 1).

Miss VAN SEVENTER, Mr. BALDNER, Miss URBANI, Miss WALLENSTEIN

Prerequisite: French 1, or two years of high school French. 4 units.

M Tu W Th F, sections 1 and 2, 8-10; sections 3 and 4, 10-12.

S3. Intermediate French. Miss HART, Mr. HUMPHRIES, Mrs. PROVENZANO

Prerequisite: French 2, or three years of high school French. 4 units.

M Tu W Th F, sections 1 and 2, 10-12; section 3, 12-2.

S4. Intermediate French (continuation of 3).

Mr. MASSON

Prerequisite: French 3, or four years of high school French. 4 units.

M Tu W Th F, 10-12.

S9A. French Literature in English Translation.

Mr. EUSTIS

Lectures (in English) and collateral reading of representative works in English translation. No knowledge of French required. Open to all students. May not be counted as departmental credit for French majors. 2 units.

M Tu W Th F, 2.

S101A. Intensive Reading, Grammar, and Composition.

Mr. EUSTIS

2 units.

M Tu W Th F, 12.

S109A. A Survey of French Literature from the Middle Ages Through the Seventeenth Century.

Mr. CARMODY

2 units.

M Tu W Th F, 2.

S114. Baudelaire and the Symbolists.

Mr. PEYRE

2 units.

M Tu W Th F, 2.

S130A. Advanced Grammar and Composition.

Mr. CARMODY

Prerequisite: French 101A-101B. 3 units.

M Tu W Th F, 3.

S199. Special Study for Advanced Undergraduates. Mr. EUSTIS in charge

1-3 units.

Hours to be arranged.

S220A. Explication de Textes.

Mr. PEYRE

2 units.

M W, 4-6.

S298. Special Study for Graduate Students.

Mr. CARMODY in charge

1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S1. Elementary French. Beginners' Course.**

Mr. BELCHER, Mr. PAROUTAUD, Miss MCGOVNEY

Essentials of grammar, reading, pronunciation, and conversation. 4 units.

M Tu W Th F, sections 1 and 2, 8-10; section 3, 10-12.

S2. Elementary French (continuation of 1).

Mr. GIBSON, Miss FAY, Mr. BACH, Mr. ROMANI

Prerequisite: French 1, or two years of high school French. 4 units.

M Tu W Th F, sections 1 and 2, 8-10; sections 3 and 4, 10-12.

S3. Intermediate French.

Miss HABIS-REUTINGER, Mr. GOLLIEZ

Prerequisite: French 2, or three years of high school French. 4 units.

M Tu W Th F, sections 1 and 2, 8-10.

S4. Intermediate French (continuation of 3).

Mr. BOURBOUSSON

Prerequisite: French 3, or four years of high school French. 4 units.

M Tu W Th F, 10.

S9B. French Literature in English Translation.

Mr. WALPOLE

Lectures (in English) and collateral reading of representative works in English translation. No knowledge of French required. Open to all students. May not be counted as departmental credit for French majors. 9A is not required as a prerequisite for 9B. 2 units.

M Tu W Th F, 2.

S101B. Intensive Reading, Grammar, and Composition.

Mr. PUTTER

2 units.

M Tu W Th F, 1.

S109B. A Survey of French Literature during the Eighteenth and Nineteenth Centuries.

Mr. PUTTER

2 units.

M Tu W Th F, 2.

S113. The French Novel from 1880 to 1914.

Miss LAFON

2 units.

M Tu W Th F, 2.

S130B. Advanced Grammar and Composition.

Mr. WALPOLE

Prerequisite: French 101B. 3 units.

M Tu W Th F, 3.

S199. Special Study for Advanced Undergraduates. Mr. PUTTER in charge

1-3 units.

Hours to be arranged.

S298. Special Study for Graduate Students.

Mr. WALPOLE in charge

1-4 units.

Hours to be arranged.

GEOGRAPHY

WALTER RUDOLF HACKER, Ph.D., Associate Professor of Geography, San Francisco State College.

STANLEY J. JONES, M.A., Lecturer in Geography and Head of Department, University College, Dundee; University of St. Andrews, Scotland, and Visiting Professor, University of California, spring semester, 1948.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S5A. Introduction to Economic Geography. Mr. JONES

Agricultural production in its regional differentiation. 2 units.

M Tu W Th F, 10.

S123B. Geography of Northern Europe. Mr. JONES

Physical, human and economic geography of Northern Europe. 2 units.

M Tu W Th F, 11.

S219A. Individual Research. The STAFF

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S2. Introduction to Geography: Natural and Cultural Regions.

Mr. HACKER

The regional differentiation of the world by human activity; areal bases of economy and nationality; food, clothing, shelter, tools, transport in geographic complexes. 2 units.

M Tu W Th F, 2.

S125B. Geography of China and Japan. Mr. HACKER

A general discussion of the physical and human geography, including economic and political geography, of China, Japan, and Central Asia. Special emphasis will be placed upon the geographic resources and economic development. 2 units.

M Tu W Th F, 3.

GEOLOGY

FRANCIS J. TURNER, Sc.D., Associate Professor of Geology.

JEAN VERHOOGEN, Ph.D., Associate Professor of Geology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- 4. Dynamic and Structural Geology.*** Mr. TURNER
 The epigene processes: weathering, the action of wind, running water, sub-surface water, glaciers, lakes, and oceans. Prerequisite: high school chemistry or its equivalent. 2 units.
 M Tu W Th F, 2. One additional conference hour.
- 5. Dynamic and Structural Geology.*** Mr. TURNER
 The hypogene processes: diastrophism, earthquakes, volcanic activity, metamorphism. Prerequisite: high school chemistry or its equivalent. 1 unit.
 M Tu W, 3. One additional conference hour.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- 4. Dynamic and Structural Geology.*** Mr. VERHOOGEN
 The epigene processes: weathering, the action of wind, running water, sub-surface water, glaciers, lakes, and oceans. Prerequisite: high school chemistry or its equivalent. 2 units.
 M Tu W Th F, 2. One additional conference hour.
- 5. Dynamic and Structural Geology.*** Mr. VERHOOGEN
 The hypogene processes: diastrophism, earthquakes, volcanic activity, metamorphism. Prerequisite: high school chemistry or its equivalent. 1 unit.
 M Tu W, 3. One additional conference hour.

* Credit obtained in Geology 4 and 5 will be accepted as the equivalent of Geology 1A given in the regular semesters of the University.

GERMAN

- FREDERICK J. ALADJEM, A.B.**, Assistant in German in the Summer Sessions.
LELAND S. BABCOCK, A.B., Assistant in German in the Summer Sessions.
EDWARD V. BREWER, M.A., Professor of German and Chairman of the Department.
JOHN H. BROWN, M.A., Assistant in German in the Summer Sessions.
SIBYLLA A. GIBSON, M.A., Assistant in German in the Summer Sessions.
ULRICH K. GOLDSMITH, M.A., Instructor in German, Princeton University.
CAROLINE H. HENNINGSEN, Assistant in German in the Summer Sessions.
THEA JURAS, A.B., Assistant in German in the Summer Sessions.
RENATE KALISKI, A.B., Assistant in German in the Summer Sessions.
WALTER C. KRAFT, M.A., Assistant in German in the Summer Sessions.
EDITH J. LEWY, Associate in German.
JOHANNA MARTENSEN, A.B., Associate in German.
OSCAR MATSON, A.B., Assistant in German in the Summer Sessions.
PHILLIP MARSHALL MITCHELL, Ph.D., Instructor in German, Harvard University. In charge of Lower Division Courses in Second Summer Session.
WILLIAM H. MORGAN, M.A., Assistant in German in the Summer Sessions.
ELEANOR S. PAGE, A.B., Assistant in German in the Summer Sessions.
PATRICIA RING, A.B., Assistant in German in the Summer Sessions.
MAX SELINGER, A.B., Assistant in German in the Summer Sessions.
LEROY R. SHAW, A.B., Assistant in German in the Summer Sessions.
O. PAUL STRAUBINGER, Ph.D., Instructor in German. In charge of Lower Division Courses in First Summer Session.
TERENCE WILBUR, Assistant in German in the Summer Sessions.
HANS M. WOLFF, Ph.D., Associate Professor of German.

FIRST SUMMER SESSION COURSES*(June 31 to July 31, 1948)***S1. Elementary German. Beginners' Course.**

4 units. Miss RING, Miss KALISKI, Mr. MORGAN, Mr. BROWN, Miss JURAS
 M Tu W Th F, section 1, 8-10; section 2, 9-11; sections 3 and 4, 10-12; section 5, 1-3.

S2. Elementary German (continuation of 1).

4 units. Miss PAGE, Mrs. GIBSON, Mr. SELINGER, Mr. SHAW
 M Tu W Th F, section 1, 8-10; section 2, 9-11; section 3, 10-12; section 4, 1-3.

S3. Intermediate German.

Miss LEWY, Mr. GOLDSMITH
 Prerequisite: course 2, or three years of high school German. 4 units.
 M Tu W Th F, section 1, 8-9 and 11-12; section 2, 10-12.

S3s. Scientific German.

Mr. KRAFT

Open only to students in the Colleges of Chemistry and Engineering, pre-medical and pre-dental students, and students in the College of Letters and Science who are majoring or preparing for a major in one of the scientific departments. Prerequisite: German 2, or equivalent. 3 units.

M Tu W Th F, 11-12:30.

S4. Intermediate German.

Mr. STRAUBINGER

Prerequisite: course 3, or four years of high school German. 4 units.

M Tu W Th F, 9-10 and 11-12.

121. Modern Narrative Prose.

Mr. WOLFF

Reading and critical analysis of representative Modern German Prose, Thomas Mann and others. Prerequisite: upper division standing. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

Mr. STRAUBINGER

1-3 units.

Hours to be arranged.

216. Shakespeare in Germany.

Mr. WOLFF

A study of the influence of Shakespeare on German Literature from the beginning of the 17th century through the 19th century, including criticisms, translations and adaptations. Prerequisite: graduate standing. 2 units.

Tu Th, 2-4.

S250. Special Study for Graduate Students.

Mr. WOLFF

1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1. Elementary German. Beginners' Course.

4 units. Mr. MATSON, Mr. WILBUR, Miss HENNINGSEN, Mr. BABCOCK

M Tu W Th F, section 1, 8-10; section 2, 9-11; section 3, 10-12; section 4, 1-3.

S2. Elementary German (continuation of 1).

Mr. BROWN, Mrs. MARTENSEN, Mr. GOLDSMITH

Prerequisites: course 1, or two years of high school German. 4 units.

M Tu W Th F, section 1, 8-10; section 2, 9-11; section 3, 10-12.

S3. Intermediate German.

Mr. MITCHELL

Prerequisites: course 2, or 3 years of high school German. 4 units.

M Tu W Th F, 8-9 and 11-12.

S3s. Scientific German.

Mr. ALADJEM

Open only to students in the Colleges of Chemistry and Engineering, pre-medical and pre-dental students, and students in the College of Letters and Science who are majoring or preparing for a major in one of the scientific departments. Prerequisites: German 2, or equivalent. 3 units.

M Tu W Th F, 11-12:30.

119. Introduction to German Romanticism.

Mr. BREWER

Reading of selected texts, lectures, and reports. Prerequisite: upper division standing. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates. Mr. BREWER in charge

1-3 units.

Hours to be arranged.

S255. Special Study for Graduates.

Mr. BREWER in charge

1-3 units.

Hours to be arranged.

HISTORY

- CHARLES A. BARKER, Ph.D., Professor of American History, Johns Hopkins University.
- WALTON E. BEAN, Ph.D., Assistant Professor of History.
- DELMER M. BROWN, Ph.D., Assistant Professor of History.
- HENRY STEELE COMMAGER, Ph.D., Professor of History, Columbia University.
- WILLIAM N. DAVIS, JR., Ph.D., Assistant Professor of History.
- GORDON GRIFFITHS, Ph.D., Assistant Professor of History.
- RICHARD D. HOFSTADTER, Ph.D., Assistant Professor of History, Columbia University.
- RAMÓN IGLESIA, Doctor en Letras, Professor of Spanish, University of Wisconsin.
- ERNST H. KANTOROWICZ, Ph.D., Professor of History.
- ROBERT J. KERNER, Ph.D., LL.D., Litt.D., Sather Professor of History.
- JAMES F. KING, Ph.D., Associate Professor of History.
- LAWRENCE KINNAIRD, Ph.D., Associate Professor of History.
- PAUL B. SCHAEFFER, Ph.D., Associate Professor of European History.
- ENGEL SLUITER, Ph.D., Associate Professor of History.
- KENNETH M. STAMPP, Ph.D., Assistant Professor of History.
- JOHN J. VAN NOSTRAND, Ph.D., LL.D., Professor of Ancient History.
- WAYNE S. VUCINICH, Ph.D., Assistant Professor of History, Stanford University.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)*

- S4A. **History of Western Europe.** Mr. GRIFFITHS
Survey, to the seventeenth century. 2 units.
M Tu W Th F, 9.
- S8A. **History of the Americas.** Mr. KINNAIRD
Survey, to independence. 2 units.
M Tu W Th F, 10.
- S17A. **History of the United States.** Mr. DAVIS
Survey, to the Civil War. Prerequisite: sophomore standing. 2 units.
M Tu W Th F, 8.
- S17B. **History of the United States.** Mr. STAMPP
Survey, since the Civil War. Prerequisite: sophomore standing. 2 units.
M Tu W Th F, 11.
- S101. **Introduction to Historical Method and Bibliography.** Mr. GRIFFITHS
2 units.
M Tu W Th F, 2.
- S130A. **The Thirteenth Century.** Mr. KANTOROWICZ
2 units.
M Tu W Th F, 1.

- S130B. **The Renaissance in Italy.** Mr. KANTOROWICZ
2 units.
M Tu W Th F, 11.
- S136B. **Soviet Union in World Affairs.** Mr. KERNER
2 units.
M Tu W Th F, 10.
- S161A. **Hispanic-America: The Colonies.** Mr. SLUITER
2 units.
M Tu W Th F, 8.
- S166A. **History of Mexico: The Colonial Period.** Mr. IGLÉSIA
2 units.
M Tu W Th F, 2.
- S172A. **Constitutional History of the United States.** Mr. COMMAGER
Prerequisite: course 17A-17B, or the consent of the instructor. 2 units.
M Tu W Th F, 11.
- S174B. **Recent History of the United States: 1917-1947.** Mr. DAVIS
2 units.
M Tu W Th F, 10.
- S176B. **Social History of the United States: The Urban Period.** Mr. COMMAGER
2 units.
M Tu W Th F, 9.
- S189B. **History of the Southwest: California.** Mr. KINNAIRD
2 units.
M Tu W Th F, 1.
- S191B. **History of the Far East.** Mr. BROWN
2 units.
M Tu W Th F, 1.
- S199. **Special Reading for Advanced Students.**
1-4 units. The STAFF (Mr. KERNER in charge)
Hours to be arranged.
- S249A. **Seminar in Modern European History.** Mr. KERNER
2 units.
M Tu W Th F, 2.
- S273A. **Seminar in United States History.** Mr. STAMPP
2 units.
M Tu W Th F, 3.
- S283A. **Seminar in Hispanic-American History.** Mr. SLUITER
2 units.
M Tu W Th F, 4.
- S295B. **Seminar in Japanese History.** Mr. BROWN
2 units.
M Tu W Th F, 3.
- S298. **Research.** The STAFF (Mr. KERNER in charge)
2-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S4B. History of Western Europe.** Mr. SCHAEFFER
Survey, since the seventeenth century. 2 units.
M Tu W Th F, 9.
- S8B. History of the Americas.** Mr. KING
Survey, since independence. 2 units.
M Tu W Th F, 10.
- S17A. History of the United States.** Mr. BARKER
Survey, to the Civil War. Prerequisite: sophomore standing. 2 units.
M Tu W Th F, 8.
- S17B. History of the United States.** Mr. BEAN
Survey, since the Civil War. Prerequisite: sophomore standing. 2 units.
M Tu W Th F, 9.
- S111B. Ancient History: Rome.** Mr. VAN NOSTRAND
Roman history to the fourth century A.D. 2 units.
M Tu W Th F, 8.
- S121B. Medieval History, 1100–1500.** Mr. SCHAEFFER
2 units.
M Tu W Th F, 11.
- S139B. Central Europe and the Near East.** Mr. VUCINICH
2 units.
M Tu W Th F, 1.
- S148. Recent World History Since 1918.** Mr. VUCINICH
2 units.
M Tu W Th F, 11.
- S160B. History of Spain Since 1700.** Mr. VAN NOSTRAND
2 units.
M Tu W Th F, 10.
- 170S. The Revolutionary Period in United States History, 1750–1790.** Mr. BARKER
2 units.
M Tu W Th F, 11.
- S174A. Recent History of the United States, 1893–1917.** Mr. HOFSTADTER
2 units.
M Tu W Th F, 10.
- S176A. Social History of the United States: The Frontier Period.** Mr. HOFSTADTER
2 units.
M Tu W Th F, 2.
- S199. Special Readings for Advanced Students.**
1–4 units. The STAFF (Mr. VAN NOSTRAND in charge)
Hours to be arranged.

History

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S261B. Seminar in Hispanic-American History.

Mr. KING

2 units.

M Tu W Th F, 4.

S277B. Seminar in United States History.

Mr. BEAN

2 units.

M Tu W Th F, 3.

S298. Research.

The STAFF (Mr. VAN NOSTRAND in charge)

2-4 units.

Hours to be arranged.

HOME ECONOMICS

M. VIRGINIA JONES, M.S., Lecturer in Textiles.

BARBARA M. KENNEDY, Ph.D., Assistant Professor of Home Economics.

AGNES C. McCLELLAND, M.A., Associate in Home Economics.

RUTH OKEY, Ph.D., Professor of Home Economics.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

129. Recent Advances in Food and Nutrition. Miss OKEY, Miss KENNEDY
A review of recent research in nutrition, both experimental and clinical, and in food technology, food composition, and experimental cooking. Prerequisite: Home Economics 102A-102B or its equivalent. 2 units.
M Tu W Th F, 9.

S163. Dress Design and Fashion Analysis. Miss McCLELLAND
The design, draping, and construction of garments and costumes based on the principles of design and color theory; past and current fashion trends, and fashion merchandising methods. Prerequisite: Home Economics 5. 3 units.
Lectures, Tu Th, 10; laboratory, M Tu W Th F, 1-4.

169. Recent Advances in Clothing and Textiles. Miss JONES, Miss McCLELLAND
A review of recent advances in textile testing manufacture and economics. New trends in clothing manufacture, economics, and design. Prerequisite: Home Economics 167. 2 units.
M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates. The STAFF
1-5 units.
Hours to be arranged.

S214. Research in Food and Nutrition. The STAFF
2-4 units.
Hours to be arranged.

S238. Research in Home Economics. The STAFF
2-4 units.
Hours to be arranged.

ITALIAN

RUDOLPH ALTROCCHI, Ph.D., Professor of Italian.

ANTONIO CALONICO, A.B., Assistant in Italian in the Summer Sessions.

MICHELE DE FILIPPIS, Ph.D., Professor of Italian and Chairman of the Department.

JOHN J. FAUST, A.B., Assistant in Italian in the Summer Sessions.

HANNIBAL S. NOCE, M.A., Assistant in Italian in the Summer Sessions.

ELSA F. PICONE, M.A., Assistant in Italian in the Summer Sessions.

DANIEL J. PRATOLA, M.A., Assistant in Italian in the Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S1. Elementary Italian.** Mr. PRATOLA, Mrs. PICONE
Grammar, conversation, and easy reading. 4 units.
M Tu W Th F, section 1 at 9-11; section 2 at 10-12.
- S2. Elementary Italian (continuation of S1)** Mr. NOCE
Prerequisite: Italian 1 or its equivalent. 4 units.
M Tu W Th F, 9-11.
- S101A. Advanced Grammar, Composition, and Conversation.**
Prerequisite: Italian 4 or its equivalent. 2 units. Mr. DE FILIPPIS
M Tu W Th F, 1.
- 151A. The Italian Renaissance.** Mr. DE FILIPPIS
Lectures (in English) and reports on assigned subjects. No knowledge of Italian required. 2 units.
M Tu W Th F, 2.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1. Elementary Italian.** Mr. FAUST
Grammar, conversation, and easy reading. 4 units.
M Tu W Th F, 9-11.
- S2. Elementary Italian (Continuation of S1).** Mr. CALONICO
4 units.
M Tu W Th F, 10-12.
- S101B. Advanced Grammar, Composition, and Conversation.**
2 units. Mr. ALTROCCHI
M Tu W Th F, 1.
- 200A. The Works of Boccaccio.** Mr. ALTROCCHI
Open to graduate and undergraduate students. 2 units.
M Tu W Th F, 2.

JOURNALISM

ROBERT W. DESMOND, Ph.D., Professor of Journalism and Chairman of the Department.

PHILIP F. GRIFFIN, M.A., Assistant Professor of Journalism.

NEAL O. HINES, M.S.J., Instructor in Journalism.

RALPH O. NAFZIGER, Ph.D., Professor of Journalism, University of Minnesota.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S20A. News Writing and Reporting.

Mr. HINES

3 units.

Lectures, M W F, 1-3; laboratory, two 2-hour sections to be arranged.

S140. History of Journalism.

Mr. DESMOND

Evolution of the press, particularly in the United States, with attention to the parts played by outstanding editors and publishers, and to the characteristics of important publications. 2 units.

M Tu W Th F, 10.

S190. The Press and World Affairs.

Mr. DESMOND

Lectures on comparative world journalism, with an examination of the sources of news from various capitals, a review of the circumstances of world news reporting before, during, and since the war, with consideration of influences affecting the quality of information reaching the public. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S20B. News Writing and Reporting.

Mr. GRIFFIN, Mr. NAFZIGER

3 units.

Lectures, M W F, 1-3; laboratory, two 2-hour sections to be arranged.

S141. The Press and Society.

Mr. GRIFFIN

2 units.

M Tu W Th F, 10.

162. Communications Agencies and Public Opinion.

Mr. NAFZIGER

The major agencies of mass communication—press, radio, and motion picture—and their role in the opinion-making process. Theories of public opinion and propaganda; propaganda techniques of governments, political parties, pressure groups, and other organized bodies. 2 units.

M Tu W Th F, 11.

NOTE.—Attention is directed to Business Administration S123, S125; English, Political Science or other courses to be given during the summer that may be offered as part of the journalism major.

JURISPRUDENCE

BARBARA NACHTRIEB ARMSTRONG, A.B., J.D., Ph.D., Professor of Law.

KENNETH C. DAVIS, A.B., LL.B., Professor of Law, University of Texas.

WILLIAM T. LAUBE, JR., A.B., J.D., LL.M., Lecturer in Law.

FRANK C. NEWMAN, A.B., LL.B., LL.M., Lecturer in Law.

FIRST SUMMER SESSION COURSES*

(June 21 to July 31, 1948)

S240. Administrative Law: Second Course.

Mr. NEWMAN

Continuation of the study of administrative procedure, with special emphasis upon problems encountered in dealing with a selected group of government agencies. Limited to students who have completed Jurisprudence 220 or its equivalent. 2 units.

M Tu W Th F, 11.

S274. Restitution.

Mr. LAUBE

Restitution at law and in equity as an alternative remedy for tort; legal and equitable remedies in contracts induced by fraud or mistake and in contracts unenforceable because of various types of defect. 2 units.

M Tu W Th F, 9.

SECOND SUMMER SESSION COURSES*

(August 2 to September 11, 1948)

S253. Family Law.

Mrs. ARMSTRONG

Marriage, annulment, divorce and separation; parent and child; adoption and legitimation; infant's contracts; guardian and ward; the Juvenile Court. 2 units.

M Tu W Th F, 11.

S276. Restraint of Trade and Unfair Competition.

Mr. DAVIS

Restraint of trade and unfair competition, with particular reference to anti-trust laws and related federal and state legislation. 2 units.

M Tu W Th F, 9.

* Courses in jurisprudence are open to members of the bar and to students who have satisfactorily completed their first year in law.

MATHEMATICS

- EDITH WETZEL AINSWORTH, A.B., Assistant in Mathematics in the Summer Sessions.
- O. RICHARD AINSWORTH, M.A., Assistant in Mathematics in the Summer Sessions.
- HENRY L. ALDER, Ph.D., Instructor in Mathematics.
- TOM M. APOSTOL, M.S., Assistant in Mathematics in the Summer Sessions.
- DAVID W. BLAKESLEE, A.B., Assistant in Mathematics in the Summer Sessions.
- PAUL M. BLUNK, A.B., Assistant in Mathematics in the Summer Sessions.
- RAJ CHANDRA BOSE, Ph.D., Professor of Mathematical Statistics and Head of the Department, University of Calcutta, India.
- JOEL L. BRENNER, Ph.D., Lecturer in Mathematics in the Summer Sessions.
- ELIZABETH ANN BRETT, A.B., Assistant in Mathematics in the Summer Sessions.
- JOHN M. DANSKIN, JR., A.B., Assistant in Mathematics in the Summer Sessions.
- DAVID B. DEKKER, M.S., Assistant in Mathematics in the Summer Sessions.
- STEPHEN P. DILBERTO, Ph.D., Instructor in Mathematics.
- NELSON DUNFORD, Ph.D., Professor of Mathematics, Yale University.
- EDGAR FICKENSCHER, M.A., Assistant in Mathematics in the Summer Sessions.
- EVELYN FIX, M.A., Lecturer in Mathematics and Research Associate in the Statistical Laboratory.
- JOHN GURLAND, M.A., Assistant in Mathematics in the Summer Sessions.
- JACK C. GYSBERS, A.B., Assistant in Mathematics in the Summer Sessions.
- FRANK HARARY, M.A., Assistant in Mathematics in the Summer Sessions.
- STEVEN L. JAMISON, A.B., Assistant in Mathematics in the Summer Sessions.
- TERRY A. JEEVES, A.B., Associate in Mathematics.
- JOHN L. KELLEY, Ph.D., Associate Professor of Mathematics.
- BARBARA VERNON KENYON, A.B., Assistant in Mathematics in the Summer Sessions.
- HEWITT KENYON, B.S., Assistant in Mathematics in the Summer Sessions.
- RALPH M. LAKNESS, M.A., Assistant in Mathematics in the Summer Sessions.
- ERICH L. LEHMANN, Ph.D., Assistant Professor of Mathematics.
- MICHEL LOÈVE, Ph.D., Professor of Mathematics, University of London.
- SOPHIA L. McDONALD, Ph.D., Associate Professor of Mathematics.
- WILLIAM ROBERT MANN, A.B., Assistant in Mathematics in the Summer Sessions.
- ABRAM VENABLE MARTIN, Ph.D., Assistant Professor of Mathematics, University of Nevada.
- SIEGFRIED F. NEUSTADTER, M.A., Assistant in Mathematics in the Summer Sessions.
- JERZY NEYMAN, Ph.D., Professor of Mathematics and Director of the Statistical Laboratory.

- TING-KWAN PAN, M.A., Assistant in Mathematics in the Summer Sessions.
 ROBERT R. PUTZ, A.B., Assistant in Mathematics in the Summer Sessions.
 ALLAN J. ROSS, B.S., Assistant in Mathematics in the Summer Sessions.
 ROBERT RUSSELL, A.B., Assistant in Mathematics in the Summer Sessions.
 ABRAHAM SEIDENBERG, Ph.D., Assistant Professor of Mathematics.
 EDWARD SILVERMAN, M.A., Assistant in Mathematics in the Summer Sessions.
 MARIANNE FREUNDLICH SMITH, Ph.D., Lecturer in Mathematics.
 RICHARD G. STONEHAM, M.S., Assistant in Mathematics in the Summer Sessions.
 FREDERICK BURTIS THOMPSON, M.A., Assistant in Mathematics in the Summer Sessions.
 ABRAHAM WALD, Ph.D., Professor of Mathematical Statistics, Columbia University.
 RALPH A. WILLOUGHBY, A.B., Assistant in Mathematics in the Summer Sessions.
 OSCAR ZARISKI, M.A. (honoris causa), Professor of Mathematics, Harvard University.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

B. Plane Geometry.

Assistants

Definitions and elementary properties of the trigonometric functions in addition to a normal content of material for plane geometry. Students who take Mathematics B may not enroll for more than four units. No unit credit.

M Tu W Th F, section 1, 11-12:30; section 2, 1:40-3.

SC. Plane Trigonometry.

Mr. ALDER, Mr. KELLEY, Mr. MARTIN

Prerequisite: plane geometry; one and one-half years of high school algebra, or course D (or SD). 2 units.

M Tu W Th F, 9, 10, 11.

SD. Intermediate Algebra and Complements.

Assistants

The algebra prerequisite for Mathematics 3A. A rapid review of elementary algebra: quadratic equations; exponents and logarithms; progressions; mathematical induction; the binomial theorem; applications of algebra. Prerequisite: one year of high school algebra. 3 units.

M Tu W Th F, section 1, 11-12:30; section 2, 1:40-3.

SG. Solid Geometry.

Mr. MARTIN

(Formerly numbered E) 2 units.

M Tu W Th F, 10.

S1. College Algebra.

Assistants

(Formerly numbered G)

Review and practice in general ideas and applications of algebra and trigonometry. Methods of proof and scientific procedure as exemplified in these subjects.

Open only to students who have had the prerequisites for course 3A and who fail in the qualifying examination in that course. 3 units.

M Tu W Th F, 7:40-9.

S3A. Analytic Geometry and Calculus: First Course.

Assistants

Includes limits, curve plotting, introduction to differential calculus, elements of analytic geometry. Prerequisite: two years of high school algebra or course D (or SD); plane geometry; plane trigonometry or course C (or SC).

NOTE.—A qualifying examination in elementary algebra will be given during the first meeting of the course. Students who fail this test will be required to take course 1 before taking course 3A. 3 units.

M Tu W Th F, 7:40–9.

S3B. Analytic Geometry and Calculus: Second Course.

Assistants

Continuation of course 3A. Includes introduction to integral calculus, differentiation and integration of transcendental functions, conic sections, applications to geometry and mechanics. Prerequisite: course 3A. 3 units.

M Tu W Th F, 7:40–9.

S4A. Analytic Geometry and Calculus: Third Course.

Mr. BRENNER and Assistants

Continuation of courses 3A and 3B. Includes further techniques of integration, further applications, infinite series, hyperbolic functions, complex numbers. Prerequisite: course 3B. 3 units.

M Tu W Th F, 7:40–9.

S4B. Analytic Geometry and Calculus: Fourth Course.

Mr. JEEVES

Continuation of courses 3A, 3B, 4A. Includes solid analytic geometry, partial differentiation, and multiple integration, with applications. Prerequisite: course 4A. 3 units.

M Tu W Th F, 7:40–9.

108. Coördination in Mathematics for Secondary Schools. Mrs. McDONALD

Content and applications of mathematics for grades 9–12. Opportunity will be given for study and discussion of curriculum and other problems of interest to individuals enrolled in the course. Designed for teachers and prospective teachers of mathematics. Mrs. McDonald will welcome consultation or correspondence in advance with prospective students. 2 units.

M Tu W Th F, 11.

S110A. Advanced Engineering Mathematics.

Mrs. McDONALD, Mr. DUNFORD, Mr. KELLEY

Primarily for students in engineering. Conjugate functions, hyperbolic functions, Fourier series. Prerequisite: courses 4A, 4B. 2 units.

M Tu W Th F, sections 1 and 2, 10, section 3, 11.

S199. Special Study for Advanced Undergraduates. Mr. KELLEY in charge

Investigation of special problems under the direction of members of the department. 1–5 units.

Hours to be arranged.

202. Linear Operations and Spectral Theory.

Mr. DUNFORD

Theory of linear operators on a Banach space. The spectral theorem for self adjoint normal operators on Hilbert space. Ideal theory of operators. 2 units.

M Tu W Th F, 9.

Statistics

Statistics courses are offered in the Summer Sessions on both the graduate and the undergraduate level. The graduate courses are meant primarily for students who either have already obtained their Ph.D. degree, or are working

toward it. Therefore, apart from formal classes, it is proposed to hold extensive seminars in which the work of students will be discussed. Also the staff is available for advising students in their personal research under course 295. The undergraduate courses, S12 and S113 (first session, second session), which are now being introduced into the curriculum, are offered particularly for the benefit of students, otherwise advanced, who wish to complete these prerequisites for further statistics courses. Course S12 is considered a desirable part of the general education of students who are not necessarily future statisticians.

S12. Elements of Probability and Statistics.

Mr. LEHMANN

Designed for students who may wish to specialize in statistics as well as those who wish to acquire basic concepts for purposes of general education. Relative frequency as an object for mathematical study. Discrete probability. Testing statistical hypotheses. Illustrations from genetics, bacteriology, industrial sampling, and public health. Prerequisite: course D (or SD). 3 units.

M Tu W Th F, 9-10:30.

271. Random Functions.*

Mr. LOÈVE

Basic concepts. Second order stochastic functions and covariance functions. Differential stochastic properties; stochastic curves. Integral stochastic properties; laws of large numbers; harmonic analysis. Stationary case; applications to physics. 2 units.

M Tu W Th F, 11.

272. Sequential Analysis.*

Mr. WALD

General theory of sequential tests. Sequential probability ratio test for testing a simple hypothesis against a single alternative; sequential tests of simple and composite hypotheses against a set of alternatives. Applications to various special cases as normal, binomial, and Poisson distributions. 2 units.

M Tu W Th F, 1.

273. Design of Experiments.

Mr. BOSE

Linear estimation. Sum of squares corresponding to sets of degrees of freedom. Tests of linear hypotheses. General theory of varietal trials with applications to randomised blocks, Latin squares, lattices, balanced and partially balanced incomplete blocks and Youden squares. Factorial designs including the theory of confounding and partial confounding. Split plot designs. 2 units.

M Tu W Th F, 10.

S290s. Statistical Seminar.

Mr. LOÈVE, Mr. WALD

Seminar in Theory of Statistics. Preliminary meeting on Monday, June 21, at 2:10, in room 127, Durant Hall. 1-4 units.

290t. Statistical Seminar.

Mr. BOSE

Preliminary meeting on Monday, June 21, at 2:10, in room 127, Durant Hall. 1-4 units.

S295. Individual Research. Mr. BOSE, Mr. LOÈVE, Mr. NEYMAN, Mr. WALD

1-4 units.

* Although no prerequisite will be required, attendance in these two courses will be useful to persons who are acquainted with the theory of statistics and also have a reasonable knowledge of the theory of functions of a real and complex variable.

SECOND SUMMER SESSION COURSES

*(August 2 to September 11, 1948)***B. Plane Geometry.**

Assistant

Definitions and elementary properties of the trigonometric functions in addition to a normal content of material for plane geometry.

Students who take this course may not enroll for more than four units. No unit credit.

M Tu W Th F, 11-12:30.

SC. Plane Trigonometry.

Mr. DILIBERTO, Mr. SEIDENBERG and Assistants

Prerequisite: plane geometry, one and one-half years of high school algebra, or course D (or SD). 2 units.

M Tu W Th F, 10, 11.

SD. Intermediate Algebra and Complements.

Assistants

The algebra prerequisite for Mathematics 3A. A rapid review of elementary algebra: quadratic equations; exponents and logarithms; progressions; mathematical induction; the binomial theorem; applications of algebra. Prerequisite: one year of high school algebra. 3 units.

M Tu W Th F, 11-12:30.

S2. Mathematics of Finance and Business.

Mrs. SMITH and Assistants

Prescribed in the School of Business Administration. Not open to students who have completed or are taking Mechanical Engineering 120. Prerequisite: two years of high school algebra or Course D (or SD). 2 units.

M Tu W Th F, 1.

S3A. Analytic Geometry and Calculus: First Course.

Assistants

Includes limits, curve plotting, introduction to differential calculus, elements of analytic geometry. Prerequisite: two years high school algebra or course D (or SD), plane geometry, plane trigonometry or course C (or SC).

NOTE.—Only students who have passed courses D, 1, SD, or S1 in the spring semester of 1948 in regular session at Berkeley or in the First Summer Session of 1948 in regular session at Berkeley will be admitted to this course during the Second Summer Session of 1948. No qualifying examination will be given. 3 units.

M Tu W Th F, section 1 at 7:40-9; section 2 at 11-12:30.

S3B. Analytic Geometry and Calculus: Second Course.

Assistants

Continuation of course 3A. Includes introduction to integral calculus, differentiation and integration of transcendental functions, conic sections, applications to geometry and mechanics. Prerequisite: course 3A. 3 units.

M Tu W Th F, 7:40-9.

S4A. Analytic Geometry and Calculus: Third Course.

Assistants

Continuation of courses 3A and 3B. Includes further techniques of integration, further applications, infinite series, hyperbolic functions, complex numbers. Prerequisite: course 3B. 3 units.

M Tu W Th F, 7:40-9.

S4B. Analytic Geometry and Calculus: Fourth Course.

Assistants

Continuation of courses 3A, 3B, 4A. Includes solid analytic geometry, partial differentiation, and multiple integration, with applications. Prerequisite: course 4A. 3 units.

M Tu W Th F, 7:40-9.

S110B. Advanced Mathematics for Engineers. Mr. DILIBERTO, Mrs. SMITH
Primarily for engineers. Includes differential equations and applications.
Prerequisite: course 4A-4B. 2 units.
M Tu W Th F, 10, 11.

S199. Special Study for Advanced Undergraduates.

Mr. SEIDENBERG in charge
Investigation of special problems under the direction of members of the
department. 1-5 units.
Hours to be arranged.

203. Introduction to the Arithmetic Theory of Algebraic Varieties.

Mr. ZARINSKI
Intended to introduce to the student the necessary background for inde-
pendent reading in the field of algebraic geometry. The course material will
therefore include mainly foundational topics, such as projective models, prod-
uct varieties, algebraic correspondences, birational transformations, normal
varieties, places and divisors, etc. 2 units.
M Tu W Th F, 9.

Statistics

S113. Second Course in Probability and Statistics.

Miss FIX
Continuation of course S12. Continuous probability laws. Expectation, vari-
ance, correlation, regression. Simple examples of least squares estimates. Basic
ideas of confidence intervals. Applications. Prerequisites: courses 3A-3B, 12.
3 units.
M Tu W Th F, 11-12:30.

MUSIC

MADI BACON, M.A., Lecturer in Music.

ERNEST BLOCH, Professor of Music.

DAVID D. BOYDEN, M.A., Assistant Professor of Music.

MANFRED F. BUKOFZER, Ph.D., Professor of Music.

CHARLES C. CUSHING, M.A., Associate Professor of Music.

WILLIAM D. DENNY, M.A., Assistant Professor of Music.

ALBERT I. ELKUS, M.L., Professor of Music and Chairman of the Department.

JOAQUIN NIN-CULMELL, Diplôme, Schola Cantorum et Premier Accessit de Composition Musicale, Paris Conservatoire, Associate Professor of Music, Williams College, Williamstown, Massachusetts.

ROGER H. SESSIONS, A.B., Mus.B., Professor of Music.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. Elementary Counterpoint.

Mr. NIN-CULMELL

Intended particularly for advanced students in harmony whose training has not included modal counterpoint. Sixteenth-century polyphony: theory and practice. Preparatory exercises and motet writing. 2 units.

M Tu W Th F, 2.

S4A-S4B. Intermediate Harmony.

Mr. CUSHING

An intensive course for music majors. Prerequisite: Music 2 or the equivalent, with a grade of A or B. 4 units.

M Tu W Th F, 9-12.

10. Harmonic Values in Music.

Mr. ELKUS

Studies in harmonic styles of various periods.

Open to all students with some knowledge of musical notation, key signatures, and scales. 2 units.

M Tu W Th F, 1.

12. Rudiments of Music.

Mr. DENNY

An introduction to the technique of music: practice in reading, writing, aural recognition, and performance of intervals, rhythms, and chords. Open to all students. 2 units.

M Tu W Th F, 11.

S27A. Introduction to Musical Literature.

Mr. NIN-CULMELL

Lectures, illustrations, and readings designed to furnish a general appreciation of music. Open to all students. 2 units.

M Tu W Th F, 3.

105D. Principles of Composition.

Mr. SESSIONS

Introduction to the problems of musical movement and structure. Prerequisite: Music 101 (Advanced Counterpoint) and 102 (Advanced Harmony). 2 units.

M Tu W Th F, 1.

S108. Instrumentation.

Mr. DENNY

A study of the instruments of the orchestra, leading to practice in scoring for instrumental combinations, including the orchestra. Prerequisite: Music 4A-4B (Intermediate Harmony) and 100A (Score-Reading). 2 units.

M Tu W Th F, 12.

112. The Musical Language.

Mr. BLOCH

A study of the principles of musical configuration. The course will deal with examples from the masters to illustrate these principles in melody, counterpoint, harmony, fugue, and form in general, with special emphasis on the Fugues of the *Well-Tempered Clavichord*. Prerequisite: consent of the instructor. Limited to 20 students. 4 units.

M Tu W Th F, 9-11.

117D. The Piano Sonatas of Beethoven.

Mr. ELKUS

Open to all special summer students and regular students of junior standing. 2 units.

M Tu W Th F, 2.

150. Introduction to Musicology.

Mr. BUKOPZER

Lectures, discussions, and reports on methods of research in music. 2 units.

M Tu W Th F, 11.

S203. Seminar in Composition.

Mr. SESSIONS

Prerequisite: consent of the instructor. 2 units.

M W F, 2-4.

S211. Seminar: Studies in Music Research.

Mr. BUKOPZER

Prerequisite: consent of the instructor. 2 units.

M W F, 9-11.

435c. Advanced Choral Conducting.

Miss BACON

Practical application of conducting technique to choral literature of various styles and periods. Prerequisite: some training or experience in choral conducting and the permission of the instructor. 2 units.

M Tu W Th F, 12.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S199. Special Study for Advanced Undergraduates. Mr. BOYDEN in charge

2-4 units.

Hours to be arranged.

S298. Special Studies.

Mr. BOYDEN in charge

2-4 units.

Hours to be arranged.

NURSING

ELNORA E. THOMSON, R.N., Lecturer in Public Health Nursing.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

S418. The Nurse in Public Health.

Miss THOMSON

A study of public health nursing functions and activities, with special emphasis upon the responsibilities in family health services. 3 units.

M Tu W Th F, 9. Additional hours to be arranged.

OPTOMETRY

JACK T. HOBSON, B.S., Assistant Clinical Professor of Optometry.

FREDERICK L. MASON, M.A., Assistant Clinical Professor of Optometry.

NOTE.—Courses are limited to students in the School of Optometry who have completed the junior year program of the optometry curriculum.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

410. Introduction to Clinical Optometry.

Mr. HOBSON

Lectures and clinical practice in the technique of eye examinations and interpretation of clinical data. Fee, \$8.75. 2 units.

M W F, 9; laboratory hours to be arranged.

S499. Special Study for Advanced Undergraduates.

Mr. HOBSON

Fee, \$8.75 per unit if clinical practice is included. 1–2 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

410. Introduction to Clinical Optometry.

Mr. MASON

Lectures and clinical practice in the technique of eye examinations and interpretation of clinical data. Fee, \$8.75. 2 units.

M W F, 9; laboratory hours to be arranged.

S499. Special Study for Advanced Undergraduates.

Mr. MASON

Fee, \$8.75 per unit if clinical practice is included. 1–2 units.

Hours to be arranged.

ORIENTAL LANGUAGES

SHIH-HSIANG CHEN, B.Litt., Assistant Professor of Chinese.

FERDINAND D. LESSING, Ph.D., Agassiz Professor of Oriental Languages.

EDWARD H. SCHAFER, JR., Ph.D., Assistant Professor of Oriental Languages.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S12A. **Elementary Written Chinese.** Mr. SCHAFER
2 units.
M Tu W Th F, 9.
- S17. **Introduction to the Study of Chinese Characters.** Mr. LESSING
2 units.
M Tu W Th F, 10.
- S44. **Civilizations of Eastern Asia.** Mr. SCHAFER
2 units.
M Tu W Th F, 10.
152. **Buddhism in India, China, and Tibet. Illustrated.** Mr. LESSING
2 units.
M Tu W Th F, 9.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S12B. **Elementary Written Chinese.** Mr. CHEN
2 units.
M Tu W Th F, 9.
- S112. **Survey of Chinese Literature and Literary Criticism.** Mr. CHEN
2 units.
M Tu W Th F, 11.

PALEONTOLOGY

ARTHUR K. MILLER, Ph.D., Professor of Geology, the State University of Iowa.

SECOND SESSION SUMMER COURSE

(August 2 to September 11, 1948)

- S1. **General Paleontology.** Mr. MILLER
General principles of the history of life. Lectures, field trips, and laboratory.
3 units.
Lectures, M Tu W Th, 9; laboratory, F, 1-4.

PHILOSOPHY

GEORGE P. ADAMS, Ph.D., Mills Professor of Mental and Moral Philosophy and Civil Polity.

WILLIAM R. DENNES, D.Phil., Professor of Philosophy and Chairman of the Department.

ABRAHAM EDEL, Ph.D., (Professor of Philosophy in the College of the City of New York), Lecturer in Philosophy.

DONALD KALISH, M.A., Lecturer in Philosophy.

EDWARD W. STRONG, Ph.D., Professor of Philosophy.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S6A. Introduction to Philosophy.

Mr. STRONG

The course is designed to introduce the student to the vital issues, both theoretical and practical, with which human intelligence has been confronted in the past and is confronted in the present age. The content of the course will be concerned with the major ethical and political values of civilized life. 2 units.

M Tu W Th F, 11.

S6B. Introduction to Philosophy.

Mr. EDEL

Continuation of S6A, with emphasis on problems of meaning, validity, and relevance in common sense, science, religion, and metaphysics. 2 units.

M Tu W Th F, 10.

S12. Logic.

Mr. KALISH

A study of the basic conditions of clear discourse and valid inference; an analysis of forms of reasoning which are commonly used in practical life and in the sciences. 2 units.

M Tu W Th F, 9.

S114. Theory of Knowledge.

Mr. KALISH

2 units.

M Tu W Th F, 2.

S117. Aristotle.

Mr. EDEL

2 units.

M Tu W Th F, 11.

S136c. Aesthetics.

Mr. STRONG

A study of values in applied and fine arts, and of the place and role of art in human affairs. 2 units.

M Tu W Th F, 1.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S6A. Introduction to Philosophy.

Mr. ADAMS

The course is designed to introduce the student to the vital issues, both theoretical and practical, with which human intelligence has been confronted in the past and is confronted in the present age. The content of the course will be concerned with the major ethical and political values of civilized life. 2 units.

M Tu W Th F, 10.

S6B. Introduction to Philosophy.

Mr. DENNES

Continuation of S6A, with emphasis on problems of meaning, validity, and relevance in common sense, science, religion, and metaphysics. 2 units.

M Tu W Th F, 11.

S104. Ethics.

Mr. ADAMS

A critical study of some of the principal types of ethical theory, with historical examples. 2 units.

M Tu W Th F, 11.

S135. Contemporary Tendencies in Philosophy.

Mr. DENNES

2 units.

M Tu W Th F, 1.

PHYSICAL EDUCATION

ANNA H. BAHME, M.S., Junior Supervisor of Physical Education.

CARYL E. CUDDEBACK, M.A., Instructor in Physical Education, Fremont High School, Oakland.

LANCE FLANAGAN, A.B., Junior Supervisor of Physical Education.

FRANKLIN M. HENRY, Ph.D., Associate Professor of Physical Education.

JACK E. HEWITT, Ed.D., Assistant Professor of Physical Education.

PAULINE HODGSON, Ph.D., Professor of Physical Education.

CHARLES J. KEENEY, A.B., Assistant Supervisor of Physical Education.

RALFE D. MILLER, M.A., Associate Supervisor of Physical Education.

HEBER A. NEWSOM, M.A., Associate Supervisor of Physical Education and in charge of Children's Recreation School.

CHARLES A. PEASE, A.B., Associate Supervisor of Physical Education.

JANE W. SHURMER, M.A., Associate Professor and Head of the Department of Physical Education for Women, Chico State College.

PATRICK A. TORK, M.A., Associate Professor of Physical Education, the University of West Virginia.

GENERAL INFORMATION

A medical examination is required of all students in the Summer Sessions who enroll in activity courses in physical education. Regular students enrolled in the spring semester, 1948, are not required to take the medical examination. Men students should make appointments for the examination on the day of registration in Room 103, Gymnasium for Men; women, in Room 200, Hearst Gymnasium.

A supplies and service fee of \$2.50 is charged every person either enrolling in activity courses in physical education or wishing to make use of the gymnasium facilities during the Summer Sessions. This one fee covers the use of suits and towels for recreational swimming, as well as the use of facilities for any or all courses taken by the student. Students must furnish their own shoes and bathing caps. Men students present the Cashier's receipt for the supplies and service fee of \$2.50 at Room 2B, Gymnasium for Men; women students, at Room 104, Hearst Gymnasium.

At the Hearst Gymnasium for Women and the Gymnasium for Men, rooms, courts, swimming pools, sports fields, and equipment for games and sports are available, at specified times, to all students who have paid the \$2.50 fee and who wish an opportunity for exercise and recreation, either with or without instruction.

Information concerning the requirements for the master's degree in physical education is given in the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION. This bulletin may be obtained from the Dean of the Graduate Division, University of California, Berkeley 4.

FIRST SUMMER SESSION COURSES
(June 21 to July 31, 1948)

ACTIVITY COURSES FOR MEN AND WOMEN

6A. Elementary Tennis.

½ unit.

M Tu W Th F, 9, 10, 11.

M Tu W Th F, 1.

M Tu W Th F, 2.

Mr. PEASE and Assistants
Mrs. BAHME and Assistants
Mr. FLANAGAN and Assistants

6B. Intermediate Tennis.

½ unit.

M Tu W Th F, 9, 10, 11.

M Tu W Th F, 1.

M Tu W Th F, 2.

Mr. PEASE and Assistants
Mrs. BAHME and Assistants
Mr. FLANAGAN and Assistants

24. Badminton.

Drill in fundamental strokes and the principles of court tactics; tournament play. ½ unit.

M Tu W Th F, 10.

M Tu W Th F, 1.

Mrs. BAHME
Miss SHURMER

40A. Elementary Modern Dance.

Rhythmic training; elementary technique and compositional forms. ½ unit.

M Tu W Th F, 10.

Miss CUDEBACK

40B. Intermediate and Advanced Modern Dance.

Intermediate dance techniques; development of student compositions. ½ unit.

M Tu W Th F, 11.

Miss CUDEBACK

41. Folk and Square Dancing.

Selected European and American folk dances. ½ unit.

M Tu W Th F, 2.

Miss CUDEBACK

47A. Elementary Social Dancing.

Fundamentals of ballroom dancing with emphasis on fox trot and waltz patterns. ½ unit.

M Tu W Th F, 3.

Miss CUDEBACK

47B. Intermediate Social Dancing.

Complex fox trot and waltz patterns; elementary patterns of tango and rhumba. ½ unit.

M Tu W Th F, 4.

Miss CUDEBACK

ACTIVITY COURSES FOR MEN ONLY

1A. Bodybuilding.

General conditioning; progressive teaching of heavy apparatus and tumbling. ½ unit.

M Tu W Th F, 2.

Mr. PEASE

1w. Weightlifting.

Body building through the use of heavy weights; coaching and practice in the standard lifts. ½ unit.

M Tu W Th F, 3, 4.

Mr. PEASE and Assistants

5. Basketball.

Mr. FLANAGAN

 $\frac{1}{2}$ unit.

M Tu W Th F, 9, 10, 11.

10A. Elementary Swimming.

Open to nonswimmers only. Floating, breathing, relaxation, and simple propulsion; backstroke and underarm side stroke. Special attention to those who are afraid of the water. $\frac{1}{2}$ unit.

M Tu W Th F, 10, 11, 12, 2.

Mr. KEENEY and Assistants

M Tu W Th F, 3.

Mr. TORK and Assistants

10B. Intermediate Swimming.

Open to students who can swim 20 yards free style. The four scissor-kick strokes, viz., underarm side, single overarm, "trudgeon," and "trudgeon" crawl; fundamentals of the American crawl. $\frac{1}{2}$ unit.

M Tu W Th F, 10, 11, 12, 2.

Mr. KEENEY and Assistants

M Tu W Th F, 3.

Mr. TORK and Assistants

10C. Advanced Swimming.

Mr. TORK and Assistants

For those who wish to learn the speed strokes, the American crawl, racing backstroke, racing dive, turn, breast stroke, and plain springboard dive. $\frac{1}{2}$ unit.

M Tu W Th F, 4.

10D. Springboard Diving (Elementary and Intermediate).

Mr. KEENEY

Springboard fundamentals; the swan, back, jackknife, cutaway jackknife, forward somersault, backward somersault, and other dives according to individual ability. $\frac{1}{2}$ unit.

M Tu W Th F, 11, 2.

17T. Trampoline Tumbling.

Mr. KEENEY

Individual instruction on the trampoline (spring net); some experience in tumbling or springboard diving recommended. Enrollment on consent of instructor. $\frac{1}{2}$ unit.

M Tu W Th F, 9.

ACTIVITY COURSES FOR WOMEN ONLY**43A. Elementary Swimming.**

Mrs. BAHME

For beginners. Fundamental exercises to develop confidence. Back, side, and crawl strokes, and elementary diving. $\frac{1}{2}$ unit.

M Tu W Th F, 11, 2, 3.

43B. Intermediate Swimming.

Mrs. BAHME

For students who are able to handle themselves in deep water, and who have some knowledge of fundamental strokes. Emphasis on crawl and back crawl strokes. Elementary springboard diving. $\frac{1}{2}$ unit.

M Tu W Th F, 11, 2, 3.

METHODS COURSE FOR MEN AND WOMEN**361. The Teaching of Physical Education in Secondary Schools. (Women and Men).**

Miss SHURMER

A discussion of the problems of organization of physical activities; examination, classification, and grouping of pupils; selection of activities, organization and promotion of intramural sports programs; problems of public relations. 2 units.

M Tu W Th F, 9.

METHODS COURSES FOR MEN ONLY

S301A. Theory and Teaching of Gymnastic and Mass Athletics. Mr. PEASE
Use of the formal method in teaching large groups. 1 unit.
M Tu W Th F, 2.

S305. Theory and Teaching of Basketball. Mr. FLANAGAN
Designed primarily to meet the needs of men who wish to coach high school basketball. The problems of the coach and methods of coaching basketball are analyzed and discussed. Members of the class will be given an opportunity to participate in floor work, involving the technique of offensive and defensive team play. Enrollment only upon consent of instructor. 1 unit.
M Tu W Th F, 1.

S310. The Theory and Teaching of Swimming. Mr. TORK
Progressive land and water drills, as used in the instruction of elementary, intermediate and advanced swimmers. Methods of class and individual instruction. 1 unit.
M Tu W Th F, 2.

310D. Theory and Teaching of Diving. Mr. KEENEY
Techniques in guiding the student through diving fundamentals; the teaching of competitive diving; judging competition. Members of the class will be given an opportunity for participation. 1 unit.
M Tu W Th F, 10.

317r. Theory and Teaching of Trampoline. Mr. KEENEY
Technique of teaching trampoline tumbling to various age groups; supervision and safeguards for trampoline use; members of the class will be given an opportunity for participation. 1 unit.
M Tu W Th F, 9.

METHODS COURSE FOR WOMEN ONLY

368. The Teaching of Team Sports for Women. Miss SHURMER
The following sports are included: hockey, soccer, speedball, basketball, softball. Methods and materials for teaching of the sports listed; class organization; officiating. One hour lecture and one hour laboratory. 2 units.
M Tu W Th F, 10-12.

THEORY AND GRADUATE COURSES FOR MEN AND WOMEN

S110. Psychologic Bases of Physical Activity. Mr. HENRY
Motor learning, facilitation and inhibition, motivation, set, reaction time, coordination efficiency, fatigue, emotion, and personality in relation to physical activity; the psychology of athletic performance. Prerequisite: Psychology 1A or the consent of the instructor. 2 units.
M Tu W Th F, 8.

S140. Community Recreation (Men and Women).

Mr. TORK

The meaning and scope of recreation in the leisure time life of the American people. Purposes and programs of agencies concerned with recreation. Consideration of special types: industrial, commercial, home, and neighborhood. Problems of leadership. Critical evaluation of representative surveys. Prerequisite: upper division standing. 2 units.

NOTE.—Course 140 is not open to students who have taken courses 143A or 143B; and the latter are not open for full credit to students who have taken course 140.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

Mr. HENRY

1-4 units.

Hours to be arranged.

S260A or 260B. Seminar in Physical Education.

Mr. HENRY

The meaning, methods, and techniques of research procedure as applied to physical education; a critical review of selected studies, literature, practices and procedures in the field; application of this training to the independent solution of a problem. 2 units for each course.

Tu Th, 9-11; and conferences.

S290. Research.

Mr. HENRY

Students who plan to enroll in this course should discuss problems in advance with the instructor, either in person or by correspondence. 2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)*

A supplies and service fee of \$2.50 is charged also during the Second Summer Session (see General Information, page 128). The facilities in the Gymnasium for Men will not be available during the morning hours. The swimming pool in the Gymnasium for Men will be available to women students as well as men students between the hours of 12 noon and 5 p.m.

6A. Elementary Tennis (Men and Women). $\frac{1}{2}$ unit.

M Tu W Th F, 9, 10, 11, 1.

M Tu W Th F, 2, 3.

Mr. MILLER and Assistants

Mr. HEWITT and Assistants

6B. Intermediate Tennis (Men and Women). $\frac{1}{2}$ unit.

M Tu W Th F, 9, 10, 11, 1.

M Tu W Th F, 2, 3.

Mr. MILLER and Assistants

Mr. HEWITT and Assistants

10A. Elementary Swimming (Men).

Mr. NEWSOM and Assistants

 $\frac{1}{2}$ unit.

M Tu W Th F, 2, 3.

10B. Intermediate Swimming (Men).

Mr. NEWSOM and Assistants

 $\frac{1}{2}$ unit.

M Tu W Th F, 2, 3.

- 10C. **Advanced Swimming (Men and Women).** Mr. HEWITT and Assistants
 $\frac{1}{2}$ unit.
 M Tu W Th F, 4.
- 43A. **Elementary Swimming (Women).** Miss HODGSON and Assistants
 $\frac{1}{2}$ unit.
 M Tu W Th F, 11, 2.
- 43B. **Intermediate Swimming (Women).** Miss HODGSON and Assistants
 $\frac{1}{2}$ unit.
 M Tu W Th F, 11, 2.
- S199. **Special Study for Advanced Undergraduates.** Miss HODGSON
 1-4 units.
 Hours to be arranged.
- S290. **Research.** Miss HODGSON
 Students who plan to enroll in this course should discuss problems in advance with the instructor, either in person or by correspondence.
 2-4 units.
 Hours to be arranged.
- S306. **The Theory and Teaching of Tennis.** Mr. MILLER
 Practice in fundamental strokes and advanced court strategy. Lectures, moving pictures, and other demonstrations emphasizing importance and methods of developing correct technique. 1 unit.
 Tu, 12; and four laboratory hours to be arranged.
- S310. **Theory and Teaching of Swimming.** Mr. HEWITT
 Progressive land and water drills, as used in the instruction of elementary, intermediate, and advanced swimmers. Methods of class and individual instruction.
 1 unit.
 M Tu W Th F, 4.

CHILDREN'S RECREATION SCHOOL

(August 4 to September 8, 1948)

The Children's Recreation School will be conducted at the Gymnasium for Men, Bancroft Way and Dana Street. The Department of Physical Education has made available its fields, gymnasium, and swimming pools during the morning hours from 9 to 12, Monday through Friday, for the purpose of offering a systematic program of instruction in recreational activities to children from 7 to 13 years of age. The activities proposed are as follows:

For Girls: swimming, dancing, archery, games, and handicraft.

For Boys: swimming, tumbling, archery, field sports, and handicraft.

Enrollment is limited to 140 girls and 140 boys. Applications received after this enrollment has been reached will be filed in the order of their receipt. This file will constitute a waiting list, and parents of children whose names are included thereon will be notified should an opening occur.

A fee of \$20 will be charged for each child. A deposit of \$5 is required at the time the application card is filed. The application cards are to be sent to the Cashier's Office, Room 107, Administration Building, University of California, Berkeley 4, California, accompanied by a money order or check for \$5. (Checks should be made payable to The Regents of the University of Califor-

nia.) This deposit will not be refunded upon withdrawal. The balance of \$15 must be paid on Thursday, July 29, during the hours of 9 A.M. to 4 P.M. at the above specified office. The fee receipt is then to be presented at Room 103, Gymnasium for Men. Payment of the deposit reserves a place for the child's enrollment only up to Wednesday, August 4. Classes will begin on Wednesday, August 4, at 9 o'clock.

Application cards for enrollment may be obtained on or after April 1, 1948, by addressing a request to the Children's Recreation School, Gymnasium for Men, University of California, Berkeley 4, California.

Each child must have a medical examination within four days of the opening of the school. Parents are urged to make appointments for the examinations as soon as the applications are accepted.

PHYSICS

DAVID M. DENNISON, Ph.D., Professor of Physics, University of Michigan.

ENRICO FERMI, Ph.D., Nobel Laureate, Institute for Nuclear Studies, University of Chicago.

CHARLES A. FOWLER, JR., Ph.D., Head of Department of Physics, Pomona College.

BURTON J. MOYER, Ph.D., Lecturer in Physics and Physicist in the Radiation Laboratory.

J. ROBERT OPPENHEIMER, Ph.D., D.Sc., LL.D., Director of the Institute for Advanced Study, Princeton.

NORMAN F. RAMSEY, Ph.D., Associate Professor of Physics, Harvard University.

JAMES G. RETALLACK, Ph.D., Instructor in Physics.

HERSCHEL R. SNODGRASS, M.S., Associate in Physics.

MARY BENSON SUMMERFIELD, M.A., Associate in Physics.

WILLIAM W. WATSON, Ph.D., Professor of Physics and Chairman of the Department, Yale University.

HANS WELTIN, Ph.D., Assistant Professor of Physics (Santa Barbara).

A student's program will be limited to 4 units when it includes the following courses: S2A-S3A, or S4A or S4B in the First Summer Session, and S2B-S3B, or S4C in the Second Summer Session.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S2A. General Physics.

Mr. RETALLACK

Lectures, with experimental illustrations and assigned problems, on mechanics, properties of matter, sound and heat. If offered with one unit of laboratory work, Physics 3A, it constitutes the first half of the course prescribed for premedical students. Prerequisite: high school physics or chemistry, or Physics 10AB, and trigonometry. 3 units.

Lectures: M Tu W Th F, 1:40-3.

Two discussion sections weekly, to be arranged.

S3A. Physical Measurements.

Mr. RETALLACK

Laboratory experiments in mechanics, properties of matter, sound and heat, designed to accompany the lectures in 2A. Laboratory fee, \$4.50. 1 unit.

Two three-hour laboratory periods per week.

Section 1, M F, 9-12; Section 2, Tu Th, 9-12; Section 3, W S, 9-12.

S4A. General Physics.

Mr. WELTIN

Lectures with experimental illustrations and assigned problems on mechanics and properties of matter, and two three-hour laboratory periods per week. Together with Physics 4B and 4C, this course represents the prescribed physics for students in the College of Engineering. Prerequisite: high school physics or chemistry, or Physics 10AB, and Mathematics 3A-3B or its equivalent. Laboratory fee, \$4.50. 4 units.

Lectures: M Tu W Th F, 10:40-12.

Laboratory: Section 1, M F, 1-4; Section 2, Tu Th, 1-4; Section 3, W, 1-4 and S, 9-12.

S4B. General Physics.

Mr. FOWLER

Lectures with experimental illustrations and assigned problems in electricity, magnetism, and elements of atomic structure, and two three-hour laboratory periods per week. Together with Physics 4A and 4C, this course represents the prescribed physics for students in the College of Engineering. Prerequisite: Physics 4A or 1A, and Mathematics 3A-3B. Laboratory fee, \$4.50. 4 units.

Lectures: M Tu W Th F, 8-9:30.

Laboratory: Section 1, M F, 1:15-4:15; Section 2, Tu Th, 1:15-4:15; Section 3, W, 1:15-4:15 and S, 9-12.

S108B. Physical Optics.

Mr. MOYER

Lectures, and two three-hour laboratory periods a week, on the phenomena of diffraction, interference, and polarization of light and their applications. Prerequisite: Physics 4A, 4B, 4C, or 2A-2B, 3A-3B. Laboratory fee, \$7. 3 units.

Lectures: M Tu W Th F, 11.

Laboratory: Section 1, M F, 1-4; Section 2, Tu Th, 1-4; Section 3, W, 1-4 and S, 9-12.

S121. Introduction to Atomic Structure.

Mr. WATSON

An introduction to atomic physics treating cathode and positive rays, the electron, thermionic emission, the photoelectric effect, the structure of the atom, and the interpretation of spectra and X rays. Prerequisite: Physics 4A, 4B, 4C, or 2A-2B, 3A-3B, and a working knowledge of the differential and integral calculus. 3 units.

M Tu W Th F, 9-10:30.

S199. Special Study for Advanced Undergraduates. Mr. MOYER in charge.

1-2 units.

Hours to be arranged.

S221A. Theoretical Atomic Physics.

Mr. OPPENHEIMER

Physical principles of quantum theory, correspondence, complementarity; atomic states and transitions; elementary atomic and nuclear collision problems. 3 units.

M Tu W Th F, 10:40-12.

S290-1. Seminar: The Separation and Use of Isotopes in Physical Research.

1 unit.

Two hours per week. To be arranged.

Mr. WATSON

S290-2. Seminar: Theoretical Physics.

Mr. OPPENHEIMER

1 unit.

Two hours per week. To be arranged.

S295. Research.

Mr. OPPENHEIMER in charge

1 or 2 units. Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S2B. General Physics.

Mr. SNODGRASS

Lectures, with experimental illustrations and assigned problems, on light, electricity, and magnetism. If offered with one unit of laboratory work, Physics 3B, it constitutes the second half of the course prescribed for premedical students. Prerequisite: Physics 2A. 3 units.

Lectures: M Tu W Th F, 1:40-3.

Two discussion sections weekly. Hours to be arranged.

S3B. Physical Measurements.

Mr. SNODGRASS

Laboratory experiments in light, electricity, and magnetism, designed to accompany the lectures in 2B. Laboratory fee, \$4.50. 1 unit.

Two three-hour laboratory periods per week.

Section 1, M F, 9-12; Section 2, Tu Th, 9-12; Section 3, W S, 9-12.

S4C. General Physics.

Mrs. SUMMERFIELD

Lectures with experimental illustrations and assigned problems on heat, wave motion, sound and light, and two three-hour laboratory periods per week. Together with Physics 4A and 4B, this course represents the prescribed physics for students in the College of Engineering. Prerequisite: Physics 4A, or 1A and Mathematics 3A-3B. Laboratory fee, \$4.50. 4 units.

Lectures: M Tu W Th F, 9-10:30.

Laboratory: Section 1, M F, 1-4; Section 2, Tu Th, 1-4; Section 3, W, 1-4 and S, 9-12.

S115. Introduction to Quantum Mechanics.

Mr. FERMI

The classical background, basic ideas, and methods of quantum mechanics, with applications to atomic physics. Prerequisite: Physics 105A, 121. 2 units.

M Tu W Th F, 11.

S124. Radioactivity and Nuclear Structure.

Mr. RAMSEY

Discovery of radioactivity, α , β , and γ rays, theory of successive transformations, nature of radioactivity, artificial transmutations, nuclear structure. 3 units.

M Tu W Th F, 8-9:30.

S199. Special Study for Advanced Undergraduates. Mr. RAMSEY in charge
1-2 units.

Hours to be arranged.

S219. Kinetic Theory.

Mr. DENNISON

The principles of thermodynamics, based upon the first and second laws. The thermodynamic investigation of the equilibrium states of various physical systems. Applications to radiation. A brief discussion of the so-called third law. 3 units.

M Tu W Th F, 9:40-11.

S290-1. Seminar: Nuclear Moments.

Mr. RAMSEY

1 unit.

Two hours per week. To be arranged.

S290-2. Seminar: Polyatomic Molecules (with particular reference to the recent work in Microwave spectroscopy).

Mr. DENNISON

1 unit.

Two hours per week. To be arranged.

S290-3. Seminar: Topics in Theoretical and Nuclear Physics. Mr. FERMI

1 unit.

Two hours per week. To be arranged.

S295. Research.

Mr. FERMI in charge

1 or 2 units. Hours to be arranged.

PHYSIOLOGY

D. HAROLD COPP, M.D., Ph.D., Assistant Professor of Physiology.

CECIL ENTENMAN, Ph.D., Lecturer in Physiology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Introductory Physiology. Lectures.

Mr. ENTENMAN

The physiology of muscle, nerve, central nervous system, sensation, circulation, respiration, excretion, and digestion. Prerequisite: high school chemistry and sophomore standing. 2 units.

M Tu W Th F, 1.

S1C. Introductory Physiology. Laboratory.

Mr. ENTENMAN

Prerequisite: Physiology S1A, completed or in progress. Fee, \$11.50. 2 units.

M Tu W Th F, 2-5.

S199. Special Study for Advanced Undergraduates.

The STAFF

Prerequisite: courses 100A-100B, or 110A-110B. 1-6 units.

Hours to be arranged.

S201A. Research.

The STAFF

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

113. Advanced Physiology.

Mr. COPP

Lectures and laboratory. Covers the laboratory work of Physiology 112 and may be substituted for this course in fulfillment of the requirements for the major. Limited to 30 students. Prerequisite: Physiology 1A-1C or equivalent. Fee \$20.50. 4 units.

M Tu W Th F S, 8-12.

S199. Special Study for Advanced Undergraduates.

The STAFF

Prerequisite: courses 100A-100B, or 110A-110B. 1-6 units.

Hours to be arranged.

S201B. Research.

The STAFF

1-4 units.

Hours to be arranged.

POLITICAL SCIENCE

ERIC C. BELLQUIST, Ph.D., Associate Professor of Political Science.

JOSEPH P. HARRIS, Ph.D., Professor of Political Science.

HANS KELSEN, Ph.D., Professor of Political Science.

GRAYSON L. KIRK, Ph.D., Professor of International Relations, Columbia University.

N. WING MAH, Ph.D., Associate Professor of Political Science.

DWIGHT WALDO, Ph.D., Assistant Professor of Political Science.

ORLANDO W. WILSON, A.B., Professor of Political Science.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. Introduction to Government.

Mr. BELLQUIST

An introduction to the principles and problems of government, with particular emphasis on national government in the United States. This course is designed to fulfill the American Institutions Requirement. 2 units.

M Tu W Th F, 8.

S114. Public Opinion and Propaganda.

Mr. BELLQUIST

The management of public opinion and factors conditioning the same; instruments of opinion dissemination; official propaganda in war and peace; lobbying and pressure groups; freedom of opinion and censorship. 2 units.

M Tu W Th F, 10.

S135. Political Development of China.

Mr. MAH

China as a nation in the Oriental world; impact of the Occident upon China and its repercussions; the internal and external aspects of the struggle for the creation of a modern democratic state; China in international politics. 2 units.

M Tu W Th F, 2.

S138. International Relations of the Far East.

Mr. MAH

A general survey. 2 units.

M Tu W Th F, 3.

S152. Political Parties in the United States.

Mr. HARRIS

The role of political parties in American government; organization and activities of parties; nominating systems, the conduct of elections, campaign techniques, voting and nonvoting, the spoils system; the influence of parties on public policy and administration. 2 units.

M Tu W Th F, 8.

S181. Principles of Public Administration.

Mr. HARRIS

The development of public administration; structure and organization, fiscal management, personnel management, public relations and reporting, the control of administration, powers and liabilities of public officials, and administrative adjudication and regulation. 2 units.

M Tu W Th F, 9.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***102. The Problem of Justice in Philosophy and Religion. Mr. KELSEN**

Introduction: Justice and law. The rationalistic solution of the problem of justice in the social philosophy of Aristotle, and in the moral philosophy of Kant. The metaphysical solution in the philosophy of Plato, in primitive religion, in the Holy Scriptures. 2 units.

M Tu W Th F, 1.

125. Basic Factors in International Relations. Mr. KIRK

An analysis of the economic, geographic, demographic, and political foundations of national power and their influence upon international relations. Special emphasis is given to problems of strategic planning. 2 units.

M Tu W Th F, 2.

126. Contemporary Problems in International Relations. Mr. KIRK

An analysis of selected problems in the field of international relations illustrating the processes of adjusting national policy differences through diplomatic and organizational means. Special attention will be given to the problem of security against war. 2 units.

M Tu W Th F, 3.

S127. Theories of International Relations. Mr. WALDO

Historical development and present range of political thought on relations between nations; origins and implications of the idea of sovereignty; the theory of an international community; theories of imperialism; Christian, social, and fascist ideas; geopolitical theories. 2 units.

M Tu W Th F, 9.

S133A. Principles of International Law: The Law of Peace. Mr. KELSEN

The nature and sources of international law. Subjects and subject matters of international law. Relation of international and national (municipal) law. The fundamental duties and rights of the state. Responsibility of the state. The intercourse of the states. State conflicts and their peaceful settlement. 2 units.

M Tu W Th F, 2.

167. Principles of Police Organization and Administration. Mr. WILSON

An introduction to the principles of police organization and administration, discussion of police statistics, criminal identification and investigation, and educational methods for combating crime and vice, and controlling traffic. This course will not be accepted as a substitute for 167A-167B for criminology majors. 2 units.

M Tu W Th F, 9.

S168A. Criminal Investigation and Identification.

Mr. WILSON

Principles involved in the investigation of crime scenes; searching for, preserving, and recording physical evidence; interrogation of witnesses and suspects; the identification of persons and property, including a discussion of fingerprint identification. 2 units.

M Tu W Th F, 10.

S180. American Administrative Theory.

Mr. WALDO

A study of the theory of the American public administration movement; leading men, movements, and motifs in the development of administrative doctrine; review and criticism of administrative theory on such subjects as separation of powers and interrelation of functions; relationships of administrative theory and political theory. 2 units.

M Tu W Th F, 11.

PSYCHOLOGY

- DONALD ADAMS, Ph.D., Professor of Psychology, Duke University.
- ROGER BARKER, Ph.D., Professor of Psychology and Chairman of the Department, University of Kansas.
- CLARENCE W. BROWN, Ph.D., Professor of Psychology.
- NORMAN CAMERON, Ph.D., M.D., Professor of Psychology and Psychiatry, University of Wisconsin.
- ALLISON DAVIS, Ph.D., Associate Professor of Education, University of Chicago.
- WAYNE DENNIS, Ph.D., Professor of Psychology and Chairman of the Department, University of Pittsburgh.
- M. BRUCE FISHER, Ph.D., Associate Professor of Psychology, Fresno State College.
- THOMAS M. FRENCH, M.D., Director of the Institute of Psychoanalysis, Chicago.
- RHEEM F. JARRETT, Ph.D., Assistant Professor of Psychology.
- HAROLD E. JONES, Ph.D., Professor of Psychology.
- DAVID KRECH, Ph.D., Associate Professor of Psychology.
- WILLIAM M. LEPLEY, Ph.D., Associate Professor of Psychology, Pennsylvania State College.
- ROBERT B. MACLEOD, Ph.D., Professor of Psychology and Chairman of the Department, McGill University, Montreal.
- QUINN MCNEMAR, Ph.D., Associate Professor of Psychology, Stanford University.
- ANN MAGARET, Ph.D., Associate Professor of Psychology, University of Wisconsin.
- ALEX C. SHERRIFFS, Ph.D., Assistant Professor of Psychology.
- ROBERT C. TRYON, Ph.D., Professor of Psychology and Chairman of the Department.
- READ D. TUDDENHAM, Ph.D., Assistant Professor of Psychology.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***SlA. General Psychology.**

Mr. TRYON

An introduction to the facts and principles of psychology, including discussions of the following topics: nature of abilities, drives and motives, emotions, intelligence, thinking and reasoning, memory and learning, normal and abnormal personality responses. 2 units.

M Tu W Th F, 9.

SlB. General Psychology.

Mr. DENNIS

Continuation of general psychology, with emphasis on the application of the experimental method to the study of psychological phenomena. 2 units.

M Tu W Th F, 10.

S2. Survey of Psychology.

Mr. SHERRIFFS

A continuation of course 1A intended primarily for students who will not continue in psychology. A survey of the special fields and applications of psychology. The sequence 1A-2 or 1A-1B will be accepted in fulfillment of requirement (e) for the degree of Associate in Arts. Prerequisite: course 1A. Not open for credit to students who have completed 1B. 2 units.

M Tu W Th F, 1.

S5. Introduction to Psychological Measurements.

Mr. JARRETT

Arrays of experimental measurements, central tendencies, variability, correlation, significance of measures; elementary reliability and validity of tests. Open only to students whose major subject is psychology. Prerequisite: second-year high school algebra or Mathematics D, and course 1A completed or in progress. Not open to students who are taking, or have taken, another course in statistics. 3 units.

M Tu W Th, lectures, 9; laboratory, 2-4.

S104. Principles of Test Construction.

Mr. MCNEMAR

Lectures and demonstrations. Methods of constructing and validating psychological tests and scales, devising adequate criteria, principles of item construction, item reliability and validity, determining optimal scoring and weighting, devising relative and absolute scales. Prerequisite: course 5 or an equivalent course in statistics. 2 units.

M Tu W Th F, 8.

S107. Advanced Psychological Measurements.

Mr. MCNEMAR

Reference points and units of measurement, correlation, reliability and validity, scoring of individual achievement, partial and multiple correlation, construction of scaled tests, representation of learning functions. Prerequisite: course 5 or an equivalent course in statistics. Fee, \$1.50. 3 units.

Lectures, M Tu W Th F, 10. Laboratory, M Tu W Th, 2-4.

119. The Psychology of Growth and Development.

Mr. JONES

Findings and implications of recent research, with special reference to growth studies of adolescents. Offered in conjunction with the Training Center in Family Life, Health, and Social Relations (Education 121), and also open to persons not enrolled in that course. 2 units.

M Tu W Th F, 10.

S126. Contemporary Psychology.

Mr. LEPLEY

Reading and discussion of current books and monographs, affording a survey of contemporary aims, methods, and achievements. Prerequisite: at least 6 upper division units in psychology. Primarily for seniors and graduates. 2 units.

M Tu W Th F, 1.

S141. Personality in Society and Culture.

Mr. DENNIS

A consideration of the social and cultural determinants of personality. 2 units.

M Tu W Th F, 9.

S145A. Social Psychology.

Mr. KRECH

A study of the behavior of man in his social relationships. Suggestion, propaganda, development of social behavior in childhood and adolescence, the indi-

vidual in his intimate social relationships, the individual as a member of various groups, and the interaction of groups as in war, labor conflicts, and political campaigns. 2 units.

M Tu W Th F, 8.

S146. Differential Psychology.

Miss MAGARET

The origin and nature of psychological differences between individuals. 2 units.

M Tu W Th F, 11.

S148A. Personality.

Miss MAGARET

A survey of recent thought and research in the field of personality, with emphasis on dynamic and genetic problems. Prerequisite: Psychology 162 or 168, and senior or graduate standing. 2 units.

M Tu W Th F, 1.

S162. Clinical Psychology.

Mr. SHERRIFFS

Behavior of normal children. Dynamics of personality development. 2 units.

M Tu W Th F, 2.

S168. Abnormal Psychology.

Mr. CAMERON

The relations of psychology to the psychoneuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbance. Prerequisite: 6 units of upper division psychology or, with the consent of the instructor, premedical status. 2 units.

M Tu W Th F, 10.

S185. Personnel and Industrial Psychology.

Mr. LEPLEY

A discussion of techniques for the selection and classification of employees, the psychological aspects of the study of work methods, conditions of work, training, employee motivation and morale. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

1-5 units.

The STAFF (Mr. KRECH in charge)

Hours to be arranged.

S213. Research.

The STAFF (Mr. KRECH in charge)

Laboratory, library, or field work as the problem requires. 1-4 units.

Hours to be arranged.

S214q. Graduate Seminar in Medical Psychology.

Mr. CAMERON

2 units.

M W, 8-10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. General Psychology.

Mr. MACLEOD

An introduction to the facts and principles of psychology, including discussions of the following topics: nature of abilities, drives and motives, emotions, intelligence, thinking and reasoning, memory and learning, normal and abnormal personality responses. 2 units.

M Tu W Th F, 11.

S1B. General Psychology.

Mr. BROWN

Continuation of general psychology, with emphasis on the application of the experimental method to the study of psychological phenomena. 2 units.

M Tu W Th F, 8.

S3. Introduction to Applied Psychology.

Mr. FISHER

A survey of psychological problems involved in the selection of employees, industrial production, conditions of work, motivation of employees, advertising, selling, market research, measurement of public opinion, law, and highway safety. Prerequisite: sophomore standing. 2 units.

M Tu W Th F, 10.

111. Psychological Problems of Adolescence.

Mr. TUDDENHAM

Physical and physiological factors in adolescent behavior. Mental, emotional, and social development. Problems of the normal adolescent in achieving psychological maturity. 2 units.

M Tu W Th F, 8.

S112. Child Psychology.

Mr. ADAMS

The development of motor functions, social and emotional traits, language, and mental abilities. Individual differences in development and performance, as related to physical, social, and psychological factors. 2 units.

M Tu W Th F, 1.

S134. Motivation.

Mr. MACLEOD

The nature of primary and secondary drives; the theories concerning drives found in animal, child, experimental, social and abnormal psychology, and in philosophy. 2 units.

M Tu W Th F, 9.

S141. Personality in Society and Culture.

Mr. DAVIS

A consideration of the social and cultural determinants of personality. 2 units.

M Tu W Th F, 2.

S145A. Social Psychology.

Mr. DAVIS

A study of the behavior of man in his social relationships. Suggestion, propaganda, development of social behavior in childhood and adolescence, the individual in his intimate social relationships, the individual as a member of various groups, and the interaction of groups as in war, labor conflicts, and political campaigns. 2 units.

M Tu W Th F, 1.

S148A. Personality.

Mr. BARKER

A survey of recent thought and research in the field of personality, with emphasis on dynamic and genetic problems. Prerequisite: Psychology 162 or 168, and senior or graduate standing. 2 units.

M Tu W Th F, 10.

S149. Dynamic Psychology.

Mr. FRENCH

A general survey of the psychodynamics of behavior, with special emphasis upon the experimental literature. Prerequisite: senior or graduate standing, and permission of the instructor. 2 units.

M Tu W Th F, 11.

S168. Abnormal Psychology.

Mr. ADAMS

The relations of psychology to the psychoneuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbance. Prerequisite: 6 units of upper division psychology or, with consent of the instructor, pre-medical status. 2 units.

M Tu W Th F, 2.

S185. Personnel and Industrial Psychology.

Mr. FISHER

A discussion of techniques for the selection and classification of employees, the psychological aspects of the study of work methods, conditions of work, training, employee motivation and morale. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

1-5 units.

The STAFF (Mr. BARKER in charge)

Hours to be arranged.

S213. Research.

The STAFF (Mr. BARKER in charge)

Laboratory, library, or field work as the problem requires. 1-4 units.

Hours to be arranged.

S214T. Seminar in Dynamic Psychology.

Mr. FRENCH

2 units.

M F, 9-11.

PUBLIC HEALTH

HERBERT BAUER, M.D., Lecturer in Public Health.

DWIGHT M. BISSELL, M.A., M.D., M.S.P.H., Lecturer in Public Health.

RICHARD A BOLT, A.B., M.D., Dr.P.H., Lecturer in Public Health.

LEON LEWIS, B.S., M.D., Associate Professor of Industrial Health.

EDWARD S. ROGERS, A.B., M.D., M.P.H., Professor of Public Health and Medical Administration.

WILLIAM W. STILES, B.S., M.D., M.P.H., Associate Professor of Public Health.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S5A. Elementary Public Health.

Mr. STILES

A survey of the entire field of public health, including a consideration of the evolution of disease prevention and control; the social, medical and economic aspects of sickness, disability, and death. 3 units.

M Tu W Th F, 7:40-9.

S121. Child Hygiene.

Mr. BOLT

The maintenance of optimal physical, mental and nutritional status; the prevention and control of common deficiencies and abnormalities such as those related to nutrition, digestion, circulation, the central nervous system, vision, hearing, speech, and body mechanics. 3 units.

M Tu W Th F, 9-10:30.

S145. Community Control of Communicable Diseases.

Mr. BISSELL

The epidemiology and community control of communicable disease, including tuberculosis and the venereal infections. Required of all candidates for the certificate in public health nursing. 3 units.

Tu Th, 3-5; S, 9:40-12.

S170. Introduction to Occupational Health and Industrial Hygiene.

Mr. LEWIS

A survey of the field of industrial hygiene and occupational health problems. Discussion of public and private organizations concerned with the health of the industrial worker; common occupational hazards causing morbidity; industrial safety and environmental control; medical care and compensation for disability resulting from industrial accident and disease. 2 units.

M Tu W Th F, 9.

S199. Special Study for Advanced Undergraduates.

Mr. ROGERS

1-5 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

Mr. ROGERS

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S5B. Elementary Public Health.****Mr. BAUER**

Continuation of S5A. S5A is prerequisite to S5B. 3 units.

M Tu W Th F, 7:40-9.

S199. Special Study for Advanced Undergraduates.**Mr. ROGERS**

1-5 units.

Hours to be arranged.

S299. Special Study for Graduate Students.**Mr. ROGERS**

1-4 units.

Hours to be arranged.

SCANDINAVIAN LANGUAGES AND LITERATURE

**ASSAR GÖTRIK JANZÉN, Ph.D., Visiting Professor of Scandinavian Languages
and Literature.**

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

104. Advanced Danish.

Danish grammar, composition, reading.

2 units.

M Tu W Th F, 2.

MR. JANZÉN

107. The Plays of Ibsen.

All works read in translation.

2 units.

M Tu W Th F, 3.

MR. JANZÉN

SLAVIC LANGUAGES

GEORGE C. GUINS, LL.M., Lecturer in Russian.

OLEG A. MASLENIKOV, Ph.D., Assistant Professor of Russian and Chairman of the Department.

LUDMILA PATRICK, M.A., Lecturer in Russian.

GLEB STRUVE, A.B., Professor of Russian.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S102A. **Second-Year Russian.** Mr. MASLENIKOV
3 units.
M Tu W Th F, 2-3:30.
- S103A. **Third-Year Russian.** Mr. STRUVE
2 units.
M Tu W Th F, 11.
- S130. **Russian Literature of the Nineteenth Century.** Mr. STRUVE
2 units.
M Tu W Th F, 9.
- S199. **Special Study for Advanced Undergraduates.**
1-4 units. The STAFF (Mr. MASLENIKOV in charge)
Hours to be arranged.
- S298. **Individual Work.** The STAFF (Mr. MASLENIKOV in charge)
1-2 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S102B. **Second-Year Russian.** Mr. GUINS
Continuation of Russian S102A. 2 units.
M Tu W Th F, 2.
- S103B. **Third-Year Russian.** Mrs. PATRICK
Continuation of Russian S103A. 3 units.
M Tu W Th F, 10:30-12.
- S138. **Modern Russia.** Mr. GUINS
Life and intellectual currents of modern Russia. 2 units.
M Tu W Th F, 9.
- S199. **Special Study for Advanced Undergraduates.**
1-4 units. The STAFF (Mrs. PATRICK in charge)
Hours to be arranged.

SOCIAL WELFARE

EDITH L. LAUER, M.A., formerly Director, Jewish Family and Children's Bureau, Baltimore.

DAVIS McENTIRE, Ph.D., Lecturer in Social Welfare.

BERTHA C. REYNOLDS, A.B., B.S., formerly Associate Director, Smith College School for Social Work, and Visiting Lecturer in the School of Social Welfare at Washington University and the University of Michigan.

HENRY C. SCHUMACHER, M.D., I.L.D., Medical Director for the Western States, U. S. Public Health Service.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

211. Rural Welfare Problems.

Mr. McENTIRE

Basis, character, and treatment of welfare problems particularly affecting rural populations; rural incomes, levels of living and welfare standards; public welfare policy and administration in rural areas. 2 units.

M W, 7-9:30 P.M.

S253A. Children in Foster Care.

Miss LAUER

The principles and methods of child placing, including questions of separation, preparation for change, selection of substitute environment (foster home and institution) and treatment in foster families. Prerequisite: A.B. or equivalent degree from a recognized college. 2 units.

W F, 3:30-6.

S253b. Social Case Work with Children.

Miss LAUER

Special course particularly designed to explore the environmental and emotional factors in the behavior of children and the way of treating them. Prerequisite: completion of one year of graduate work in an approved school of social work, including at least one year of case work and field work. 2 units.

Tu Th, 7-9:30 P.M.

S258A. Advanced Social Case Work.

Miss REYNOLDS

A seminar on a discussion basis offering the opportunity to formulate and clarify problems of case work method. Readings and students' own case material may be used. Prerequisite: completion of one year of graduate work in an approved school of social work, including two semesters of case work and field work. 2 units.

M W, 3:30-6.

259. Case Work Supervision.

Miss REYNOLDS

Discussion focused on professional development of the worker, the application of educational principles in the learning process in social case work. Method and content presented through lectures and through selected records of supervisory problems. Prerequisite: at least one year of experience in supervision in a social agency and completion of one year of graduate work in an approved school of social work, including at least two semesters of case work and field work. 2 units.

Tu Th, 3:30-6.

S266A. Psychiatric Aspects of Case Work with Children. Mr. SCHUMACHER

Psychiatric factors in adoption and in child placement in foster home and institution; psychology and psychopathology of behavior disorders and neuroses in children; the nature and meaning of psychotherapy with children and parents; lectures, class discussion and reports on treatment procedures. Prerequisite: completion of one year of graduate work in an approved school of social work, including at least two semesters of case work and field work, and adequate preparation in psychiatry and social work, or psychiatric information. 2 units.

W F, 7-9:30 P.M.

S298. Special Studies.**Mr. McENTIRE**

Individual or group study, with emphasis on original research, as may be arranged. 1-4 units.

SOCIOLOGY AND SOCIAL INSTITUTIONS

REINHARD BENDIX, Ph.D., Assistant Professor of Sociology and Social Institutions.

KENNETH E. BOCK, M.A., Lecturer in Sociology and Social Institutions.

GLADYS BRYSON, Ph.D., Professor of Sociology and Chairman of the Department, Smith College.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S10A. Progress and Civilization.

Mr. BOCK

An introduction to social thought; role in the social sciences of leading ideas of progress and order. 2 units.

M Tu W Th F, 1.

S121c. Sociological Theory.

Mr. BOCK

An analysis of major sociological concepts such as human nature, social order, social institutions, and social evolution, considered with reference to important figures in sociological theory, and with emphasis upon problems of method in the study of man. 2 units.

M Tu W Th F, 2.

133. Race and Culture Contacts.

Mr. BENDIX

2 units.

M Tu W Th F, 9.

S148. Problems in the Study of Group Behavior.

Mr. BENDIX

Modern theories of group behavior examined in the light of empirical studies dealing with the interrelation of personality and culture. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S2B. Introduction to Sociology.

Miss BRYSON

Description of the pattern of American society: political groupings; class structure; the peculiarly American character of our social institutions and their functioning; challenges to traditional values. 2 units.

M Tu W Th F, 10.

122. The Scope and Problems of American Sociology.

Miss BRYSON

The contributions of Americans to the development of sociology in theory and practice. 2 units.

M Tu W Th F, 11.

SPANISH AND PORTUGUESE

- FERNANDO ALEGRÍA, Ph.D., Instructor in Spanish.
- KEITH B. AUBREY, M.A., Assistant in Spanish in the Summer Sessions.
- CLIFFORD BAKER, M.A., Assistant in Spanish in the Summer Sessions.
- JANET BARBER, A.B., Assistant in Spanish in the Summer Sessions.
- JOHN H. BOOTH, M.A., Assistant in Portuguese in the Summer Sessions.
- ERASMO BUCETA, Doctor en Derecho, Professor of Spanish.
- MARIO CAMARINHA DA SILVA, Licenciado em Letras, Instructor in Portuguese.
- D. DORIS CAMPBELL, A.B., Assistant in Spanish in the Summer Sessions.
- G. ARNOLD CHAPMAN, Ph.D., Instructor in Spanish.
- MARGARET CLAAR, M.A., Assistant in Spanish in the Summer Sessions.
- LUCY G. CUEVAS, A.B., Assistant in Spanish in the Summer Sessions.
- KENNETH H. EDWARDS, A.B., Assistant in Spanish in the Summer Sessions.
- FRED P. ELLISON, A.B., Assistant in Portuguese in the Summer Sessions.
- BENJAMIN A. FRANKEL, A.B., Assistant in Spanish in the Summer Sessions.
- MARIAN FREDINE, M.A., Associate in Spanish.
- EDMUNDO GARCÍA, M.A., Assistant in Spanish in the Summer Sessions.
- ROSALIE M. GODT, M.A., Assistant in Spanish in the Summer Sessions.
- RUTH D. HOUSE, M.A., Associate in Spanish.
- RAMÓN IGLESIA, Doctor en Letras, Professor of Spanish, University of Wisconsin.
- RUTHALMA JOHNSON, M.A., Assistant in Spanish in the Summer Sessions.
- DANIEL S. KELLER, A.B., Assistant in Spanish in the Summer Sessions.
- ROBERT B. LEARD, A.B., Assistant in Spanish in the Summer Sessions.
- MARY L. MCCHESENEY, A.B., Assistant in Spanish in the Summer Sessions.
- EDWIN S. MORBY, Ph.D., Assistant Professor of Spanish.
- JOHN J. REYNOLDS, A.B., Assistant in Spanish in the Summer Sessions.
- MARIO RODRÍGUEZ, A.B., Assistant in Spanish in the Summer Sessions.
- CECILIA G. ROSS, M.A., Associate in Spanish.
- ELEANOR RUMMELL, A.B., Assistant in Spanish in the Summer Sessions.
- KARL E. SCHEVILL, M.A., Assistant in Spanish in the Summer Sessions.
- DOROTHY C. SHADI, Ph.D., Lecturer in Spanish.
- LESLEY B. SIMPSON, Ph.D., Professor of Spanish and Chairman of the Department.
- CHARLES W. STEELE, M.A., Assistant in Spanish in the Summer Sessions.
- OLIVER D. WASHBURN, M.A., Teacher, Berkeley High School.
- EDWIN JACK WEBBER, M.A., Assistant in Spanish in the Summer Sessions.
- E. HORTENSE WHITE, M.A., Assistant in Spanish in the Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Portuguese

S1. Elementary Portuguese.

Mr. BOOTH

4 units.

M Tu W Th F, 10-12.

S121. Readings in Portuguese.

Mr. CAMARINHA DA SILVA

An intensive course for specially qualified beginners. Rapid survey of grammar and pronunciation; readings in prose and verse. Designed especially for advanced students with previous training in Romance languages. Prerequisite: junior standing and a satisfactory reading knowledge of Latin or one Romance language, or consent of the instructor. 2 units.

M Tu W Th F, 1.

S131. Advanced Portuguese Composition.

Mr. CAMARINHA DA SILVA

2 units.

M Tu W Th F, 2.

S199. Special Study for Advanced Undergraduates.

1-3 units.

Mr. CAMARINHA DA SILVA

Hours to be arranged.

Spanish

S1. Elementary Spanish. Miss GODT, Mr. BAKER, Mr. AUBREY, Miss CLAAR,
Mr. WASHBURN, Miss CUEVAS

For beginners. Pronunciation, essentials of grammar, reading, and conversation. 4 units.

M Tu W Th F, sections 1 and 2, 8-10; sections 3, 4, and 5, 9-11; sections 6 and 7, 1-3.

S2. Elementary Spanish (continuation of 1).

Mr. STEELE, Mr. REYNOLDS, Mr. LEARD, Mr. EDWARDS, Miss BARBER

Prerequisite: Spanish 1, or two years of high school Spanish, or the equivalent. 4 units.

M Tu W Th F, section 1, 8-10; sections 2, 3, and 4, 9-11; section 5, 1-3.

S3. Intermediate Spanish (continuation of 2).

Miss HOUSE, Mr. WEBBER, Miss FREDINE

Prerequisite: Spanish 2, or three years of high school Spanish, or the equivalent. 4 units.

M Tu W Th F, sections 1 and 2, 9-11; section 3, 1-3.

S4. Intermediate Spanish (continuation of 3).

Mr. SCHEVILL

Prerequisite: course 3, or four years of high school Spanish, or the equivalent. 4 units.

M Tu W Th F, 10-12.

25. Advanced Spanish.

Mr. MORBY

Prerequisite: course 4, or the equivalent. 4 units.

M Tu W Th F, 10-12.

- S101A. Oral and Written Composition.** Mr. CHAPMAN
Prerequisite: 25B, or course 4 with grade of A or B. Sophomores who have had 25A-25B may also be admitted. Students who have passed 25A-25B with grade of A or B may omit 101A. 2 units.
M Tu W Th F, 11.
- S103A. Nineteenth-Century Literature (1830-1900).** Mr. SIMPSON
2 units.
M Tu W Th F, 9.
- S104A. Spanish-American Literature.** Mr. CHAPMAN
2 units.
M Tu W Th F, 10.
- S107A. History of Spanish Literature to 1550.** Mr. IGLESÍA
Prerequisite: at least 10 units of upper division courses. 2 units.
M Tu W Th F, 10.
- S199. Special Study for Advanced Undergraduates.** Mr. SIMPSON in charge
1-3 units.
Hours to be arranged.
- 207. Readings in Old Spanish Literature.** Mr. SIMPSON
2 units.
M W, 3-5.
- S299. Special Advanced Study.** Mr. SIMPSON in charge
Open to qualified students who wish to take special advanced work. 1-3 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Portuguese

- S2. Elementary Portuguese.** Mr. ELLISON
Prerequisite: course 1, or oral command of the language. 4 units.
M Tu W Th F, 10-12.

Spanish

- S1. Elementary Spanish.** Mr. FRANKEL, Mrs. ROSS, Mr. KELLER, Miss RUMMELL
For beginners. Pronunciation, essentials of grammar, reading, and conversation. 4 units.
M Tu W Th F, section 1, 8-10; sections 2 and 3, 9-11; section 4, 1-3.
- S2. Elementary Spanish (continuation of 1).** Mr. RODRÍGUEZ, Miss MCCHESENEY
Prerequisite: Spanish 1, or two years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, section 1, 8-10; sections 2 and 3, 9-11; section 4, 1-3.
- S3. Intermediate Spanish (continuation of 2).** Mr. GARCÍA, Miss WHITE, Miss JOHNSON
Prerequisite: Spanish 2, or three years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, sections 1 and 2, 8-10; section 3, 1-3.

- S4. Intermediate Spanish (continuation of 3).** Mrs. SHADI, Miss CAMPBELL
Prerequisite: course 3, or four years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, sections 1 and 2, 8-10.
- S101B. Oral and Written Composition.** Mr. ALEGRÍA
2 units.
M Tu W Th F, 11.
- S103B. Nineteenth-Century Literature (1830-1900).** Mr. BUCETA
2 units.
M Tu W Th F, 9.
- S104B. Spanish-American Literature.** Mr. ALEGRÍA
2 units.
M Tu W Th F, 10.
- S107B. History of Spanish Literature, 1550 to 1830.** Mr. BUCETA
Prerequisite: at least 10 units of upper division courses. 2 units.
M Tu W Th F, 10.
- S199. Special Study for Advanced Undergraduates.** Mr. BUCETA in charge
1-3 units.
Hours to be arranged.
- S299. Special Advanced Study.** Mr. BUCETA in charge
Open to qualified students who wish to take special advanced work. 1-3 units.
Hours to be arranged.

SPEECH

KARL ASCHENBRENNER, Ph.D., Assistant Professor of Speech.

EDWARD N. BARNHART, Ph.D., Assistant Professor of Speech.

C. DOUGLAS CHRÉTIEN, Ph.D., Associate Professor of Speech.

WILLIAM B. HOLTHERR, Ph.D., Instructor in Speech.

ISABEL HUNGERLAND, Ph.D., Lecturer in Speech.

SARA LOWREY, M.A., Professor of Speech and Chairman of the Department,
Baylor University.

WILLIAM B. MCCOARD, Ph.D., Assistant Professor of Speech.

GERALD E. MARSH, M.A., Associate Professor of Speech and Chairman of the
Department.

ARNOLD PERSTEIN, Ph.M., Associate Professor of Speech.

DAVID RYNIN, Ph.D., Assistant Professor of Speech.

WARD E. TABLER, A.B., Lecturer in Speech.

JACOBUS TEN BROEK, J.S.D., Associate Professor of Speech.

JOE TUSSMAN, M.A., Instructor in Speech.

MARJORIE WALSH, M.A., Lecturer in Speech.

GARFF B. WILSON, Ph.D., Assistant Professor of Speech.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Elements of Speech. Mr. RYNIN, Mr. CHRÉTIEN, Mr. PERSTEIN
Practice in gathering and organizing material for speeches; critical analysis
of selected essays from the writings of English and American authors; or-
ganized student discussion and speeches on problems growing out of the study
of these essays. Prerequisite: Subject A. 2 units.

M Tu W Th F, section 1, 8; section 2, 9; section 3, 10; section 4, 11; sec-
tion 5, 1.

S1B. Elements of Speech. Mr. TUSSMAN, Mr. ASCHENBRENNER
2 units.

M Tu W Th F, section 1, 10; section 2, 1.

S2A. The Fundamentals of Oral Interpretation of Literature.

2 units. Miss WALSH, Mr. MCCOARD, Mr. G. WILSON

M Tu W Th F, section 1, 9; section 2, 10; section 3, 11.

S2B. The Fundamentals of Oral Interpretation of Literature.

2 units. Miss WALSH, Mr. G. WILSON

M Tu W Th F, section 1, 10; section 2, 1.

7. Extemporaneous Speaking. Mr. PERSTEIN

A practical course in speech composition and delivery. Designed for those
who desire to improve their own speaking and acquire standards for judging
the speaking of others. Speech standards, speech outlines, methods of delivery,
platform bearing, voice, methods of developing ideas, speech style. 2 units.

M Tu W Th F, 11.

S107A. Argumentative Discourse: Oral and Written. Mr. ASCHENBRENNER

2 units.

M Tu W Th F, 2.

S111B. The Reading of Prose and Poetry. Mr. McCOARD
The essay and the short story. Prerequisite: Public Speaking 2B. 2 units.
M Tu W Th F, 11.

112. Critical Discussion of Current Controversial Questions. Mr. TUSSMAN
Designed to develop ability to think and speak clearly upon the issues of the day. Definition, evidence, kinds of argument, the weighing of arguments, fallacies, methods of analysis. Vital problems analyzed and presented from the platform. Acceptable for the major program in place of Speech 110B. 2 units.

M Tu W Th F, 1.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. Elements of Speech. Mr. TEN BROEK, Mr. BARNHART, Mr. TABLER
Practice in gathering and organizing material for speeches; critical analysis of selected essays from the writings of English and American authors; organized student discussion and speeches on problems growing out of the study of these essays. Prerequisite: Subject A. 2 units.

M Tu W Th F, section 1, 8; section 2, 9; section 3, 10; section 4, 1.

S1B. Elements of Speech. Mr. HOLTHERR, Mr. TABLER
2 units.

M Tu W Th F, section 1, 9; section 2, 2.

S2A. The Fundamentals of Oral Interpretation of Literature. Miss LOWREY, Mr. MARSH, Mrs. HUNGERLAND
2 units.

M Tu W Th F, section 1, 9; section 2, 10; section 3, 1.

S2B. The Fundamentals of Oral Interpretation of Literature. Mrs. HUNGERLAND
2 units.

M Tu W Th F, 2.

S12. Psychology of Argument. Mr. BARNHART
Primarily concerned with the function of communication in inducing belief and directing behavior; an introductory study of techniques used in speech and political propaganda.

2 units.
M Tu W Th F, 11.

S107A. Argumentative Discourse: Oral and Written. Mr. HOLTHERR
2 units.

M Tu W Th F, 10.

S111A. The Reading of Prose and Poetry. Miss LOWREY
The essay and the short story. Prerequisite: Public Speaking 2B. 2 units.

M Tu W Th F, 10.

112. Critical Discussion of Current Controversial Questions. Mr. MARSH
Designed to develop ability to think and speak clearly upon the issues of the day. Definition, evidence, kinds of argument, the weighing of arguments, fallacies, methods of analysis. Vital problems analyzed and presented from the platform. Acceptable for the major program in place of Speech 110B. 2 units.

M Tu W Th F, 11.

SUBJECT A

T. HOWELL BREECE, M.A., Associate in Subject A.

WALTER C. FOREMAN, M.A., Associate in Subject A.

LEO BEN LEVY, M.A., Associate in Subject A.

WILLIAM R. STEINHOFF, M.A., Associate in Subject A.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

A. Elementary Composition*

Mr. FOREMAN, Mr. STEINHOFF

Drill in spelling, punctuation, diction, and sentence construction. Required by the University of all students who do not pass the examination in Subject A. No credit.

M Tu W Th F, 9, 10.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

A. Elementary Composition.*

Mr. BREECE, Mr. LEVY

Drill in spelling, punctuation, diction, and sentence construction. Required by the University of all students who do not pass the examination in Subject A. No credit.

M Tu W Th F, 9, 10.

* Students registered in Subject A may not enroll for more than four units of credit.

ZOOLOGY

- WILLIAM E. BERG, Ph.D., Instructor in Zoölogy.
 MARJORIE HOPKINS FOX, Ph.D., Lecturer in Zoölogy in the Summer Sessions.
 MORGAN HARRIS, Ph.D., Assistant Professor of Zoölogy.
 MILTON HILDEBRAND, M.A., Lecturer in Zoölogy in the Summer Sessions.
 EUGENE N. KOZLOFF, M.A., Assistant Professor in Biology, Lewis and Clark College.
 RICHARD E. PAULSON, A.B., Associate in Zoölogy.
 FRANK A. PITEKKA, Ph.D., Assistant Professor of Zoölogy and Assistant Curator of Birds, California Museum of Vertebrate Zoölogy.
 CHARLES A. REED, Ph.D., Assistant Professor of Zoölogy, University of Arizona.
 RALPH I. SMITH, Ph.D., Assistant Professor of Zoölogy.
 CURT STERN, Ph.D., Professor of Zoölogy.
 FRANCES M. WEESNER, A.B., Lecturer in Microscopic Technique.
 SHERWIN F. WOOD, Ph.D., Lecturer in Zoölogy in the Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. General Zoölogy.

Mr. PAULSON

An introduction to the facts and principles of animal biology, with special reference to the structure, functions, heredity, and evolution of animals. Prerequisite: Chemistry 1A. Fee \$4.50. 4 units.

M Tu W Th F, lectures, 8; laboratory, Section 1, 9-12; Section 2, 1-4.

S4. Microscopic Technique.

Miss WEESNER

The preparation of animal tissues for microscopical study; methods of fixing, sectioning, and staining. Laboratory and reading. Prerequisite: Zoölogy 1A and elementary chemistry. Fee \$4.50. 2 units.

M Tu W Th F, Section 1, 9-12; Section 2, 1-4.

S10. General Biology.

Mr. HILDEBRAND

An outline of the main facts and principles of animal biology. Lectures with demonstrations and conferences. Open without prerequisite to all students, but designed for those not specializing in zoölogy. Not open for credit to students who have had Zoölogy 1A, but students who have taken General Biology may elect Zoölogy 1A for credit. 3 units.

M Tu W Th F, lectures, 9; three conference periods each week to be arranged.

S100. Vertebrate Embryology.

Mrs. FOX

Lectures and reading on the development of vertebrates. Laboratory devoted to the study of embryos of the chick and pig. Prerequisite: Zoölogy 1B. Fee, \$4.50. 4 units.

M Tu W Th F, lectures, 1; laboratory, Section 1, 9-12; Section 2, 2-5.

S103c. Experimental Embryology Laboratory.

Mr. BERG

To accompany Zoölogy S123. Given at Hopkins Marine Station, Pacific Grove. Laboratory hours to be arranged. Fee, \$4.50. 2 units.

S112. Invertebrate Zoölogy.

Mr. PITELKA, Mr. SMITH

Anatomy, classification, and natural history of common invertebrate animals. Given at Hopkins Marine Station, Pacific Grove. Lectures, laboratory, and field work to be arranged. Fee, \$4.50. 4 units.

S123. Invertebrate Embryology.

Mr. BERG

Special emphasis on the comparative and experimental embryology of marine invertebrates. Given at Hopkins Marine Station, Pacific Grove. Lectures to be arranged. 2 units.

S199. Special Study for Advanced Undergraduates.

Fee, \$4.50. 1-4 units.

The STAFF: Mrs. FOX in charge at Berkeley
Mr. SMITH in charge at Pacific Grove

Hours to be arranged.

212. Advanced Marine Zoölogy.

Mr. PITELKA, Mr. SMITH

Given at Hopkins Marine Station, Pacific Grove. Lectures, laboratory, and field work to be arranged. 4 units.

S224. Research.The STAFF: Mrs. FOX in charge at Berkeley
Mr. SMITH in charge at Pacific Grove

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S1B. General Zoölogy.**

Mr. HARRIS

A continuation of Zoölogy S1A. Structure, physiology, development, and history of the chordates. Prerequisite: Zoölogy 1A. Fee, \$4.50. 4 units.

M Tu W Th F, lectures, 8; laboratory, Section 1, 9-12; Section 2, 1-4.

S4. Microscopic Technique.

Mr. KOZLOFF

The preparation of animal tissues for microscopical study; methods of fixing, sectioning, and staining. Laboratory and reading. Prerequisite: Zoölogy 1A and elementary chemistry. Fee, \$4.50. 2 units.

M Tu W Th F, Section 1, 9-12; Section 2, 1-4.

S10. General Biology.

Mr. WOOD

An outline of the main facts and principles of animal biology. Lectures with demonstrations and conferences. Open without prerequisite to all students, but designed for those not specializing in zoölogy. Not open for credit to students who have had Zoölogy 1A, but students who have taken General Biology may elect Zoölogy 1A for credit. 3 units.

M Tu W Th F, lectures, 9; three conference periods each week to be arranged.

S106. Comparative Anatomy of the Vertebrates.

Mr. REED

Lectures and laboratory. Fee, \$4.50. Evolution of organ systems and phylogeny of the major vertebrate groups. 4 units.

Lectures, M Tu W Th F, 1; laboratory, 2-5.

S115. Human Genetics.

Mr. STERN

A study of the principles of inheritance as applied to the physical and mental characteristics of man, of the heredity environment problem, and of the genetic constitutions of populations. 3 units.

M Tu W Th F, 10.

S199. Special Study for Advanced Undergraduates.

Fee, \$4.50. 1-4 units.
Hours to be arranged.

The STAFF, Mr. HARRIS in charge

S224. Research.

1-4 units.
Hours to be arranged.

The STAFF, Mr. HARRIS in charge

FIRST SUMMER SESSION

June 21 to July 31, 1948

Directions

1. **By Wednesday, June 2**, if possible, file application accompanied by a vaccination certificate, with the Office of the Summer Sessions, 222 Administration Building, Berkeley 4, California.
2. **Before Monday, June 14**, if possible, select lodgings in Berkeley.
3. **Saturday, June 19, 8:30 a.m.—1 p.m.**—(a) Register your college address with the Registrar; (b) obtain from the Registrar an Admission Card and blank Study List; (c) show Admission Card to the Cashier of the University; (d) pay necessary fees; and (e) have Admission Card stamped by the Cashier; (f) show this card on demand to the officers in charge of the classes, at the first meetings of the classes, or at any time during the session.
The regular class exercises will begin Monday, June 21.
4. **Your Study List**, duly filled out, should be filed in person with the Registrar on the date announced on the bulletin boards. Study lists cannot be accepted by mail. Auditors as well as students are required to file study lists.
5. **To obtain a certificate of record**, showing the courses elected during the session and the grade attained in each, deposit a self-addressed stamped envelope with the Registrar at the close of the session, and a certificate will be mailed to you.

SECOND SUMMER SESSION

August 2 to September 11, 1948

Directions

1. **By Wednesday, July 14**, if possible, file application accompanied by a vaccination certificate, with the Office of the Summer Sessions, 222 Administration Building, Berkeley 4, California.
2. **Before Monday, July 26**, if possible, select lodgings in Berkeley.
3. **Saturday, July 31, 8:30 a.m.—1 p.m.**—(a) Register your college address with the Registrar; (b) obtain from the Registrar an Admission Card and blank Study List; (c) show Admission Card to the Cashier of the University; (d) pay necessary fees; and (e) have Admission Card stamped by the Cashier; (f) show this card on demand to the officers in charge of the classes, at the first meetings of the classes, or at any time during the session.
The regular class exercises will begin Monday, August 2.
4. **Your Study List**, duly filled out, should be filed in person with the Registrar on the date announced on the bulletin boards. Study lists cannot be accepted by mail. Auditors as well as students are required to file study lists.
5. **To obtain a certificate of record**, showing the courses elected during the session and the grade attained in each, deposit a self-addressed stamped envelope with the Registrar at the close of the session, and a certificate will be mailed to you.

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GENERAL INFORMATION

For information concerning the several colleges and departments of the University please write to the *Registrar, University of California, Berkeley 4, California*, mentioning the department or study in which you are interested.

UNIVERSITY OF CALIFORNIA

I

APPLICATION FOR ADMISSION FIRST SUMMER SESSION, 1948 (SIX WEEKS)

Applications and vaccination certificates should be submitted to the Office of the Summer Sessions, 222 Administration Building, Berkeley 4, *by June 2; otherwise, delay in registration may result.* In case of adverse action, immediate notice is sent by mail. No application fee is charged.



Write clearly or PRINT. Give full legal name

(If formerly enrolled on the Berkeley campus, enter name then recorded unless later changed by petition filed with the Registrar.)

.....
First given name Middle names Family name Mr.
Miss
Mrs.

Present address:
City and Postal Zone No.

Permanent P. O. address:
City and Postal Zone No.

.....
i.e., address at which you may be reached after the session

Occupation:
i.e., student, teacher (e.g., H.S. teacher, Elem. teacher), accountant, etc.

If a student, give name of institution; if employed, give name of employer:

.....
Specify the summer courses in which you may desire to enroll—by *department and number*, e.g., Geology 4, History S17A:

Have you ever attended the University of California in Berkeley, Davis, Los Angeles, or elsewhere?..... If so, enter dates of attendance, location of campus, and degrees received.

Regular Sessions { Dates..... City..... Degree.....
 { Dates..... City..... Degree.....

Summer Sessions, Dates: Berk..... L.A.....

University Extension Courses, Dates:.....

Have you attended any other institution of collegiate grade?.....

If so, are you now eligible to return as a student in good standing?.....

If you have received any degrees, enter details of graduation below.

Degree..... Institution..... Date.....

Applicants of this classification will please list all institutions attended.

Are you a high school graduate?..... Year of graduation.....

Name of school.....

Are you 21 years of age or over?..... Your age, if under 21:.....

Do you plan to enter the University in the next regular semester?.....

If so, have you received written notice of your acceptance?.....

Do you plan to work for a degree or certificate?.....

If so, state degree or certificate desired:.....

(If you plan to work for a degree or certificate in this University, you should file a separate application for admission in regular session. See instructions in the Summer Sessions Bulletin.)

Applicant's signature..... Date....., 1948



POSTMASTER: *Return within five days to the University of California, Berkeley 4, California. Return postage guaranteed.*

SUMMER SESSIONS

1948



First Session

Six Weeks: June 21 to July 31

Second Session

Six Weeks: August 2 to September 11

MARCH 1, 1948

LOS ANGELES • CALIFORNIA

UNIVERSITY OF CALIFORNIA
BULLETIN

University of California Bulletin

PUBLISHED AT BERKELEY, CALIFORNIA

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March 1, 1948

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Issued semimonthly.



**Some changes may be necessary in the courses
announced in this bulletin.**

All who receive this bulletin are requested to offer it to others who may be interested in summer study. Copies will be mailed, upon request, by the Office of the Provost (242 Administration Building), 405 Hilgard Avenue, Los Angeles 24 (Telephones: BRadshaw 22171 or ARizona 30971), or by the Office of the Summer Sessions (222 Administration Building), University of California, Berkeley 4, California.

UNIVERSITY OF CALIFORNIA
LOS ANGELES

Summer Sessions • 1948

UNIVERSITY OF CALIFORNIA
LOS ANGELES

Summer Sessions

• 1948 •

First Session

June 21 to July 31

Second Session

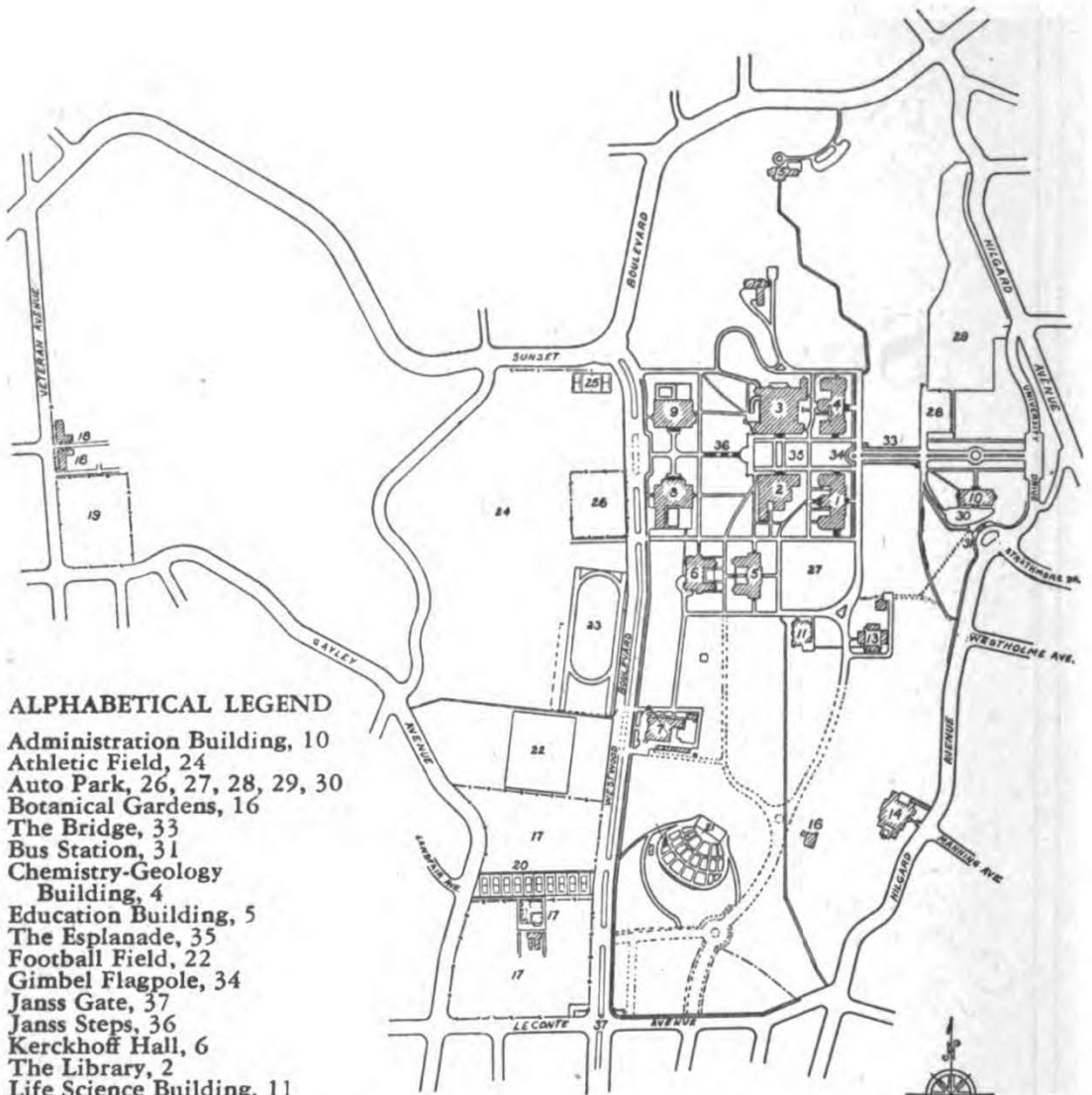
August 2 to September 11

MARCH 1, 1948

405 HILGARD AVENUE • LOS ANGELES 24

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UNIVERSITY OF CALIFORNIA
LOS ANGELES CAMPUS**

THE UNIVERSITY OF CALIFORNIA

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-

SUMMER SESSIONS • LOS ANGELES, 1948

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EDGAR L. LAZIER, Ph.D., Director of Admissions.
BELLE HECHTMAN, A.B., Administrative Assistant, Office of the Provost.
-

CALENDAR

First Summer Session

- June 18 } { Friday }
June 19 } { Saturday } —Registration.
June 21 Monday—Classes begin.
July 5 Monday—Academic and administrative holiday.
July 30 Friday—Last day of classes, final examinations.
July 31 Saturday—Close of First Summer Session.

Second Summer Session

- July 31 Saturday—Registration.
August 2 Monday—Classes begin.
September 6 Monday—Academic and administrative holiday.
September 10 Friday—Last day of classes, final examinations.
September 11 Saturday—Close of Second Summer Session.

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PAUL H. DAUS, Ph.D., Professor of Mathematics.

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 ANNITA DELANO, M.A., Assistant Professor of Art.
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 INA K. DILLON, Ed.D., School Counselor, University Elementary School.
 ALFRED K. DOLCH, Ph.D., Associate Professor of German.
 ROY M. DORCUS, Ph.D., Professor of Psychology.
 MARGARET WHITNEY DOW, M.S.M., Associate Professor of Music, University of Redlands.
 GEORGE W. DOWRIE, Ph.D., formerly Professor of Finance, Stanford University.
 LEONARD A. DOYLE, Ph.D., Associate Professor of Accounting (Berkeley).
 MARJORY DRUEY, Ph.D., Visiting Associate Professor of Social Welfare.
 CHARLOTTE DUBOIS, M.A., Assistant Professor of Music, University of Texas.
 NORMAN D. DUNCAN, M.A., Associate Supervisor and Director of Division for Men, Physical Education Department.
 THELMA DUNCAN, M.A., Demonstration Teacher, Secretarial Subjects, University High School, Los Angeles.
 WILBUR H. DUTTON, Ed.D., Professor of Education, Whittier College, California.
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 PAUL FRIEDLANDER, Ph.D., Professor of Latin and Greek.

- HORACE FRIES, Ph.D., Associate Professor of Philosophy, University of Wisconsin.**
- SEYMOUR FRIESS, Ph.D., Instructor in Chemistry.**
- IRA N. FRISBEE, M.B.A., C.P.A., Professor of Accounting.**
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THE UNIVERSITY OF CALIFORNIA

THE UNIVERSITY OF CALIFORNIA was founded in 1868 and is, by the terms of its charter, an integral part of the educational system of the State. It provides, for all qualified students, a college education without distinction of sex, creed, or race, and its instruction covers all the broad and essential fields of human knowledge, including the arts, sciences, and literature. It also provides fundamental training for many of the professions.

Since its founding the University has grown steadily in size, in influence, and in opportunity. Today it carries on its activities on eight campuses—at Berkeley, Los Angeles, San Francisco, Davis, Mount Hamilton, La Jolla, Riverside, and Santa Barbara. In addition to its centers of resident instruction, the University of California maintains a state-wide extension service offering courses of study on its several campuses. Summer Sessions are held at Berkeley, Los Angeles, and Santa Barbara.

SUMMER SESSIONS OF 1948 IN LOS ANGELES

The Summer Sessions on the Los Angeles campus of the University will begin: First Session, Monday, June 21, 1948, continuing for six weeks until Saturday, July 31; Second Session, Monday, August 2, 1948, continuing for six weeks until Saturday, September 11. (The Summer Sessions on the Berkeley campus and at Santa Barbara College will be held during the same period.)

Purpose of the Sessions—

The purpose of the program of the Summer Sessions is to provide essential training for all types of students; to equip undergraduate and graduate students, teachers, school executives, nurses, homemakers, social workers, and other professional groups for improved service; and to assist returning service men and women to resume their educational programs (for veterans' aids, see page 22). The University endeavors through its Summer Sessions to make available programs of study based upon its wealth of knowledge and its full resources.

Applications for Admission—

Persons who wish to attend either session should notify the Office of the Provost, 242 Administration Building, 405 Hilgard Avenue, Los Angeles 24, on or before Wednesday, June 2 (First Session) or July 14 (Second Session), using the forms of application at the end of this bulletin. Compliance with this request will enable the University to make adequate preparations, and to inform prospective students promptly of any change in program.

Students in the Summer Sessions who do not wish to enter subsequently the regular semesters of the University of California, Los Angeles, are not required to submit transcripts of record.

New students who plan to offer work taken in the Summer Sessions toward an undergraduate degree or certificate at the University of California should file their credentials (see *Application Fee*, page 17) covering high school and collegiate work with the Director of Admissions.* This should be done at least four weeks before the opening of the session which the student proposes to attend, in order that applicants may be properly advised regarding their status. Candidates for higher degrees or certificates should follow the instructions on page 19.

Vaccination—

Students planning to attend the Summer Sessions, 1948, must file at the time of registration a certificate testifying to successful vaccination against smallpox within the last seven years. This form is furnished by the Office of the Provost, 242 Administration Building, and must be signed by a licensed physician. A photostat of an original certificate is acceptable. Students in attendance at the University of California, Los Angeles, throughout the Spring Semester, 1948, or veterans of World War II who present evidence of service in the armed forces of the United States, are not required to furnish this certificate.

Admission Requirements—

Attendants of the Summer Sessions are divided into two broad classifications:

Auditors. Any adult is permitted to attend the regular exercises of a session as an auditor upon filing an application and paying the regular tuition fee of \$42. An auditor does not participate in recitations, does not take examinations, and therefore does not receive credit. In general, an auditor will not be admitted to seminars, to the laboratory sections of any courses, nor to activity courses in physical education except as especially provided.

Students.† (1) Persons under twenty-one years of age. Admission will be granted to persons who are under twenty-one years of age provided they are graduates of high schools or other secondary schools.

(2) Persons more than twenty-one years of age. The University does not attempt, in general, to make inquiry concerning the educational qualifications of applicants for admission to a Summer Session, who are more than twenty-one years of age. The University assumes that the applicant either is a high school graduate or has maturity and special fitness for the type of work he intends to undertake. The instructor of a Summer Session course may require of those persons entering his course a preliminary test, formal or informal, of knowledge which he believes essential to the work proposed.

* Students may not offer work taken in the Second Summer Session toward the satisfaction of requirements for admission to the immediately succeeding fall semester.

† Admission to the Summer Sessions does not carry with it a guarantee of admission to the regular session. For further information concerning admission requirements, and regulations concerning credit, please address the Director of Admissions, University of California, 405 Hilgard Avenue, Los Angeles 24, California.

Registration Dates—

Registration for First and Second Summer Session students will be conducted on the Los Angeles campus of the University of California on Friday, June 18, Saturday, June 19, and on Saturday, July 31, respectively.

Students who find it impossible to register for the Summer Sessions on the opening days may register as late as the second Monday, but such students may enroll in the courses desired only if, in the opinion of the instructor, they can make up satisfactorily the work already done by the class.

Fees—

The tuition fee for either session, irrespective of the number of courses taken,† is \$42 for both residents and nonresidents of California. Fees must be paid at time of registration, *not in advance*. Payment of fees by cash is preferred. If checks are presented they must not exceed the total amount of fees to be paid. Checks should not be mailed in advance. In certain courses laboratory fees are charged, each of which is stated in the description of the course and is payable at the time of registration.

Persons who wish to attend courses or occasional lectures without examination or formal credit may obtain an admission card for this purpose upon payment of the regular fee, \$42, or may purchase from the cashier in the Administration Building, 50-cent tickets for single lectures.

The tuition fee of \$42 must be paid at the time of registration. Refunds for withdrawals are made *only* when the admission card and fee receipt are returned, and when the reasons for withdrawal are satisfactory. If the admission card and fee receipt are returned during the first week, a refund of 60 per cent of the tuition or laboratory fees may be granted; during the second week, 20 per cent; after the second week, no refund will be made. In a short-term course of three weeks, a refund of not more than 50 per cent may be granted during the first week; after the first week, no refund will be made. In the twelve weeks' Summer Session (Engineering only) a refund of not more than 80 per cent during the first week may be granted; during the second week, 60 per cent; during the third and fourth weeks, 40 per cent; no refunds will be granted after the fourth week. Any student who is obliged to request a refund must do so *at the time of withdrawal* and must, *at that time*, return admission card and fee receipt to the Registrar.

In cases of students taking a short-term course of three weeks (Education 132T), the tuition fee of \$21 must be paid at the time of registration. Refunds for withdrawals are subject to the foregoing paragraph.

Application Fee. No application fee is necessary to enter the *Summer Sessions*. However, application for admission to any *regular* (fall or spring)

† Study lists in the Summer Sessions are limited to six and one-half units each.

session of the University of California, Los Angeles, must be accompanied by a remittance of \$5,† payable to The Regents of the University of California.

Admission to Courses: Classification and Numbering of Courses—

Courses in the Summer Sessions which are identical, or nearly so, with courses given during the regular sessions at Los Angeles are distinguished by the letter "S" prefixed to the regular number of the course.

Courses are classified and numbered as follows:

I. UNDERGRADUATE COURSES.

(1) *Lower Division Courses* (numbered 1–49, or sometimes indicated by letters if in subjects usually given in a high school). A lower division course is a course open to freshmen and sophomores and does not count as upper division work in any department.

(2) *Upper Division Courses* (numbered 100–199). An upper division course is an advanced study of a subject that has been pursued in the lower division, or an elementary course in a subject of sufficient difficulty to require the maturity of upper division students. Students will not be permitted to register in upper division courses unless they have completed the courses named as prerequisite, or, if no courses are definitely named as prerequisite, until they have attained junior standing in the University. Accepted professional training, however, is regarded as sufficient preparation for upper division courses in the field in which the student has been trained.

The prerequisites for courses should be carefully noted.

II. GRADUATE COURSES (numbered 200–299). As a condition for enrollment in a graduate course the student must hold at least a bachelor's degree from a four-year college and 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, irrespective of the department in which such basic work may have been completed.

Admission to graduate standing is not required for enrollment in graduate courses in the Summer Sessions. However, in order to have graduate courses taken in the Summer Sessions accepted as partial fulfillment of the requirements of graduate units for higher degrees or credentials, the student must be eligible for admission as a regular graduate student (see page 19).

A student who includes in his program a graduate course (one of the courses numbered from 200–299) is not permitted to register for more than four units.*

In general, auditors will not be admitted to graduate courses. Further directions concerning graduate study may be had from the Registrar.

† Veterans who expect to enroll under the provisions of Public Law 346 (the G. I. Bill of Rights), or Public Law 16, are not required to remit this fee.

* Graduate study lists exceeding this limit are subject to the approval of the Dean of the Graduate Division.

III. **TEACHERS' COURSES.**—*Professional Teacher-Training Courses* (numbered 300–399) in the Department of Education and courses in other departments that are specifically intended for teachers or prospective teachers.

IV. **CERTAIN PROFESSIONAL COURSES** (numbered 400–499).

Credit—

In general, credit will be given at the rate of one unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two units, or throughout three weeks may receive a credit of one unit. Credit may be given, in due proportion, for a smaller number of exercises, when these are of more than the usual length (which for lectures and recitations is about fifty minutes). A recitation or lecture presupposes about two hours of study outside the classroom; laboratory or other exercises which do not require outside preparation are estimated at a lower credit rate than recitations and lectures.

The *maximum amount of credit* obtainable during either of the Summer Sessions by a student who devotes his entire time to courses of strictly university level is from four to six and one-half units, according to the kind of work selected; a student who includes in his program a graduate course is not permitted to register for more than four units of credit in either Summer Session.* Students who are registered for credit may audit such courses as they choose.

Two summer sessions are accepted as the equivalent of one-half year of residence for the bachelor's degree, but the amount of credit (the number of units) that may be completed during two summer sessions will not exceed three-fourths of the amount that could be completed by an undergraduate student in a single regular semester.

Students from other institutions should find out from their own registrars if courses taken in the Summer Sessions of the University of California, Los Angeles, will fulfill specific requirements.

Acceptance of a particular course toward any university degree is subject to the approval of the authorities of the college in which the degree is offered.

For the requirements of the colleges and schools at Berkeley and Los Angeles, see the GENERAL CATALOGUES.

Graduate Students—

Students who intend to pursue graduate work toward a higher degree in the University should file a formal Application for Admission to Graduate Standing at the office of the Dean of the Graduate Division with application fee of \$5.† The application form and the ANNOUNCEMENT OF THE GRADUATE

* Graduate study lists exceeding this limit are subject to the approval of the Dean of the Graduate Division.

† Veterans who expect to enroll under the provisions of Public Law 346 (the G. I. Bill of Rights), or Public Law 16, are not required to remit this fee.

DIVISION, SOUTHERN SECTION, may be obtained from the Dean of the Graduate Division, University of California, 405 Hilgard Avenue, Los Angeles 24, California. *Persons who do not contemplate work toward a higher degree or certificate at this University may register in Summer Sessions without specified status, and may enroll in any courses for which they have met prerequisites. Such persons need not file credentials or formal Application for Admission to Graduate Standing but must hold at least a bachelor's degree from a four-year college.* Summer Session students may petition to have courses taken in the Summer Session apply toward higher degrees or credentials if and when they are admitted to graduate standing.

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 or its equivalent, basic to the subject of the graduate course, irrespective of the department in which such basic work may have been completed.

Enrollment in a Summer Session graduate course does not carry with it the right of admission to graduate status.

Accepted as graduate courses:

Art S271A, S271B, S299A, S299B.

Botany S278A, S278B.

Business Administration S235, S251A, S251B, S254, S260, S261A, S261B, S270, S271.

Chemistry S260, S280, S281.

Economics S260A, S261, S270A.

Education S201, S202, S208A, S210A, S210B, S219, 221, S226A, S240, S241A, S243A, S243B, 244, S246, S247A, 248, S251B, S253A, S255A, S255B, S256A, S262A, S266A, S270A, S275A, S275B, S279A.

Engineering S298, S299.

English S221, S223, S263C, S263E.

French 251A.

Geography S259, S290.

Geology S299.

German S228.

History S257A, S261A, S269A, S290.

Home Economics S251, S279, S282A, S282B.

Mathematics 221S, S237A, 243, S246.

Meteorology S217, S290.

Microbiology S293A, S293B.

Music S270A, S299.

Ornamental Horticulture S286A, S286B.

Physical Education S235, S245, S255, S276, S299.

Physics S220A, S261.

Political Science S252A, S252B, S253A, S256A, S257A, S259A.

Psychology S211A, S211B, S216, S217A, S217B, S255A, S255B, S258A, S258B, S278A, S278B, S279A, S279B.

Social Welfare S203, S204, S210, S212.

Sociology S201A.

Spanish S209A, S224.

Subtropical Horticulture S281A, S281B.

Yiddish 240.

Zoölogy S290A, S290B.

Accepted as upper division courses on graduate programs :

Anthropology S103, S125, S140, S147.

Art S121A, S131B, S134A, S144A, S161A, S199A, S199B.

Astronomy S118.

Bacteriology S103, S104, S106C.

Botany S199A, S199B.

Business Administration S121A, S131, S132, S150, S153, S154, S160B, S161, S163, S184, S185, S186.

Chemistry S103.

Economics S100A, S103, S107, S135, S138, S150, S170, S195.

Education S101, S102, S106, S110, S111, S112, S114, 116, S117, S119, S124, S125A, S125B, 126, 126L, 131A, 131B, 132, 132A, 132T, 134, S139, 139WS, 139WF, S141, S142, 168, S170, 175, 177A, S180, S181, S184, 184P, 187, 194.

Engineering S198, S199.

English for the master's degree: S110, S125C, S125D, S156, S157, S167, S177; for the general secondary credential: S106A, S117J, S125C, S125D, S156, S157, S167, S177, S190A, S190B.

French S101A, S101B, S109A, S109B, S115A, S115B, 130A, 130B.

Geography S121, S122A, S123A, S181, S199.

Geology S199.

German S104A, S104B.

History 111H, S114, S144, S149B, S149C, S153A, S153B, S162A, 170, S171, S174, S176, S188, S192A, S193A, S198, S199.

Home Economics S118, S199A, S199B.

Mathematics 124, 128, S199.

Meteorology S100A, S110, S111, S121, S199A, S199B.

Music S104A, S109B, 113, S126, S130, 156.

Ornamental Horticulture S199A, S199B.

Philosophy S166, S188.

Physical Education S101, S102, 110, S143, S144, S145A, S145B.

Physics S105, S108B, S108C, S121, S199.

Political Science S110, S112, S113, S126, S127, S146, S148, S155, S157A, S157B, S162, S187, S199A, S199B.

Psychology S105A, S105B, S108, S110, S112, S113, S126, S137A, S137B, S142, S145B, S163, S166A, S166B, S167, S168, S180.

Public Speaking S110A, S122, S140.

Sociology S118, S120, S142, S144, S145, S181, S186, S189.

Spanish S104A, S104B, S106, 120.

Subtropical Horticulture S199A, S199B.

Yiddish 146.

Zoölogy S118, S199A, S199B.

Degree Requirements for Various Colleges—

Degree requirements for the College of Letters and Science, the College of Business Administration, the College of Applied Arts, the College of Agriculture, and the College of Engineering are listed in the GENERAL CATALOGUE, and in such separate announcements as these colleges may issue.

Aid to Veterans—

Educational financial benefits are available to veterans under federal and state laws for attendance at the Summer Sessions. Veterans planning to attend either or both of the Summer Sessions under these laws, and who have not already made the necessary arrangements, should do so at least *two months* before the opening of the Session.

The United States Veterans Administration maintains an office on the Los Angeles campus to assist veterans applying for federal educational benefits under Public Law 16.

An Office of Veterans Affairs, in charge of a Coördinator of Veterans Affairs, has been established by the University to work out with returning service men and women the many educational irregularities resulting from war service, to maintain a liaison in their behalf with the United States Veterans Administration, and to assist them in becoming assimilated into the life and spirit of the University. This office is situated in room 321, Administration Building on the Los Angeles campus. A special pamphlet giving helpful information for veterans may be obtained from this office.

Physical Education—

The curriculum in health, physical education, and recreation for the 1948 Summer Sessions has been planned especially for those interested in the elementary and secondary school fields. The courses are so organized that students may take (1) courses in physical activities suitable for elementary and high school teaching, (2) courses leading to the general elementary and secondary credentials or graduate work including master's degrees, (3) courses in the field of dance, and (4) courses leading to a major in health, physical education, and recreation.

Physical examinations will be required of students taking the service courses and recreational swimming. Special examinations for women will be conducted in the Student Health Center, Building T-3, during the first week of the Session. Appointments must be made in Building T-3 the first day of the Session. Physical examinations for men will be held in Building T-3 during the first three days of the Session. Appointments for these examinations must also be made the first day of the Session in Building T-3.

Auditors will be permitted to take physical education activity courses by paying the regular Summer Session tuition fee plus the course fees involved, and by passing the required medical examination.

Physical education activity courses taken in the Summer Sessions do not fulfill, or partially fulfill, the four-semester requirement in effect during regular session.

School of Education—

For information concerning professional curricula preparing for teaching service in elementary and secondary schools, and for educational administration, research, or other specialized phases of public school education, see the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION, LOS ANGELES.

All students preparing for teaching or administration should consult the Credentials 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 for teachers' certificates.

Other Requirements Concerning Credit—

A student who applies for credit in a course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the *close of the Session*. Furthermore, he will be required to hand in all his work by that time, in order that the instructor may make his report. Students are not authorized to continue any part of the work beyond the close of the Session. No provision is made for reexamination or supplementary work for the removal of deficiencies.

Subject A—

For students in the Summer Sessions who wish to enroll in courses in English composition or Public Speaking and who have not fulfilled requirements for Subject A (Elementary Composition), a special examination will be given on Monday, June 21, at 3:00 P.M., and on Monday, August 2, at 3:00 P.M. This examination is designed to test their ability to write English without gross errors in spelling, grammar, diction, sentence structure, and punctuation.

Scholarship Grades—

The final result of the work of students in every course, graduate and undergraduate, will be reported to the Registrar in the same grades* used in the regular sessions.

Transcripts of record for work in the Summer Sessions, whether for courses of matriculation or university level, will be issued by the Registrar, upon application, to any student in the Session; and personal recommendations from instructors may be obtained by school officers and others through the office of the Teacher Placement Executive.

Changes in Study Programs—

Changes in study programs after study lists have been filed may be made only by written petition filed with the Registrar not later than *Tuesday, July 13*, in the First Session, and *Tuesday, August 24*, in the Second Session.

Final Examinations—

By a general University rule, final examinations must be held in all courses except in cases in which other provisions are authorized. Usually the final examination takes the place of the last recitation or other scheduled period for each course.

When a course requires a final examination, there can be no individual exemption from it. A student who fails to pass the examination does not receive credit for the course. *Special examinations and reexaminations in summer courses are not permitted.*

American History and Institutions—

American Institutions S101 (pages 120, 121) and History S7A or S7B (pages 89, 91) may be offered together to satisfy the University requirement in American History and Institutions. American Institutions S101 alone will meet the requirement for a teacher's certificate. For further information consult the GENERAL CATALOGUE.

Teacher Placement—

The Placement Executive will keep daily office hours during the sessions in room 123, Education Building. Those desiring positions in elementary schools, junior high schools, high schools, and colleges should register in this office.

Registrants for all positions must pay at the office of the Cashier a fee of \$5 to cover the cost of clerical work. This fee also entitles registrants to the serv-

* Grades: A, excellent; B, good; C, fair; D, barely passing; E, conditioned; F, failure. Concerning grade E, it should be noted that in the Summer Sessions no reexaminations or special examinations are provided for the removal of conditions.

Grade points or quality units will be assigned as follows: grade A, three points for each unit; B, two points for each unit; C, one point for each unit; D, E, and F, no points. For students graduating in certain curricula there are required grade points equal in number to the number of units of work undertaken. For further information, see the GENERAL CATALOGUE.

ices of the Office of Teacher Placement on the Berkeley and Santa Barbara campuses.

The Executive may more effectively aid superintendents and principals if notified in advance of the specific requirements of positions and the hours at which appointments are desired.

Musical Programs—

A series of musical events, using both student and faculty talent, is being planned for the summer.

Conferences and Institutes—

As an extension and enrichment of the program of the Summer Sessions in Los Angeles, there will be offered by University Extension a number of conferences and institutes in specialized fields. One of these will be the School Executives Tenth Annual Conference. The details of this and others will be announced later.

Inquiries concerning conferences and institutes should be addressed to the Department of Institutes, University Extension, 405 Hilgard Avenue, Los Angeles 24. Special announcements on all institutes which may be planned will be mailed upon request.

Accommodations and Expenses—

Housing is available through listings on file in the Housing Office, Room 37, Administration Building, 405 Hilgard Avenue, Los Angeles 24, California. Room and board in privately owned dormitories, fraternities and sororities may be obtained at a cost ranging from \$75-\$100 for the six weeks. House-keeping accommodations in private dormitories are priced from \$30 to \$45 for the session. Coöperative living in coöperative clubs costs from \$45 to \$75 for the six weeks' session. The cost of rooming accommodations in private homes varies from \$30 to \$50 per month depending on the character and location of the lodgings. Meals may be obtained in the cafeteria of the student union building, Kerckhoff Hall, or at one of the many restaurants in Westwood Village adjoining the campus. Information regarding rooms in private homes is available in the Housing Office but cannot be sent by mail since most home owners desire to rent on a personal selection basis only. A list of the addresses offering accommodation in dormitories, sororities, fraternities and coöperatives will be ready for distribution on May 10 at the Housing Office, Room 37, Administration Building. Copies will be mailed on request. Students will be given every assistance in their search for suitable accommodations.

The table which follows will help the student to estimate the expense, apart from transportation to Los Angeles, of attending the six weeks of either of the Summer Sessions.

University tuition fee	\$ 42—\$ 42.00
Laboratory fees (according to courses taken)....	0— 31.00
Board and room, six weeks	75— 100.00
Textbooks and stationery	5— 15.00
Miscellaneous	5— 12.00
Total	\$127—\$200.00

The U.C.L.A. Students' Store carries all textbooks for courses offered in the Summer Sessions, stationery, and other supplies.

Students' Mail—

The University has no facilities to take care of students' mail; however, if it is absolutely necessary for a student to receive mail on the campus, it should be addressed as follows:

Student's Name
 Summer Sessions Student
 Kerckhoff Hall, Post Office
 University of California
 405 Hilgard Avenue
 Los Angeles 24, California

Y. W. C. A.—

The building of the Young Women's Christian Association, at 574 Hilgard Avenue near the east campus entrance, will be open throughout the Summer Sessions to all women students. It provides reading and rest rooms. A limited number of women desiring to be near the campus may procure dormitory sleeping accommodations in the building at a reasonable rate. A staff secretary will be on duty during the Sessions.

Library Hours—

Throughout the Summer Sessions the University Library will be open daily from 7:45 A.M. to 10:00 P.M., Monday to Friday inclusive; from 7:45 A.M. to 5:00 P.M., Saturday; from 2:00 P.M. to 6:00 P.M., Sunday. The admission card of the Summer Session student entitles him to full library privileges including the home use of books. In accordance with the practice in regular sessions, no additional library fee is required.

Supplementing the collections of the University Library is the William Andrews Clark Memorial Library of about 40,000 books and manuscripts, primarily in the fields of English literature and northwestern United States history. This library is situated at 2205 West Adams Boulevard in Los Angeles. Admittance of students and visitors is by card, which may be obtained at the office of the University Librarian on the campus.

The Los Angeles Public Library, on South Hope Street between Fifth and Sixth streets, the West Los Angeles Branch Library, Purdue Street and Santa

Monica Boulevard, and the Santa Monica Public Library, 503 Santa Monica Boulevard, are open every week day, and will grant readers' cards to Summer Session students who present, with their applications, cards obtainable from and signed by the Registrar, certifying that they are students in the University.

Situation and Transportation—

The campus of the University of California, Los Angeles, comprising 384 acres, is situated in Westwood Village, which is within the corporate limits of the City of Los Angeles. 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.

Bus lines operated by the Los Angeles Motor Coach, Pacific Electric Railway, and Bay Cities Transit companies connect Pershing Square, Pico, Wilshire, Beverly, Sunset, and Hollywood boulevards and districts of Santa Monica, Ocean Park, Venice, Brentwood Heights, West Los Angeles, and Cheviot Hills with the University.

Summer Session Bruin—

During the First Session, the *Summer Session Bruin* is issued twice weekly and contains, in addition to news, announcements of lectures, concerts, exhibits, meetings of University organizations, and general information of interest to visitors. This paper is distributed free of charge to First Summer Session students.

Buildings and Equipment—

The buildings of the University of California, Los Angeles, are situated on a ridge of land running south from Sunset Boulevard, and are approached from the east by way of Hilgard Avenue and from the west by the West Stairway. The central esplanade is flanked by four buildings, all in ruffled red brick and artificial stone, with tile roofs, in a style of architecture inspired by the Romanesque of northern Italy.

To the southeast is the Administration Building, in which are situated the Office of the President, the Office of the Provost, and other administrative offices. Along the arroyo on the west side of this building is an extensive botanical garden.

The Library Building facing north is on the south side of the esplanade. On the second floor are the main reading room, and the catalogue, reference, and general circulation desks. In the west wing of the first floor is the reserved book reading room and the graduate reading room. Under construction is a new wing which will include additional reading rooms. The Library contains approximately 550,000 volumes and regularly receives 9,000 periodicals.

Josiah Royce Hall, facing the north side of the esplanade, has forty-seven classrooms of various sizes, the administrative office of the College of Applied

Arts, many faculty offices, and an auditorium which seats 1,902 persons and has a spacious stage fully equipped for theatrical and musical productions. A Skinner pipe organ, a gift to the University, is in the auditorium.

The Chemistry-Geology Building, east of Royce Hall, contains classrooms and laboratories, and a lecture hall with a seating capacity of about 400. The Physics-Biology Building, east of the Library, also has a lecture room of the clinical theater type, seating 250 persons. The College of Agriculture has headquarters in this building.

South of the Library and facing east is the Education Building, housing the departments of education, music, art, and home economics, as well as the administrative offices of the School of Education and the Teacher Placement Executive. Two lecture rooms are especially adapted for musical and dramatic productions for small audiences.

West of the Education Building is Kerckhoff Hall, erected by the late Mrs. William G. Kerckhoff of Los Angeles, as a memorial to her husband. It serves as a center for the social activities of students and faculty and contains the U.C.L.A. Students' Store, several dining rooms and lounges, and the offices of student publications.

The first unit of the Life Science Group is southeast of the Education Building; it houses the department of psychology. On the west slope of the arroyo near this building is a group of five smaller buildings constituting the vivarium for the life sciences, and providing research facilities for the various life sciences.

The Physical Education Buildings for Women and Men are situated on a lower level west of Royce Hall and the Library, and are approached from the esplanade above by the West Stairway. Each gymnasium has an outdoor swimming pool, large gymnasium floors, recreation rooms, special training rooms for students who are physically handicapped, and extensive equipment suited to the practice of the most modern physical education methods.

Outdoor playing fields including running track, football and hockey fields, and basketball and tennis courts, are across from the gymnasiums, along Westwood Boulevard.

Near the south campus entrance, on Westwood Boulevard, are the Mechanics Building and shops, and an outdoor amphitheater.

Summer Schools for Children—

A *Demonstration Elementary School* will be maintained during the First Summer Session for the purpose of demonstrating desirable teaching procedures. The classwork in the school will be observed by elementary school teachers, principals, supervisors, and superintendents enrolled in the courses dealing with the curriculum of the elementary school or with the supervision of the elementary school. The observation will form the basis of conferences, discussions, and similar types of experience desired by Summer Session students. For further details, see page 68.

In connection with the Demonstration Elementary School, a half-day *Nursery School* for children ranging in age from 2½ to 4½ years will be in session from 9:00 A.M. to 12:30 P.M., Mondays through Fridays. Children's play activities, health routines, and mid-day meals will provide situations for studying child development and guidance. This should be of value (1) to students and teachers whose major interest is early childhood education; (2) to teachers of homemaking in high schools; (3) to the teaching staff of nursery schools and child-care centers; (4) to supervisors and administrators.

The Nursery School will be used as a laboratory and demonstration center for the following courses: Education S124, S125A, S125B, 126, 126L, 131A.

Information—

Full information concerning the Berkeley, Los Angeles, and Santa Barbara Summer Sessions of the University of California may be obtained at the Office of the Provost, 242 Administration Building, 405 Hilgard Avenue, Los Angeles 24 (Telephones: BRadshaw 22171 or ARizona 30971).

COURSES OF INSTRUCTION

ANTHROPOLOGY AND SOCIOLOGY

JOSEPH B. BIRDELL, Ph.D., Assistant Professor of Anthropology.
LEONARD BLOOM, Ph.D., Assistant Professor of Sociology.
GEORGE W. BRAINERD, Ph.D., Assistant Professor of Anthropology.
E. GORDON ERICKSEN, Ph.D., Instructor in Sociology.
WALTER R. GOLDSCHMIDT, Ph.D., Assistant Professor of Anthropology and Sociology.
EDWIN LEMERT, Ph.D., Assistant Professor of Sociology.
VERNE F. RAY, Ph.D., Professor of Anthropology, University of Washington.
WILLIAM S. ROBINSON, Ph.D., Assistant Professor of Sociology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Anthropology

S1A. General Anthropology.

Mr. BIRDELL

Human biology and physical anthropology; the relation of man and animals; the origin and antiquity of man; fossil man; anthropometry; the criteria of race and racial classifications; current racial theories; race problems. 2 units.

M Tu W Th F, 10.

124. Primitive Religion.

Mr. RAY

Comparative survey of religion and magic. 2 units.

M Tu W Th F, 11.

S125. Comparative Society.

Mr. RAY

The comparative study of social institutions; kinship systems; marriage and the family; clans and other social units based on kin; associations; social stratification; economic and political institutions. Prerequisites: Anthropology 1A, 1B, or Sociology 1A, 1B, or upper division standing and the consent of the instructor. 2 units.

M Tu W Th F, 8.

S147. Peoples of the South Pacific.

Mr. BIRDELL

The aboriginal civilizations of Australia, Malaysia, Melanesia, Micronesia, and Polynesia in prehistoric and modern times; changes arising from European contact and colonization. 2 units.

M Tu W Th F, 12.

Sociology

S1A. Introductory Sociology.

2 units.

M Tu W Th F, 1.

S118. Quantitative Methods.

Mr. ROBINSON

The application of statistical procedures to sociological data. The methods of collection and organization of quantitative data. Prerequisite: Sociology 1A-1B or 101 and Statistics 1, or equivalent preparation. 2 units.

M Tu W Th F, 9.

S120. Social Maladjustment.

Mr. ERICKSEN

Selected problems in social and societal maladjustment. Prerequisite: an introductory course in sociology. 2 units.

M Tu W Th F, 4.

S142. Marriage and the Family.

The marriage-family system; development, modern functions, characteristics, and maladjustments. 2 units.

M Tu W Th F, 3.

S145. Community and Ecology.

Mr. ERICKSEN

Comparative studies of community structure and organization. Application of the ecological, sociometric and similar techniques to community research. Prerequisite: course 1A-1B and upper division standing, or course 101. 2 units.

M Tu W Th F, 2.

S186. Population.

Mr. ROBINSON

The sociological study of population phenomena; population quantity, migration, concentration, and quality of the Western world with special reference to the United States. Prerequisite: An introductory course in sociology and senior standing. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Anthropology**S1B. General Anthropology.**

Mr. GOLDSCHMIDT

May be taken without Anthropology 1A. The nature of culture; culture growth and history; a survey of the range of cultural phenomena, including material culture, social organization, religion, language, and other topics. 2 units.

M Tu W Th F, 11.

S103. Culture History.

Mr. BRAINERD

A general survey of the origin and development of early civilizations of the Old World: Europe, Asia, Africa, Oceania. 2 units.

M Tu W Th F, 10.

S140. Ancient Civilizations of Mexico and Peru.

Mr. BRAINERD

Aztecs, Mayas, Incas, and their predecessors; origins, archaeology, traditions, history; social and political systems; religion; art and architecture; intellectual achievements. 2 units.

M Tu W Th F, 8.

Sociology**S1B. Introductory Sociology.**

Mr. LEMERT

Prerequisite: Sociology 1A or the equivalent. 2 units.

M Tu W Th F, 1.

S144. Rural Society.

Mr. GOLDSCHMIDT

The characteristics of rural cultures and rural social organization in the Western world. Prerequisite: course 1A-1B and upper division standing, or course 101. 2 units.

M Tu W Th F, 9.

S181. The Sociology of Dependency.

Mr. LEMERT

Various types of dependency analyzed from the standpoint of social isolation and social control. Prerequisites: course 120 and upper division standing. 2 units.

M Tu W Th F, 3.

S189. Racial and Cultural Minorities.

Mr. BLOOM

A survey of the position of the chief racial, religious, and national minorities in continental United States with comparative reference to Brazil, Hawaii, and other areas. Examination will be made of the development, operation, and effects of such policies and doctrines as selective immigration, assimilationalism, ethnic pluralism, and racism. Prerequisite: course 1A-1B or 101, and senior standing. 2 units.

M Tu W Th F, 12.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S201A. Theory and Method of Sociology.

Mr. BLOOM

2 units.

M Tu W Th F, 2.

ART

E. CLINTON ADAMS, M.A., Instructor in Art.

WILLIAM BOWNE, M.A., Instructor in Art.

JOHN CANADAY, Associate Professor of Fine Arts, University of Virginia.

ANNITA DELANO, M.A., Assistant Professor of Fine Arts.

ROBERT S. HILPERT, M.A., Associate Professor of Art Education.

JOSEPH W. HULL, M.A., Instructor in Art.

GORDON M. NUNES, M.A., Lecturer in Art.

HELEN SUE READ, B.S., Supervisor, Second Grade, University Elementary School.

JACK D. STOOPS, B.A., Instructor in Art.

FREDERICK G. STUSSY, M.A., Lecturer in Art.

GLENN WESSELS, M.A., Associate Professor of Art (Berkeley).

NATALIE WHITE, M.A., Instructor in Art and Supervisor of Training Art.

S. MACDONALD WRIGHT, Associate Professor of Fine Arts.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S2A. Art Structure.

Mr. NUNES

Fundamental course in creative design and color harmony. Color theory. 2 units.

M Tu W Th F, 3-5.

S4A. Perspective Drawing.

Mr. HULL

2 units.

M Tu W Th F, 1-3.

S14A. Still-Life Painting (Water-Color).

Mr. BOWNE

Prerequisite: Art 2B, 4A, 4B, or equivalent preparation. 2 units.

M Tu W Th F, 10-12.

S15. Lettering and Layout.

Mr. NUNES

Introduction to design in advertising. Simple problems in layout, commercial rendering, and projection of ideas. Prerequisite: Art 1A, 2B, or equivalent preparation. 2 units.

M Tu W Th F, 1-3.

S34A. Design in Painting.

Mr. BOWNE

Imaginative painting, using line, space, light and color: study of the derivation of modern forms in painting. Prerequisite: Art 2B, 4B, or equivalent preparation. 2 units.

M Tu W Th F, 8-10.

S42. Introduction to Art.

Mr. HILPERT

An exploratory course to develop an understanding and appreciation of art as an aspect of all areas of daily life. Not open to students whose major is art. 2 units.

M Tu W Th F, 8-10.

S131B. History of Painting.

Mr. HULL

2 units.

M Tu W Th F, 3.

- S134A. Landscape Painting (Water-Color).** Miss DELANO
The development of personal vision and individual expression as applied to landscape painting. Prerequisites: Art 14A or equivalent preparation. 2 units.
M Tu W Th F, 1-3.
- S144A. Still-Life Painting (Oil).** Miss DELANO
Prerequisite: Art 14A, 34B. 2 units.
M Tu W Th F, 10-12.
- S161A. Oriental Art.** Mr. WRIGHT
2 units.
M Tu W Th F, 8.
- S199A or S199B. Special Studies for Advanced Students.** Mr. HILPERT
Prerequisite: senior standing, and average of B or higher in the student's specified major. 2 units.
M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

- S271A. Advanced History of Art. Seminar.** Mr. WRIGHT
2 units.
M Tu W Th F, 9.
- S299A or S299B. Special Studies for Graduate Students.** Mr. HILPERT
2 units.
M Tu W Th F, 11.

PROFESSIONAL COURSE IN METHOD

- S330. Industrial Arts for the Elementary Grades.** Miss WHITE, Miss READ
For teachers and supervisors who wish to make industrial arts an integral part of the elementary school program. The meaning of industrial arts; their place in the elementary schools; their content. The use of tools and various materials suitable for the elementary schools. Laboratory fee, \$2. 2 units.
F, 1, lecture; laboratory and recitation: M W, 1-4, section 1; M W, 1-4, section 2; Tu Th, 1-4, section 3; Tu Th, 1-4, section 4.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1B. Modern Art.** Mr. ADAMS
Survey of contemporary trends, with a background in the history of art.
2 units.
M Tu W Th F, 12.
- S2B. Art Structure.** Mr. STOOPS
Basic study of the elements of art as related to two-dimensional decorative design. Prerequisite: Art 2A. 2 units.
M Tu W Th F, 1-3.
- S4B. Freehand Drawing.** Mr. STUSSY
Objective drawing of natural forms from observation and memory. Prerequisite: Art 4A. 2 units.
M Tu W Th F, 8-10.

S32B. Advanced Art Structure.

Prerequisite: Art 2B. 2 units.
M Tu W Th F, 3-5.

Mr. STOOPS

S34B. Design in Painting.

The structure of painting; principles of abstract and imaginative painting. Media: water color and gouache. Prerequisite: Art 34A. 2 units.
M Tu W Th F, 8-10.

Mr. ADAMS

S44. Life Drawing.

Prerequisite: Art 4B, or equivalent. 2 units.
M Tu W Th F, 10-12.

Mr. STUSSY

S121A. Survey of the History of Art.

2 units.
M Tu W Th F, 1.

Mr. CANADAY

S134B. Landscape Painting in Oils.

Prerequisite: Art 134A, 144A, or equivalent. 2 units.
M Tu W Th F, 10-12.

Mr. WESSELS

S174B. Advanced Painting.

Prerequisite: Art 14A, 34B, 44, 174A, or equivalent. 2 units.
M Tu W Th F, 8-10.

Mr. WESSELS

COURSE LIMITED TO GRADUATE STUDENTS
For conditions of enrollment, see page 20

S271B. Advanced History of Art. Seminar.

2 units.
M Tu W Th F, 2.

Mr. CANADAY

ASTRONOMY

FREDERICK C. LEONARD, Ph.D., Professor of Astronomy.

DANIEL M. POPPER, Ph.D., Assistant Professor of Astronomy.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. Elementary Astronomy.

Mr. LEONARD

The general principles and the fundamental facts of astronomy in all of its branches, presented as far as possible in nontechnical language and without mathematics. 2 units.

M Tu W Th F, 9.

S118. Meteoritics.

Mr. LEONARD

Open to students whose major subject is a physical science or mathematics, and to others with the instructor's consent. The science of meteorites and meteors. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1. Elementary Astronomy.

Mr. POPPER

The general principles and the fundamental facts of astronomy in all of its branches, presented as far as possible in nontechnical language and without mathematics. 2 units.

M Tu W Th F, 9.

S7. General Astronomy.

Mr. POPPER

Advanced course parallel to Astronomy S1. Prerequisite: plane trigonometry. 2 units.

M Tu W Th F, 11.

BACTERIOLOGY

GREGORY J. JANN, Ph.D., Instructor in Bacteriology.

M. J. PICKETT, Ph.D., Assistant Professor of Bacteriology.

A. J. SALLE, Ph.D., Professor of Bacteriology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Bacteriology**S1. Fundamental Bacteriology.**

Mr. SALLE

Early history of bacteriology; effects of physical and chemical agencies upon bacterial growth; biochemical activities of bacteria; the bacteriology of air, water, soil, milk and dairy products, other foods; industrial applications. The laboratory exercises include an introduction to bacteriological technique. Prerequisite: Chemistry 1A or 2A. Students who have credit for course 6 will receive only three units for course S1. Fee, \$14.50. 4 units.

M Tu W Th F, lecture, 1; laboratory, 2-5.

S6. General Bacteriology.

Mr. SALLE

A cultural course for nontechnical students. Students who have credit for course S1 will receive only 1 unit for course 6. 2 units.

M Tu W Th F, 1.

S103. Advanced Bacteriology.

Mr. PICKETT

The more advanced principles of the life activities, growth, and morphology of bacteria. The etiology of disease. Prerequisite: Bacteriology 1. 4 units.

M Tu W Th F, 8, lecture; laboratory, 9-12.

S195. Proseminar.

Mr. SALLE

2 units.

Hours to be arranged.

S199AB. Problems in Bacteriology.

Mr. SALLE

2 units.

Hours to be arranged.

Microbiology

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S293AB. Research in Microbiology.

Mr. SALLE

2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Bacteriology**S104. Soil Bacteriology.**

Mr. JANN

The microscopic flora of soil: the morphology, function, and metabolism of soil bacteria. Prerequisite: Bacteriology 1. Fee, \$5. 2 units.

M W, 1-5.

Bacteriology

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S106C. Metabolism of Bacteria Laboratory.

Mr. JANN

Prerequisite: Bacteriology 106. Fee, \$14.50. 2 units.
M W F, 9-12.

S195. Proseminar.

Mr. JANN

2 units.
Hours to be arranged.

S199AB. Problems in Bacteriology.

Mr. JANN

2 units.
Hours to be arranged.

Microbiology

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S293AB. Research in Microbiology.

Mr. JANN

2-4 units.
Hours to be arranged.

BIOLOGY

RAYMOND B. COWLES, Ph.D., Professor of Zoölogy.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

S12. General Biology. (Field Course.)

Mr. COWLES

The natural history of southern California with special emphasis on the nomenclature, distribution, and ecology of some of our local plants and animals. Lectures, laboratory, and field observations. 3 units.

M Tu W Th F, lectures, 9; W F, demonstrations, 2-4.

BOTANY

ARTHUR W. HAUPT, Ph.D., Professor of Botany.

ORDA A. PLUNKETT, Ph.D., Associate Professor of Botany.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. General Botany.

Mr. PLUNKETT

Structure and functions, growth and reproduction, interrelationships, life habits, and economic relations of the seed plants. 4 units.

M Tu W Th F, lecture, 1; laboratory, sections 1 and 2, 2-5; section 3, 9-12.

S199A. Problems in Botany.

Mr. PLUNKETT

2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S278A. Research in Botany.

Mr. PLUNKETT

2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1B. General Botany.

Mr. HAUPT

The evolution of the plant kingdom, dealing with the comparative morphology of all the great plant groups. 4 units.

M Tu W Th F, lecture, 1; laboratory, 2-5.

S199B. Problems in Botany.

Mr. HAUPT

2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S278B. Research in Botany.

Mr. HAUPT

2-4 units.

Hours to be arranged.

BUSINESS ADMINISTRATION

ARMEN A. ALCHIAN, Ph.D., Assistant Professor of Economics.

WILLARD N. ANDERSON, M.A., C.P.A., Lecturer in Accounting in the Summer Sessions.

HECTOR R. ANTON, M.B.A., Instructor in Accounting, University of Minnesota.

WOODROW W. BALDWIN, M.A., Assistant in Office Management.

RALPH CASSADY, JR., Ph.D., Professor of Marketing.

GEORGE W. DOWRIE, Ph.D., formerly Professor of Finance, Stanford University.

LEONARD A. DOYLE, Ph.D., Associate Professor of Accounting (Berkeley).

THELMA DUNCAN, M.A., Demonstration Teacher, Secretarial Subjects, University High School, Los Angeles.

IRA N. FRISBEE, M.B.A., C.P.A., Professor of Accounting.

WILLARD J. GRAHAM, Ph.D., Professor of Accounting, University of Chicago.

EDWIN HALL, M.A., Instructor in Business Education, Long Beach City College, California.

KENNETH B. HUGHES, B.S., LL.B., Lecturer in Business Law.

W. E. KARRENBROCK, Ph.D., Associate Professor of Accounting.

ERWIN M. KEITHLEY, M.S., Lecturer in Office Management.

MERTON P. KILGORE, B.S., Assistant in Accounting.

ROBERT H. LUSK, M.B.A., Lecturer in Accounting.

WAYNE L. MCNAUGHTON, Ph.D., Assistant Professor of Industrial Management.

RALPH A. MASTELLER, M.S., Lecturer in Office Management.

ALWIN V. MILLER, B.S., Assistant in Office Management.

ALFRED NICOLS, Ph.D., Assistant Professor of Business Theory.

NATHAN L. SILVERSTEIN, Ph.D., Associate Professor of Finance, Indiana University.

CLAUDE W. STIMSON, Ph.D., LL.B., Lecturer in Business Law.

J. WILLIAM SUNDERMAN, B.S., C.P.A., Lecturer in Accounting.

R. D. TOUSLEY, Ph.D., Associate Professor of Marketing, State College of Washington.

ROBERT D. TUCKER, M.B.A., Assistant in Finance.

ROLAND S. VAILE, M.A., Professor of Economics and Marketing, University of Minnesota.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Principles of Accounting.

Mr. GRAHAM, Mr. TUCKER

A basic course in the principles of accounting. The theory of debit and credit; the underlying principles of the various accounting records; modern business papers; working sheets; the balance sheet and the income statement; the sole proprietorship, the partnership. 3 units.

M Tu W Th F, lecture, section 1, 9 (Graham), section 2, 11 (Tucker), section 3, 12 (Tucker); laboratory, M W, section 1, 9-11; section 2, 1-3; Tu Th, section 3, 9-11; section 4, 1-3.

S1B. Principles of Accounting.

Mr. KILGORE

Corporation accounts; special aspects of the buying, selling, and financial functions of a business; balance sheet valuation; the analysis and interpretation of financial statements. 3 units.

M Tu W Th F:

lecture, section 1, 10.
section 2, 11.

M W:

laboratory, section 1, 11-1.
section 2, 1-3.

Tu Th:

laboratory, section 3, 1-3.

S3A. Secretarial Training.

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. Fee, \$2.50. 2 units.

M Tu W Th F:

section 1, 9.
section 2, 11.
section 3, 12.

Mr. MASTELLER
Mr. KEITHLEY
Mr. HALL

S3B. Secretarial Training.

Mr. MASTELLER

Continuation of Business Administration S3A. Fee, \$2.50. 2 units.

M Tu W Th F, 10.

S4A. Secretarial Training.

Mr. BALDWIN

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. 2 units.

M Tu W Th F: section 1, 9; section 2, 10.

S100. Theory of Business.

Mr. NICOLS

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. 2 units.

M Tu W Th F, 8.

S115A. Business Law.

Mr. STIMSON

Law in its relationship to business. Essentials of the law of contracts, agency, bailments, sales, and negotiable instruments. 2 units.

M Tu W Th F, 1.

S115B. Business Law.

Mr. STIMSON

Continuation of Business Administration S115A. 2 units.

M Tu W Th F, 10.

S120. Business Organization.

Mr. NICOLS

The business unit and its functions from the points of view of both society and management. The coördination 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. 2 units.

M Tu W Th F, 9.

S131. Corporation Finance.

Mr. SILVERSTEIN

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. 2 units.

M Tu W Th F, 1.

S140. Business Statistics.

Mr. ALCHIAN

Sources of statistical data; construction of tables, charts, and graphs; study of statistical methods; averages, measures of deviation, index numbers, secular trend, seasonal variation; study of business cycles; practical application of statistical methods in business problems. Fee, \$3.50. 4 units.

M Tu W Th F, lecture, 8; laboratory, section 1, 9-11; laboratory, section 2, 11-1.

S150. Business Correspondence.

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. 2 units.

M Tu W Th F, 12.

S153. Personnel Management.

Mr. McNAUGHTON

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. 2 units.

M Tu W Th F, 1.

S154. Office Organization and Management.

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. 2 units.

M Tu W Th F, 2.

S160A. Advanced Accounting.

Adjustments, working papers, statements from incomplete data, cash and receivables, inventories, investments, fixed assets, intangible and deferred charges, liabilities, capital stock and surplus, installment accounting, statement analysis, and application of funds. 3 units.

M Tu W Th F:

lecture, section 1, 8. Mr. LUSK
section 2, 9. Mr. LUSK
section 3, 9. Mr. SUNDERMAN

M W:

laboratory, section 1, 10-12.
section 2, 11-1.

Tu Th:

laboratory, section 3, 10-12.
section 4, 11-1.

S160B. Advanced Accounting.

Mr. DOYLE

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. 3 units.

M Tu W Th F, lecture, 11; laboratory, section 1, M W, 12-2; section 2, Tu Th, 1-3.

S163. Federal Tax Accounting.

Mr. SUNDERMAN

The current federal revenue acts as relating to individual, partnership, and corporation income taxation, excess profits taxes, estate taxes, and gift taxes. 3 units.

M Tu W Th F, lecture, 10; laboratory, section 1, Tu Th, 11-1; section 2, Tu Th, 12-2.

S180. Elements of Marketing.

Mr. TOUSLEY

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. 2 units.

M Tu W Th F, 11.

S184. Sales Management.

Mr. TOUSLEY

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. 2 units.

M Tu W Th F, 2.

S186. Retail Store Management.

Mr. CASSADY

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. 2 units.

M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S235. Money Rates and Money Markets.

Mr. SILVERSTEIN

2 units.

M W, 3-5.

S251A. Seminar in Industrial Management Problems.

Mr. MCNAUGHTON

2 units.

Tu Th, 3-5.

S260. Seminar in Accounting Theory.

Mr. GRAHAM

2 units.

M W, 1-3.

S261A. Seminar in Accounting Problems.

Mr. DOYLE

2 units.

Tu Th, 1-3.

S270. Seminar in Marketing Institutions.

Mr. CASSADY

2 units.

Tu Th, 1-3.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. Principles of Accounting.

Mr. ANDERSON

A basic course in the principles of accounting. The theory of debit and credit; the underlying principles of the various accounting records; modern business

papers; working sheets; the balance sheet and the income statement; the sole proprietorship, the partnership. 3 units.

M Tu W Th F, lecture, 11.

M W, laboratory, section 1, 12-2

Tu Th, laboratory, section 2, 12-2

S1B. Principles of Accounting.

Mr. ANTON

Corporation accounts; special aspects of the buying, selling, and financial functions of a business; balance sheet valuation; the analysis and interpretation of financial statements. 3 units.

M Tu W Th F:

lecture, section 1, 9

section 2, 10

M W:

laboratory, section 1, 10-12

section 2, 11-1

Tu Th:

laboratory, section 3, 11-1

S3A. Secretarial Training.

Mr. MILLER

Typewriting in which the ground work 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. Fee, \$2.50. 2 units.

M Tu W Th F, section 1, 9; section 2, 10.

S3B. Secretarial Training.

Miss DUNCAN

Continuation of Business Administration S3A. Fee, \$2.50. 2 units.

M Tu W Th F, 11.

S4A. Secretarial Training.

Miss DUNCAN

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. 2 units.

M Tu W Th F, 10.

S100. Theory of Business.

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. 2 units.

M Tu W Th F, 11.

S115A. Business Law.

Mr. HUGHES

Law in its relationship to business. Essentials of the law of contracts, agency, bailments, sales, and negotiable instruments. 2 units.

M Tu W Th F, 8.

S115B. Business Law.

Mr. HUGHES

Continuation of Business Administration S115A. 2 units.

M Tu W Th F, 9.

S120. Business Organization.

The business unit and its functions from the points of view of both society and management. The coördination 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. 2 units.

M Tu W Th F, 10.

S121A. Industrial Organization.

The industrial organization and the physical facilities with which it works. 2 units.

M Tu W Th F, 10.

S132. Investments.

Mr. DOWRIE

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. 2 units.

M Tu W Th F, 10.

S140. Business Statistics.

Sources of statistical data; construction of tables, charts, and graphs; study of statistical methods; averages, measures of deviation, index numbers, secular trend, seasonal variation; study of business cycles; practical application of statistical methods in business problems. Fee, \$3.50. 4 units.

M Tu W Th F, lecture, 8; laboratory, section 1, 9-11; section 2, 11-1.

S160A. Advanced Accounting.

Mr. KARRENBROCK

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. 3 units.

M Tu W Th F, lecture, 9; laboratory, section 1, Tu Th, 10-12; section 2, 12-2.

S160B. Advanced Accounting.

Mr. ANDERSON

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. 3 units.

M Tu W Th F, lecture, 9; M W, laboratory, section 1, 10-12; Tu Th, laboratory, section 2, 10-12.

S161. Cost Accounting.

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. 3 units.

M Tu W Th F, lecture, 11; laboratory, section 1, M W, 12-2; laboratory, section 2, Tu Th, 1-3.

S180. Elements of Marketing.

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, coöperative marketing, pricing, market analysis, and marketing costs are defined from the standpoint of the consumer, the middleman, and the manufacturer. 2 units.

M Tu W Th F, 2.

S185. Advertising Principles.

Mr. VAILE

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 coordination. 2 units.

M Tu W Th F, 1.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S251B. Seminar in Industrial Management Problems. _____

2 units.

M W, 1-3.

S254. Seminar in Finance.

Mr. DOWRIE

2 units.

Tu Th, 1-3.

S261B. Seminar in Accounting Problems.

Mr. FRISBEE

2 units.

Tu Th, 3-5.

S271. Seminar in Market Price Policies.

Mr. VAILE

2 units.

M W, 3-5.

CHEMISTRY

FRANCIS E. BLACET, Ph.D., Professor of Chemistry.
 TOD W. CAMPBELL, Ph.D., Instructor in Chemistry.
 DONALD J. CRAM, Ph.D., Instructor in Chemistry.
 WILLIAM R. CROWELL, Ph.D., Professor of Chemistry.
 SEYMOUR FRIESS, Ph.D., Instructor in Chemistry.
 THEODORE A. GRISSMAN, Ph.D., Associate Professor of Chemistry.
 CHARLES F. KOELSCH, Ph.D., Visiting Professor of Chemistry.
 JAMES B. RAMSEY, Ph.D., Professor of Chemistry.
 HOSMER W. STONE, Ph.D., Professor of Chemistry.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. General Chemistry.

Mr. STONE

A basic course in principles of chemistry with special emphasis on chemical calculations. Prerequisite: high school chemistry, or high school physics and three years of high school mathematics, or Chemistry 2A. Required in the Colleges of Agriculture, Chemistry, Engineering, and of pre dental, premedical, premining, prepharmacy, and preoptometry students; also required of majors in applied physics, bacteriology, chemistry, geology, and physics, and of medical technicians and students in home economics (curriculum C) in the College of Applied Arts. Fee, \$16. 5 units.

Lecture, M Tu W Th F, 8, Tu Th, 1; laboratory, M Tu W Th F, 10-12; quiz, M Tu W Th F, 9.

S1B. General Chemistry.

Mr. FRIESS

Continuation of Chemistry 1A with special applications to the theory and technique of qualitative analysis; periodic system; structure of matter. Prerequisite: Chemistry 1A. Required in the same curricula as Chemistry 1A. Fee, \$16. 5 units.

Lecture, M Tu W Th F, 11, Tu Th, 10; laboratory, M Tu W Th F, 2-4; quiz, M Tu W Th F, 1.

S2. Introductory General Chemistry.

Mr. CRAM

An introductory course emphasizing the principles of chemistry and including a brief introduction to elementary organic chemistry. The course may be taken for credit in physical science by students following curricula not requiring laboratory work in such field of study. Not open for full credit to students who have credit for Chemistry 2A. 3 units.

Lecture, M Tu W Th F, 10, Tu Th, 11.

S2A. Introductory General Chemistry.

Mr. CRAM

An introductory course emphasizing the principles of chemistry and including a brief introduction to elementary organic chemistry. 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 majors in home economics in the College of Applied Arts. Not open for full credit to students who have credit for Chemistry 2. Fee, \$11.50. 5 units.

Lecture, M Tu W Th F, 10, Tu Th, 11; laboratory, M Tu Th F, 8-10; quiz, M W F, 11.

S6A. Quantitative Analysis.

Mr. CROWELL

The principles of gravimetric and volumetric analyses. Required of chemistry majors, economic geologists, petroleum engineers, sanitary and municipal engineers, and of premedical, College of Chemistry, metallurgy, and some agriculture students. Prerequisite: Chemistry 1A-1B. Laboratory fee, \$19.50. 3 units.

Lecture, M Tu W Th F, 1; laboratory, M Tu W Th F, 2-5.

S8. Elementary Organic Chemistry.

Mr. KOELSCH

An introduction to the study of the carbon compounds, including a consideration of the more important general organic reactions and a descriptive study of the principal classes of aliphatic and aromatic compounds. Prerequisite: one year's course in college inorganic chemistry. 3 units.

Lecture, M Tu W Th F, 9, M W, 10.

S9. Methods of Organic Chemistry.

Mr. CAMPBELL

Lectures and quizzes on principles of laboratory manipulation; practical experience in synthetic processes. Open to students who are taking or who have completed Chemistry 8. Laboratory fee, \$31. 3 units.

Lecture, M Tu W Th F, 12; laboratory, M Tu W Th F, 1-4.

S103. Qualitative Organic Analysis.

Mr. GEISSMAN

Classification, reactions, and identification of organic compounds. Prerequisite: Chemistry 6A-6B, 8, and 9. Fee, \$17.50. 3 units.

Lecture, M Tu W Th F, 11; laboratory, M Tu W Th F, 1-4.

S110A. Physical Chemistry.

Mr. RAMSEY

Prerequisite: Chemistry 6B; Physics 1A, 1C or 2A, 1C or 2A-2B; Mathematics 4A. Required of chemistry majors. 3 units.

Lecture, M Tu W Th F, 10, Tu Th, 11.

S111A. Physical Chemistry Laboratory.

Mr. RAMSEY

Physicochemical problems and measurements. Prerequisite or concurrent: Chemistry 110A. Required of chemistry majors. Fee, \$14. 2 units.

Laboratory, M Tu W Th F, 1-4.

S199. Problems in Chemistry.

Mr. BLACET

Prerequisite: junior standing with such special preparation as the problem may demand. Fee, \$17.50. 3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S260. Seminar in Chemistry.

Mr. KOELSCH

1 unit.

M W, 4-5:30

S280. Research in Chemistry.

Mr. BLACET

2-4 units.

Hours to be arranged.

S281. Advanced Research in Chemistry.

Mr. BLACET

2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S199. Problems in Chemistry.

Mr. BLACET

Prerequisite: junior standing with such special preparation as the problem may demand. Fee, \$17.50. 3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S280. Research in Chemistry.

Mr. BLACET

2-4 units.

Hours to be arranged.

S281. Advanced Research in Chemistry.

Mr. BLACET

2-4 units.

Hours to be arranged.

ECONOMICS

ARMEN A. ALCHIAN, Ph.D., Assistant Professor of Economics.

ROY G. BLAKEY, Ph.D., Professor of Economics, University of Minnesota.

LAWRENCE DE RYCKE, Ph.D., Assistant Professor of Economics, Occidental College.

GEORGE H. HILDEBRAND, Ph.D., Assistant Professor of Economics.

WILMA MAYERS, A.B., Lecturer in Economics.

EARL JOYCE MILLER, Ph.D., Professor of Economics.

DUDLEY F. PEGRUM, Ph.D., Professor of Economics.

WILLIAM J. J. SMITH, Ph.D., Instructor in Economics.

MARVEL M. STOCKWELL, Ph.D., Professor of Economics.

GORDON S. WATKINS, Ph.D., Professor of Economics.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Principles of Economics.

Mr. STOCKWELL

The evolution of economic society; production; consumption; value and price; business organization; monopoly; money; banking; foreign exchange; international trade. 3 units.

M Tu W Th F, 9, and two hours of quiz sections.

S1B. Principles of Economics.

Mr. STOCKWELL

Distribution as an economic problem; rent; wages; interest; profits; transportation; protection and free trade; business cycles; insurance; socialism and radical movements; agricultural problems. Prerequisite: Economics 1A, or its equivalent. 3 units.

M Tu W Th F, 10, and two hours of quiz sections.

S40. Introduction to Statistical Methods.

Mr. ALCHIAN

Principles and methods of utilizing statistical data; scientific method; presentation and statistics of a given set of data; probability; methods of statistical inference with economic applications; bivariate correlation, time series and index numbers. Prerequisite: high school algebra. 3 units.

M Tu W Th F, 9, and two hours of laboratory.

S100A. General Economic Theory.

Mr. SMITH

Modern theories of price determination and evolution of ideas concerning wages, rent, and interest. 2 units.

M Tu W Th F, 12.

S103. Development of Economic Thought.

Mr. WATKINS

A study of economic theory by emphasis on historical development of theory of value, production, distribution, population, etc. 2 units.

M Tu W Th F, 11.

S107. Comparative Economic Systems.

Mr. HILDEBRAND

A study of the doctrinal systems of capitalism, socialism, communism, fascism, and miscellaneous socioeconomic reforms; a critical evaluation of the proposals for social and economic readjustment. 2 units.

M Tu W Th F, 9.

S135. Money and Banking.

Mr. BLAKEY

The principles and history of money and banking, with principal reference to the experience and problems of the United States. 2 units.

M Tu W Th F, 10.

S138. Business Cycles.

Mr. SMITH

The measurement, causes, and possible control of economic fluctuations. 2 units.

M Tu W Th F, 1.

S150. Labor Economics.

Mr. HILDEBRAND

The problems of labor; the rise of modern industrialism; the principal causes of industrial strife; and the basis of industrial peace. 2 units.

M Tu W Th F, 11.

S170. Economics of Industrial Control.

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. 2 units.

M Tu W Th F, 9.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S260A. The Relations of Government to Economic Life.

Mr. PEGRUM

2 units.

M W, 2-4.

S261. Studies in Public Finance.

Mr. BLAKEY

2 units.

M W, 12-2.

S270A. Studies in the History and Problems of Organized Labor.

Mr. WATKINS

2 units.

Tu Th, 2-4.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. Principles of Economics.

Mr. MILLER

The evolution of economic society; production; consumption; value and price; business organization; monopoly; money; banking; foreign exchange; international trade. 3 units.

M Tu W Th F, 8, and two hours of quiz sections.

S1B. Principles of Economics.

Mr. MILLER

Distribution as an economic problem; rent; wages; interest; profits; transportation; protection and free trade; business cycles; insurance; socialism and radical movements; agricultural problems. Prerequisite: Economics 1A, or its equivalent. 3 units.

M Tu W Th F, 10, and two hours of quiz sections.

S101. Principles of Economics.

Mrs. MAYERS

Not open to majors in economics nor to those who have taken courses 1A-1B. This course serves as prerequisite for all upper division courses in economics. Principles of economics with application to current problems. 2 units.

M Tu W Th F, 12.

S135. Money and Banking.

Mr. DE RYCKE

The principles and history of money and banking, with principal reference to the experience and problems of the United States. 2 units.

M Tu W Th F, 9.

S150. Labor Economics.

Mrs. MAYERS

The problems of labor; the rise of modern industrialism; the principal causes of industrial strife; and the basis of industrial peace. 2 units.

M Tu W Th F, 10.

S195. Principles of International Trade.

Mr. DE RYCKE

Characteristics of international trade. Comparative costs. The exchange of goods and services and the gain from trade. Foreign exchange. Tariffs and their effects upon trade. United States and British tariff policies. 2 units.

M Tu W Th F, 11.

EDUCATION

- GEORGIA S. ADAMS, Ph.D.**, Research Coördinator, Pasadena City Schools, California.
- MELVIN L. BARLOW, M.S.**, Supervisor of Trade and Industrial Education.
- MARGARET E. BENNETT, Ph.D.**, Director of Pupil-Personnel Services, Pasadena Public Schools, California.
- LAWRENCE L. BETHEL, Ph.D.**, President, Y.M.C.A. Junior College, New Haven, Connecticut.
- LEE D. BODKIN, B.A.**, Assistant Supervisor of Trade and Industrial Education.
- JESSE A. BOND, Ed.D.**, Associate Professor of Education.
- MIRIAM BRUBAKER, M.A.**, Teacher, Palos Verdes School District, California.
- JOHN S. CARROLL, Ph.D.**, Superintendent of Schools, San Diego County, California.
- HARRY W. CASE, Ph.D.**, Associate Professor of Engineering and Associate Professor of Psychology.
- HELEN CHRISTIANSON, Ph.D.**, Lecturer in Education and Supervisor of Nursery School Training.
- STEWART G. COLE, Ph.D.**, Executive Director of Pacific Coast Council on Intercultural Education.
- ELIZABETH K. COOPER, Ph.D.**, Director of Research and Guidance, Lennox School District, California.
- INA K. DILLON, Ed.D.**, School Counselor, University Elementary School.
- WILBUR H. DUTTON, Ed.D.**, Professor of Education, Whittier College, California.
- CHARLOTTE D. ELMOTT, Ph.D.**, Coördinator of Child Welfare, Santa Barbara City Schools, California.
- FRANK O. EVANS, Ed.D.**, Supervisor of Education Housing, Los Angeles City Schools, California.
- CLARENCE FIELSTRA, Ph.D.**, Associate Professor of Education.
- HARRY G. GOOD, Ph.D.**, Professor of Education, Ohio State University.
- JESSIE GRAHAM, Ph.D.**, Supervisor of Business Education, Los Angeles City Schools, California.
- MILTON E. HAHN, Ph.D.**, Associate Professor of Psychology.
- HELEN HEFFERNAN, M.A.**, Chief, Division of Elementary Education, California State Department of Education.
- LESLIE P. HILL, LL.D.**, President, Cheyney Training School for Teachers, Pennsylvania.
- FLORENCE A. ITKIN, A.B.**, General Supervisor, San Luis Obispo County Schools, California.
- ALFRED C. JENSEN, Ed.D.**, Lecturer in Education.
- ERWIN M. KEITHLEY, M.S.**, Lecturer in Office Management.
- DEAN F. KUYKENDALL, Ph.D.**, Associate Professor of Education, Arizona State College, Tempe.
- EDWIN A. LEE, Ph.D.**, Professor of Education.
- RUDOLPH D. LINDQUIST, Ed.D.**, Superintendent of Schools, Santa Barbara, California.

- BLANCHE LUDLUM, M.A., Training Teacher, Nursery School.
- GERTRUDE C. MALONEY, M.A., Training Teacher, Sixth Grade, University Elementary School.
- ELISE H. MARTENS, Ph.D., Chief of Education of Exceptional Children and Youth, U. S. Office of Education, Washington, D.C.
- HOWARD E. MARVIN, A.B., Director of Vocational Education, Pasadena City Schools, California.
- F. DEAN McCLUSKY, Ph.D., Lecturer in Visual Education.
- DRUMMOND McCUNN, M.A., Assistant Superintendent of Schools in Charge of Business Administration, Pasadena, California.
- DOROTHY C. MERIGOLD, Ph.D., Supervisor of Secondary Training, Foreign Languages.
- LLOYD N. MORRISSETT, Ph.D., Professor of Education.
- HENRY NEUMANN, Ph.D., Leader of Brooklyn Society for Ethical Culture, Brooklyn, N.Y.
- ELTA S. PFISTER, M.A., Director of Individual Guidance, Burbank City Schools, California.
- LEE W. RALSTON, B.S., M.E., Director of Division of Trade and Industrial Education, Los Angeles County Schools.
- HAROLD P. RODES, Ph.D., Assistant Director of Relations with Schools.
- JOHN RUFFI, Ph.D., Professor of Education, School of Education, University of Missouri.
- ETHEL I. SALISBURY, M.A., Associate Professor of Elementary Education.
- NORMAN B. SCHARER, Ed.D., Principal, Alhambra City High School, California.
- CORINNE A. SEEDS, M.A., Assistant Professor of Elementary Education.
- C. MORLEY SELLERY, M.D., Director of Health Service, Los Angeles City Schools, California.
- JOHN A. SEXSON, Ed.D., Superintendent of Schools, Pasadena, California.
- PAUL H. SHEATS, Ph.D., Associate Professor of Education.
- HARRY W. SMALLENBURG, Ph.D., Director of Research and Guidance, Los Angeles County School Department, California.
- WILLIAM A. SMITH, Ph.D., Professor of Education.
- MABEL SNEDAKER, Assistant Professor of Education, College of Education, The State University of Iowa.
- ALEXANDER J. STODDARD, Ph.D., Superintendent of Schools, Philadelphia.
- MACK STOKER, M.A., Regional Supervisor, Bureau of Trade and Industrial Education, State Department of Education, California.
- J. GRAHAM SULLIVAN, A.B., Director of Vocational Education, San Diego City Schools, California.
- WALLACE THEILMANN, Ph.M., Special State Supervisor of Instructional Material, California State Department of Education.
- FLAUD C. WOOTON, Ph.D., Associate Professor of Education.

DEMONSTRATION SCHOOL

JESSE A. BOND, Ed.D., Director of Training.

CORINNE A. SEEDS, M.A., Principal of the University Elementary School and of the Summer Elementary Demonstration School.

CLASSIFICATION OF COURSES IN EDUCATION

ADMINISTRATION AND SUPERVISION

132, 132A, 132T, S141, S142, S145, S147, S148, 148C, S149, 151, S240, S241A, S243A, S243B, 244, S246, S247A, 248, S251B, S255A, S255B.

EARLY CHILDHOOD EDUCATION

S124, S125A, S125B, 126, 126L, S253A, S253B, SK336.

EDUCATIONAL PSYCHOLOGY AND CHILD STUDY

S110, S111, S112, S114, 116, S117, S119, 194, S210A, S210B, S219.

ELEMENTARY EDUCATION

131A, 131B, 132, 132T, 134, S139, 139WF, 139WS, 194, S246, S262A, SE336.

HEALTH EDUCATION

151.

HISTORY AND PHILOSOPHY OF EDUCATION

S101, S102, S106, S201, S202, S256A.

PROBLEMS AND TECHNIQUES

131A, 131B, 132, 132T, S145, 167C, 167S, 168, 175, 187, 221.

SECONDARY EDUCATION

S170, 177A, S243A, S243B, S266A, S270A, S275A, S275B, S279A, 371, SJ374, SG378.

SOCIAL AND ADULT EDUCATION

S180, S181, S184, 184P, 187, 208A.

VOCATIONAL EDUCATION

S147, S160, 163C, S164, S165, 167C, 167M, 167S, 168, 175, 221, S226A, S266A, 361, 362, 363A, 367.

WORKSHOPS, INSTITUTES, AND CONFERENCES

132T, 139WF, 139WS, 187.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Prerequisite: junior standing, or its equivalent, is prerequisite to all courses in the Department of Education.

S102. History of Education in the United States.

Mr. WOOTON

The development of significant educational movements in the United States as a basis for analysis of present-day problems. 2 units.

M Tu W Th F, 3.

S106. The Principles of Education.

Mr. NEUMANN

A critical analysis of the assumptions underlying education in a democratic social order. 2 units.

M Tu W Th F, 12.

S110. The Conditions of Learning.

Mrs. ADAMS

Speech, writing, number, literature, and 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. 2 units.

M Tu W Th F, 10.

S111. Growth and Development of the Child.

Mr. JENSEN

Intellectual, emotional, and social development during childhood and adolescence. Particular attention to problems of mental hygiene during critical growth periods. Prerequisite: Psychology 21 and 22 or 23, or the equivalent. 2 units.

M Tu W Th F, 9.

S112. Adolescence.

Mr. JENSEN

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. 2 units.

M Tu W Th F, 12.

S114. Educational Statistics.

Mrs. ADAMS

Statistical procedures applicable to educational problems and educational research. 2 units.

M Tu W Th F, 3.

116. The Education of Exceptional Children.

Miss MARTENS

An orientation course dealing with all types of exceptional children, including the intellectually superior, the mentally and physically handicapped, and the delinquent child. 2 units.

M Tu W Th F, 10.

S117. Principles of Guidance.

Mr. HAHN

The philosophy, techniques, and present practices of guidance as applied to the problems of pupil personnel and counseling in the public schools. 2 units.

M Tu W Th F, 11.

S119. Educational Measurement.

Mr. SMALLENBURG

Use of standardized tests in problems of group and individual diagnosis and evaluation. Prerequisite: Psychology 21 and 22 or 23, or the equivalent. Laboratory fee, \$1.50. 2 units.

M Tu W Th F, 3.

S124. Arts in Childhood Education.

Miss BRUBAKER

The functional values of music, speech, rhythm, and dramatic play in early child development. Prerequisite: Education 111, or the equivalent. 2 units.

M Tu W Th F, 12.

S125A. Kindergarten-Primary Education.

Miss SNEDAKER

Reading and literature in the lower school, including aims, standards of attainment, materials, and technique of teaching. 2 units.

M Tu W Th F, 8.

S125B. Kindergarten-Primary Education

Miss BRUBAKER

Organization, curricula, and procedures in the nursery school, kindergarten, and primary grades. 2 units.

M Tu W Th F, 10.

126. Supervision and Administration of Nursery Schools.

Miss CHRISTIANSON

Local, state, federal, and private support and control; services of nursery schools; problems of budget, curriculum, personnel, in-service teacher training, records and reports; coöperation with other agencies; study of history of nursery education and evaluation of basic research in the field. Prerequisite: nursery school teaching experience and senior standing. 2 units.

M Tu W Th F, 11.

126L. Laboratory in Nursery School Procedures. (First three weeks.)

Miss CHRISTIANSON, Miss LUDLUM

Daily supervised observation and participation in the nursery school, followed by afternoon class periods for intensive study of environmental arrangements, curriculum content and guidance in relation to individual needs and interests of children enrolled in the groups. Admission on consultation with the instructor. 2 units.

M Tu W Th F, lectures, 2-4; laboratory, 8-12—June 21 to July 9, in the University Nursery School.

Industrial Arts for the Elementary Grades. (Art S330.)

Miss WHITE, Miss READ

For teachers and supervisors who wish to make industrial arts an integral part of the elementary school program. The meaning of industrial arts; their place in the elementary schools; their content. The use of tools and various materials suitable for the elementary schools. Laboratory fee, \$2. 2 units.

F, 1, lecture. Laboratory and recitation: Sec. 1, M W, 1-4; Sec. 2, M W, 1-4; Sec. 3, Tu Th, 1-4; Sec. 4, Tu Th, 1-4.

Physical Education in the Elementary School. (Physical Education S330.)

Miss ANDERSON

Organization of plays, games, and rhythmic activities in physical education. Required of all candidates for the General Elementary Credential. Each student must plan a program with two consecutive hours a week for observation between the hours of 9 A.M. and 3 P.M. Prerequisite: junior standing; Physical Education 26, sections 1 and 2, and 44 or the equivalent, and Education 111. 2 units.

M Tu W Th F, 10.

131A. Problems of the Modern Elementary School.

Miss MALONEY, Miss SEEDS

For teachers, training teachers, supervisors, parents, and others who wish to observe under guidance the newer phases of educational procedure as worked out in the Demonstration School. Critical examination and application of the principles of education to the problems of elementary school teaching. Lectures, readings, discussions, conference hours, critical analyses of observations of teaching in Demonstration School. 2 units.

M W F, 12. Observation daily at 9, 10, or 11 in the Demonstration School.

131B. Unit of Work Construction.

Miss ITKIN, Miss SEEDS

For teachers desiring to organize units of work on the basis of actual co-operative participation with children. Examination of criteria for the selection

of areas of experience suitable to different levels of maturity, preparation of corresponding experiential backgrounds and development of anticipatory programs of guided child activity. Prerequisite: Education 131A and permission of instructor. 2 units.

Tu Th, 12-2.

132. Supervision of the Experience Program in the Elementary School.

Miss SEEDS

For principals, supervisors, and teachers interested in supervision. The meaning and practices of the experience program through guided observation in the Demonstration School; actual practice in the use of supervisory techniques with group evaluation; coöperative participation in the organization of units-of-work. Prerequisite: Education 131A, or the equivalent. 4 units.

Tu Th, 2-4. Observation, 9 and 10 daily in the Demonstration School.

132A. Supervision of Child Welfare and Attendance.

Mrs. PFISTER

Methods and procedures in the supervision of child welfare and attendance; supervised practices in social investigation related to school children. Child guidance, teacher-pupil and parent-school relationships; the social resources of the school and community and their utilization for the welfare of the school child. Supervised practice and field work. Accepted as part of the required work, or as one of the elective groups, for the Attendance Officer Credential. 2-4 units.

M Tu W Th F, 12, and field work.

132T. Practicum in Supervision for School Supervisors. (Last three weeks.)

Miss HEFFERNAN

Problems of supervision in the work of supervisors of directors of elementary education, elementary school principals, and of teachers interested in supervision; special stress to be given to programs of supervision based upon appraisal of instruction. Admission to class in order of application. Tuition fee, \$21.00 for those not otherwise enrolled in the Summer Session. 3 units.

M Tu W Th F, 9-11, Directed Observation in the Demonstration School	}	July 12 to July 30
11-12, Study and Discussion Sections		
2-4:30, Study and Discussion Sections		

134. The Teaching of Reading in the Elementary School. Miss SNEDAKER

Analysis of the various types of reading materials with particular reference to reading readiness and the prevention of disabilities. Discussion of means of developing appreciation and perfecting the reading skills. 2 units.

M Tu W Th F, 10.

139WF. Workshop in the Elementary Curriculum.

Miss SALISBURY

For teachers interested in curriculum problems with particular reference to the teaching of reading, language, spelling, writing, and arithmetic in modern elementary schools. 2-4 units.

M Tu W Th F: lectures, 1; laboratory, 9-11.

139WS. Workshop in the Elementary Curriculum.

Mrs. COOPER

For teachers interested in curriculum problems with particular reference to the teaching of natural and social sciences. 2-4 units.

M Tu W Th F: lectures, 9; laboratory, 1-3.

S141. Administration of City School Systems.

Mr. LINDQUIST, Mr. STODDARD

The principles of efficient school administration as exemplified in the practices of progressive cities. Prerequisite: one year of teaching experience. 2 units.

M Tu W Th F, 9.

S142. State and County School Administration.

Mr. CARROLL

The organization and administration of state school systems with special reference to the interrelation of federal, state, and county support and organization. Prerequisite: the consent of the instructor. 2 units.

M Tu W Th F, 9.

S145. Problems in Public School Finance and Business Administration.

Mr. MCCUNN

Methods and problems of financing public education, including a study of the principles of public school business administration, preferred practice, and procedure. Prerequisite: Education 141, 142, and 240, and teaching experience. 2 units.

M Tu W Th F, 11.

S147. Audio-Visual Education.

Section 1: Designed to acquaint teachers with the theories and methods of visual instruction and to furnish experience in the utilization of audio-visual aids. Section 2: Limited to candidates for vocational arts credential. Fee, \$3. 2-3 units.

M Tu W Th F:

Section 1, 11.

Section 2, 10.

Mr. McCLUSKY

Mr. BARLOW

S148. Legal Bases of Public Education in California.

Mr. CARROLL

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. Prerequisite: the consent of the instructor. 2 units.

M Tu W Th F, 8.

148C. Laws Relating to Children.

Mrs. PFISTER

The educational code, labor code, and welfare code of the State of California, together with federal legislation applicable to school children. 2 units.

M Tu W Th F, 11.

S149. Field Work in Administration and Supervision.

Mr. MORRISSETT

A laboratory course to be taken concurrently with, or subsequent to, S243 or S246. 2 units.

Hours to be arranged.

151. Administration of the School Health Program.

Mr. SELLERY

Organization and administration of school health work including school health service, school sanitation, and health education; public health aspects of school hygiene as coordinated in the work of teachers of various departments, nurse, school physician, principal, and other school officials, parent-teacher associations, and community groups. 2 units.

M W, 7-9 p.m.

S160. Vocational Education.

Mr. BARLOW

The economic and social significance of vocational education in a democracy. 2 units.

M Tu W Th F, 9.

163C. Construction of Vocational Curricula.

Mr. MARVIN

Utilizing occupational and trade analysis to lay out and plan the course content and the pattern of courses of a vocational curriculum. 2 units.

M Tu W Th F, 11.

S164. Educational and Vocational Guidance.

Miss BENNETT

The need of vocational guidance in a changing industrial order. The technique of guidance as exemplified in case studies. 2 units.

M Tu W Th F, 11.

S165. Business Education.

Mr. KEITHLEY

The organization, administration, and teaching of business education in secondary schools. 2 units.

M Tu W Th F, 1.

167C. Coöperative and Apprentice Education.

Mr. THEILMANN

The problems incident to the organization and administration of coöperative and apprentice education. 2 units.

M Tu W Th F, 8.

167M. Occupational Measurements.

Mr. CASE

The techniques of test construction and administration of tests primarily in the industrial occupational fields; the construction and development of trade tests and achievement tests used objectively to measure accomplishments of students and employees under training, as well as for selection and placement. 2 units.

M Tu W Th F, 9.

167S. Supervision of Vocational Education.

Mr. SULLIVAN

Responsibilities, qualifications, and duties of local and state supervisors, coördinators, and trade school principals in organizing, supervising, and administering programs of vocational education; financing of local and state programs of vocational supervision; problems of administration and supervision of vocational education to meet changing social and economic needs. 2 units.

M Tu W Th F, 11.

168. Conference Leading.

Mr. STOKER

Conference-leading problems and methods that can be effectively used in education courses. 2 units.

M Tu W Th F, 9.

Remedial Techniques in Basic School Subjects. (Psychology S167.)

Miss FERNALD

The diagnosis and treatment of reading, spelling, arithmetic, and other school disabilities in children and adults. A discussion of foreign language disability will be included in the course if desired. Clinical demonstration, testing, and training of typical cases. 2 units.

M Tu W Th F, 11.

S170. Secondary Education.

Mr. SMITH

Functions, scope, objectives, and curricula of the high school and junior college in relation to individual and social needs. Prerequisite: senior standing and Psychology 21 and 22 or 23, or equivalent. 2 units.

M Tu W Th F, 10.

175. Principles and Problems of Foreign Language Teaching.

Mrs. MERIGOLD

The place of foreign languages in the curriculum; curriculum construction; analyses of changing emphases and present proposals for the teaching of foreign languages; adaption to varying abilities and levels; evaluation procedures and appraisal of objectives. Students in the group will work out problems in their special language field. 2 units.

M Tu W Th F, 3.

177A. Terminal Education in the Junior College. Mr. BETHEL, Mr. RODES

The relation of the junior college to education as a whole, with special attention to its relation to the high school, the four-year college, and the university; the study of student needs as a basis for developing junior college work; problems of general and vocational education in their relation to terminal education; curricula, teaching methods, essential practices, and administration. 2 units.

M Tu W Th F, 12.

S180. Social Foundations of Education.

Mr. NEUMANN

Education as a factor in social evolution. Analysis of current educational practices in the light of modern social needs. 2 units.

M Tu W Th F, 2.

S181. Adult Education.

Mr. SHEATS

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. 2 units.

M Tu W Th F, 3.

184P. Parental Education.

Mrs. ELMOTT

A course designed to prepare teachers and others for leadership in the field of parent education. The Nursery School will be used for observation and interpretation of child behavior. 2 units.

M Tu W Th F, 10.

187. Workshop on Intercultural Education.

Mr. COLE, Mr. HILL

A critical study of the racial and cultural tensions in community life as they affect the work of the public schools. Rethinking the resulting in-service, community, and community-school relations problems facing public school educators. Workshop procedures, including a representative staff and resource leaders. 6 units.

M Tu W Th F, 8-12, 1-5.

194. Child Guidance.

Mrs. ELMOTT

The purposes, principles, and procedures of child guidance in the elementary school. 2 units.

M Tu W Th F, 8.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S201. The History of Education.

Mr. WOOTON

A survey of educational ideas and practices in the history of western civilization. In general, not open to students with credit for Education 101. 2 units.

Tu Th, 1-3.

S208A. Social and Civic Foundations of Education.

Mr. SHEATS

Analysis of educational policies and procedures as they are affected by political and economic trends in American life. Prerequisite: Education 106 and 180. 2 units.

M W, 1-3.

S210A. Advanced Educational Psychology.

Miss BENNETT

Exploration and critical study of current literature and research in educational psychology. Prerequisite: Education 110 or Psychology 110, or the equivalent. 2 units.

W F, 8-10.

S219. Educational Diagnosis.

Miss MARTENS

The development and application of educational measurements and diagnostic procedures with particular reference to physical, mental, social and emotional factors affecting pupil behavior and progress. Prerequisite: previous work in educational measurement, including statistical methods. 2 units.

Tu Th, 1-3.

221. Research in Foreign Language Teaching.

Mrs. MERIGOLD

Research in foreign language teaching along lines of individual interest, such as: construction of foreign language tests for oral and aural facility; the use of audio-visual materials in foreign language teaching; studies of enrollments; statistical investigation of achievement. Admission on consultation with the instructor. 2 units.

M W, 1-3.

S226A. Business Education.

Mrs. GRAHAM

For teachers and students of graduate standing interested in problems related to the organization and supervision of business training on high school and junior college levels. Admission on consultation with the instructor. 2 units.

M W, 2-4.

S240. Organization and Administration of Education.

Mr. MORRISSETT

2 units.

Tu Th, 1-3.

S241A. School Surveys.

Mr. EVANS

A critical study of the techniques and findings of school surveys combined with practice in making studies of school systems. Admission on consultation with the instructor. 2 units.

M W, 1-3.

S243A. Administration of Secondary Education.

Mr. RUFFI

For teachers of experience who desire to qualify for the secondary school supervision or secondary school administration credential. Admission on consultation with the instructor. 2 units.

Tu Th, 8-10.

244. School-House Planning.

Mr. EVANS

Designed to help school administrators find sound solutions to school-housing problems in their own school systems, particularly in the areas of school-house planning and school-plant administration. Analysis of established techniques and research studies, validation of standards and the derivation of standards. Prerequisite: Education 141 and 145 or the equivalent, or extensive practical experience in school administration. 2 units.

Tu Th, 8-10.

S246. Administration of Elementary Education.

For teachers of experience who desire to qualify for the elementary school supervision or elementary school administration credential. Problems in organization and administration of the modern elementary school. Admission on consultation with the instructor. 2 units.

Tu Th, 1-3.

S247A. Audio-Visual Education. Advanced Course.

Mr. McCLUSKY

For supervisors and administrators dealing with the problems involved in developing programs of visual education on the various levels in public education. 2 units.

Tu Th, 8-10.

248. School-Community Relationships.

Mr. LINDQUIST, Mr. STODDARD

The factors involved in developing community thinking about and understanding of educational problems. Open to superintendents of schools, principals, other administrative officers, and qualified graduate students. 2 units.

Tu Th, 10-12.

S253A. Early Childhood Education. Seminar.

Miss CHRISTIANSON

2 units.

M W, 8-10.

S255A. School Administration. Seminar.

Mr. MORRISSETT

Prerequisite: a teaching credential and Education 141 or its equivalent. Limited to candidates for the master's or doctor's degree whose major interest is school administration. 2 units.

W F, 2-4.

S256A. Principles of Education. Seminar.

Mr. LEE

For advanced students interested in the intensive consideration of selected social and economic investigations which bear profoundly upon the development of educational practice and policy. 2 units.

Tu Th, 8-10.

S262A. The Elementary School Curriculum. Seminar.

2 units.

W F, 1-3.

S266A. Vocational Education and Guidance. Seminar.

Mr. LEE

For graduate students whose major interest is in vocational education, vocational guidance, or closely related problems. Admission on consultation with the instructor. 2 units.

M W, 10-12.

S270A. Secondary Education. Seminar.

Mr. SMITH

Prerequisite: Education 170. Admission on consultation with instructor.
2 units.

M W, 1-3.

S275A. The Secondary School Curriculum. Seminar.

Mr. RUFFI

2 units.

M W, 8-10.

S279A. The Junior College. Seminar.

Mr. BETHEL, Mr. RODES

For graduate students whose major interest is in the junior college, the technical institute, or closely related areas of study. Admission on consultation with the instructor. 2 units.

Tu Th, 2-4.

SPECIAL COURSES

SE336. Supervised Teaching: General Elementary.

Supplementary teaching which may be elected by the student who has already met the teaching requirement for the general elementary credential. 2 or 4 units.

Hours to be arranged.

SK336. Supervised Teaching: Kindergarten-Primary.

Supplementary teaching which may be elected by the student who has already met the teaching requirement for the kindergarten-primary credential. 2 or 4 units.

Hours to be arranged.

371. Introduction to Secondary Teaching.

Mr. BOND

The specific and practical phases of teaching in secondary schools. Directed observation and analysis of instructional practices in classes at Los Angeles Summer High School will be given emphasis. (Meets the requirement of Education 370 for general secondary credential.) 2 units.

M Tu W Th F, 1.

SJ374. Supervised Teaching: General Junior High School.

Mr. BOND

Supervised teaching for candidates qualifying either for the junior high school credential or for a special secondary credential. Prerequisite: two years of satisfactory public school teaching experience; or four units of credit in supervised teaching. Enrollment limited and subject to the approval of the instructor. 2 units.

Hours to be arranged.

SG378. Supervised Teaching: General Secondary.

Mr. BOND

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 teaching experience not provided in their previous training. Enrollment limited and subject to approval of the instructor. 2 units.

Conference hours to be arranged.

COURSES FOR TRAINING TRADE AND INDUSTRIAL TEACHERS

The Summer Sessions courses under this heading are designed primarily to prepare men and women for service in vocational schools and departments maintained under the provisions of the State and Federal Vocational Education Acts and the State Continuation Education Act.

These courses are open to those who qualify under the California State Plan; men and women between the ages of twenty-four and forty-five years, who are high school graduates, or the equivalent, and who have had at least three years' experience as journeymen workers in the trade which they wish to teach, in addition to an adequate training period of apprenticeship, and whose personal characteristics would seem to fit them for teaching in vocational schools; and to those who are now engaged in such teaching.

Further information may be obtained from Mr. Melvin L. Barlow, Supervisor of Trade and Industrial Teacher Training, University of California, 405 Hilgard Avenue, Los Angeles 24.

361. Occupational Analysis.

Mr. BODKIN

Analysis and classification of the trade knowledge and experience which the worker possesses. The use of trade and job analysis techniques employed in organizing an occupation into effective units of learning. In this course every trainee must make a trade analysis of his occupation. 2 units.

M Tu W Th F, 8.

362. Technique of Vocational Instruction.

Mr. RALSTON

Outline of instructional and administrative problems involved in the actual teaching of a trade; methods of teaching and demonstration teaching; related problems and suggested solutions. 2 units.

M Tu W Th F, 9.

363A. Organization and Management of Instruction.

Mr. BODKIN

The organization and management of shop instruction; shop layout, tool-room procedures and management; shop class techniques and safety precautions. 2 units.

M Tu W Th F, 10.

367. Civic and Employment Relations.

Mr. RALSTON

For applied subjects teachers; attitude toward citizenship and industrial relations of potential workers. 2 units.

M Tu W Th F, 8.

RELATED COURSES

The courses which require registration for observation in the Demonstration School are Education S124, S125A, S125B, 126, 126L, 131A, 131B, 132T, and 184P.

COURSES IN OTHER DEPARTMENTS OF SPECIAL INTEREST TO TEACHERS

American Institutions S101

Art S42, S330

Astronomy S1

Biology S12

Business Administration S3A, S3B, S4A

Chemistry S2A

English S370

Geography S1A, S370

History S7A, S7B
 Home Economics S131, S143, 153.
 Mathematics S18
 Music S1A, 156, S330
 Physical Education S24, 36, S101, 110, S145A, S145B, S245, S255, S330
 Physics S2A
 Psychology S21, S22, S105A, S105B, S110, S163, S166A, S166B, S167
 Theater Arts 103, S155

SCHOOLS FOR CHILDREN

ELEMENTARY DEMONSTRATION SCHOOL

The Demonstration School, in session daily from 9 A.M. to 12 M., will comprise a complete elementary school unit from the nursery school through the sixth grade. Classes will be open for observation by Summer Sessions students, especially those enrolled in related courses. Visitors may obtain single admission tickets on sale at the school office.

The work of each group is planned to illustrate how a completely integrated child experience in the social studies draws upon and utilizes curricular materials from the various subject-matter fields. The aims, objectives, methods of procedure, and the outcomes of the activity approach to child education will be made evident through observation and by discussion. The constant aim is to work from and to illustrate the use of basic principles of teaching and learning.

Enrollment of children in the Demonstration School should be secured by advanced application in order to insure acceptance. Applications for enrollment should be made between May 1 and June 18 to Miss Corinne A. Seeds, Principal of the Demonstration School, University of California, Los Angeles 24, California. Final registration of applicants will take place on Saturday, June 19, from 8:30 A.M. to 12 M. The fee for the six weeks of the nursery school (see page 29) is \$80; for kindergarten, \$20; for grades one to six, \$15. The fee should be paid at the time of application and not later than registration day. Checks should be made payable to The Regents of the University of California.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Prerequisite: junior standing, or its equivalent, is prerequisite to all courses in the Department of Education.

S101. History of Education.

Mr. GOOD

The development of educational thought and practice viewed as a phase of the history of Western civilization. 2 units.

M Tu W Th F, 9.

S106. The Principles of Education.

Mr. NEUMANN

A critical analysis of the assumptions underlying education in a democratic social order. 2 units.

M Tu W Th F, 11.

S110. The Conditions of Learning.

Mr. DUTTON

Speech, writing, number, literature, and science considered as social institutions evolved through coöperative intellectual effort. Analysis of the conditions

under which the child attains most effective mastery of these skills and knowledges. Prerequisite: Psychology 21, 22 or 23, or the equivalent. 2 units.

M Tu W Th F, 12.

S119. Educational Measurement.

Mr. KUYKENDALL

Use of standardized tests in problems of group and individual diagnosis and evaluation. Prerequisite: Psychology 21 and 22 or 23, or the equivalent. Laboratory fee \$1.50. 2 units.

M Tu W Th F, 9.

S139. The Elementary Curriculum.

Mr. DUTTON

An introduction to the problem of curriculum organization as exemplified in representative courses of study. Emphasis on the planning of activity units appropriate to the varying maturity levels of children. 2 units.

M Tu W Th F, 8.

S170. Secondary Education.

Mr. SCHARER

Functions, scope, objectives, and curricula of the high school and junior college in relation to individual and social needs. Prerequisite: senior standing and Psychology 21 and 22 or 23, or equivalent. 2 units.

M Tu W Th F, 9.

S180. Social Foundations of Education.

Mr. SENSON

Education as a factor in social evolution. Analysis of current educational practices in the light of modern social needs. 2 units.

M Tu W Th F, 11.

S184. Character Education.

Mr. NEUMANN

Problems of character formation from childhood through adolescence in home, school, and community. The psychological and sociological factors which contribute to the attitudes, habits, knowledge, and skills of school children. Various plans and programs of character education. 2 units.

M Tu W Th F, 10.

194. Child Guidance.

Mrs. DILLON

The purposes, principles, and procedures of child guidance in the elementary school. 2 units.

M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S202. History of Education in the United States.

Mr. GOOD

A survey of educational ideas and practices in the history of the United States. In general, not open to students with credit for Education 102. 2 units.

Tu Th, 10-12.

S201B. Advanced Educational Psychology.

Mr. KUYKENDALL

Exploration and critical study of current literature and research in educational psychology. Prerequisite: Education 110 or Psychology 110, or the equivalent. 2 units.

M W, 8-10.

S243B. Administration of Secondary Education.

Mr. SCHARER

For teachers of experience who desire to qualify for the secondary school supervision or secondary school administration credential. Admission on consultation with the instructor. 2 units.

Tu Th, 10-12.

S251B. Supervision of Teaching. Seminar.

Mr. FIELSTRA

Open to superintendents, principals, supervisors, training teachers, and other students of graduate standing interested in the intensive study of the organization, administration, practices, and current problems of supervision of instruction. Admission on consultation with the instructor. 2 units.

Tu F, 1-3.

S253B. Early Childhood Education. Seminar.

Mrs. DILLON

2 units.

M W, 8-10.

S255B. School Administration. Seminar.

Mr. SEXSON

Prerequisite: a teaching credential and Education 141 or its equivalent. Limited to candidates for the master's or doctor's degree whose major interest is school administration. 2 units.

M W, 8-10.

S275B. The Secondary School Curriculum. Seminar.

Mr. FIELSTRA

2 units.

M W, 1-3.

ENGINEERING

Classes in engineering will be held for one twelve-week session instead of two six-week sessions. The tuition will be \$84.00, payable at the time of registration. All sectional offerings in engineering are tentative and courses and sections may be added or deleted. Enrollments will be accepted up to the capacity of the sections. Enrollment in a Summer Session engineering course does not carry with it the right of admission to the College of Engineering. Entrance to the College of Engineering is determined by an entrance examination and by previous scholastic achievement. (See GENERAL CATALOGUE, DEPARTMENTS AT LOS ANGELES.)

(June 21 to September 11, 1948)

S1LA. Surveying Lectures.

Principles of measurement of distances, directions, and elevations. Construction and use of common surveying instruments, such as tape, compass, level, transit, and alidade. Problems in elementary surveying. Prerequisite: trigonometry, and geometric drawing. 2 units.

M W F, 11.

S1FA. Surveying Field Practice.

Prerequisite or concurrent: Engineering S1LA. Fee, \$6. 1 unit.

M, 1-5, section 1; F, 7-11, section 2.

S1LB. Surveying Lectures.

Continuation of S1LA. Prerequisite: Engineering 1LA. 2 units.

M W F, 11.

S1FB. Surveying Field Practice.

Continuation of S1FA. Prerequisite or concurrent: Engineering S1LB. Fee, \$6. 1 unit.

W, 1-5.

S2. Descriptive Geometry.

The fundamental principles of descriptive geometry and their application to the solution of engineering problems. Prerequisite: engineering drawing, or one year high school mechanical drawing, plane geometry. 3 units.

M W, 7-11.

S6. Engineering Drawing.

Design and delineation of simple machine parts in the drafting room, with special emphasis upon the production of drawings which conform to standard practice. Prerequisite: Engineering 2. 3 units.

Tu Th, 7-11.

S8. Properties of Materials.

The properties of materials; their significance to the engineer; applications to engineering systems; dependency of properties on internal structure; structures and properties of metals and alloys and their response to thermal and mechanical treatments; structures and properties of nonmetallic materials. Prerequisite: Chemistry 1B. 2 units.

M W F, 8.

S10B. Processing of Engineering Materials.

Study of modern manufacturing processes; casting, cutting, plastic work-

ing, fastening (welding, riveting, mechanical methods), finishing, gaging, introductory quality control, production analysis; emphasis in laboratory on mechanical and physical properties involved in various processes. Arranged field trips. Prerequisite: Engineering 8. Fee, \$6. 2 units.

F, 12-5.

S15A. Elementary Mechanics.

Units of mechanics, composition and resolution of coplanar forces, equilibrium of coplanar force systems, friction, frames of truss and crane types, centroids, second moments of areas, stress and strain, simple stress calculations, torsion, beam stresses. Analytical and graphical solutions will be presented. Prerequisite: Engineering 8 (may be taken concurrently), Physics 1A, Mathematics 4A (may be taken concurrently). 3 units.

M Tu W Th, 12.

S15B. Elementary Mechanics.

Composition and resolution of noncoplanar forces, equilibrium of noncoplanar force systems, cables, belt friction, hydrostatics, buoyancy and flotation, deflection of statically determinant and indeterminate beams, and composite beams. Prerequisite: Engineering 15A, Mathematics 4B (may be taken concurrently). 3 units.

M Tu W Th, 12.

S15AB. Elementary Mechanics.

Prerequisite: Engineering 8 (may be taken concurrently), Physics 1A, Mathematics 4B (may be taken concurrently).

Combined course. 6 units.

M Tu W Th, 2-4.

S100A. Circuit Analysis.

Elements of electrical circuit analysis with emphasis on solutions of single phase circuit problems; applications of steady state and transient analysis to linear electrical, mechanical and thermal systems will be included.

Prerequisite: Mathematics 4A-4B, Physics 1C. 3 units.

M Tu W Th, 11.

S100B. Electrical Machines.

Principles and applications of industrially important electrical machines and equipment. Prerequisite: Engineering 100A. 3 units.

M Tu W Th, 11.

S102B. Engineering Dynamics.

Kinematics and kinetics of a particle and of rigid bodies with emphasis on engineering applications. Prerequisite: course 15B (or 102A), Mathematics 4B, Physics 1A-1B, 1D-1C; Mathematics 110A recommended concurrently. 3 units.

M Tu W Th, 10, section 1; M Tu W Th, 2, section 2.

S103. Fluid Mechanics.

An introductory course dealing with the application of the principles of mechanics to the flow of compressible and incompressible fluids. Includes hydraulic problems of flow in closed and open conduits. Prerequisite: Engineering 102B (may be taken concurrently), Engineering 105B (may be taken concurrently). 3 units.

M Tu W Th, 12.

S104A. Engineering Circuits Laboratory.

Electrical measurements and instrumentations of mechanical and electrical systems; introductory experiments illustrating the applications of electrical-circuit theory to electrical, mechanical, thermal, acoustical and fluid systems. Prerequisite: Engineering 100A (may be taken concurrently). Fee, \$11.50. 2 units.

M W, 1-5, section 1; Tu Th, 7-11, section 2.

S104B. Engineering Applications of Electrical Machines.

Introductory experiments illustrating the principles of operation and the application of electrical machinery and equipment. Prerequisite: Engineering 100B (may be taken concurrently), Engineering 104A. Fee, \$11.50. 2 units.

M W, 1-5, section 1; Tu Th, 7-11, section 2.

S105A. Heat Transfer and Thermodynamics.

The principles of thermodynamics and heat transfer as applied to engines, chemical systems, and various methods for the production or absorption of power, psychrometry, vapors, gases, gas dynamics, theoretical cycles, nonisothermal electrical equipment, and practical problems concerning economic factors.

Prerequisite: Mathematics 4B, Chemistry 1B, Physics 1A-1B, 1C-1D, and full junior standing in the College of Engineering. 3 units.

M Tu W Th, 12.

S105B. Heat Transfer and Thermodynamics.

Continuation of Engineering 105A. 3 units.

M Tu W Th, 9, section 1; M Tu W Th, 3, section 2.

S108B. Strength of Materials.

Plane and combined stresses; plates, shells, and thick-walled cylinders; energy of strain; failure of materials by plastic flow and elastic instability; elements of experimental stress analysis.

Prerequisite: Engineering 108F (may be taken concurrently) and course 15B (courses 102A and 108A may be substituted for 15B). 2 units.

M W F, 8.

S108F. Engineering Materials Laboratory.

Physical tests of wood, metals, concrete, paper, soil, plastics and ceramic materials. The measurement of stresses in machines and structures.

Prerequisite: Engineering 10B and 15B. Fee, \$6. 1 unit.

Tu, 1-5, section 1; W, 7-11, section 2.

S198. Directed Group Studies for Upper Division Students.

Group study of selected topics. Study groups may be organized in advanced engineering subjects upon approval of instructor in charge. Prerequisite: senior standing in the College of Engineering. 1-5 units.

Hours to be arranged.

S199. Special Studies or Research for Advanced Undergraduates.

Individual study and or research on a problem normally chosen from a restricted departmental list. Enrollment is subject to the scholarship requirements imposed by the instructor concerned. Prerequisite: senior standing in the College of Engineering. 1-5 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS
For conditions of enrollment, see page 20

S298. Seminar in Engineering.

Seminars may be organized in advanced technical fields. Course may be repeated provided no duplication exists. 1-5 units.

Hours to be arranged.

S299. Research in Engineering.

Investigation of advanced technical problems. 1-5 units.

Hours to be arranged.

ENGLISH

- WILLIAM ADAMS, B.A., Assistant in English in the Summer Sessions.
 ARTHUR STUART DALEY, Ph.D., Instructor in English.
 JOHN GOULD FLETCHER, A.B., Poet and Lecturer.
 LEW GIRDLER, M.A., Assistant in English in the Summer Sessions.
 JOHN WATERS HOUSTON, B.A., Assistant in English in the Summer Sessions.
 SIGURD BERNHARD HUSTVEDT, Ph.D., Professor of English.
 CLAUDE JONES, Ph.D., Associate Professor of English.
 EVERETT LEE JONES, M.A., Assistant in English in the Summer Sessions.
 PAUL ALFRED JORGENSEN, Ph.D., Instructor in English.
 WILLIAM DOUGALD MACMILLAN, Ph.D., Professor of English, University of North Carolina.
 WILLIAM MATTHEWS, Ph.D., Associate Professor of English.
 GILBERT STUART MOORE, M.A., Lecturer in English.
 BLAKE REYNOLDS NEVIUS, Ph.D., Instructor in English.
 ADA BLANCHE NISBET, Ph.D., Instructor in English.
 JAMES EMERSON PHILLIPS, JR., Ph.D., Assistant Professor of English.
 FRANK W. STERLING, B.A., Assistant in English in the Summer Sessions.
 JOHN LINCOLN STEWART, Ph.D., Instructor in English.
 HUGH THOMAS SWEDENBERG, JR., Ph.D., Associate Professor of English.
 JAMES LEMUEL WORTHAM, Ph.D., Instructor in English.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S1A. First-Year Reading and Composition.** Mr. DALEY in charge
 Basic problems of expository writing with emphasis upon technical correctness and organization of material. Themes and reports. Open only to students who have met the Subject A requirement (see pages 23 and 135). 2 units.
 M Tu W Th F, section 1, 8; M Tu W Th F, section 2, 9; M Tu W Th F, section 3, 10; M Tu W Th F, section 4, 11; M Tu W Th F, section 5, 1.
- S1B. First-Year Reading and Composition.** Mr. DALEY in charge
 Writing based on the reading of selections from contemporary literature. Prerequisite: English 1A. 2 units.
 M Tu W Th F, section 1, 8; M Tu W Th F, section 2, 9; M Tu W Th F, section 3, 10; M Tu W Th F, section 4, 11.
- S36A. Survey of English Literature, 1500 to 1700.**
 Prerequisite: English 1A-1B or the equivalent. 2 units.
 M Tu W Th F:
 Section 1, 9. Mr. MOORE
 Section 2, 11. Mr. DALEY
- S36B. Survey of English Literature, 1700 to 1900.** Mr. STEWART
 Prerequisite: English 36A or the equivalent. 2 units.
 M Tu W Th F, 10.

S106A. The Short Story.

Mr. STEWART

The study and writing of short stories with opportunity for criticism of original work. Prerequisite: English 31 or the equivalent and consent of the instructor. 2 units.

M Tu W Th F, 8.

S106B. Verse Writing.

Mr. FLETCHER

Practice in writing standard forms of verse. 2 units.

M W, 1-3.

S110. Introduction to the English Language.

Mr. MATTHEWS

2 units.

M Tu W Th F, 9.

S114C. Contemporary Drama.

Mr. MACMILLAN

A survey of the most important developments in modern drama, continental, English, and American, since Strindberg and Ibsen. 2 units.

M Tu W Th F, 11.

S125C. The English Novel.

Mr. JONES

The history of the novel to the death of Scott. 2 units.

M Tu W Th F, 9.

S157. The Age of Milton.

Mr. HUSTVEDT

The poetry and some of the prose of Milton in relation to the period. 2 units.

M Tu W Th F, 1.

S177. The Romantic Age: 1784-1832.

Mr. JONES

The chief writers of the period, with emphasis on their individual contributions to literature and on their relation to the romantic movement. 2 units.

M Tu W Th F, 8.

S190B. Literature in English from 1900.

Mr. FLETCHER

2 units.

M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S221. Medievalism.

Mr. MATTHEWS

A survey of the principal works necessary to a knowledge of the Middle Ages. 2 units.

M Tu W Th F, 10.

S263C. Studies in Drama, 1660-1790.

Mr. MACMILLAN

Studies in Restoration comedy.

2 units.

M W, 1-3.

S263E. Milton.

Mr. HUSTVEDT

Paradise Lost and *Paradise Regained* with particular reference to antecedent and contemporary epic theory. 2 units.

Tu Th, 2-4.

PROFESSIONAL COURSE IN METHOD

S370. The Teaching of English.

Mr. MOORE

Problems in teaching English literature and composition in the secondary schools. May be counted as part of the eighteen units in education required for

the secondary credential. Required of candidates for the General Secondary Credential in English. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1A. First-Year Reading and Composition.** Mr. WORTHAM in charge
Basic problems of expository writing with emphasis upon technical correctness and organization of material. Themes and reports. Open only to students who have met the Subject A requirement (see pages 23 and 135). 2 units.
M Tu W Th F, section 1, 8; M Tu W Th F, section 2, 11.
- S1B. First-Year Reading and Composition.** Mr. WORTHAM in charge
Writing based on the reading of selections from contemporary literature. Prerequisite: English 1A. 2 units.
M Tu W Th F, section 1, 8; M Tu W Th F, section 2, 9; M Tu W Th F, section 3, 10.
- S31. Intermediate Composition.** Mr. NEVIUS
2 units.
M Tu W Th F, 9.
- S36A. Survey of English Literature, 1500 to 1700.** Mr. WORTHAM
Prerequisite: English 1A-1B or the equivalent. 2 units.
M Tu W Th F, 1.
- S36B. Survey of English Literature, 1700 to 1900.** Miss NISBET
Prerequisite: English 36A or the equivalent. 2 units.
M Tu W Th F, 10.
- S117J. Shakespeare.** Mr. PHILLIPS
A study of eight or nine plays, with special emphasis on one chronicle, one comedy, and one tragedy. 2 units.
M Tu W Th F, 9.
- S125D. The English Novel.** Miss NISBET
A study of the principal novelists from Dickens to Galsworthy. 2 units.
M Tu W Th F, 11.
- S156. The Age of Elizabeth.** Mr. PHILLIPS
The more important writers and literary types (exclusive of the drama) from approximately 1550 to 1610. 2 units.
M Tu W Th F, 10.
- S167. The Age of Pope and Johnson.** Mr. SWEDENBERG
The chief writers, movements, and books of the period and their most important relationships to predecessors and followers. 2 units.
M Tu W Th F, 12.
- S190A. Literature in English from 1900.** Mr. NEVIUS
Criticism, the novel, and biography. 2 units.
M Tu W Th F, 8.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

- S223. Neo-Classicism.** Mr. SWEDENBERG
2 units.
M W, 2-4.

FRENCH

- ROBERT PETER ABY, M.A., Assistant in French in the Summer Sessions.
 MYRON I. BARKER, Ph.D., Associate Professor of French.
 HENRY BARON, B.A., Assistant in French in the Summer Sessions.
 PAUL BONNET, Lic. ès Lettres, Associate in French.
 WILLIS BOYD, B.A., Assistant in French in the Summer Sessions.
 HAZEL BOYLE, M.A., Assistant in French in the Summer Sessions.
 INA J. BURNS, M.A., Assistant in French in the Summer Sessions.
 BELLA BURSTEIN, B.A., Assistant in French in the Summer Sessions.
 JOSEPH CASTAGNO, M.A., Assistant in French.
 GUSTAVE CHARLAND, B.A., Assistant in French.
 JAMES DAVIES, B.A., Assistant in French in the Summer Sessions.
 HUBERT DEFFROMONT, Agrégé d'anglais, Assistant in French.
 ALEXANDER GREEN FITE, Ph.D., Associate Professor of French.
 CHARLOTTE FRIEDLANDER, M.A., Assistant in French in the Summer Sessions.
 RICHARD GONZALES, M.A., Assistant in French in the Summer Sessions.
 ALLISON GRONBERG, B.A., Assistant in French in the Summer Sessions.
 CLINTON C. HUMISTON, Ph.D., Associate Professor of French.
 LEON LIBENSON, B.A., Assistant in French in the Summer Sessions.
 THAIS LINDSTROM, B.A., Assistant in French in the Summer Sessions.
 L. GARDNER MILLER, Docteur de l'Université de Strasbourg, Assistant Professor of French.
 SIMONE MONTEVERDE, B.A., Assistant in French in the Summer Sessions.
 HERMAN OHME, B. A., Assistant in French.
 CLARENCE E. PARMENTER, Ph.D., Professor of French, Department of Romance Languages and Literatures, University of Chicago.
 WARREN PATTERSON, B.A., Assistant in French in the Summer Sessions.
 SEYMOUR TRAVERS, Ph.D., Assistant Professor of French, Mohawk College, New York.
 DEE VALENTINE, M.A., Assistant in French in the Summer Sessions.
 MARY VALIS, M.A., Assistant in French in the Summer Sessions.
 HARRY F. WILLIAMS, Ph.D., Instructor in French.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***S1. Elementary French.**

For beginners. Essentials of grammar (forms, sounds, syntax); practice in reading and conversation. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 9-11.

Section 3, 10-12.

Section 4, 11-1.

Section 5, 1-3.

Mr. DAVIES

Mr. BARON

Mr. GRONBERG

Mr. VALENTINE

Miss MONTEVERDE

S2. Elementary French.

Continuation of French S1. Grammar; composition; practice in conversation. Prerequisite: French 1, or the equivalent. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 9-11.

Section 3, 11-1.

Section 4, 1-3.

Mr. GONZALES
Miss BURSTEIN
Mr. OHME
Mr. ABY

S3. Intermediate French.

Continuation of French S2. Prerequisite: French 2, or three years of high school French. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 9-11.

Section 3, 10-12.

Section 4, 11-1.

Section 5, 1-3.

Mr. CHARLAND
Mrs. BOYLE
Mr. CASTAGNO
Mr. DEFFROMONT
Miss VALIS

S4. Intermediate French.

Continuation of French S3. Prerequisite: French 3, or four years of high school French. 4 units.

M Tu W Th F, 10-12.

Mr. BONNET

S8A. French Conversation.

Open to students who have completed French 2, or its equivalent, with grade of A or B. 1 unit.

M Tu W Th F, 9.

Mr. MILLER

S101A. Composition, Oral and Written.

Prerequisite: 16 units of lower division French, or the equivalent. 2 units.

M Tu W Th F, 10.

Mr. HUMISTON

S109A. Survey of French Literature and Culture.

Limited to students majoring in French. Not open to students who have taken or are taking French 109M, 109N. The Middle Ages, the Renaissance, and the seventeenth century. 2 units.

M Tu W Th F, 11.

Mr. MILLER

S109M. Survey of French Literature and Culture.

Given in English. Does not count on the major in French. Not open to students who have taken or are taking French 109A, 109B. The Middle Ages, the Renaissance, and the seventeenth century. 2 units.

M Tu W Th F, 11.

Mr. HUMISTON

S115A. Modern French Drama.

Outstanding plays of the last half-century. *Le Théâtre d'idées en France*. Porto-Riche, Maeterlinck, Claudel, Romains, Lenormand, Raynal, Sarment, Sartre, and others. 2 units.

M Tu W Th F, 9.

Mr. FITE

130A. Cours de Style.

Study of phonetics, morphology, and syntax of the modern French language. Historical development of modern grammar. Original composition and oral practice. 2 units.

M Tu W Th F, 1.

Mr. FITE

131A. French Phonetics.

Mr. PARMENTER

Sounds, syllables, stress groups, intonation; practical exercises in pronunciation. For any student, but especially for present or prospective teachers. 2 units.

M Tu W Th F, 12.

S199A. Special Studies in French.

The STAFF

Prerequisite: Senior standing, at least 12 units of upper division French, and consent of the instructor. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

251A. André Gide.

Mr. PARMENTER

Study of his contributions to the social ideas of contemporary France. Lectures and reports. 2 units.

M Tu W Th, 2.

S290A. Research in French.

The STAFF

Prerequisite: Consent of the instructor. 1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

*(August 2 to September 11, 1948)***S1. Elementary French.**

For beginners. Essentials of grammar (forms, sounds, syntax); practice in reading and conversation. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 10-12.

Section 3, 1-3.

Mr. PATTERSON

Mr. BOYD

Mr. LIBENSON

S2. Elementary French.

Continuation of French S1. Grammar, composition, practice in conversation. Prerequisites: French 1, or the equivalent. 4 units.

M Tu W Th F:

Section 1, 9-11.

Section 2, 12-1.

Mrs. BURNS

Miss LINDSTROM

S3. Intermediate French.

Continuation of French 2. Prerequisite: French 2, or three years of high school French. 4 units.

M Tu W Th F:

Section 1, 10-12.

Section 2, 11-1.

S4. Intermediate French.

Mrs. FRIEDLANDER

Continuation of French 3. Prerequisite: French 3, or four years of high school French. 4 units.

M Tu W Th F, 10-12.

S8B. French Conversation.

Mr. WILLIAMS

Open to students who have completed French 2, or its equivalent, with grade of A or B. 1 unit.

M Tu W Th F, 9.

S101B. Composition, Oral and Written. Mr. WILLIAMS
Prerequisite: 16 units of lower division French, or the equivalent. 2 units.
M Tu W Th F, 10.

S109B. Survey of French Literature and Culture. Mr. TRAVERS
Prerequisite: French 109A. The eighteenth, nineteenth, and twentieth centuries. 2 units.
M Tu W Th F, 11.

S109N. Survey of French Literature and Culture. Mr. BARKER
The eighteenth, nineteenth, and twentieth centuries. Prerequisite: French 109M. Given in English; does not count on the major in French. Not open to students who have or are taking French 109A, 109B. 2 units.
M Tu W Th F, 11.

S115B. Modern French Drama. Mr. TRAVERS
Outstanding plays of the last half century. Le Théâtre d'idées en France. Porto-Riche, Maeterlinck, Claudel, Romains, Lenormand, Raynal, Sarmant, Sartre, and others. 2 units.
M Tu W Th F, 9.

130B. Cours de Style. Mr. BARKER
Study of phonetics, morphology, and syntax of the modern French language. Historical development of modern grammar. Original composition and oral practice. 2 units.
M Tu W Th F, 1.

S199B. Special Studies in French. The STAFF
Guided readings, with reports. Prerequisite: Senior standing, at least 12 units of upper division French, and consent of the instructor. 2 units.
Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S290B. Research in French. The STAFF
Prerequisite: Consent of the instructor. 1-3 units.
Hours to be arranged.

GEOGRAPHY

HENRY J. BRUMAN, Ph.D., Assistant Professor of Geography.

H. LOUIS KOSTANICK, M.A., Instructor in Geography.

HENRY M. LEPPARD, Ph.D., Associate Professor of Geography, University of Chicago.

CLIFFORD H. MACFADDEN, M.A., Lecturer in Geography.

ALFRED H. MEYER, Ph.D., Professor of Geography, Valparaiso University, Indiana.

BENJAMIN E. THOMAS, Ph.D., Instructor in Geography.

CLIFFORD M. ZIERER, Ph.D., Professor of Geography.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Elements of Geography.

Mr. LEPPARD, Mr. THOMAS

The basic physical elements of geography—especially climate, land forms, soils, and natural vegetation—and their integrated patterns of world distribution. Students who have had Geography 5A or 100 will receive only half credit for Geography S1A. 2 units.

M Tu W Th F, section 1, 9; M Tu W Th F, section 2, 11.

S1B. Elements of Geography.

Mr. MEYER

The basic cultural elements of geography—population distribution, general land use patterns, and trade—and their correlation with the physical elements. Delimitations of the major geographic regions of the world. Prerequisite: Geography 1A or 5A. Students who have had Geography 100 will receive only half credit for Geography S1B. 2 units.

M Tu W Th F, 8.

S5A. Economic Geography.

Mr. THOMAS

Physical and cultural elements of the environment essential to the geographic interpretation of economic activities. Limited to prospective majors in economics and business administration. Not open to students who have credit for Geography 1A–1B. Students who have credit for Geography 1A or 100 will receive only 1½ units of credit for Geography S5A. 2 units.

M Tu W Th F, section 1, 8; M Tu W Th F, section 2, 10.

S5B. Economic Geography.

The principles of economic geography as developed through studies of representative occupations, commodities, and trade. Prerequisite: Geography 1A–1B, or 5A, or 100. 2 units.

M Tu W Th F, 12.

S121. The Geography of Anglo-America.

Mr. ZIERER

Delimitation and analysis of the principal economic geographic divisions of the United States, Canada, and Alaska. Prerequisite: Geography 1A–1B, or 5A–5B, or 100. 2 units.

M Tu W Th F, 11.

S123A. The Geography of Western Europe.

Mr. LEPPARD

Geographic conditions and their relation to economic, social, and political problems in the Atlantic states of Europe. Prerequisite: Geography 1A–1B, or 5A–5B, or 100. 2 units.

M Tu W Th F, 9.

S199. Problems in Geography.

The STAFF

Open to seniors and graduate students who have the necessary preparation for undertaking semi-independent study of a problem. Registration only after consultation with the instructor in whose field the problem lies. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S259. Seminar in the Geography of Australia and Oceania. Mr. ZIERER

The topic of concentrated study will be the cities of Australia and New Zealand. Prerequisite: Geography 125, or the equivalent. 2 units.

Hours to be arranged.

S290. Research in Geography.

The STAFF

Investigation subsequent to, and growing out of, any of the seminars. 2 or 4 units.

Hours to be arranged.

PROFESSIONAL COURSE IN METHOD

S370. The Teaching of Geography.

Mr. MEYER

The nature of geography and its place in the school curriculum; organization of its materials and methods of presentation; geography in social studies courses. Prerequisite: Geography 1A-1B, or 5A-5B, or 100, or the consent of the instructor. This course may be counted on the unit requirement in education for the general secondary teaching credential. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. Elements of Geography.

Mr. MACFADDEN

The basic physical elements of geography—especially climate, land forms, soils, and natural vegetation—and their integrated patterns of world distribution. Students who have had Geography 5A or 100 will receive only half credit for Geography S1A. 2 units.

M Tu W Th F, 9.

S1B. Elements of Geography.

Mr. BRUMAN

The basic cultural elements of geography—population distribution, general land use patterns, and trade—and their correlation with the physical elements. Delimitation of the major geographic regions of the world. Prerequisite: Geography 1A or 5A. Students who have had Geography 100 will receive only half credit for Geography S1B. 2 units.

M Tu W Th F, 11.

S5A. Economic Geography.

Mr. KOSTANICK

Physical and cultural elements of the environment essential to the geographic interpretation of economic activities. Limited to prospective majors in economics and business administration. Not open to students who have credit for Geography 1A-1B. Students who have credit for Geography 1A or 100 will receive only 1½ units of credit for Geography S5A. 2 units.

M Tu W Th F, 8.

S5B. Economic Geography.

Mr. MACFADDEN

The principles of economic geography as developed through studies of representative occupations, commodities, and trade. Prerequisite: Geography 1A-1B, or 5A, or 100. 2 units.

M Tu W Th F, 10.

S122A. The Geography of Middle America.

Mr. BRUMAN

A study of the geographic factors, physical and cultural, that are basic to an understanding of the historical development of Middle America and of the contemporary economic and social geography of Mexico and the countries of Central America and the West Indies. Prerequisite: Geography 1A-1B, or 5A-5B, or 100. 2 units.

M Tu W Th F, 9.

S181. Political Geography.

Mr. KOSTANICK

The principles of political geography are developed through regional studies of political phenomena throughout the world. Current problems in domestic and international affairs will be considered. Prerequisite: Geography 1A-1B, or 5A-5B, or 100, or the consent of the instructor. 2 units.

M Tu W Th F, 10.

S199. Problems in Geography.

The STAFF

Open to seniors and graduate students who have the necessary preparation for undertaking semi-independent study of a problem. Registration only after consultation with the instructor in whose field the problem lies. 2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S290. Research in Geography.

The STAFF

Investigation subsequent to, and growing out of, any of the seminars. 2 or 4 units.

Hours to be arranged.

GEOLOGY

WILLIS P. POPENOE, Ph.D., Senior Museum Geologist, Lecturer in Paleontology.

WILLIAM C. PUTNAM, Ph.D., Associate Professor of Geology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1918)

S2. General Geology: Physical.

Mr. PUTNAM

Materials of the earth, earth crust movement and structures, and processes and agencies by which the earth has been, and is being, changed. Emphasis upon the origin and history of landscapes, particularly those of California. Of special value to those interested in natural science, geography, or general nature study. 2 units.

M Tu W Th F, 9.

S3. General Geology: Historical.

Mr. PUTNAM

The geological history of the earth and its inhabitants, with special reference to North America. Prerequisite: Geology 2 or 5, or the equivalent. 2 units.

M Tu W Th F, 1.

S199. Problems in Geology.

Mr. PUTNAM in charge

Open only to seniors. Reports and discussions. 1 to 4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S299. Research in Geology.

Mr. PUTNAM in charge

1 to 4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1918)

Geology

S2. General Geology: Physical.

Mr. POPENOE

Materials of the earth, earth-crust movement and structures, and processes and agencies by which the earth has been, and is being, changed. Emphasis upon the origin and history of landscapes, particularly those of California. Of special value to those interested in natural science, geography, or general nature study. 2 units.

M Tu W Th F, 10.

S199. Problems in Geology.

Mr. POPENOE in charge

Open only to seniors. Reports and discussions. 1 to 4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S299. Research in Geology.

Mr. POPENOE in charge

1 to 4 units.

Hours to be arranged.

Paleontology

1. General Paleontology.

Mr. POPENOE

The principles of paleontology. The structure, classification, evolution, and distribution of animals as revealed by fossils. 2 units.

M Tu W Th F, 9.

GERMANIC LANGUAGES

- KURT BERGEL, Lecturer in German.
 ALFRED K. DOLCH, Ph.D., Associate Professor of German.
 CARL W. HAGGE, Ph.D., Assistant Professor of German.
 BENGT OLAUS HOLMBERG, Ph.D., Lecturer in German.
 IRENE JOLIVETTE, A.B., Assistant in German in the Summer Sessions.
 ADOLF KLARMANN, Ph.D., Associate Professor of German, University of Pennsylvania.
 CONRAD H. LESTER, M.A., Assistant in German in the Summer Sessions.
 ROLF LINN, M.A., Lecturer in German.
 WILLIAM W. MELNITZ, Ph.D., Instructor in German.
 VICTOR A. OSWALD, JR., Ph.D., Assistant Professor of German.
 RUDOLPH OTTENBACHER, A.B., Assistant in German in the Summer Sessions.
 FRANK H. REINSCH, Ph.D., Professor of German.
 ELMER E. SAUER, M.A., Instructor in German, Pasadena City College, California.
 ADELAIDE SCHAFFER, M.A., Instructor in German, Bakersfield Junior College, California.
 EDITH A. SCHULZ, M.A., Associate in German.
 ELI SOBEL, Ph.D., Instructor in German.
 GEORGE STREM, Ph.D., Lecturer in German.
 RANSOM T. TAYLOR, Lic. o Ec., Assistant in German in the Summer Sessions.
 DORIS MARIE VETTER, A.B., Assistant in German in the Summer Sessions.
 ERIK WAHLGREN, Ph.D., Assistant Professor of German.
 MAX WEINREICH, Ph.D., Research Director, Yiddish Scientific Institute, and Professor, College of the City of New York.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***German****S1. Elementary German.**

For beginners. Essentials. Grammar, reading, and conversation. Corresponds to the first two years of high school German. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 10-12.

Section 3, 10-12.

Miss JOLIVETTE

Mr. STREM

Miss SCHAFFER

S2. Elementary German.

Continuation of German S1. Reading, grammar, composition, and conversation. Prerequisite: German 1, S1, or two years of high school German. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 9-11.

Section 3, 11-1.

Mr. HOLMBERG

Mr. OTTENBACHER

Mr. TAYLOR

S3. Intermediate German.

Mr. LESTER

Readings in literary German. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 11-1.

S3L. Intermediate German.

Mr. LINN

Readings in the biological sciences. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 8-10.

S3P. Intermediate German.

Miss SCHULZ

Readings in the physical sciences. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 11-1.

S4. Intermediate German.

Mr. OSWALD

Continuation of German S3. Advanced readings in literary German. Prerequisite: German 3, S3, or four years of high school German. 4 units.

M Tu W Th F, 10-12.

S6. Review of Grammar, Composition, and Conversation.

Mr. REINSCH

Prerequisite: German 2, S2, or three years of high school German. 2 units.

M Tu W Th F, 11.

S8A. German Conversation.

Mr. KLARMANN

Prerequisite: German 2, S2, or the consent of the instructor. 1 unit.

M Tu W Th F, 8.

S104A. Readings in the Drama of the Nineteenth and Twentieth Centuries.

Mr. REINSCH

Prerequisite: German 4, S4, or the consent of the instructor. 2 units.

M Tu W Th F, 12.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S228. German Literature of the Twentieth Century.

Mr. KLARMANN

A survey of literary movements since 1890, with special attention to Impressionism. 2 units.

M Tu W Th F, 10.

Judaeo-German (Yiddish) Studies

Yiddish 146. Yiddish Popular Literature and Folklore.

Mr. WEINREICH

An analysis of folk songs, folk tales, folk plays, and traditions of Central and Eastern European Jews from the Middle Ages until the present. 2 units.

M Tu W Th F, 9.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

Yiddish 240. Yiddish Language and Linguistics.

Mr. WEINREICH

Evolution and structure of the language, with a view toward the general problems of language formation and development. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES

*(August 2 to September 11, 1948)***German****S1. Elementary German.**

For beginners. Essentials. Grammar, reading, and conversation. Corresponds to the first two years of high school German. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 10-12.

Mr. SAUER

Miss VETTER

S2. Elementary German.

Continuation of German S1. Reading, grammar, composition, and conversation. Prerequisite: German 1, S1, or two years of high school German. 4 units.

M Tu W Th F:

Section 1, 8-10.

Section 2, 10-12.

Mr. MELNITZ

Mr. BERGEL

S3. Intermediate German.

Readings in literary German. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 9-11.

Mr. HAGGE

S3L. Intermediate German.

Readings in the biological sciences. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 8-10.

Mr. WAHLGREN

S3P. Intermediate German.

Readings in the physical sciences. Prerequisite: German 2, S2, or three years of high school German. 4 units.

M Tu W Th F, 11-1.

Mr. SOBEL

S6. Review of Grammar, Composition, and Conversation.

Prerequisite: German 2, S2, or three years of high school German. 2 units.

M Tu W Th F, 9.

Mr. DOLCH

S104B. Readings in the Drama of the Nineteenth and Twentieth Centuries.

Prerequisite: German 4, S4, or the consent of the instructor. 2 units.

M Tu W Th F, 11.

Mr. DOLCH

HISTORY

- THOMAS PERKINS ABERNETHY, Ph.D.,** Professor of History, University of Virginia.
- TRUESDELL S. BROWN, M.A.,** Lecturer in History.
- JOHN W. CAUGHEY, Ph.D.,** Professor of History.
- BRAINERD DYER, Ph.D.,** Professor of History.
- RAYMOND H. FISHER, Ph.D.,** Assistant Professor of History.
- JOHN S. GALBRAITH, Ph.D.,** Assistant Professor of History.
- LEO GERSHOY, Ph.D.,** Professor of History, New York University.
- EDGAR J. GOODSPEED, Ph.D., L.H.D., Litt.D., LL.D.,** Distinguished Professor, Emeritus, of Biblical Greek, University of Chicago.
- YU-SHAN HAN, Ph.D.,** Associate Professor of History.
- ROLAND D. HUSSEY, Ph.D.,** Professor of History.
- JERE C. KING, Ph.D.,** Instructor in History.
- FRANK J. KLINGBERG, Ph.D.,** Professor of History.
- LOUIS KNOTT KOONTZ, Ph.D.,** Professor of History.
- THEODORE SALOUTOS, Ph.D.,** Assistant Professor of History.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

Prerequisite for all upper division courses: junior standing; History 4A-4B, or 5A-5B, or 7A-7B, or 8A-8B, or other preparation satisfactory to the instructor.

S4B. History of Europe.

Mr. FISHER

The growth of European civilization from the decline of the Roman Empire to the present time. 2 units.

M Tu W Th F, 10.

S5A. History of England and Greater Britain.

Mr. BROWN

The growth and transformation of the institutions, political, economic, and social, of medieval England as the background for modern conditions. Scope: from the earliest times to 1688. 2 units.

M Tu W Th F, 12.

S7A. Political and Social History of the United States.

Mr. DYER

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. 3 units.

M Tu W Th F, 9, and two hours of quiz sections.

111H. The Hellenistic Period.

Mr. BROWN

A history of the Greeks and the Macedonians from the time of Alexander the Great down to the Roman conquest of the Eastern Mediterranean. 2 units.

M Tu W Th F, 9.

S114. History of the Founding of Christianity.

Mr. GOODSPEED

The earliest documents of Christian literature; the letters of Paul, reflecting the progress of the Greek mission; the first gospels, their origins and leading traits; Luke's history of Christian beginnings; the collection of the letters of Paul, beginnings of Persecution—the Revelation, I Peter; John, the gospel for the Greek World; developing Christianity in the early second century—the Pastoral epistles. This course will relate the New Testament books to the rise and progress of the Christian church. 2 units.

M Tu W Th F, 10.

S149B. History of Russia since 1856.

Mr. FISHER

The great reforms, the revolutions of 1905 and 1917, and the Soviet state; Russia in international politics. 2 units.

M Tu W Th F, 12.

S149C. History of France Since the Founding of the Third Republic.

Mr. GERSHOY

Modern France, emphasizing the nation's search for political and economic stability and for military security in the twentieth century. 2 units.

M Tu W Th F, 9.

S153A. History of the British People in Modern Times.

Mr. KLINGBERG

Not open to students who have had History 154 or 155. The main currents in the thought, culture, and social progress of the British people from 1485 to 1763. 2 units.

M Tu W Th F, 11.

S162A. Hispanic America from the Discovery to the Present.

Mr. HUSSEY

2 units.

M Tu W Th F, 9.

170. The Old South, 1776–1865.

Mr. ABERNETHY

The political, economic, and cultural history of the South to the close of the Civil War. 2 units.

M Tu W Th F, 10.

S174. The United States: The Twentieth Century.

Mr. DYER

A general survey of political, economic, and cultural aspects of American democracy in recent years. 2 units.

M Tu W Th F, 11.

S199. Special Studies in History.

Mr. HUSSEY

Required of all history majors. A study of historical method, followed by individual investigations and reports in the field of American or Latin American history. 2 units.

M W, 1–3.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S257A. Seminar in European History.

Mr. GERSHOY

Studies in the period of the French Revolution. 2 units.

M W, 2–4.

S261A. Seminar in English History.

Mr. KLINGBERG

Studies of England in the nineteenth century. 2 units.

Tu Th, 3–5.

- S289A. Seminar in United States History.** Mr. ABERNETHY
Studies in the history of Colonial Virginia. 2 units.
Tu Th, 1-3.
- S290. Research in History.** The STAFF
1-3 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Prerequisite for all upper division courses: junior standing; History 4A-4B, or 5A-5B, or 7A-7B, or 8A-8B, or other preparation satisfactory to the instructor.

- S5B. History of England and Greater Britain.** Mr. GALBRAITH
The social, economic, and political history of England from the Revolution of 1688 to the present time. 2 units.
M Tu W Th F, 12.
- S7B. Political and Social History of the United States.** Mr. SALOUTOS
A survey of the political and social development of the United States since 1850. 3 units.
M Tu W Th F, 12, and two hours of quiz sections.
- S8B. History of the Americas.** Mr. CAUGHEY
The development of the Western Hemisphere from the discovery to the present. The evolution of the American nations and people in the nineteenth and twentieth centuries. 2 units.
M Tu W Th F, 9.
- S144. Europe, 1815-1870.** Mr. KING
The history of Europe from the decline of Napoleon to the end of the Franco-Prussian War; a survey covering international relations and internal conditions of the major European countries, with special stress on the rise of nationalism and liberalism. 2 units.
M Tu W Th F, 10.
- S153B. History of the British People in Modern Times.** Mr. GALBRAITH
Not open to students who have had History 154 or 155. The main currents in the thought, culture, and social progress of the British people since 1763. 2 units.
M Tu W Th F, 10.
- S171. The United States: Colonial Period.** 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. 2 units.
M Tu W Th F, 10.
- S176. American Reform Movements and Reformers.** Mr. SALOUTOS
Educational, monetary, labor, and agrarian reforms advocated in the nineteenth and twentieth centuries. 2 units.
M Tu W Th F, 9.

S188. History of California.

Mr. CAUGHEY

Recommended preparation: History 8A-8B or 39.

The economic, social, intellectual, and political development of California from the earliest times to the present. 2 units.

M Tu W Th F, 11.

S192A. The Twentieth-Century Far East.

Mr. HAN

The social, economic, and political development of the Far Eastern countries since 1898, with special attention to the changes in ideas and institutions after a century of Western impact. 2 units.

M Tu W Th F, 9.

S193A. History of the Ch'ing (Manchu) Dynasty.

Mr. HAN

The final consolidation of the Tungus peoples in Manchuria and their rule over China, 1644-1911. Territorial expansion and contraction; social, economic, political, and literary achievements; movements for modernization towards the end of the nineteenth century. 2 units.

M Tu W Th F, 11.

S198. History and Historians.

Mr. KING

Historiography, including the intellectual processes by which history is written, the results of these processes, and the sources and development of history. Attention also to representative historians. A senior course. 2 units.

M W, 1-3.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S269A. Seminar in United States History.

Mr. KOONTZ

Studies in the colonial frontier. 2 units.

Tu Th, 2-4.

S290. Research in History.

The STAFF

1-3 units.

Hours to be arranged.

HOME ECONOMICS

VERZ R. GODDARD, Ph.D., Associate Professor of Home Economics.

FLORENCE C. MCGUCKEN, M.S., Associate in Home Economics.

BLANCHE PAYNE, M.A., Professor of Clothing and Textiles, University of Washington.

NORMA N. SHENK, Ed.B., Associate in Home Economics.

WENDY STEWART, LL.B., M.D., Lecturer in Home Economics.

DOROTHY WEST STONE, M.A., Associate in Home Economics.

RACHEL UHVITS, Ph.D., Biochemist, Bureau of Human Nutrition and Home Economics, United States Department of Agriculture.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S32. Elements of Nutrition.

Mrs. MCGUCKEN

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. Prerequisite: 6 units of natural science, or the equivalent. 2 units.

M Tu W Th F, 10.

S107. Pattern Analysis.

Miss SHENK

Drafting and grading of patterns in relation to the problems of design. Prerequisite: Home Economics 1A. Fee, \$6. 3 units.

F, lecture, 9-11, section 1; M Tu W Th, 8-12, laboratory.

M, lecture, 1-3, section 2; Tu W Th F, 1-5, laboratory.

S118. Advanced Nutrition.

Miss UHVITS

A chemical study of carbohydrates, fats, proteins, minerals, and vitamins in relation to human nutrition. Qualitative laboratory studies upon the components of foods and of tissues, and upon the products of digestion. Prerequisite: Chemistry 8 or 10 and human physiology (at least 3 units). Fee, \$2.50. 2 or 3 units. (The lectures may be taken separately with credit value of 2 units.)

M Tu W Th F, lecture, 9; Tu Th, 12:30-4, laboratory.

S131. Child Development.

Mrs. STONE

Factors involved in the physical, mental, social, and emotional development of children of preschool age, with discussion of home problems. Observation and participation in nursery school. Prerequisite: Home Economics 130 or 143, or both. 3 units.

M Tu W, lecture, 3; M Tu W Th, 9-12, laboratory.

S143. Child Care.

Miss STEWART

Physical development of children from prenatal through adolescent life. Discussion of problems concerned with the care of children in the home. Prerequisite: Psychology 21, 22. 2 units.

M W, 3-5:30.

153. Classroom Procedures in Teaching Homemaking in Secondary Schools.

Mrs. STONE

Practical experience in the selection, in the organization, and in the presentation techniques of recommended educational practices for teaching homemaking. Prerequisite: Home Economics 370, or equivalent. 1 unit.

Th, lecture, 2; W Th F, 1, laboratory.

S168. Family Relationships.

Miss STEWART

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. 2 units.

Tu Th, 3-5:30.

S175. Tailoring Problems.

Miss PAYNE

The design, fashion, construction, and economic factors involved in selecting and in making tailored garments. Prerequisite: Home Economics 1A. Fee, \$1.50. 3 units.

Tu Th F, lecture, 4; M Tu W Th F, 1-4, laboratory.

S176. Advanced Dress Design.

Miss PAYNE

French draping; selection and manipulation of fabrics; creation of original designs. Prerequisite: Home Economics 175. Fee, \$1.50. 3 units.

F, lecture, 9-11; M Tu W Th, 8-12, laboratory.

S199A or S199B. Problems in Home Economics.

Mrs. MCGUCKEN

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. 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. 2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S251. Seminar in Nutrition.

Miss UHVITS

Recent advances in the science of nutrition and in the dietetic treatment of disease. 2 units.

M W F, 10-12:30.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S199A or S199B. Problems in Home Economics.

The STAFF

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. 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. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S279. Food and Nutrition Research Methods.

Miss GODDARD

Review of research techniques applicable to the study of foods and nutrition. Individual guidance in laboratory practice in one or more selected techniques. 3 units.

Hours to be arranged.

S282A or S282B. Selected Problems.

Miss GODDARD

Laboratory or field investigation in nutrition or foods. 2-4 units.

Hours to be arranged.

LATIN

PAUL FRIEDLANDER, Ph.D., Professor of Latin and Greek.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

81. Beginning Latin.

4 units.

M Tu W Th F, 9-11.

Mr. FRIEDLANDER

MATHEMATICS

- RICHARD ARENS, Ph.D., Assistant Professor of Mathematics.
 CLIFFORD BELL, Ph.D., Associate Professor of Mathematics.
 PAUL H. DAUS, Ph.D., Professor of Mathematics.
 JOHN W. GREEN, Ph.D., Assistant Professor of Mathematics.
 JOSEPH M. C. HAMILTON, A.B., Assistant in Mathematics in the Summer Sessions.
 ROBERT M. HAYES, A.B., Assistant in Mathematics in the Summer Sessions.
 MAGNUS R. HESTENES, Ph.D., Professor of Mathematics.
 E. JUSTIN HILLS, Ph.D., Department of Mathematics, Los Angeles City College.
 ALFRED HORN, Ph.D., Instructor in Mathematics.
 MARVIN L. HOWARD, M.A., Associate in Mathematics.
 GLENN JAMES, Ph.D., Associate Professor of Mathematics.
 HOWARD LUCHSINGER, A.B., Assistant in Mathematics in the Summer Sessions.
 ELMER E. OSBORNE, A.B., Assistant in Mathematics in the Summer Sessions.
 LOWELL J. PAIGE, Ph.D., Instructor in Mathematics.
 WILLIAM T. PUCKETT, JR., Ph.D., Assistant Professor of Mathematics.
 WILLIAM T. REID, Ph.D., Professor of Mathematics, Northwestern University.
 GEORGE E. F. SHERWOOD, Ph.D., Professor of Mathematics.
 I. S. SOKOLNIKOFF, Ph.D., Professor of Mathematics.
 ROBERT H. SORGENFREY, Ph.D., Assistant Professor of Mathematics.
 J. DEAN SWIFT, Ph.D., Instructor in Mathematics.
 RUTH ANN WAGNER, A.B., Assistant in Mathematics in the Summer Sessions.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***SC. Plane Trigonometry.**

Mr. BELL

Prerequisite: one and one-half years of high school algebra, or Mathematics D. Students with two years of high school algebra may enroll in Mathematics S1 concurrently. 2 units.

M Tu W Th F, 8.

SD. Intermediate Algebra.

Prerequisite: one year or one and one-half years of high school algebra. Not open to students who have credit for two years of high school algebra, or Mathematics E, 1, or 3A. 3 units.

M Tu W Th F:

Section 1, 9 and 2.

Section 2, 10 and 3.

Mr. HAMILTON
Miss WAGNER**SE. Commercial Algebra.**

Mr. HILLS

Prerequisite: one year of high school algebra. Prescribed in the College of Business Administration. Not open to students who have credit for Mathematics D, 1, or 2. 2 units.

M Tu W Th F, 8.

S1. College Algebra.

Prerequisite: two years of high school algebra and trigonometry or Mathematics SC concurrently. 2 units.

M Tu W Th F:
Section 1, 9.
Section 2, 10.

Mr. HAYES

S2. Mathematics of Finance.

Prerequisite: Mathematics D, E, or 1. 2 units.

M Tu W Th F:
Section 1, 9.
Section 2, 10.

Mr. PAIGE
Mr. JAMES

S3A. Plane Analytic Geometry.

Prerequisite: trigonometry and Mathematics D or 1. 3 units.

M Tu W Th F:
Section 1, 7:30-9.
Section 2, 1-2:20.

Mr. HAYES

S3B. First Course in Calculus.

Differentiation of algebraic and transcendental functions with applications. Prerequisite: Mathematics 3A. 3 units.

M Tu W Th F:
Section 1, 9 and M F, 2.
Section 2, 10 and Tu Th, 3.
Section 3, 11-12:20.

Mr. HOWARD
Mr. SWIFT
Mr. BELL

S4A. Second Course in Calculus.

Integration with applications; infinite series. Prerequisite: Mathematics 3B. 3 units.

M Tu W Th F:
Section 1, 7:30-9.
Section 2, 11-12:20.
Section 3, 1-2:20.

Mr. ARENS
Mr. PAIGE
Mr. HOWARD

S4B. Third Course in Calculus.

Solid analytic geometry, partial differentiation, multiple integration with applications. Prerequisite: Mathematics 4A. 3 units.

M Tu W Th F:
Section 1, 7:30-9.
Section 2, 11-12:20.
Section 3, 1-2:20.

Mr. PUCKETT
Mr. SOKOLNIKOFF
Mr. JAMES

S5B. Analytic Geometry and Calculus.

Mr. DAUS

Curve tracing, conic sections, differentiation of trigonometric and exponential functions, curvilinear motion, simple differential equations with physical applications. Prerequisite: Mathematics 5A. 3 units.

M Tu W Th F, 7:30-9.

S18. Fundamentals of Arithmetic.

Mr. HILLS

Of interest to teachers and others who are concerned about the origins and fundamental principles of mathematics. The course will review arithmetic from the viewpoint of modern teaching methods. Prerequisite: sophomore standing. 2 units.

M Tu W Th F, 11.

S108. Theory of Algebraic Equations.

Mr. SWIFT

Prerequisite: Mathematics 4A. 3 units.

M Tu W Th F, 1-2:20.

S110A. Advanced Engineering Mathematics.

Infinite series, Fourier series, theory of equations, introduction to ordinary differential equations. Prerequisite: Mathematics 4B. Prescribed for students in the mechanical and electrical engineering curricula. Not open for full credit to students who have credit for Mathematics 119A. 2 units.

M Tu W Th F:

Section 1, 9.

Section 2, 10.

Section 3, 11.

Mr. PUCKETT

Mr. DAUS

124. Vector Analysis.

Mr. ARENS

Elements of vector algebra and vector calculus. Coördinate systems and transformation of coördinates. Application to geometry and dynamics. Prerequisites: Mathematics 110AB or 119A. 2 units.

M Tu W Th F, 10.

S199. Special Problems.

The STAFF

See Mathematics 221S and Mathematics S246.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

221S. Selected Topics in Higher Algebra.

Prerequisite: Mathematics 111A, or consent of the instructor. Open to qualified seniors and unclassified graduates as Mathematics S199, only with consent of the instructor. 2 units.

M Tu W Th F, 11.

S246. Partial Differential Equations of Mathematical Physics.

Mr. SOKOLNIKOFF

Boundary value problems, Laplace's differential operator, the heat equation, potential of electrostatic and magnetostatic fields. Prerequisite: Mathematics 224A, 242A, or consent of the instructor. Open to qualified seniors and unclassified graduates as Mathematics S199, only with consent of the instructor. 2 units.

M Tu W Th F, 9.

SECOND SUMMER SESSION COURSES

*(August 2 to September 11, 1948)***SC. Plane Trigonometry.**

Prerequisite: one and one-half years of high school algebra, or Mathematics D. Students with two years of high school algebra may enroll in Mathematics S1 concurrently. 2 units.

M Tu W Th F, 8.

SD. Intermediate Algebra.

Mr. LUCHSINGER

Prerequisite: one year or one and one-half years of high school algebra. Not open to students who have credit for two years of high school algebra, or Mathematics E, 1, or 3A. This course will be accepted from students in the College of Business Administration in lieu of Mathematics E. 3 units.

M Tu W Th F, 9 and 2.

SE. Commercial Algebra.

Mr. OSBORNE

Prerequisite: one year of high school algebra. Prescribed in the College of Business Administration. Not open to students who have credit for Mathematics D, L, or 2. 2 units.

M Tu W Th F, 10.

S1. College Algebra.

Prerequisite: two years of high school algebra and trigonometry or Mathematics SC concurrently. 2 units.

M Tu W Th F, 10.

S2. Mathematics of Finance.

Mr. HORN

Prerequisite: Mathematics D, E, or 1. 2 units.

M Tu W Th F, 9.

S3A. Plane Analytic Geometry.

Prerequisite: trigonometry and Mathematics D or 1. 3 units.

M Tu W Th F:

Section 1, 7:30-9.

Section 2, 1-2:20.

Mr. OSBORNE

S3B. First Course in Calculus.

Differentiation of algebraic and transcendental functions with applications. Prerequisite: Mathematics 3A. 3 units.

M Tu W Th F:

Section 1, 9, and Tu Th, 3.

Section 2, 11-12:20.

Mr. REID

S4A. Second Course in Calculus.

Integration with applications; infinite series. Prerequisite: Mathematics 3B. 3 units.

M Tu W Th F:

Section 1, 8:30-10.

Section 2, 11-12:20.

Mr. SORGENFREY

Mr. SHERWOOD

S4B. Third Course in Calculus.

Solid analytic geometry, partial differentiation, multiple integration with applications. Prerequisite: Mathematics 4A. 3 units.

M Tu W Th F:

Section 1, 11-12:20.

Section 2, 1-2:20.

Mr. HORN

Mr. GREEN

S110B. Advanced Engineering Mathematics.

Advanced topics in differential equations, partial differential equations, vector analysis, complex numbers. Prerequisite: Mathematics 110A. 2 units.

M Tu W Th F:

Section 1, 9.

Section 2, 11.

Mr. SHERWOOD

Mr. SORGENFREY

S119A. Differential Equations.

Mr. HESTENES

Prerequisites: Mathematics 4B. Not open for full credit to students who have credit for Mathematics 110A-110B. 3 units.

M Tu W Th F, 1-2:20.

128. Introduction to Fourier Series.

Mr. GREEN

Prerequisite: Mathematics 119A or consent of the instructor. 2 units.

M Tu W Th F, 9.

S199. Special Problems.

The STAFF

See Mathematics S237A and 243.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S237A. Introduction to the Calculus of Variations.

Mr. HESTENES

The differential equation of a curve minimizing a definite integral. The applications of the calculus of variations to applied problems. Prerequisite: Mathematics 110AB, 122A, or the consent of the instructor. Open to qualified seniors and unclassified graduates as Mathematics S199, only with the consent of the instructor. 2 units.

M Tu W Th F, 10.

243. Selected Topics in Ordinary Differential Equations.

Mr. REID

Prerequisite: Mathematics 119A or consent of instructor. Open to qualified seniors and unclassified graduates as Mathematics S199, only with consent of the instructor. 2 units.

M Tu W Th F, 11.

METEOROLOGY

GEORGE E. FORSYTHE, Ph.D., Assistant Professor of Meteorology.

JOHN Y. GILBERT, B.A., Instructor in Meteorology.

YALE MINTZ, M.A., Lecturer in Meteorology.

MORRIS NEIBURGER, Ph.D., Assistant Professor of Meteorology.

LEON SHERMAN, M.A., Lecturer in Meteorology.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S3. Descriptive Meteorology.

Mr. MINTZ

Elementary survey of the causes and regional distribution of weather and climate. Prerequisite: Physics 2A or 1B. 2 units.

M Tu W Th F, 9.

S100A. Synoptic Meteorology.

Mr. NEIBURGER

Three-dimensional structure of atmosphere; world-wide survey of weather; fundamentals of weather-map analysis and weather forecasting. Prerequisite: Meteorology 3. 2 units.

M Tu W Th F, 11.

S110. Meteorological Laboratory.

Mr. SHERMAN, Mr. MINTZ

Weather codes and weather-map plotting. Exercises in analysis of the surface weather map; introduction to weather forecasting. Prerequisite or concurrent, Meteorology S100A. Fee, \$35. 3 units.

M Tu W Th F, 1-4.

S111. Meteorological Instruments.

Mr. GILBERT

Lectures, laboratory exercises and field observation in the measurement of meteorological elements. Prerequisite or concurrent: Meteorology 3. 3 units.

M Tu W Th F, 10, lectures; two 3-hour laboratory periods per week to be arranged.

S121. Dynamic Meteorology.

Mr. FORSYTHE

Theory of pressure changes. Circulation and vorticity. Theory of atmospheric waves. Prerequisite: Meteorology 120. 2 units.

M Tu W Th F, 10.

S199A-S199B. Special Problems in Meteorology.

Mr. NEIBURGER

1-2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S217. Meteorological Hydrodynamics.

Mr. FORSYTHE

2 units.

M Tu W Th F, 8.

S290. Research in Meteorology.

Mr. NEIBURGER

1-2 units.

Hours to be arranged.

MUSIC

MARGARET WHITNEY DOW, M.S.M., Associate Professor of Piano and Organ, University of Redlands.

CHARLOTTE DUBOIS, M.A., Assistant Professor of Music, University of Texas.

LEAH EFFENBACH, Artist Diploma, Concert Pianist.

ARNOLD ELSTON, Ph.D., Associate Professor of Music, University of Oregon.

ALBERT GOLDBERG, Mus.M., Music Critic, Los Angeles Times.

NILO W. HOVEY, B.Mus.Ed., Director of Bands, Arthur Jordan Conservatory, Indiana.

CHARLES B. HUNT, JR., M.A., Assistant in Music.

LAVERNA L. LOSSING, M.A., Supervisor of Training, Music.

PATTON MCNAUGHTON, M.A., Assistant in Music.

RAYMOND MOREMEN, M.S.M., Assistant Professor of Music.

LAURENCE A. PETRAN, Ph.D., Associate Professor of Music.

JOHN N. VINCENT, JR., Ph.D., Associate Professor of Music.

HEALY WILLAN, Mus.Doc., F.R.C.O., Professor of Music, University of Toronto, Ontario.

KENNETH WRIGHT, Ph.D., Head, Department of Music, Mississippi State College for Women.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. Solfege.

Mr. MCNAUGHTON

Elementary theory, dictation, and music reading. A basic course for the major in music. 2 units.

M Tu W Th F, 9.

S2A. The History and Appreciation of Music.

Mr. PETRAN

The consideration of music from formal, aesthetic, and historical standpoints. 2 units.

M Tu W Th F, 8.

S11. A Cappella Choir.

Mr. VINCENT

The study and performance of standard choral works. Prerequisite: the consent of the instructor. 2 units.

M Tu W Th F, 12.

S35A. Harmony.

Miss DOW

Prerequisite: Music 1A-1B, or its equivalent. 2 units.

M Tu W Th F, 10.

S46. University Band.

Mr. HOVEY

Prerequisite: audition for the consent of the instructor. 2 units.

M Tu W Th F, 1, and one additional hour to be arranged.

S104A. Form and Analysis.

Mr. ELSTON

Analysis of homophonic and contrapuntal music. Prerequisite: Music 35A-35B. 2 units.

M Tu W Th F, 9.

S109B. Conducting.

Mr. HOVEY

The theory and practice of conducting instrumental organizations. Prerequisite: Music 1A-1B, 35A-35B, or their equivalents. 2 units.

M Tu W Th F, 11.

113. The Criticism of Music.

Mr. GOLDBERG

Constructive reviewing and analyzing of musical events: opera; symphony programs; vocal and instrumental recitals. General technique of musical journalism. 2 units.

W F, 12-2; and an additional hour each week to be arranged.

S116A. Piano, Advanced.

Miss EFFENBACH

Repertoire and interpretation, based upon representative piano literature. 2 units.

M Tu W Th F, 1.

S126. History of the Sonata.

Mr. ELSTON

The development of the sonata from its beginnings to the close of the romantic period. Prerequisite: Music 2A-2B, 35A-35B. 2 units.

M Tu W Th F, 8.

156. Creative Music for Elementary Grades.

Miss DUBOIS

For elementary teachers and supervisors: technique of guiding children's experiences in creating music; song making, playing simple instruments, and creating accompaniments; stressing the educational principles involved. 2 units.

M Tu W Th F, 10.

S161. Advanced A Cappella Choir.

Mr. VINCENT

The study and performance of standard choral works. Prerequisite: 4 units of Music 11, or the equivalent, and the consent of the instructor. 2 units.

M Tu W Th F, 12.

S166. Advanced University Band.

Mr. HOVEY

Prerequisite: 4 units of Music 46, or the equivalent, and the consent of the instructor. 2 units.

M Tu W Th F, 1, and one additional hour to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S270A. Seminar in Music Education.

Mr. VINCENT

2 units.

Hours to be arranged.

S299. Special Problems in Music.

Mr. PETRAN

2 units.

Hours to be arranged.

PROFESSIONAL COURSE IN METHOD

S330. Elementary Music Education.

Miss DUBOIS

Music education for the general elementary teacher. A professionalized subject-matter course to equip the student to teach in the modern school. Required of candidates for the general elementary credential. Prerequisite: sophomore standing and Music 1A, or the equivalent. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES

*(August 2 to September 11, 1948)***S1B. Solfege.**

Mr. HUNT

Elementary theory, dictation, and music reading. A continuation of Music 1A. Basic course for the major in music. 2 units.

M Tu W Th F, 9.

S2B. The History and Appreciation of Music.

Mr. WRIGHT

The consideration of music from formal, aesthetic, and historical standpoints. NOTE: Music 2A is not a prerequisite to S2B. 2 units.

M Tu W Th F, 8.

S7A. Elementary Voice.

Mr. MOREMEN

An introductory course in singing, with emphasis upon naturalness in breathing, pronunciation, and articulation. 2 units.

M Tu W Th F, 9.

S11. A Cappella Choir.

Mr. WILLAN

The study and performance of standard choral works. Prerequisite: the consent of the instructor. 2 units.

M Tu W Th F, 12.

S35B. Harmony.

Mr. WRIGHT

A continuation of Music 35A. Prerequisite: Music 1A-1B, or the equivalent. 2 units.

M Tu W Th F, 10.

S130. History and Literature of Church Music.

Mr. WILLAN

The history and development of church music, including worship forms and liturgies. Prerequisite: the consent of the instructor. 2 units.

M Tu W Th F, 11.

S161. Advanced A Cappella Choir.

Mr. WILLAN

The study and performance of standard choral works. Prerequisite: The consent of the instructor. 2 units.

M Tu W Th F, 12.

PROFESSIONAL COURSE IN METHOD

S330. Elementary Music Education.

Miss LOSSING

Music education for the general elementary teacher. A professionalized subject-matter course to equip the student to teach in the modern school. Required of candidates for the general elementary credential. Prerequisite: sophomore standing and Music 1A, or the equivalent. 2 units.

M Tu W Th F, 11.

NURSING

ALBERTA MACLEAN, R.N., B.S., Supervisor for Home Nursing, Los Angeles Chapter American Red Cross.

JANET NOLAN, M.S.S., Lecturer in Family Case Work.

MARGARET ROBERTSON, R.N., M.A., Assistant Professor of Public Health Nursing.

For information relative to the Public Health Nursing Certificate, address Mrs. Margaret Robertson, Room 40, Royce Hall.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S11. Mother and Baby Care and Family Health.

Mrs. MACLEAN

Lectures and laboratory work dealing with the modern care of mothers and babies. Essentials of maintenance of health and of home care of the sick. Observation of community facilities. American Red Cross certificate will be granted upon satisfactory completion of the course. 2 units.

M W F, 1-3.

Administration of the School Health Program. (Education 151.)

Mr. SELLERY

Organization and administration of school health work including school health service, school sanitation, and health education; public health aspects of school hygiene as coordinated in the work of teachers of various departments, nurse, school physician, principal, and other school officials, parent-teacher associations, and community groups. 2 units.

M W, 7-9 p.m.

S110. Family Case Work as Related to Public Health Nursing.

Miss NOLAN

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. 2 units.

Tu Th, 6:30-8:30 p.m.

S111. Development and Principles of Public Health Nursing.

Mrs. ROBERTSON

The history and development of public health nursing, its scope, functions and objectives; principles of organization and administration as they apply to public health nursing services under various auspices. 2 units.

M Tu W Th F, 11.

S112. Maternal and Child Welfare.

Mrs. ROBERTSON

Newer theories and principles of maternal, infant, and child care which are significant to public health nursing; public health nursing functions and responsibilities in the promotion of maternal, infant, and child care. 2 units.

M Tu W Th F, 1.

ORIENTAL LANGUAGES

ENSHO ASHIKAGA, M.Litt., Instructor in Oriental Languages.

Y. C. CHU, M.A., Lecturer in Oriental Languages.

RICHARD C. RUDOLPH, Ph.D., Associate Professor of Oriental Languages.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S9. Elementary Modern Japanese.

Mr. ASHIKAGA

The beginning course in Japanese. Practice in conversation, reading, and writing. 4 units.

M Tu W Th F, 1-3.

S13. Classical Chinese.

Mr. RUDOLPH

An elementary course in classical, as distinguished from modern, Chinese. 2 units.

M Tu W Th F, 11.

S42. Chinese Civilization.

Mr. RUDOLPH

A general survey of the development of Chinese civilization from antiquity to the Mongol conquest. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S1A. Elementary Modern Chinese.

Mr. CHU

Beginning course in modern Chinese. Practice in conversation, reading, and writing in the Chinese National Language. 4 units.

M Tu W Th F, 1-3.

ORNAMENTAL HORTICULTURE

B. LENNART JOHNSON, Ph.D., Assistant Professor of Ornamental Horticulture.

VERNON T. STOUTEMYER, Ph.D., Professor of Ornamental Horticulture.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S199A. Special Problems. **The STAFF**
Prerequisite: Senior or graduate status, and consent of the instructor.
2-4 units.
Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S286A. Research in Ornamental Horticulture. **The STAFF**
Prerequisite: Regular graduate status, and consent of the instructor.
2-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S199B. Special Problems. **The STAFF**
Prerequisite: Senior or graduate status, and consent of the instructor.
2-4 units.
Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S286B. Research in Ornamental Horticulture. **The STAFF**
Prerequisite: Regular graduate status, and consent of the instructor.
2-4 units.
Hours to be arranged.

PHILOSOPHY

ELMER H. BEARDEN, M.A., Associate in Philosophy.

HORACE FRIES, Ph.D., Associate Professor of Philosophy, University of Wisconsin.

HUGH MILLER, Ph.D., Professor of Philosophy.

MELVIN RADER, Ph.D., Associate Professor of Philosophy, University of Washington.

HANS REICHENBACH, Ph.D., Professor of Philosophy.

CYNTHIA A. SCHUSTER, M.A., Associate in Philosophy.

PAUL WIENPAHL, Ph.D., Instructor in Philosophy, New York University.

DONALD C. WILLIAMS, Ph.D., Professor of Philosophy, Harvard University.

ROBERT YOST, Ph.D., Instructor in Philosophy.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S2A. Introduction to Philosophy.

Introducing the student to the central problems of philosophy in their classical statement and contemporary applications. 2 units.

M Tu W Th F:

Section 1, 10.

Section 2, 8.

Mr. YOST
Mr. BEARDEN

S5. Problems of Ethics and Religion.

Mr. WIENPAHL

Human conduct, its rules and natural law; the moral basis of institutions; religion and the moral order. 2 units.

M Tu W Th F, 12.

S20. History of Greek Philosophy.

Mr. MILLER

The beginnings of Western science and philosophy; Socrates, Plato, and Aristotle; Greek philosophies in the Roman world and in the Christian era. 2 units.

M Tu W Th F, 9.

S30. Inductive Logic and Scientific Method.

Mr. REICHENBACH

The use of logic in science and practical life; fallacies; theory of indirect evidence; construction of scientific hypotheses; probability and statistical method. 2 units.

M Tu W Th F, 10.

S104A. Ethics.

Mr. YOST

Morality in theory and practice: the history and development of ethical theory. Prerequisite: 9 units from Anthropology 1B, Sociology 1A-1B, and 142, Economics 1A-1B, Political Science 3A-3B, Psychology 21, and 147. Recommended: Psychology 147. 2 units.

M Tu W Th F, 11.

S141A. Present Tendencies of Thought.

Mr. WILLIAMS

A survey of leading tendencies in contemporary realism and naturalism. Prerequisite: Philosophy 21 or the equivalent. 2 units.

M Tu W Th F, 9.

S148. Philosophy of Nature.

Mr. REICHENBACH

The physical universe and man's place in it in the light of modern discoveries. Prerequisite: 6 units in Philosophy or upper division standing. 2 units.

M Tu W Th F, 12.

S166. Kant.

Mr. WIENPAHL

Prerequisite: Philosophy 21, or the consent of the instructor. 2 units.

M Tu W Th F, 2.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S4. Short Introduction to Philosophy.

Mr. FRIES

Not open for credit to students who have completed 2A. 2 units.

M Tu W Th F, 11.

S21. History of Modern Philosophy.

Mr. RADER

The Renaissance and the rise of modern science; rationalism in Descartes, Spinoza, Leibniz; empiricism in Locke, Berkeley, Hume; Kant and his successors; recent movements. Prerequisite: Philosophy 20. 2 units.

M Tu W Th F, 10.

S31. Deductive Logic.

Mrs. SCHUSTER

The elements of formal logic; Aristotle's logic; modern symbolic logic. The forms of reasoning and the structure of language. 2 units.

M Tu W Th F, 9.

S136. The Philosophy of Art.

Mr. RADER

Relation of the philosophy of art to the artist's activity, to aesthetic experience, and to the criticism of art. The principal theories of the nature of art; of aesthetic contemplation; and of beauty, sublimity, and other categories of aesthetic value. Nature and validity of standards of criticism. Prerequisite: 6 units in Philosophy or upper division standing. 2 units.

M Tu W Th F, 12.

S188. Types of Humanism.

Mr. FRIES

The philosophy of humanism, with special reference to the so-called classical, neo-Thomian, and the naturalistic types. Prerequisite: 3 units of philosophy, or consent of the instructor. 2 units.

M Tu W Th F, 9.

PHYSICAL EDUCATION

DIANA ANDERSON, M.A., Assistant Supervisor of Physical Education and Supervisor of Training, Physical Education.

JUNE BRECK, M.A., Junior Supervisor of Physical Education.

WALTER H. BROWN, M.D., Professor of Health Education, Emeritus, Stanford University, and formerly Acting Dean of School of Public Health, University of California (Berkeley).

WALTER E. CROWE, B.S., Junior Supervisor of Physical Education.

NORMAN D. DUNCAN, M.A., Associate Supervisor and Director of Division for Men, Physical Education Department.

EDWARD B. JOHNS, Ed.D., Associate Professor of Physical Education.

WAYNE W. MASSEY, Ph.D., formerly Associate Professor of Physical Education at the University of Oregon.

JACK E. MONTGOMERY, M.A., Assistant Supervisor of Physical Education.

WILLIAM PATTERSON, M.A., Junior Supervisor of Physical Education.

WAYNE E. ROSENOFF, B.S., Junior Supervisor of Physical Education.

GLORIA ROSOFF, B.S., Junior Supervisor of Physical Education.

JOHN SELLWOOD, M.A., Assistant Professor of Physical Education, San Diego State College, California.

ROBERT STICHTER, M.A., Junior Supervisor of Physical Education.

LLOYD E. WEBSTER, M.A., Director, Division of Health and Physical Education, Los Angeles County Schools.

STERLING S. WINANS, M.A., California State Director of Recreation.

CARL H. YOUNG, Ed.D., Professor of Physical Education.

For general information concerning departmental policies, see page 22.

The tennis courts are open to students of the Summer Session daily, 9:00 a.m. to 5:00 p.m.; Saturday, 7:00 a.m. to 1:00 p.m. except during scheduled class hours. However, there will be no recreational tennis the first week of the First Summer Session because of the National Intercollegiate matches.

Recreational hours for swimming will be as follows:

Men, 12:00 to 1:00 p.m. and 2:00 to 3:00 p.m. daily except Saturday

Women, 1:00 to 3:00 p.m. daily except Saturday

All the facilities of the Physical Education Department, including the gymnasium and fields, will be open for Summer Session recreation except during regular session class hours.

A fee of \$1.00 is required of men and women for recreational swimming.

A deposit of \$5.00 is required of all women students taking courses requiring equipment or gymnasium suits. This deposit is refunded if there is no loss or breakage.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S8. Professional Activities (Men).

Mr. PATTERSON

Designed for major and minor students in physical education. Fundamental knowledges and skills in basketball and speedball. Fee, \$1. 1½ units.

M Tu W Th F, 1-3.

10. Swimming for Men.

Mr. CROWE, Mr. PATTERSON

Personal instruction in the various strokes, as well as class drills in special exercises arranged to facilitate and strengthen necessary coordinations. Demonstrations and practice in methods of rescue and resuscitation. Instruction in the principles of diving. Fee, \$1. $\frac{1}{2}$ unit.

M Tu W Th F, 10, section 1 (Patterson); M Tu W Th F, 11, section 2 (Crowe).

14. Elementary Swimming for Women.

Miss BRECK

Open to nonswimmers. Floating, treading water, preliminary strokes, and simple diving. Fee, \$1. $\frac{1}{2}$ unit.

M Tu W Th F, 10, section 1; M Tu W Th F, 11, section 2.

16. Tennis.

Mr. STICHTER

For those who wish to become more proficient in tennis, whether or not they are interested primarily in physical education. Both elementary and advanced work will be offered. Classes limited to forty students. Fee, \$1. $\frac{1}{2}$ unit.

M W F, 2, section 1 (elementary); M W F, 3, section 2 (advanced).

NOTE: First week, no classes because of National Intercollegiate Tennis Matches; second and third weeks, classes daily; fourth, fifth, and sixth weeks, classes as scheduled.

23. Recreational Activities.

Miss BRECK

Participation and instruction in a variety of activities of a recreational nature; golf, bowling, badminton, ice skating, arts, crafts, and others. Fee, \$1. 1 unit.

M Tu W Th F, 9.

S24. Advanced Swimming and Lifesaving.

Mr. MONTGOMERY

The Senior Red Cross Lifesaving and Instructors' Certificate will be issued to those students who successfully meet the requirements. Qualifying test required. Fee, \$1. 1 $\frac{1}{2}$ units.

M Tu W Th F, 1.

S101. Kinesiology.

Mr. MASSEY

The structure, function and mechanical principles relating to human motion and their application in the analysis of specific activities. 2 units.

M Tu W Th F, 10.

110. Rhythms in Elementary School.

Miss ANDERSON

For classroom teachers, physical education directors, and general supervisors who desire to help children express their own thoughts and feelings through bodily movement. The experiences of children in various age levels, which may lead to rhythmic expressions; the methods of procedure and evaluation used in the development of creative rhythmic patterns and sequences, and problems involved in appropriate accompaniment. Fee, \$1. 2 units.

M Tu W Th F, 11.

S143. Problems of Group Work.

Principles and procedures of group work in recreation with emphasis on group structure, community relations, and program planning. 2 units.

M Tu, 1-3:30.

S144. Recreation Survey.

Mr. WINANS

Opportunities and needs in recreation with an introduction to techniques of conducting a recreation survey for program development. 2 units.

M Tu, 10-12:30.

S145A. School Health Education.

Mr. JOHNS

The school health program as an integral part of the school curriculum; the underlying principles and functions of health instruction, health service, school living, and the contributing community health agencies. Prerequisite: Physical Education 44. 2 units.

M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S235. Evaluation Procedures.

Mr. MASSEY

Methods in test construction, interpretation, and application. Prerequisite: Physical Education 135, or the consent of the instructor. 2 units.

M W, 1-3.

S245. Curriculum Development in Health Education.

Mr. BROWN

The development of health instruction based on the health needs of school-age children. The formulation of objectives, scope and sequence of instruction, the examination of teaching methods, source materials, community resources and evaluation procedures. Prerequisite: 145AB, or the consent of the instructor. 2 units.

M W, 8-10.

S255. Administrative Interrelationships in Health Education.

Mr. BROWN

A consideration of the principles, policies, and practices involved in the interrelationships of the school curriculum, the public and private health agencies in the community. Prerequisite: the consent of the instructor. 2 units.

Tu Th, 8-10.

S276. Fundamentals of Research.

Mr. YOUNG

The application of scientific methods and techniques to aid in the selection and solution of research studies and thesis problems. 2 units.

M W, 10-12.

285. Developmental Physical Education Seminar.

Mr. YOUNG

2 units.

Tu Th, 10-12.

S299. Independent Study.

Mr. JOHNS

Independent study in areas of guidance in physical education; developmental physical education; health education; dance; evaluation procedures. Prerequisite: the consent of the instructor. 1 or 2 units.

M W F, 10.

PROFESSIONAL COURSES IN METHOD**S330. Physical Education in the Elementary School.**

Miss ANDERSON

Required of all candidates for the General Elementary Credential. Each student must plan a program with two consecutive hours a week for observation, between the hours of 9:00 a.m. and 3:00 p.m. Prerequisite: junior standing; Physical Education 26, sections 1 and 2, and 44 or the equivalent, and Education 111. 2 units.

M Tu W Th F, 10.

S355A. Technique of Teaching Activities—Basketball, Speedball (Men).

Mr. MONTGOMERY

A critical analysis of the methods of teaching and coaching, including strategy, selection of players, rules, and team play. Prerequisite: junior standing, Physical Education 8. Fee, \$1. 2 units.

M Tu W Th F, 3-5.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S9. Professional Activities (Men).

Mr. DUNCAN

Designed for major and minor students in physical education. Fundamental knowledges and skills in track and field, and tumbling and apparatus. Fee \$1. 1½ units.

M Tu W Th F, 8-10.

10. Swimming for Men.

Mr. DUNCAN, Mr. SELLWOOD

Personal instruction in the various strokes, as well as class drills in special exercises arranged to facilitate and strengthen necessary coordinations. Demonstrations and practice in methods of rescue and resuscitation. Instruction in the principles of diving. Fee, \$1. ½ unit.

M Tu W Th F, 10, section 1 (Duncan); M Tu W Th F, 11, section 2 (Sellwood).

14. Elementary Swimming for Women.

Miss ROSOFF

Open to nonswimmers. Floating, treading water, preliminary strokes, and simple diving. Fee, \$1. ½ unit.

M Tu W Th F, 10, Section 1; M Tu W Th F, 11, Section 2.

16. Tennis.

Mr. SELLWOOD, Mr. ROSENOFF

For those who wish to become more proficient in tennis, whether or not they are interested primarily in physical education. Both elementary and advanced work will be offered. Classes limited to forty students. Fee, \$1. ½ unit.

M W F, 2, section 1 (Sellwood); M W F, 3, section 2 (Rosenoff).

36. Folk Dancing for Junior and Senior High Schools and Colleges.

Miss ROSOFF

Designed to give teachers and majors in physical education materials in folk dances of many nationalities including American, English, Scandinavian, Central European, Mexican, and others selected from the group's interests, with methods of presentation. Fee, \$1. 1 unit.

M Tu W Th F, 9.

S102. Developmental Physical Education (Men).

Mr. SELLWOOD

Analysis and evaluation of aims, techniques, and procedures in developmental, preventive and corrective measures. Special problems such as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional problems, motivation, follow-up, teacher limitations, and public relations. Prerequisite: Physical Education 101, or the consent of the instructor. 2 units.

M Tu W Th F, 10.

S145B. School Health Education.

Mr. WEBSTER

A synthesis of the major areas of health education in the elementary and secondary schools. Prerequisite: Physical Education 44, 145A. 2 units.

M Tu W Th F, 11.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S299. Independent Study.

Mr. WEBSTER

Independent study in areas of guidance in physical education; developmental physical education; health education; dance; evaluation procedures. Prerequisite: consent of instructor. 1-2 units.

M W F, 10.

PROFESSIONAL COURSE IN METHOD**355B. Technique of Teaching Activities—Baseball, Softball, Volleyball (Men).**

Mr. ROSENOFF

A critical analysis of the methods of teaching and coaching, including strategy, selection of players, rules and team play. Prerequisite: junior standing, Physical Education 6. Fee, \$1. 2 units.

M Tu W Th F, 8-10.

PHYSICS

- ALFREDO BAÑOS, JR.,** Dr. Eng., Ph.D., Associate Professor of Physics.
- RICHARD H. BOLT,** Ph.D., Associate Professor of Physics, Massachusetts Institute of Technology.
- SIDNEY M. DANCOFF,** Ph.D., Associate Professor of Physics, University of Illinois.
- A. Y. ELIASON,** Ph.D., Associate Professor of Physics, Fresno State College, California.
- J. W. ELLIS,** Ph.D., Professor of Physics.
- T. VERNON FRAZIER,** A.B., Assistant in Physics in the Summer Sessions.
- LESTER M. HIRSCH,** M.S., Instructor in Physics, Compton Junior College, California.
- F. KENNETH HURD,** M.A., Associate in Physics in the Summer Sessions.
- ROY W. MCHENRY,** M.S., Head, Physics Department, Santa Monica City College, California.
- JULIUS S. MILLER,** M.A., M.S., Professor of Physics, Dillard University, New Orleans.
- DAVID S. SAXON,** Ph.D., Assistant Professor of Physics.
- DOUGLAS SJOBERG,** A.B., Associate in Physics.
- JOHN G. TEASDALE,** A.B., Associate in Physics in the Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

- S1A. General Physics: Mechanics of Solids.** Mr. TEASDALE
Prerequisite: High school physics or chemistry, and Mathematics 5A or 1-3A. Laboratory fee, \$6. 3 units.
M Tu W Th F, lecture, 9; two 2-hour laboratory periods and one 1-hour discussion period per week to be arranged.
- S1C. General Physics: Electricity and Magnetism.** Mr. HURD
Prerequisite: Physics 1A or its equivalent. Laboratory fee, \$6. 3 units.
M Tu W Th F, lecture, 10; two 2-hour laboratory periods and one 1-hour discussion period per week to be arranged.
- S2A. General Physics: Mechanics and Heat.** Mr. SJOBERG
Mechanics of solids; mechanics of liquids and gases; heat. Recommended for students of agriculture and business administration; prescribed for students in the premedical curriculum, meteorology, and geology; suitable for students in fields other than physics, chemistry, and astronomy; and of interest to teachers of science in high schools. Credit for matriculation physics given for the satisfactory completion of this course. Prerequisite: (1) three years of high school mathematics, or (2) two years of high school mathematics and college algebra. Laboratory fee, \$6. 4 units.
M Tu W Th F, lecture, 9; two 2-hour laboratory periods and one 1-hour discussion period per week to be arranged.

S2B. General Physics: Electricity, Magnetism, Light, and Sound.

Mr. BOLT

Recommended for teachers of science in high schools and for students of agriculture and business administration; prescribed for students in the pre-medical curriculum, meteorology, and geology; suitable for students in fields other than physics, chemistry, and astronomy. Prerequisite: Physics 2A or its equivalent. Laboratory fee, \$6. 4 units.

M Tu W Th F, lecture, 11; two 2-hour laboratory periods and one 1-hour discussion period per week to be arranged.

S21. Supplementary Laboratory Courses in General Physics. Mr. SAXON

These courses are intended primarily for students entering the University with partial credit in general physics and are part of the regular work of Physics 1A, 1C, 2A, 2B. Fee: \$6. 1 unit.

Students should enroll under one or more of the following numbers.

S21(1A). Mechanics of Solids.

S21(1C). Electricity and Magnetism.

S21(2A). Mechanics and Heat.

S21(2B). Electricity, Magnetism, Light, and Sound.

For hours, consult Physics S1A, S1C, S2A, and S2B.

S108B. Physical Optics.

Mr. ELLIS

Wave motion, interference, diffraction, dispersion, and polarization. 3 units.

M Tu W Th F, lecture, 9-10:15.

S108C. Physical Optics Laboratory.

Mr. FRAZIER

Two 3-hour laboratory periods per week. Fee, \$14. 1 unit.

M W, 12-3, section 1; Tu Th, 12-3, section 2; M W, 3-6, section 3; Tu Th, 3-6, section 4.

S121. Atomic Physics.

Mr. BAÑOS

A comprehensive survey course on the physics of the atom, dealing extensively with the nature of its nuclear and extra-nuclear structures, stressing certain topics as the photo-electric effect, the Compton effect, and the nature of X rays, and ending with an introduction to radioactivity and nuclear physics. 3 units.

M Tu W Th F, lecture, 11-12:15.

S199. Special Problems in Physics.

Mr. BAÑOS

1 unit.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S220A. Theoretical Mechanics.

Mr. SAXON

3 units.

M Tu W Th F, 11-12:15.

S261. Seminar in Quantum Mechanics.

Mr. DANCOFF

Dirac perturbation theory; relativistic wave equations; quantum field theory. Prerequisite: Physics 220C or its equivalent. 2 units.

M W F, lecture 1:30-3.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1B. General Physics: Mechanics of Fluids, and Heat.** Mr. ELIASON
 Prerequisite: Physics 1A or its equivalent. Laboratory fee, \$6. 3 units.
 M Tu W Th F, lecture, 10; two 2-hour laboratory periods and one 1-hour
 discussion period per week to be arranged.
- S1D. General Physics: Light and Sound.** Mr. HIRSCH
 Prerequisite: Physics 1A or its equivalent. Laboratory fee, \$6. 3 units.
 M Tu W Th F, lecture, 9; two 2-hour laboratory periods and one 1-hour
 discussion period per week to be arranged.
- S2A. General Physics: Mechanics and Heat.** Mr. MCHENRY
 Mechanics of solids; mechanics of liquids and gases; heat. Recommended for
 students of agriculture and business administration; prescribed for students
 in the premedical curriculum, meteorology, and geology; suitable for stu-
 dents in fields other than physics, chemistry, and astronomy; and of interest
 to teachers of science in high schools. Credit for matriculation physics given
 for the satisfactory completion of this course. Prerequisite: (1) three years of
 high school mathematics, or (2) two years of high school mathematics and
 college algebra. Laboratory fee, \$6. 4 units.
 M Tu W Th F, lecture, 11-12:15; two 2-hour laboratory periods and one
 1-hour discussion period per week to be arranged.
- S105. Analytic Mechanics.** Mr. MILLER
 The statics and dynamics of particles and of rigid bodies. 3 units.
 M Tu W Th F, lecture, 10-11:15.

POLITICAL SCIENCE

VINCENT M. BARNETT, JR., Ph.D., Associate Professor of Political Science, Williams College.

WINSTON W. CROUCH, Ph.D., Associate Professor of Political Science.

HERMAN FINER, Sc.D., Professor of Political Science, University of Chicago.

RUSSELL H. FITZGIBBON, Ph.D., Associate Professor of 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., LL.D., Professor of Political Science.

THOMAS P. JENKIN, Ph.D., Assistant Professor of Political Science.

ROBERT G. NEUMANN, Ph.D., Assistant Professor of Political Science.

CHARLES R. NIXON, Ph.D., Assistant Professor of Political Science.

FOSTER H. SHERWOOD, Ph.D., Assistant Professor of Political Science.

H. ARTHUR STEINER, Ph.D., Professor of Political Science.

CHARLES H. TITUS, Ph.D., Professor of Political Science.

Prerequisite for upper division courses: upper division standing; and for Political Science S148, S157A, S157B, S162, and S187, Political Science 1, 2, or the equivalent.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. Introduction to Government.

Mr. SHERWOOD

An introduction to the principles and problems of government with particular emphasis on national government in the United States. This course is designed to fulfill in part the requirement of American History and Institutions. Students who have credit for American Institutions 101 will receive no credit for Political Science S1. 2 units.

M Tu W Th F, 9.

S2. Introduction to Government.

Mr. FINER

A comparative study of constitutional principles, governmental institutions, and political problems of selected governments abroad. Not open to students who have had Political Science 31. 2 units.

M Tu W Th F, 11.

S10. The Anglo-American Legal System.

Mr. GRANT

Evolution of the English common law courts and their legal system, with special emphasis on the contributions made by canon law, the law merchant and equity; the theory of *stare decisis* as illustrated by the evolution of modern rules of negligence. Prerequisite: sophomore standing. 2 units.

M Tu W Th F, 8.

*Group I—Political Theory***S110. History of Political Ideas.**

Mr. NIXON

An exposition and critical analysis of the ideas of the major political philosophers and schools from Plato to Burke. 2 units.

M Tu W Th F, 1.

S112. Modern Political Thought.

Mr. FINER

An exposition and critical analysis of the ideas of the major schools of political thought from Kant to the present. 2 units.

M Tu W Th F, 9.

Group II—International Relations

S126. Contemporary Latin-American International Relations.

Mr. FITZGIBBON

International relations of the Latin-American countries in recent decades, (a) among themselves, (b) with the United States, (c) with Europe and Asia. 2 units.

M Tu W Th F, 8.

S127. International Relations.

Mr. STEINER

A survey of the basic factors affecting international relations and politics, with emphasis on the development of institutions of international government, including the United Nations. 2 units.

M Tu W Th F, 10.

Group III—Politics

S146. Public Opinion and Propaganda.

Mr. NIXON

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. 2 units.

M Tu W Th F, 12.

Group IV—Comparative Government

S155. Governments of Eastern Europe.

Mr. GRAHAM

An intensive study of the political and constitutional organization of the Soviet Union and its component parts, with special attention to contemporary political issues, parties, elections, and foreign relations. 2 units.

M Tu W Th F, 11.

Group V—Public Law

S157A. Constitutional Law.

Mr. BARNETT

General principles of constitutional law, federal and state; relations and powers of the federal government and the state; limitations on the federal government and the protection accorded to individual rights under the American constitutional system. 2 units.

M Tu W Th F, 11.

S157B. Constitutional Law.

Mr. GRANT

2 units.

M Tu W Th F, 9.

Group VI—Public Administration

S187. The Administrative Process.

Mr. SHERWOOD

An analysis of (1) judicial control of the way in which administrative agencies operate, and (2) within these limits, the most effective procedures as demonstrated by experience. This course may be counted in either *Group V* or *Group VI*. 2 units.

M Tu W Th F, 10.

Ungrouped

S199A. Special Problems in Political Science.

The STAFF

1-3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

- S252A. Seminar in Public Law.** Mr. BARNETT
2 units.
Hours to be arranged.
- S253A. Seminar in International Relations.** Mr. STEINER
2 units.
M W, 1-3.
- S256A. Seminar in Comparative Government.** Mr. GRAHAM
2 units.
Tu Th, 1-3.
- S298A. Special Study and Research for Master's Candidates.** The STAFF
1-3 units.
Hours to be arranged.
- S299A. Special Study and Research for Ph.D. Candidates.** The STAFF
1-3 units.
Hours to be arranged.

American Institutions

- S101. American Institutions.** Mr. FITZGIBBON
This course counts toward satisfaction of the requirement of American History and Institutions. It may not be applied toward the political science major, and is not open to students who have credit for Political Science 1 or 3A.
2 units.
M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S1. Introduction to Government.** Mr. NEUMANN
An introduction to the principles and problems of government with particular emphasis on national government in the United States. This course is designed to fulfill in part the requirement of American History and Institutions. Students who have credit for American Institutions 101 will receive no credit for Political Science S1. 2 units.
M Tu W Th F, 11.
- S2. Introduction to Government.** Mr. NEUMANN
A comparative study of constitutional principles, governmental institutions, and political problems of selected governments abroad. Not open to students who have had Political Science 31. 2 units.
M Tu W Th F, 9.

Group I—Political Theory

- S113. American Political Theory.** Mr. JENKIN
A survey of the development of American political ideas from Cotton and Williams to the present. 2 units.
M Tu W Th F, 9.

Group III—Politics

S148. Public Relations.

Mr. TITUS

An analysis of principles, activities, problems, and distinctive types of organizations in the field of public relations. 2 units.

M Tu W Th F, 10.

Group V—Public Law

S157B. Constitutional Law.

Mr. HAINES

2 units.

M Tu W Th F, 11.

Group VI—Public Administration

S162. Municipal Government.

Mr. CROUCH

The modern municipality in the United States; legal aspects of city government; parties and electoral problems; types of municipal organization, mayor and council, commission, and city manager; problems of metropolitan areas. 2 units.

M Tu W Th F, 8.

Ungrouped

S199B. Special Problems in Political Science.

The STAFF

1-3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S252B. Seminar in Public Law.

Mr. HAINES

2 units.

Tu Th, 2-4.

S257A. Seminar in Political Theory.

Mr. JENKIN

2 units.

M F, 1-3.

S259A. Seminar in Political and Electoral Problems.

Mr. TITUS

2 units.

M W, 3-5.

S298B. Special Study and Research for Master's Candidates.

The STAFF

1-3 units.

Hours to be arranged.

S299B. Special Study and Research for Ph.D. Candidates.

The STAFF

1-3 units.

Hours to be arranged.

American Institutions

S101. American Institutions.

Mr. CROUCH

This course counts toward satisfaction of the requirement of American History and Institutions. It may not be applied toward the political science major, and is not open to students who have credit for Political Science 1 or 3A. 2 units.

M Tu W Th F, 10.

PSYCHOLOGY

HARRY W. CASE, Ph.D., Associate Professor of Engineering and Associate Professor of Psychology.

JAMES C. COLEMAN, Ph.D., Associate Professor of Psychology, University of New Mexico.

ROY M. DORCUS, Ph.D., Professor of Psychology.

FRANKLIN FEARING, Ph.D., Professor of Psychology.

GRACE M. FERNALD, Ph.D., Professor of Psychology.

JOSEPH A. GENGERELLI, Ph.D., Associate Professor of Psychology.

HOWARD C. GILHOUSEN, Ph.D., Associate Professor of Psychology.

HARRY F. HARLOW, Ph.D., Professor of Psychology, University of Wisconsin.

THOMAS W. HARRELL, Ph.D., Associate Professor of Psychology, University of Illinois.

DANIEL KATZ, Ph.D., Professor of Psychology, University of Michigan.

FRED S. KELLER, Ph.D., Associate Professor of Psychology, Columbia University.

E. LOWELL KELLY, Ph.D., Professor of Psychology, University of Michigan.

GEORGE F. J. LEHNER, Ph.D., Assistant Professor of Psychology.

HOWARD S. LIDDELL, Ph.D., Professor of Psychology, Cornell University.

JOHN P. SEWARD, Ph.D., Assistant Professor of Psychology.

ELLEN B. SULLIVAN, Ph.D., Professor of Psychology.

KARL ZENER, Ph.D., Professor of Psychology, Duke University.

General prerequisite for all upper division courses: Psychology 21 and 22 or the equivalent.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S21. Introductory Psychology.

Mr. GILHOUSEN

Facts and principles pertaining to the topics of perception, imagination, thought, feeling and emotion, leading to the problems of experimental psychology, and the topics of intelligence and personality. 2 units.

M Tu W Th F, 12.

S22. Elementary Physiological Psychology.

Mr. SEWARD

The integrative relations of psychological processes to nervous, muscular, and glandular features of the response mechanism; including the structure and functions of the sense organs. 2 units.

M Tu W Th F, 9.

S23. Personal and Social Adjustment.

Mr. CASE

Orientation in the practical use of psychological principles in problems and circumstances encountered in college and later life. Prerequisite: Psychology 1A or 21. 2 units.

M Tu W Th F, 10.

S105A. Mental Measurements.

Mr. GINGERELLI

The construction, techniques of application and interpretation of tests and scales. Practice in statistical procedures applicable to data derived from tests. Fee, \$3.50. 3 units.

M Tu W Th F, 9, plus 6 hours of laboratory work to be arranged.

S108. Physiological Psychology.

Mr. LIDDELL

Integrative activities, consciousness, intelligent behavior, receptor and effector processes in relation to neuromuscular structure and function. Facts, problems, and methods. 2 units.

M Tu W Th F, 1.

S110. Educational Psychology.

Mr. KELLER

Discussion of special topics pertaining to fundamental educational problems and their applications to educational procedures. Analysis of experiments and clinical studies pertaining to the problems of learning, memory, etc., in children and adults. 2 units.

M Tu W Th F, 10.

S112. Child Psychology.

Miss FERNALD

The psychology of the infant and child, with special reference to mental development. 2 units.

M Tu W Th F, 1.

S128. Contemporary Psychology.

Mr. KELLER

The variant tendencies in current psychology, including critical examination of the more important so-called "schools" of psychology. 2 units.

M Tu W Th F, 11.

S137A. Human Learning.

Mr. SEWARD

Experimental methods and results, with consideration of leading theories. 2 units.

M Tu W Th F, 10.

S142. Human Communication.

Mr. FEARING

Role of communication in human social organization; psychological factors involved in the creation and manipulation of symbols; art, drama, and science as forms of communication. Particular attention will be given to the social and psychological aspects of the mass media of communication, radio, and motion pictures. 2 units.

M Tu W Th F, 11.

S166A. Clinical Psychology.

Mr. KELLY

Clinical problems, including discussion of physical and mental abnormalities and deficiencies. 2 units.

M Tu W Th F, 12.

S167. Remedial Techniques in Basic School Subjects.

Miss FERNALD

The diagnosis and treatment of reading, spelling, arithmetic, and other school disabilities in children and adults. A discussion of foreign language disability will be included in the course if desired. Clinical demonstration, testing, and training of typical cases. 2 units.

M Tu W Th F, 2.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

- S211A. Comparative Psychology.** Mr. GILHOUSEN
An advanced treatment of systems and theories based on experimental literature in the animal and human fields. 2 units.
M W, 1-3.
- S216. Critical Problems in Psychology.** Mr. GENGERELLI
Discussion of critical problems in the field of psychology, depending on the interests of the instructor and the class. 2 units.
Tu Th, 10-12.
- S217A. Clinical Psychology.** Mr. KELLY
The prevention of psychological disorders and their remedy. 2 units.
M W, 3-5.
- S255A. Seminar in Social Psychology.** Mr. FEARING
2 units.
Tu Th, 1-3.
- S258A. Seminar in Abnormal Psychology.** Mr. LIDDELL
2 units.
Tu Th, 3-5.
- S278A or S278B. Research in Psychology.** Mr. GILHOUSEN
2 units.
Hours to be arranged.
- S279A or S279B. Field Work in Clinical Psychology.** Miss SULLIVAN, Mr. LEHNER
Practical work in hospitals and clinics in clinical diagnostic testing and psychotherapy. 2 units.
Hours at hospitals to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

- S21. Introductory Psychology.** Mr. HARRELL
Facts and principles pertaining to the topics of perception, imagination, thought, feeling, and emotion, leading to the problems of experimental psychology, and the topics of intelligence and personality. 2 units.
M Tu W Th F, 9.
- S22. Elementary Physiological Psychology.** Mr. ZENER
The integrative relations of psychological processes to nervous, muscular, and glandular features of the response mechanism; including the structure and functions of the sense organs. 2 units.
M Tu W Th F, 10.
- S23. Personal and Social Adjustment.** Mr. LEHNER
Orientation in the practical use of psychological principles in problems and circumstances encountered in college and later life. Prerequisite: Psychology 1A or 21. 2 units.
M Tu W Th F, 12.

S105B. Mental Measurements.

Miss SULLIVAN

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. Fee, \$3.50. 3 units.

M Tu W Th F, 10; six hours of laboratory work to be arranged.

S110. Educational Psychology.

Mr. ZENER

Discussion of special topics pertaining to fundamental educational problems and their applications to educational procedures. Analysis of experiments and clinical studies pertaining to the problems of learning, memory, etc., in children and adults. 2 units.

M Tu W Th F, 9.

S113. Psychology of Adolescence.

Mr. COLEMAN

Methods and findings on adolescent growth, development, and behavior. The phase of development following child psychology and the interrelationship between the earlier phases of life and adult life. 2 units.

M Tu W Th F, 1.

S137B. Human Learning.

Mr. HARLOW

Experimental methods and results, with consideration of leading theories. 2 units.

M Tu W Th F, 12.

S145B. Social Psychology. General Course.

Mr. KATZ

2 units.

M Tu W Th F, 10.

S163. Clinical Measurement Techniques.

Miss SULLIVAN

Detailed study of tests used in clinical diagnostic study, including the special application of individual and group tests of intelligence, personality, diagnosis, and projective techniques. Emphasis will be placed on discussion, laboratory practice, and field work. Fee, \$3.50. Prerequisite: Psychology 105A-105B, 166A, and 168. 3 units.

M Tu W Th F, 11; six hours of laboratory work to be arranged.

S166B. Clinical Psychology.

Mr. COLEMAN

Special emphasis is placed on corrective and preventive methods. 2 units.

M Tu W Th F, 2.

S168. Abnormal Psychology.

Mr. DORCUS

Disorders of sensation, perception, feeling, and thought; their nature, causation, effects on life, and amelioration. 2 units.

M Tu W Th F, 11.

S180. Psychology of Advertising and Selling.

Mr. HARRELL

The relative strength of the desires in buying; attention value of form, size, color, typographical layout, and methods of measuring the effectiveness of advertisements; characteristics of salesmen. 2 units.

M Tu W Th F, 11.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S211B. Comparative Psychology.

Mr. HARLOW

An advanced treatment of systems and theories based on experimental literature in the animal and human fields. 2 units.

Tu Th, 1-3.

- S217B. Clinical Psychology.** Mr. LEHNER
The prevention of psychological disorders and their remedy. 2 units.
Tu Th, 3-5.
- S255B. Seminar in Social Psychology.** Mr. KATZ
2 units.
M W, 1-3.
- S258B. Seminar in Abnormal Psychology.** Mr. DORCUS
2 units.
M W, 3-5.
- S278A or S278B. Research in Psychology.** Mr. DORCUS
2 units.
Hours to be arranged.
- S279A-S279B. Field Work in Clinical Psychology.**
Miss SULLIVAN, Mr. LEHNER
Practical work in hospitals and clinics in clinical diagnostic testing and
psychotherapy. 2 units.
Hours to be arranged.

PUBLIC HEALTH

JOHN BEESTON, M.D., M.P.H., Visiting Assistant Professor of Public Health.
HAMLET C. PULLEY, M.D., M.P.H., Chief Assistant Health Officer, Los Angeles City Health Department.

Where prerequisites to upper division courses are not stated, it is understood that these courses are open only to students who have junior standing or its equivalent.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

S145. Community Control of Communicable Disease.

Mr. BEESTON

The epidemiology and community control of communicable diseases, including tuberculosis and venereal infections. Acceptable for curriculum in Public Health Nursing. 3 units.

M W F, 7:40-10 a.m.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S105. Public Health Administration.

Mr. PULLEY

Lectures, reading, and individual reports in public health administration and procedures. Acceptable for curriculum in Public Health Nursing in lieu of Public Health 101B. Prerequisite: the consent of the instructor, 3 units.

M W F, 7:40-10 a.m.

PUBLIC SPEAKING

HENRY DAVID COOKE, M.A., Instructor in Speech, Long Beach City College, California.

ELISE STEARNS HAHN, Ph.D., Instructor in Public Speaking.

HOMER STINSON HANNA, M.A., Associate Professor of Public Speaking, Fresno State College, California.

DONALD ERWIN HARGIS, Ph.D., Instructor in Public Speaking.

ANN LOUISE HIRT, Ph.D., Lecturer in Public Speaking.

RUSSELL JOHNSTON, M.A., Instructor in Speech, Long Beach City College, California.

HARRISON MANLY KARR, Ph.D., Associate Professor of Public Speaking.

CHARLES WYATT LOMAS, Ph.D., Assistant Professor of Public Speaking.

LEONARD MCKAIG, M.A., Instructor in Public Speaking, Bakersfield Junior College, California.

JAMES MURRAY, Ed.D., Lecturer in Public Speaking.

GENE NIELSON OWEN, M.A., Instructor in Speech, Santa Monica City College, California.

FIRST SUMMER SESSION COURSES*(June 21 to July 31, 1948)***S1A. Elements of Public Speaking.**

The basic principles of effective speech-building, with special emphasis on outlining. Practice in preparing and presenting short speeches. 2 units.

M T W Th F:

Section 1, 8.

Section 2, 8.

Section 3, 9.

Section 4, 9.

Section 5, 10.

Section 6, 11.

Section 7, 1.

Mr. COOKE

Mr. MCKAIG

Mr. COOKE

Mr. MCKAIG

Mr. LOMAS

Mr. JOHNSTON

Mr. KARR

S1B. Elements of Public Speaking.

Continuation of Public Speaking S1A. 2 units.

M Tu W Th F:

Section 1, 8.

Section 2, 10.

Mr. JOHNSTON

Mr. HANNA

S3. Basic Voice Training.

2 units.

M Tu W Th F, 11.

Mrs. HAHN

S110A. Third-year Public Speaking.

Oral argumentation and debate; preparation of briefs; presentation of arguments. 2 units.

M Tu W Th F, 9.

Mr. HANNA

S122. Diction and Voice.

2 units.

M Tu W Th F, 12.

Mr. KARR

S137. History of American Public Address.

Mr. LOMAS

Critical analysis of the speeches of Randolph, Franklin, Washington, Hamilton, Marshall, Webster and others. 2 units.

M Tu W Th F, 11.

S140. Speech Correction.

Mrs. HAHN

The principles of speech correction. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S1A. Elements of Public Speaking.

The basic principles of effective speech-building, with special emphasis on outlining. Practice in preparing and presenting short speeches. 2 units.

M Tu W Th F:

Section 1, 8.

Section 2, 9.

Section 3, 10.

Section 4, 11.

Miss HIRT

Miss HIRT

Mrs. OWEN

Mr. MURRAY

S1B. Elements of Public Speaking.

Continuation of Public Speaking S1A. 2 units.

M Tu W Th F:

Section 1, 9.

Section 2, 11.

Mr. MURRAY

Mrs. OWEN

S3. Basic Voice Training.

2 units.

M Tu W Th F:

Section 1, 8.

Section 2, 10.

Mr. HARGIS

Mr. HARGIS

SLAVIC LANGUAGES

DIMITRY M. KRASSOVSKY, C.L., Instructor in Slavic Languages.

ALEXANDER S. MORNELL, J.S.C., Lecturer in Slavic Languages.

JACK A. POSIN, Ph.D., Associate Professor of Russian, Stanford University.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1. Beginning Russian.

Mr. MORNELL

Four lecture hours and six recitation hours weekly. 4 units.

M Tu W Th F, 8-10.

S18A. Elementary Russian Conversation.

Mr. POSIN

Open only to students who are taking Slavic Languages S1, or who have completed Slavic Languages 1 or 2. 2 units.

M Tu W Th F, 11.

S133. Tolstoy and Dostoyevski.

Mr. POSIN

Lectures and reading in English. Prerequisite: upper division standing. 2 units.

M Tu W Th F, 10.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

S2. Elementary Russian.

Mr. KRASSOVSKY

Four lecture hours and six recitation hours weekly. Continuation of Russian S1. 4 units.

M Tu W Th F, 9-11.

SOCIAL WELFARE

MARJORY DRURY, Ph.D., Visiting Associate Professor of Social Welfare.

MAX SILVERSTEIN, M.S.W., Assistant Professor of Social Welfare and Supervisor of Field Work.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S203. Community Organization in Social Work.

Miss DRURY

The interrelationship and significance of community forces in determining the character and extent of social work programs; the methods and processes by which cooperative action is achieved in determining social needs, and in developing resources to meet them. 2 units.

M Tu W Th F, 12.

S204. Health and Medical Care.

Mr. SILVERSTEIN

Discussion of public health and medical care problems with which social workers come in contact. 2 units.

M Tu W Th F, 10.

S210. Public Welfare Services.

Mr. SILVERSTEIN

Brief survey of the historical development of public welfare programs, with emphasis on the contemporary structure and operations of public agencies; the interrelationship and responsibilities of federal, state, and local governments; varieties of public assistance programs. 2 units.

M Tu W Th F, 1.

S212. Personality Development.

Miss DRURY

Problems of normal growth of individuals as revealed in fundamental human experiences; behavior, growth, and change in the individual in contemporary society. 2 units.

M Tu W Th F, 3.

SPANISH AND ITALIAN

- VIRGINIA G. BAÑOS, Ph.D., Lecturer in Spanish.
 JOSÉ R. BARCIA, Licenciado en Filosofía y Letras, Lecturer in Spanish.
 CARLO L. GOLINO, M.A., Lecturer in Italian.
 MANUEL PEDRO GONZÁLEZ, Ph.D., Professor of Spanish-American Literature.
 LEO KIRSCHENBAUM, Ph.D., Assistant Professor of Spanish.
 LEONOR MONTAU, A.B., Associate in Spanish.
 MANUEL OLGUÍN, Ph.D., Instructor in Spanish.
 JOHN T. REID, Ph.D., Assistant Professor of Spanish.
 CHARLES SPERONI, Ph.D., Associate Professor of Italian.
 IRVING SPIEGEL, M.A., Lecturer in Spanish.
 ERNEST H. TEMPLIN, Ph.D., Professor of Spanish.
 MARION A. ZEITLIN, Ph.D., Professor of Spanish.

FIRST SUMMER SESSION COURSES
(June 21 to July 31, 1948)

Spanish

- S1. Elementary Spanish.** _____
 For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.
 Five sections: M Tu W Th F, 8-10 or 12-2.
- S2. Elementary Spanish.** _____
 Continuation of Spanish S1. Grammar review, reading, conversation. Prerequisite: Spanish S1 or its equivalent, or two years of high school Spanish. 4 units.
 Three sections: M Tu W Th F, 12-2.
- S3. Intermediate Spanish.** Mrs. BAÑOS, _____, _____
 Prerequisite: Spanish S2 or its equivalent, or three years of high school Spanish. 4 units.
 Three sections: M Tu W Th F, 8-10 or 10-12.
- S4. Intermediate Spanish.** Mrs. MONTAU
 Prerequisite: Spanish S3 or its equivalent, or four years of high school Spanish. 4 units.
 M Tu W Th F, 8-10.
- S25A. Advanced Spanish.** Mr. REID
 Prerequisite: Spanish S4 or the equivalent. 2 units.
 M Tu W Th F, 10.
- S101A. Oral and Written Composition.** Mr. GONZÁLEZ
 Prerequisite: upper division standing and at least sixteen units of college Spanish. 2 units.
 M Tu W Th F, 10.
- S104A. Survey of Spanish-American Literature.** Mr. REID
 Readings, class discussion, and lectures based on literature from colonial times through Gaucho poetry. 2 units.
 M Tu W Th F, 11.

120. Cervantes.

Lectures, outside reading, and reports. 2 units.
M Tu W Th F, 9.

Mr. TEMPLIN

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S209A. The Drama of the Golden Age.

Lope de Vega and his predecessors. Lectures, outside reading, and reports. 2 units.

M Tu W Th F, 10.

Mr. TEMPLIN

S224. The Contemporary Mexican Novel.

Lectures, classroom discussion, outside reading, written reports.

Prerequisite: Spanish 114, or the equivalent. 2 units.

M Tu W Th F, 11.

Mr. GONZÁLEZ

Italian

S1. Elementary Italian.

For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.

M Tu W Th F, 10-12.

Mr. SPERONI

Portuguese

S1. Elementary Portuguese.

For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.

M Tu W Th F, 12-2.

Mr. ZEITLIN

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

Spanish

S1. Elementary Spanish.

For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.

Two sections: M Tu W Th F, 8-10.

S2. Elementary Spanish.

Continuation of Spanish S1. Grammar review, reading, conversation. Prerequisite: Spanish S1 or its equivalent, or two years of high school Spanish. 4 units.

Three sections: M Tu W Th F, 12-2.

S3. Intermediate Spanish.

Prerequisite: Spanish S2 or its equivalent, or three years of high school Spanish. 4 units.

M Tu W Th F, 8-10.

Mr. SPIEGEL

S4. Intermediate Spanish.

Prerequisite: Spanish S3 or its equivalent, or four years of high school Spanish. 4 units.

M Tu W Th F, 10-12.

Mr. BARCIA

S25B. Advanced Spanish.

Prerequisite: Spanish S4 or the equivalent. 2 units.

M Tu W Th F, 10.

Mr. KIRSCHENBAUM

S101B. Oral and Written Composition.

Mr. OLGUÍN

Prerequisite: upper division standing and at least sixteen units of college Spanish. 2 units.

M Tu W Th F, 10.

S104B. Survey of Spanish-American Literature.

Mr. OLGUÍN

Readings, class discussion, and lectures based on literature from *modernista* movement to present. 2 units.

M Tu W Th F, 11.

S106. Eighteenth-Century Spanish Literature.

Mr. KIRSCHENBAUM

General survey of the literature of the century. Lectures, readings, and reports. 2 units.

M Tu W Th F, 9.

Italian**S2. Elementary Italian.**

Mr. GOLINO

Continuation of Italian S1. Grammar review, reading, conversation. Prerequisite: Italian S1 or its equivalent, or two years of high school Italian. 4 units.

M Tu W Th F, 10-12.

SUBJECT A (Elementary Composition)

ELLA O. HUTCHINS, M.A., Associate in Subject A.

JAMES K. LOWERS, M.A., Supervisor of Instruction in Subject A.

FIRST SUMMER SESSION COURSE

(June 21 to July 31, 1948)

Subject A.

Mrs. HUTCHINS

Training in correct writing, including drill in sentence and paragraph construction, diction, punctuation, grammar, and spelling. Compositions and written tests on the text. Students registering in Subject A may not enroll for more than four units of credit. No credit.

M Tu W Th F, section 1, 9; section 2, 10.

SECOND SUMMER SESSION COURSE

(August 2 to September 11, 1948)

Subject A.

Mr. LOWERS

Training in correct writing, including drill in sentence and paragraph construction, diction, punctuation, grammar, and spelling. Compositions and written tests on the text. Students registering in Subject A may not enroll for more than four units of credit. No credit.

M Tu W Th F, section 1, 9; section 2, 10.

SUBTROPICAL HORTICULTURE

SIDNEY H. CAMERON, Ph.D., Professor of Subtropical Horticulture.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S199A. Special Problems.

The STAFF

Prerequisite: senior or graduate status, and consent of the instructor.

2-4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S281A. Research in Subtropical Horticulture.

The STAFF

Prerequisite: regular graduate status, and consent of the instructor.

2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(August 2 to September 11, 1948)

S199B. Special Problems.

The STAFF

Prerequisite: senior or graduate status, and consent of the instructor.

2-4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S281B. Research in Subtropical Horticulture.

The STAFF

Prerequisite: regular graduate status and consent of the instructor.

2-4 units.

Hours to be arranged.

THEATER ARTS

WALDEN PHILIP BOYLE, Ph.D., Assistant Professor of Theater Arts.
RALPH FREUD, Lecturer in Theater Arts and Director of the Theater Division.
ESTELLE KARCHMER HARMAN, M.A., Instructor in Theater Arts.
G. EDWARD HEARN, M.A., Lecturer in Theater Arts.
JOHN JONES, A.B., Lecturer in Art.
JACK MORRISON, A.B., Lecturer in Theater Arts.
W. DAVID SIEVERS, M.A., Instructor in Theater Arts.
MARION UNDERWOOD, M.A., Teacher, Glendale High School, California.
JOHN ROSS WINNIE, M.F.A., Assistant Professor of Theater Arts.

Where prerequisites to upper division courses are not stated, it is understood that these courses are open only to students who have junior standing or its equivalent.

FIRST SUMMER SESSION COURSES
(June 21 to July 31, 1948)

S2A. Acting Fundamentals.

Mrs. HARMAN

The acting process. Exercises in characterization and interpretation. Normal and characterized speech and movement. Comparative study of acting periods and styles. 2 units.

M Tu W Th F, 10.

S2B. Acting Fundamentals.

Mrs. HARMAN

Prerequisite: Theater Arts 2A or the equivalent. Continuation of Theater Arts 2A. 2 units.

M Tu W Th F, 11.

S48B. Theater Crafts.

Mr. JONES

Construction of theater costume. Cutting, fitting, dyeing, and processes of decorating. The organization of the costume wardrobe. 2 units.

Tu Th F, 9, and laboratory hours to be arranged.

103. Secondary School Dramatics.

Miss UNDERWOOD

Techniques of teaching acting. Choosing, mounting, and presenting plays on the secondary school level. 2 units.

M Tu W Th F, 2.

S148A. Fundamentals of Scenic Design.

Mr. JONES

Fundamentals of the preparation of the environment of the actor. The statement of the dramatic idea in visual terms. Prerequisite: Art 48A. 2 units.

M W, 12, and laboratory hours to be arranged.

S154. Theater Organization and Management.

Mr. MORRISON

The administrative and organizational techniques of the professional, community, and educational theaters. 2 units.

M Tu W Th F, 12.

S155. Play Production.

Mr. FREUD

A course of lectures devoted to an examination of the integrated production process. 2 units.

M Tu W Th F, 11.

S156A. Dramatic Direction.

Mr. BOYLE

Studies in analysis of dramatic materials and techniques of directorial re-statement in theatrical terms. 2 units.

M Tu W Th F, 2.

S158. Theatrical Lighting.

Mr. HEARN

The application of the principles of light, color, illumination, and electricity to the stage; fundamentals of motion picture lighting; and the aesthetics of lighting. 2 units.

M Tu W Th F, 1.

159C-159D-159E. Summer Theater Laboratory.

Mr. BOYLE, Mr. FREUD, Mr. HEARN

Practice in and observation of the complete operation of a summer theater on a semi-professional level. Prerequisite: theater arts major, or permission of the instructor. 6 units.

M Tu W Th F, 7-10 p.m.

NOTE: The three parts of this course must be taken concurrently and constitute a full academic load for one session.

S169. Motion Picture Visual Analysis.

Mr. WINNIE

The history and theory of film making; the aesthetics of the screen as seen in selected silent and sound films. 2 units.

M Tu W Th F, 10.

S180. Documentary and Educational Film Techniques.

Mr. WINNIE

A survey of basic techniques and practices employed in the documentary and educational fields. 2 units.

M Tu W Th F, 11.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S2B. Acting Fundamentals.**

Mr. SIEVERS

The acting process. Exercises in characterization and interpretation. Normal and characterized speech and movement. Comparative study of acting periods and styles. 2 units.

M Tu W Th F, 9.

S155. Play Production.

Mr. SIEVERS

Lectures devoted to an examination of the integrated production process. 2 units.

M Tu W Th F, 11.

ZOÖLOGY

GEORGE A. BARTHOLOMEW, Ph.D., Instructor in Zoölogy.

GRETCHEN L. BURLESON, M.A., Lecturer in Microscopic Technique.

WALDO H. FURGASON, Ph.D., Associate Professor of Zoölogy, Wabash College, Indiana.

CLIFFORD GROBSTEIN, Ph.D., United States Public Health Post-Doctoral Fellow, National Institute of Health, Bethesda, Maryland.

BORIS KRICHESKY, Ph.D., Associate Professor of Zoölogy.

RUTH MEMMLER, M.D., Instructor in Anatomy, East Los Angeles City College.

A. MANDEL SCHECHTMAN, Ph.D., Associate Professor of Zoölogy.

FIRST SUMMER SESSION COURSES

(June 21 to July 31, 1948)

S1A. General Zoölogy.

Mr. FURGASON

Principles of animal biology with emphasis on the invertebrates. Offered primarily for zoölogy majors and premedical students. Prerequisite: Chemistry 1A or 2A. Fee, \$4. 4 units.

M Tu W Th F, lecture, 1; laboratory, section 1, 9-12, section 2, 9-12; section 3, 2-5; section 4, 2-5.

S4. Microscopical Technique.

Mrs. BURLESON

Prerequisite: high school chemistry and Zoölogy 1B or Zoölogy 15, or the consent of the instructor. Fee, \$10. 2 units.

M Tu W Th F, section 1, 9-12; section 2, 1-4.

S15. Elementary Zoölogy and Physiology.

Mr. GROBSTEIN

An introduction to the facts and principles of animal biology and physiology. Fee, \$7. 5 units.

M Tu W Th F, lecture, 11; laboratory section 1, 8-11; section 2, 12-3; section 3, 3-6.

S100. Vertebrate Embryology.

Mr. SCHECHTMAN

Embryologic development of the vertebrates including amphibia, chick, and mammal. Prerequisite: Zoölogy 1A and 1B. Fee, \$6. 4 units.

M Tu W Th F, lecture, 11; laboratory section 1, 8-11; section 2, 12-3; section 3, 3-6.

S118. Endocrinology.

Mr. KRICHESKY

Prerequisite: Zoölogy 1B, or equivalent. 2 units.

M Tu W Th F, 9.

S199A. Problems in Zoölogy.

Mr. KRICHESKY

Prerequisite: senior standing with such special preparation as the problem may demand. Fee, \$5. 2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S290A. Research in Zoölogy.

Mr. KRICHESKY

Prerequisite: graduate standing with such special preparation as the problem may demand. 2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(August 2 to September 11, 1948)***S1B. General Zoölogy.**

Mr. BARTHOLOMEW

General morphology and physiology of the vertebrates with emphasis on the mammals. Prerequisite: Zoölogy 1A, and Chemistry 1B. Fee, \$4. 4 units.

M Tu W Th F, lecture, 1; laboratory section 1, 9-12; section 2, 9-12; section 3, 2-5.

S35. General Human Anatomy.

Mrs. MEMMLER

Prerequisite: Zoölogy 15, and sophomore standing. Fee, \$3.50. 3 units.

M W F, lecture, 12-2; laboratory section 1, 9-12; section 2, 2-5.

S199B. Problems in Zoölogy.

The STAFF

Prerequisite: senior standing, with such special preparations as the problem may demand. Fee, \$5. 2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 20

S290B. Research in Zoölogy.

The STAFF

Prerequisite: graduate standing, with such special preparation as the problem may demand. 2-4 units.

Hours to be arranged.

DIRECTIONS

First Summer Session, June 21 to July 31

1. **On or before Wednesday, June 2**, if possible, file application with the office of the Provost, 242 Administration Building, 405 Hilgard Avenue, Los Angeles 24, California. This may be done by mail. See Application Form on page 147.
2. **Before Friday, June 11**, if possible, select lodgings in the vicinity of the campus (see page 25).
3. **Friday, June 18, and Saturday, June 19—Registration in the Men's Gymnasium.** (a) Register using the card provided for that purpose; (b) pay necessary fees,* file vaccination certificate, and (c) obtain *admission card* and registration forms. The *admission card* is to be shown on demand to the officers in charge at class meetings, at any time during the session. Students may register between 9:00 A.M. and 12:00 M.
4. *Regular class exercises will begin on Monday, June 21, at 8 A.M.*
5. **On or before Monday, June 28**, return your *registration form*, duly filled out, to the Registrar. Auditors as well as regular students are required to file *registration forms*.
6. **Tuesday, July 13**, last day to add or drop a course from the study card. Obtain proper petition blank from the Registrar.
7. **To obtain a transcript of record**, showing the courses taken in the session and the grade received in each, make application at the close of the session on the form to be obtained from the Registrar. A transcript will be mailed to you.
8. Students from out of the state will avoid much inconvenience by providing themselves with cashier's or traveler's checks.

* The tuition fee must be paid at the time of registration. Checks should not be mailed in advance.

DIRECTIONS

Second Summer Session, August 2 to September 11

1. On or before **Wednesday, July 14**, if possible, file application with the office of the Provost, 242 Administration Building, 405 Hilgard Avenue, Los Angeles 24, California. This may be done by mail. See Application Form on page 149.
2. Before **Friday, July 23**, if possible, select lodgings in the vicinity of the campus (see page 25).
3. **Saturday, July 31—Registration in the Men's Gymnasium.** (a) Register using the card provided for that purpose; (b) pay necessary fees,* file vaccination certificate, and (c) obtain *admission card* and registration forms. The *admission card* is to be shown on demand to the officers in charge at class meetings, at any time during the session. Students may register between 9:00 A.M. and 12:00 M.
4. *Regular class exercises will begin on Monday, August 2, at 8 A.M.*
5. On or before **Monday, August 9**, return your *registration form*, duly filled out, to the Registrar. Auditors as well as regular students are required to file *registration forms*.
6. **Tuesday, August 24**, last day to add or drop a course from the study card. Obtain proper petition blank from the Registrar.
7. To obtain a transcript of record, showing the courses taken in the session and the grade received in each, make application at the close of the session on the form to be obtained from the Registrar. A transcript will be mailed to you.
8. Students from out of the state will avoid much inconvenience by providing themselves with cashier's or traveler's checks.

* The tuition fee must be paid at the time of registration. Checks should not be mailed in advance.

CIRCULARS OF INFORMATION

For information concerning the colleges of the University of California, Los Angeles, write to the *Registrar, University of California, 405 Hilgard Avenue, Los Angeles 24, California*. For circulars of information concerning the several colleges and departments of the University elsewhere, please write to the *Registrar, University of California, Berkeley 4, California*, mentioning the department of study in which you are interested.

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If you are now in attendance in regular session at the University of California,
Los Angeles campus, check here:.....

University of California Summer Sessions attended, years.....

Do you plan to enter the University in a future regular semester?.....
(Yes or No)

If so, have you received from the University a written notice that you have
been accepted as a student?.....
(Yes or No)

Have you attended any other institution of collegiate grade?.....
(Yes or No)

If so, are you now eligible to return to that institution as a student in good
standing?..... What college?.....
(Yes or No)

Applicants of this classification may be requested to submit a complete list
of institutions attended since beginning high school.

(If you are planning to use the work of this Summer Session toward a bachelor's degree
in the University of California, Los Angeles, it is important that you submit official
credentials covering high school and collegiate studies to the Registrar, at least three
weeks before the opening of the session.)*

If you have never attended an institution of collegiate grade, are you a grad-
uate of a four-year high school course?.....
(Yes or No)

What high school?.....
(OVER)

* *Summer Sessions* students are not required to pay an application fee. However, every person seeking admission to *any regular* (fall or spring) *session* must send to the Registrar of the University, a fee of \$5.00 with the application for admission to any of those sessions. Veterans who expect to enroll under the provisions of Public Law 346 (the G. I. Bill of Rights), or Public Law 16, are not required to remit this fee. Remittance should be made payable to THE REGENTS OF THE UNIVERSITY OF CALIFORNIA.

UNIVERSITY OF CALIFORNIA—LOS ANGELES

I

APPLICATION FOR ADMISSION*

FIRST SUMMER SESSION, JUNE 21 to JULY 31, 1948

Applications should, if possible, be filed on or before June 2 in Room 242 Administration Building, 405 Hilgard Avenue, Los Angeles 24, California. They may be sent by mail.

Name (signed): (First given name) (Middle name) (Family name)

Present address:

Permanent P. O. address: (Number and Street)

..... (Town) (Zone) (State) (i.e., address at which you may be reached after the session)

Are you 21 years of age or over?..... Your age, if under 21:..... (Yes or No)

Occupation:

References:

..... (Names and addresses of school officers or others from whom information about you may be obtained)

Specify the summer courses in which you may desire to enroll—by department and number, e.g., Philosophy 1, English 114:

.....

..... (OVER)

*Before filling out Application Blank please read carefully

Courses in the Summer Sessions which are identical, or nearly so, with courses given during the regular sessions at Los Angeles are distinguished by the letter "S" prefixed to the regular number of the course.

The maximum program which a student in a Summer Session is permitted to carry for credit is six units; if a graduate course (numbered 200-299) is included, the maximum is four units. Exceptions to this rule may be made for graduate students only by permission of the Dean of the Graduate Division.

POSTMASTER: *Return within five days to the University of California, Berkeley 4, California. Return postage guaranteed.*

UNIVERSITY OF CALIFORNIA
SANTA BARBARA COLLEGE

S U M M E R
S E S S I O N S

First Session

June 21 to July 31, 1948

[Six Weeks]

Second Session

August 2 to September 11, 1948

[Six Weeks]

SANTA BARBARA, CALIFORNIA

UNIVERSITY OF CALIFORNIA
SANTA BARBARA COLLEGE

SUMMER SESSIONS

First Session

June 21 to July 31, 1948

(Six Weeks)

Second Session

August 2 to September 11, 1948

(Six Weeks)

SANTA BARBARA, CALIFORNIA

Published by

UNIVERSITY OF CALIFORNIA PRESS • BERKELEY AND LOS ANGELES

CALENDAR, 1948

First Summer Session

June 19, SaturdayRegistration
June 21, Monday.....Classes begin
July 30, Friday.....Last day of classes, final examinations
July 31, Saturday.....Close of First Summer Session

Second Summer Session

July 31, Saturday Registration
August 2, Monday.....Classes begin
September 10, Friday.....Last day of classes, final examinations
September 11, Saturday.....Close of Second Summer Session

THE UNIVERSITY OF CALIFORNIA

THE UNIVERSITY OF CALIFORNIA was founded in 1868 and is, by the terms of its charter, an integral part of the educational system of the State. It provides, for all qualified students, a college education without distinction of sex, creed, or race, and its instruction covers all the broad and essential fields of human knowledge, including the arts, the sciences, and literature. It also provides fundamental training for many of the professions.

Since its founding the University has grown steadily in size, in influence, and in opportunity. Today it carries on its activities on eight campuses—at Berkeley, Los Angeles, San Francisco, Davis, Mount Hamilton, La Jolla, Riverside, and Santa Barbara. In addition to its centers of resident instruction, the University of California maintains a state-wide extension service.

SUMMER SESSIONS OF 1948 IN SANTA BARBARA

The First Summer Session will begin Monday, June 21, 1948, and continue for six weeks until Saturday, July 31. The Second Summer Session will be held for six weeks, beginning Monday, August 2, and ending Saturday, September 11. The Summer Sessions on the Berkeley and Los Angeles campuses will have the same opening and closing dates.

Purpose of the Sessions—

The purpose of the Summer Sessions is to provide essential training for various types of students; to equip undergraduate students, teachers, school executives, nurses, homemakers, social workers, and other professional groups for improved service; and to assist returning servicemen and women to resume their educational programs.

Applications for Admission—

Persons who wish to attend either Summer Session should notify the Registrar, 1920 Lasuen Road, Santa Barbara, California, on or before Monday, June 7, using the form of application at the end of this bulletin. Compliance with this request will enable the College to make adequate preparation, and to inform prospective students promptly of any change in program.

Summer Sessions students who do not plan to enter subsequently the regular semesters of Santa Barbara College are not required to submit transcripts of record.

New students who plan to offer work taken in the Summer Sessions toward an undergraduate degree or credential at Santa Barbara College should file transcripts covering high school and collegiate work with the Registrar at least three weeks before the opening of the sessions. A fee of \$5 should accompany all such applications.†

† Veterans who expect to enroll under the provisions of Public Law 846 or 16 are not required to remit this fee at the time of application; if the applicant is accepted and registers in the University, the fee will be paid by the government.

Aid to Veterans—

Educational financial benefits are available to veterans under federal and state laws for attendance at the Summer Sessions. Veterans planning to attend either or both of the Summer Sessions under these laws, and who have not already made the necessary arrangements, should do so well in advance of the opening of the sessions.

An Office of Veterans Affairs has been established by the University to work out with returning servicemen and women the many educational irregularities resulting from war service, to maintain liaison in their behalf with the United States Veterans Administration, and to assist them in becoming assimilated into the life and spirit of the College. A special pamphlet giving helpful information for veterans may be obtained from this office.

Vaccination—

Students planning to attend the Summer Sessions, 1948, must file, at the time of registration, a certificate testifying to successful vaccination against small-pox within the last seven years. This form is furnished by the office of the Registrar, and must be signed by a licensed physician. A photostat of an original certificate is acceptable. Students in attendance at Santa Barbara College throughout the spring semester, 1948, or veterans of World War II who present evidence of service in the armed forces of the United States are not required to furnish this certificate.

Admission Requirements—

Attendants of the Summer Sessions are divided into two broad classifications:

Auditors. Any adult is permitted to attend the regular exercises of the sessions as an auditor upon filing an application and paying the regular tuition fee of \$42. An auditor does not participate in recitations, does not take examinations, and therefore does not receive credit. In general, an auditor will not be admitted to the laboratory sections of any courses, nor to activity courses in physical education.

Students. (1) Persons under twenty-one years of age. Admission will be granted to persons under twenty-one years who are graduates of secondary schools.

(2) Persons more than twenty-one years of age. The College does not attempt, in general, to make inquiry concerning the educational qualifications of applicants for admission to the Summer Sessions who are more than twenty-one years of age, unless they are working for a degree or credential.

Registration Dates—

Registration of students for Summer Sessions will be conducted at Santa Barbara College on Saturday, June 19, and Saturday, July 31.

Students who find it impossible to register for the Summer Sessions on the opening days may register as late as the second Monday of either session, but such students may enroll in the courses desired only if, in the opinion of the instructor, they can make up satisfactorily the work already done by the class.

Fees—

The tuition fee, irrespective of the number of courses taken, is \$42 for either six-week session, for both residents and nonresidents of California. This fee must be paid at the time of registration, *not in advance*. Payment of fees by cash is preferred. If checks are presented they must not exceed the total amount of fees to be paid. In certain courses laboratory fees are charged, each of which is stated in the description of the course. These are due and payable during the third week of each session, after which they become delinquent, and are not refundable. (See also student social program fee, page 8.)

Refunds of the tuition fee because of withdrawal are made *only* after the withdrawal has been completed and cleared through the Registrar, and when the reasons for withdrawal are satisfactory and permitted by regulation. If the withdrawal is cleared during the first week, a refund of not more than \$34 may be granted; during the second week, \$22; during the third week, \$12.50. After the third week no refund is made. Any student who is obliged to request a refund must do so *at the time of his petition for withdrawal* and should, *at that time*, obtain a clearance statement from the Registrar.

Classification and Numbering of Courses—

(1) *Lower Division Courses* (numbered 1-99). Lower division courses are open to freshmen and sophomores and do not ordinarily count as upper division work in any department.

(2) *Upper Division Courses* (numbered 100-199). An upper division course is an advanced study of a subject that has been pursued in the lower division, or an elementary course in a subject of sufficient difficulty to require the maturity of upper division students. Students should not enroll in upper division courses unless they have completed the prerequisites, or until they have attained junior standing. Accepted professional training, however, is regarded as sufficient preparation for upper division courses in the field in which the student has been trained.

Credit—

In general, credit will be given at the rate of one unit for not less than fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two (2) units.

The maximum amount of credit obtainable during the six weeks of a summer session by a student who devotes his entire time to courses of strictly

university level is six units. Students who are registered for credit may audit such courses as they choose.

Students from other institutions should find out from their own registrars whether or not courses taken in a summer session of Santa Barbara College will fulfill specific requirements.

Acceptance of a particular course toward any college degree is subject to the approval of the department concerned.

Other Requirements Concerning Credit—

A student who applies for credit in a course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the *close of the session* in which he is enrolled. Furthermore, he will be required to hand in all his work by that time, in order that the instructor may make his report. Students are not authorized to continue any part of the work beyond the close of the session. No provision is made for reëxamination or supplementary work for the removal of deficiencies.

Scholarship Grades—

The final result of the work of students in every course will be reported to the Registrar in the same grades* used in the fall and spring semesters.

Transcripts of record for Summer Sessions work will be issued by the Registrar, upon application, to any student in the sessions; and personal recommendations from instructors may be obtained by school officers and others through the Placement Bureau.

Changes in Study Programs—

Changes in study programs may be made not later than Monday, June 28, for the First Summer Session, or Monday, August 9, for the Second Summer Session. After these dates all revisions must be made only by written petition filed with the Registrar.

Final Examinations—

By a general rule, final examinations must be held in all courses unless other provisions are authorized. Usually the final examination takes the place of the last scheduled period for each course.

When a course requires a final examination, there can be no individual exemption from it. A student who fails to pass the examination does not receive credit for the course. *Special examinations and reëxaminations in summer courses are not permitted.*

* Grades: A, excellent; B, good; C, fair; D, barely passing; E, incomplete; F, failure. Note.—No grade of E is given in any Summer Sessions course.

Grade points or quality units will be assigned as follows: grade A, three points for each unit; B, two points for each unit; C, one point for each unit; D and F, no points.

Teacher Placement—

The Director of the Placement Bureau will keep daily office hours during the Summer Sessions in the Administration Building. Those desiring positions in elementary schools, junior high schools, high schools, and colleges should register in this office.

Registrants for all positions must pay at the office of the Business Manager a fee of \$5 to cover the cost of clerical work. This fee also entitles registrants to the services of the Offices of the Teacher Placement Executive on the Berkeley and Los Angeles campuses.

The Bureau may more effectively aid superintendents and principals if notified in advance of the specific requirements of positions and the hours at which appointments are desired.

Living Accommodations and Expenses—

Postwar conditions have made housing a difficult problem. If possible, students should find accommodations with relatives or friends. Room and board in privately owned boardinghouses and in sorority houses consists of room and two meals per day for six days a week and one or two meals on Sundays. The cost ranges from \$90 to \$100 for the six weeks. Coöperative living, in coöperative houses, costs from \$60 to \$75. Rooms in private homes are priced from \$40 to \$60 for one session. Breakfast and a substantial noon meal may be obtained during the week in the College cafeteria at very reasonable rates. Application for housing should be made as soon as possible. It may be directed to the Housing Supervisor. Final arrangements are made between the student and the householder. Students under 21 and unmarried are required to live in housing approved by the College. Lodgings to be approved and not already on the College list must be inspected.

The following table will help the student to estimate the expense of attending one six-week summer session :

University tuition fee.....	\$ 42—\$ 42.00
Laboratory fees (according to courses taken).....	0— 6.00
Social program fee (customary).....	0— 2.00
Room and board.....	90— 100.00
Textbooks and stationery.....	5— 15.00
	<hr/>
	\$137—\$165.00

The College bookstore, maintained on the campus, carries textbooks for Summer Sessions courses, stationery, and other supplies.

The Library—

The Library, situated on the second floor of the Administration Building, contains a collection of 42,000 carefully selected books, pamphlets, and current

periodicals. It includes well-balanced reference, professional, literary, and technical material which meets the fundamental requirements of all departments.

The Library also houses a special collection of 9,000 books, pamphlets, and magazines, the gift of William Wyles, relating to Lincoln, the Civil War, and the Reconstruction Period.

Library hours will be announced at the beginning of the Summer Sessions.

The Social Program—

The usual outstanding social program is being planned for the Summer Sessions, the cost of which is covered by the customary fee of \$2 collected by the Associated Students at the time of registration for each session. This program includes special lectures, assemblies, motion pictures, picnics, dances, and other recreation.

Summer Schools for Children—

The *Demonstration School* will be in session daily from 9 A.M. until 12 M. from June 22 through July 30. It embraces the kindergarten and grades one to six, inclusive. Opportunity to observe the various groups will be provided for students enrolled in related courses. Other students may, on presentation of registration receipts, visit the groups at stated times to be announced during the Summer Sessions. Nonregistrants of the Summer Sessions may obtain single admission tickets for 50 cents at the Business Office of the College or at the School.

The program is designed to illustrate the best practices in kindergarten, primary, and intermediate procedure, and to show how remedial work may be carried on by the regular classroom teacher under normal conditions.

Preliminary enrollment of children in the *Demonstration School* should be obtained in advance by application to the Chairman of the Department of Education-Psychology. Applications for enrollment will be received until June 15. Final enrollment of applicants will take place at Oak Hall, Riviera Campus, Saturday, June 19, from 2:30 P.M. to 4:30 P.M. The fee for the six weeks of the School is \$20 for each pupil in the kindergarten, first, and second grades, and \$15 for each pupil in the third, fourth, fifth, and sixth grades. The fee should be paid at the time of final enrollment on registration day. Checks should be made payable to the Regents of the University of California. The number of children enrolled in each grade is necessarily limited. Children in each grade will be accepted in order of registration on June 19, until the assigned limit for that grade has been reached.

A *Clinical School* for individuals of normal intelligence will be conducted during the First Summer Session to serve the needs of elementary school children whose difficulties with one or more of the regular school subjects are serious, of junior and senior high school pupils with any degree of difficulty

calling for special attention, and of college students who are failing because of certain limitations of aptitude or unsuccessful techniques of study.

A special division of the Clinical School will deal with children having defects of speech and hearing. All children in the general clinic will have their speech and hearing evaluated.

Diagnostic tests will be given to each registrant admitted to the Clinical School, followed by the remedial instruction needed. The work will begin Monday, June 21, and will continue for six weeks, Mondays through Fridays, from 9 A.M. to 12 M.

Applications for enrollment should be addressed to the Chairman of the Department of Education-Psychology. The fee of \$40 is payable on registration day, Saturday, June 19, from 2:30 to 4:30 P.M., Oak Hall, Riviera Campus. Checks should be made payable to the Regents of the University of California. Since the number of students who can be accepted for each group is limited, applications will be considered in the order in which they are received; but the right is reserved to limit admission to those for whom the Clinical School has adequate facilities.

Information—

Information concerning the Berkeley, Los Angeles, and Santa Barbara Summer Sessions of the University of California may be obtained at the office of the Summer Sessions, Administration Building, 1920 Lasuen Road, Santa Barbara, California (Telephone: 7136).

THE UNIVERSITY OF CALIFORNIA

GENERAL ADMINISTRATIVE OFFICERS

- ROBERT GORDON SPROUL, B.S., LL.D., Litt.D., President of the University.
MONROE E. DEUTSCH, Ph.D., LL.D., Vice-President and Provost of the University, Emeritus.
CLAUDE B. HUTCHISON, M.S., LL.D., D.Agr. (hon.c.), Vice-President of the University and Dean of the College of Agriculture.
CLARENCE A. DYKSTRA, A.B., L.H.D., LL.D., Litt.D., Provost of the University.
ROBERT M. UNDERHILL, B.S., Secretary and Treasurer of the Regents.
JAMES H. CORLEY, B.S., Comptroller (General Business Manager).
HERMAN A. SPINDT, Ph.D., University Admissions Director.
HIRAM W. EDWARDS, Ph.D., Director of Relations with Schools.
ROBERT W. WEBB, Ph.D., University Coördinator of Veterans Affairs.

ADMINISTRATIVE OFFICERS AT SANTA BARBARA COLLEGE

- J. HAROLD WILLIAMS, Ph.D., Acting Provost.
WILLIAM ASHWORTH, M.A., Dean, Lower Division.
IRVING A. MATHER, Ph.D., Curriculum Coördinator.
LESTER B. SANDS, Ed.D., Registrar.
PAUL A. JONES, Ed.D., Dean of Men.
HELEN E. SWEET, Ph.D., Dean of Women.
DONALD C. DAVIDSON, Ph.D., Librarian.
LAWRENCE E. CHENOWETH, A.B., Placement Director.
C. DOUGLAS WOODHOUSE, LL.M., Coördinator of Veterans Affairs.
J. A. DUANE MUNOY, Business Manager.
WILFRED T. ROBBINS, M.D., Director of Student Health Service.
VELMA MORRELL, M.A., Housing Supervisor.

SUMMER SESSIONS

MEMBERS OF THE FACULTY

- HENRY M. ADAMS, Ph.D.....Assistant Professor of History
A.B., Lehigh University, 1930; A.M., University of Southern California,
1934; Ph.D., Stanford University, 1937. At Santa Barbara College since
1947.
- WILLIAM F. AGGELER, Ph.D.....Assistant Professor of French
B.S., California Institute of Technology, 1925; M.A., University of California
(Berkeley), 1932; Ph.D., 1939. At Santa Barbara College since 1940.
- WILLIAM D. ALTUS, Ph.D.....Associate Professor of Psychology
A.B., B.S., Kansas State College of Emporia, 1930; M.A., 1932; Ph.D., New
York University, 1941. At Santa Barbara College since 1941.

- PABLO AVILA, Ph.D.**.....Assistant Professor of Spanish
A.B., Stanford University, 1931; M.A., 1932; Ph.D., 1937. At Santa Barbara College since 1946.
- KURT BAER, Ph.D.**.....Associate Professor of Art
A.B., University of California (Berkeley), 1925; M.A., 1926; Ph.D., University of Southern California, 1936. At Santa Barbara College since 1947.
- HELEN M. BARNETT, M.A.**.....Associate Professor of Music
A.B., University of California (Berkeley), 1928; M.A., University of Southern California, 1932. At Santa Barbara College since 1921.
- ALMA P. BEAVER, Ph.D.**.....Associate Professor of Psychology
A.B., University of California (Berkeley), 1926; M.A., Columbia University, 1928; Ph.D., 1932. At Santa Barbara College since 1941.
- VIRGIL L. BERGMAN, M.A.**.....Lecturer in Speech
B.S., Northwestern University, 1934; M.A., Stanford University, 1942. At Santa Barbara College since 1946.
- ERNEST L. BICKERDIKE, Ph.D.**.....Associate Professor of Chemistry
A.B., University of Southern California, 1930; M.A., 1932; Ph.D., 1937. At Santa Barbara College since 1938.
- CHARLOTTE E. BIESTER, M.A.**.....Professor of Home Economics
A.B., University of Illinois, 1921; M.A., Columbia University, 1939. At Santa Barbara College since 1941.
- LEONARD L. BOWMAN, Ed.D.**.....Vice-Principal, Santa Barbara High School
A.B., Kansas State Teachers College (Emporia), 1921; M.A., Stanford University, 1928; Ed.D., 1943.
- ALICE V. BRADLEY, M.A.**.....Professor of Home Economics
B.S., University of Wisconsin, 1915; M.A., Whittier College, 1933. At Santa Barbara College since 1918.
- LLOYD BROWNING, B.Mus.**.....Assistant Professor of Music
B.Mus., Chicago Musical College, 1924. At Santa Barbara College since 1939.
- A. RUSSELL BUCHANAN, Ph.D.**.....Associate Professor of History
A.B., Stanford University, 1927; M.A., 1928; Ph.D., 1935. At Santa Barbara College since 1938.
- WALTER BUCHANAN, Ph.D.**.....Assistant Professor of Music
A.B., Maryville College, 1928; B.Mus., Ithaca College, 1932; M.Mus., University of Michigan, 1937; Ph.D., 1946. At Santa Barbara College since 1946.
- CATHERINE C. CAMPBELL, M.A.**.....Assistant Professor of Art
B.E., University of California (Los Angeles), 1934; M.A., Claremont Colleges, 1943. At Santa Barbara College since 1944.
- ERNEST N. CARTER, A.B.**.....Instructor in Physical Education
A.B., Occidental College, 1927. At Santa Barbara College since 1934.
- CONSTANCE M. CHANDLER, Ph.D.**.....Coördinator of Research and Guidance,
Ventura County Schools
A.B., Scripps College, 1931; M.A., Claremont Colleges, 1933; Ph.D., University of Southern California, 1933.

- LAWRENCE E. CHENOWETH, A.B.....Professor of Education
A.B., State Teachers College of Santa Barbara, 1930. At Santa Barbara
College since 1940.
- VAN A. CHRISTY, Ph.D.....Professor of Music
B.S., University of Missouri, 1926; M.A., Columbia University, 1931; Ph.D.,
1940. At Santa Barbara College since 1939.
- JERRY H. CLARK, Ph.D.....Manager, Veterans Administration
Guidance Center, Santa Barbara
A.B., Southern Methodist University, 1933; M.A., 1936; Ph.D., University
of Texas, 1948.
- DEMAREST DAVENPORT, Ph.D.....Assistant Professor of Zoölogy
A.B., Harvard University, 1933; M.A., Colorado College, 1934; Ph.D.,
Harvard University, 1937. At Santa Barbara College since 1946.
- TERRY H. DEARBORN, A.B.....Assistant Professor of Physical Education
A.B., Stanford University, 1934. At Santa Barbara College since 1940.
- GLENN W. DURFLINGER, Ed.D.....Assistant Professor of Education
A.B., Colorado State College of Education, 1926; M.A., 1931; Ed.D., Uni-
versity of Oregon, 1941. At Santa Barbara College since 1941.
- THEODORE S. ELLENWOOD, A.B.....Instructor in Industrial Arts
A.B., San Jose State College, 1934. At Santa Barbara College since 1946.
- WILLIAM H. ELLISON, Ph.D.....Professor of History
A.B., Randolph-Macon College, 1904; University of California (Berkeley),
1913; Ph.D., 1919. At Santa Barbara College since 1924.
- EMANUEL E. ERICSON, M.A.....Professor of Industrial Arts
B.S., Stout Institute, 1919; M.A. in Educ., University of Southern Califor-
nia, 1932. At Santa Barbara College since 1925.
- CHARLES G. FALLIS, Ph.D.....Assistant Professor of Spanish and German
A.B., University of California (Berkeley), 1924; M.A., 1926; Ph.D., 1940.
At Santa Barbara College since 1945.
- MAURICE E. FAULKNER, M.A.....Associate Professor of Music
B.S., Fort Hays Kansas State College, 1932; M.A., Columbia University,
1936. At Santa Barbara College since 1940.
- JOSEPH FOLADARE, Ph.D.....Associate Professor of English
B.S., California Institute of Technology, 1930; M.A., Claremont Colleges,
1931; Ph.D., Yale University, 1936. At Santa Barbara College since 1940.
- WALTER B. FORD, B.E.....Teacher, Los Angeles City Schools
B.E., State Teachers College of Santa Barbara, 1931.
- NORMAN E. GABEL, Ph.D.....Assistant Professor of Anthropology
A.B., University of Michigan, 1928; M.A., University of Arizona, 1931;
Ph.D., Harvard University, 1941. At Santa Barbara College since 1947.
- HARRY GIRVETZ, Ph.D.....Associate Professor of Sociology
A.B., Stanford University, 1931; M.A., 1933; Ph.D., University of Cali-
fornia (Berkeley), 1937. At Santa Barbara College since 1937.
- STEPHEN S. GOODSPEED, Ph.D.....Instructor in Political Science
A.B., University of California (Berkeley), 1936; Ph.D., 1947. At Santa
Barbara College since 1947.

- FRED L. GRIFFIN, A.B.**.....Assistant Professor of Industrial Arts
A.B., State Teachers College of Santa Barbara, 1927. At Santa Barbara
College since 1924.
- KARL A. GROSSENBACHER, Ph.D.**.....Assistant Professor of Botany
Ph.B., University of Wisconsin, 1933; Ph.D., University of California
(Berkeley), 1939. At Santa Barbara College since 1946.
- LEONARD H. HALL, Ph.D.**.....Instructor in Physics
A.B., University of California (Los Angeles), 1938; Ph.D., Brown Univer-
sity, 1947. At Santa Barbara College since 1947.
- J. FREDERICK HALTERMAN, Ph.D.**.....Professor of Economics
B.S., University of California (Berkeley), 1929; M.S., 1930; Ph.D., 1935.
At Santa Barbara College since 1936.
- JACOB L. HANSEN, M.A.**.....Assistant Professor of Art
A.B., Santa Barbara State College, 1941; M.A., Claremont Colleges, 1944.
At Santa Barbara College since 1939.
- THEODORE HATLEN, M.A.**.....Assistant Professor of Speech
A.B., University of Redlands, 1934; M.A., Cornell University, 1935. At
Santa Barbara College since 1945.
- H. KLYNE HEADLEY, M.Mus.**.....Associate Professor of Music
B.Mus., College of the Pacific, 1928; M.Mus., Eastman School of Music,
1937. At Santa Barbara College since 1939.
- RALPH W. HEYWOOD, M.A.**..Employment Coördinator, Los Angeles City Schools
B.S. in Educ., University of Southern California, 1927; M.A. in Educ., 1934.
- JEAN L. HODGKINS, M.A.**.....Assistant Professor of Physical Education
B.E., University of California (Los Angeles), 1936; M.A., Columbia Uni-
versity, 1937. At Santa Barbara College since 1946.
- BETTY H. IRISH, M.A.**.....Lecturer in Education
A.B., Arizona State College (Flagstaff), 1937; M.A., 1938. At Santa Bar-
bara College since 1947.
- WILLIAM M. IRVINE**.....Assistant in Physical Education
At Santa Barbara College since 1945.
- CHARLES L. JACOBS, Ph.D.**.....Professor of Education
A.B., Columbia University, 1905; M.A., Stanford University, 1912; Ph.D.,
Columbia University, 1927. At Santa Barbara College since 1921.
- CLYDE KEENER, A.B.**.....Instructor in Industrial Arts
A.B., Santa Barbara College, 1943. At Santa Barbara College since 1941.
- MAYVILLE S. KELLIHER, A.B.**.....Instructor in Physical Education
A.B., Santa Barbara State College, 1934. At Santa Barbara College since
1947.
- EVELYN P. KENESSON, Ph.D.**.....Assistant Professor of Speech
A.B., University of Texas, 1936; M.A., University of Michigan, 1941; Ph.D.,
1945. At Santa Barbara College since 1947.
- WILLIAM F. KENNEDY, Ph.D.**.....Assistant Professor of Economics
A.B., Columbia University, 1933; M.A., 1936; Ph.D., University of Wis-
consin, 1941. At Santa Barbara College since 1946.

- EDITH M. LEONARD, M.A.**.....Professor of Education
B.E., National College of Education, 1924; M.A., Claremont Colleges, 1930.
At Santa Barbara College since 1925.
- FLORENCE W. LYANS, M.A.**.....Assistant Professor of Industrial Arts
A.B., State Teachers College of Santa Barbara, 1927; M.A., University of
Oregon, 1936. At Santa Barbara College since 1923.
- ROBERT A. MCCOY, M.Ed.**.....Instructor in Industrial Arts
B.S., Bowling Green State University, 1933; M.Ed., University of Colorado,
1946. At Santa Barbara College since 1947.
- CHARLES A. MCMILLAN, Ed.D.**.....Teacher, Oakland City Schools
A.B., University of California (Berkeley), 1942; M.A., 1944; Ed.D., 1947.
- BESSIE MCNIEL, Ph.D.**...Professor of Home Economics, University of Alabama
A.B., Cornell College, 1923; M.S., Iowa State College, 1939; Ph.D., State
University of Iowa, 1943.
- WILLARD L. MCRARY, Ph.D.**.....Assistant Professor of Chemistry
B.S., California Institute of Technology, 1936; M.S., 1938; Ph.D., 1940.
At Santa Barbara College since 1940.
- ROSCOE C. MAIN, M.D.**.....Instructor in Zoölogy
B.S., University of Illinois, 1906; M.A., 1907; M.D., Rush Medical College,
1912. At Santa Barbara College since 1947.
- RUTH MAJOR, Ph.D.**.....Assistant Professor of Home Economics
A.B., University of Nebraska, 1934; M.S., University of Minnesota, 1939.
Ph.D., Washington State College, 1947. At Santa Barbara College since
1947.
- IRVING A. MATHER, Ph.D.**.....Professor of Education
B.S., Oregon State College, 1920; M.S., University of Oregon, 1930; Ph.D.,
1933. At Santa Barbara College since 1937.
- J. CHESLEY MATHEWS, Ph.D.**.....Assistant Professor of English
A.B., Furman University, 1927; M.A., Duke University, 1929; Ph.D., Uni-
versity of California (Berkeley), 1937. At Santa Barbara College since
1944.
- JAMES MERRIN, M.A.**.....Lecturer in English (Los Angeles)
A.B., Southwestern College, 1937; M.A., University of Chicago, 1940.
- EVELYN METZGER**.....Assistant Professor of Home Economics,
University of Nebraska
- HAROLD J. MILLER, M.S.**.....Assistant Professor of Industrial Arts
B.S., University of Illinois, 1931; M.S., Indiana University, 1938. At Santa
Barbara College since 1946.
- LYNNE C. MONROE, Ed.D.**.....Associate Professor of Industrial Arts
B.S., Kansas State Teachers College (Pittsburg), 1928; M.S., Iowa State
College, 1932; Ed.D., University of Missouri, 1939. At Santa Barbara
College since 1939.
- ELEANOR MORRISSEY, M.A.**.....Instructor in Art
A.B., Santa Barbara State College, 1944; M.A., Mills College, 1947. At
Santa Barbara College since 1944.

- CORNELIUS H. MULLER, Ph.D.**.....Assistant Professor of Botany
A.B., University of Texas, 1932; M.A., 1933; Ph.D., University of Illinois,
1938. At Santa Barbara College since 1945.
- RALPH K. NAIR, M.S.**.....Assistant Professor of Industrial Arts
B.S., Kansas State Teachers College (Pittsburg), 1935; M.S., 1939. At
Santa Barbara College since 1941.
- GWYNNE NETTLER, Ph.D.**.....Assistant Professor of Sociology
A.B., University of California (Los Angeles), 1934; M.A., Claremont Col-
leges, 1936; Ph.D., Stanford University, 1945. At Santa Barbara College
since 1946.
- H. EDWARD NETTLES, Ph.D.**.....Professor of History
B.S. in Educ., University of Missouri, 1920; M.A., 1923; Ph.D., Cornell
University, 1928. At Santa Barbara College since 1930.
- ELMER R. NOBLE, Ph.D.**.....Associate Professor of Zoölogy
A.B., University of California (Berkeley), 1931; M.A., 1933; Ph.D., 1936.
At Santa Barbara College since 1936.
- JOHN M. O'GORMAN, Ph.D.**.....Assistant Professor of Chemistry
B.S., University of California (Berkeley), 1941; M.S., California Institute
of Technology, 1942; Ph.D., 1946. At Santa Barbara College since 1946.
- DONALD W. PETERS, M.A.**.....Lecturer in Foreign Languages
A.B., University of Oklahoma, 1940; M.A., 1947. At Santa Barbara College
since 1947.
- ELSIE A. POND, M.A.**.....Associate Professor of Education
A.B., Stanford University, 1919; M.A., 1920. At Santa Barbara College
since 1924.
- EVA J. PROULX, M.A.**.....Instructor in French
A.B., University of Paris, 1936; M.A., Columbia University, 1939. At Santa
Barbara College since 1945.
- EDA RAMELLI, M.A.**.....Professor of French
A.B., University of California (Berkeley), 1913; M.A., Stanford Univer-
sity, 1926. At Santa Barbara College since 1923.
- ANDRES R. RAMON, LL.M.**.....Lecturer in Spanish
A.B., Institute General y Técnico, Almería, Spain, 1912; LL.M., University
of Granada, Spain, 1919. At Santa Barbara College since 1946.
- STANLEY L. RAUCH, Ph.D.**.....Assistant Professor of Mathematics
A.B., Reed College, 1937; M.S., University of Washington, 1939; Ph.D.,
Stanford University, 1941. At Santa Barbara College since 1941.
- LESTER B. SANDS, Ed.D.**.....Associate Professor of Education
A.B., Stanford University, 1929; M.A., 1933; Ed.D., 1939. At Santa Bar-
bara College since 1946.
- JOSEPH J. SAYOVITZ, M.S.**.....Instructor in Industrial Arts
B.S., Minnesota State Teachers College (St. Cloud), 1941; M.S., Iowa State
College, 1947. At Santa Barbara College since 1947.

- ARTHUR O. SCHRICKEE, M.A.**.....Instructor in Industrial Arts
B.S., Teachers College of Connecticut, 1945; M.A., New York University,
1947. At Santa Barbara College since 1947.
- HAZEL W. SEVERY, M.A., D.Sci.O.**.....Professor of Chemistry
A.B., Stanford University, 1907; M.A., 1921, D.Sci.O., Osteopathic College
of Physicians and Surgeons, 1914. At Santa Barbara College since 1914.
- MARK SCHOREE, Ph.D.**.....Professor of English (Berkeley)
A.B., University of Wisconsin, 1929; M.A., Harvard University, 1930;
Ph.D., University of Wisconsin, 1936.
- KENNETH M. SIMPSON, Ph.D.**.....Assistant Professor of Physics
B.S., Lehigh University, 1929; M.A., University of California, (Berkeley)
1937; Ph.D., 1940. At Santa Barbara College since 1946.
- FRANCES M. SPIKE, M.S.**.....Lecturer in Home Economics
B.S., Oregon State College, 1925; M.S., 1936. At Santa Barbara College
since 1942.
- SAIDEE E. STARK, Ph.D.**...Instructor in Home Economics, Sacramento College
B.S., University of Wisconsin, 1913; M.A., University of California (Berke-
ley), 1916; Ph.D., Columbia University, 1931.
- EVERLYN E. STOUT, M.S.**.....Instructor in Home Economics,
Washington State College
B.S., Kansas State College (Manhattan), 1938; M.S., 1941.
- DOUWE STUURMAN, B.Litt.**.....Assistant Professor of English
A.B., Calvin College, 1931; M.A., University of Oregon, 1933; B.Litt.,
Oxford University, 1936. At Santa Barbara College since 1941.
- LOUIE S. TAYLOR, M.A.**.....Assistant Professor of Industrial Arts
A.B., State Teachers College of Santa Barbara, 1934; M.A., Claremont Col-
leges, 1939. At Santa Barbara College since 1934.
- DOROTHY D. VANDEMAN, M.A.**.....Assistant Professor of Education
A.B., Whittier College, 1931; M.A., Claremont Colleges, 1934. At Santa Bar-
bara College since 1940.
- LEWIS F. WALTON, Ph.D.**.....Assistant Professor of Mathematics
B.S., Emory University, 1929; M.S., 1931; Ph.D., University of California
(Berkeley), 1940. At Santa Barbara College since 1946.
- HARRINGTON WELLS, M.A.**.....Associate Professor of Science Education
A.B., Stanford University, 1923; M.A., 1924. At Santa Barbara College since
1929.
- PATRICIA H. WHITAKER, M.A.**.....Instructor in Physical Education
B.S., University of California (Los Angeles), 1943; M.A., Mills College,
1944. At Santa Barbara College since 1946.
- STANLEY L. WILLIAMSON, B.S.**...Associate Professor of Physical Education
B.S., University of Southern California, 1933. At Santa Barbara College
since 1941.
- LAWRENCE WILLSON, Ph.D.**.....Assistant Professor of English
A.B., Wesleyan University, 1934; A.M., Yale University, 1942; Ph.D., 1944.
At Santa Barbara College since 1947.

- CLAYTON H. WILSON, JR., M.Mus.**.....Assistant Professor of Music
B.Mus.Ed., Northwestern University, 1941; M.Mus., 1942. At Santa Barbara
College since 1947.
- WILTON M. WILTON, M.A.**.....Instructor in Physical Education
A.B., Santa Barbara State College, 1936; M.A., Claremont Colleges, 1947.
At Santa Barbara College since 1936.
- CARL W. WIRTHS, A.B.**.....Teacher, Los Angeles City Schools
A.B., State Teachers College of Santa Barbara, 1926.
- SAMUEL A. WOFSEY, Ph.D.**.....Instructor in Spanish
LL.B., Washington and Lee University, 1916; A.B., University of Wisconsin,
1922; M.A., 1923; Ph.D., 1927. At Santa Barbara College since 1946.
- C. DOUGLAS WOODHOUSE, LL.M.**.....Lecturer in Mineralogy
A.B., Williams College, 1910; LL.B., Columbia University, 1913; LL.M.,
University of California (Berkeley), 1925. At Santa Barbara College since
1938.
- JAMES MILFORD ZORNES**.....Instructor in Art, Pomona College

COURSES OF INSTRUCTION*

SUMMER SESSIONS, 1948



ART

KURT BAER, Ph.D., Associate Professor of Art.
CATHERINE C. CAMPBELL, M.A., Assistant Professor of Art.
JACOB L. HANSEN, M.A., Assistant Professor of Art.
ELEANOR E. MORRISSEY, M.A., Instructor in Art.
JAMES MILFORD ZORNES, Instructor in Art, Pomona College.

First Summer Session Courses (June 21 to July 31, 1948)

11. **Water-Color Painting.** (2) Mr. ZORNES
Prerequisite: Art 1, 10A, 10B.
Study of form through the medium of water color. Experimentation in techniques and individual interpretation of subject matter. Painting still-life compositions. Fee, \$2.
16. **The Understanding of Art.** (2) Mr. BAER
A survey of the art expressions of the Occident and the Orient from prehistoric to modern times. For non-majors.
- 18A. **Art Appreciation.** (2) Mr. HANSEN
The historic and aesthetic development of painting, sculpture, and architecture. Prehistoric to Renaissance.
106. **Elementary Art Techniques.** (2) Mr. BAER
Actual methods, laboratory practice, and observation used to introduce the student to the essentials of art as taught in the elementary schools. Fee, \$2.
- 116A. **Pictorial Composition.** (2) Mr. ZORNES
Prerequisite: Art 10A, 10B, 11.
Theory and analysis of compositional structure and its application to pictorial problems. Fee, \$2.
- 123A. **Ceramics.** (2) Mr. HANSEN
Prerequisite: Art 1.
Composition of clays and glazes; making and decorating by hand, tiles and forms from original designs; casting, pouring, and turning of pieces; practice in using the kiln for bisque and glaze firing. Fee, \$2.

* Note.—The unit value of each course is indicated by a number in parentheses immediately following the title of the course.

Second Summer Session Courses
(August 2 to September 11, 1948)

1. Color and Design. (2)

Mrs. CAMPBELL

Fundamentals of color and design, with emphasis upon the relationship of principles of art to present-day living. Fee, \$2.

10A. Freehand Drawing. (2)

Mrs. MORRISSEY

Principles of perspective, form, dark and light value, and pencil technique. Fee, \$2.

11. Water-Color Painting. (2)

Mrs. CAMPBELL

Prerequisite: Art 1, 10A, 10B.

Study of form through the medium of water color. Experimentation in techniques and individual interpretation of subject matter. Painting still-life composition. Fee, \$2.

16. The Understanding of Art. (2)

Mrs. MORRISSEY

A survey of the art expressions of the Occident and the Orient from pre-historic to modern times. For non-majors.

BIOLOGICAL SCIENCES

DEMAREST DAVENPORT, Ph.D., Assistant Professor of Zoölogy.

KARL A. GROSSENBACHER, Ph.D., Assistant Professor of Botany.

ROSCOE C. MAIN, M.D., Instructor in Zoölogy.

CORNELIUS H. MULLER, Ph.D., Assistant Professor of Botany.

ELMER R. NOBLE, Ph.D., Associate Professor of Zoölogy.

HARRINGTON WELLS, M.A., Associate Professor of Science Education.

First Summer Session Courses

(June 21 to July 31, 1948)

BIOLOGY

1. Educational Biology. (2)

Mr. WELLS

An introductory survey course, open to all students. Lectures, museum studies, field and laboratory work providing basic training in life sciences. Fee, \$2.

4. Microtechnique. (2)

Mr. NOBLE

Prerequisite: an introductory course in biology. Elementary chemistry is recommended. Not open to freshmen. Fee, \$2.

10. Elementary Human Physiology. (3)

Mr. NOBLE

The basic concepts and principles of biology as applied to man. Structure and functions of the organ systems. Fee, \$3.

130. Genetics. (3)

Prerequisite: an elementary course in biological science, and high school algebra. Principles and application of the laws of heredity.

BOTANY

1A. General Botany. (4)

Mr. MULLER

Fundamental facts and principles of the botanical sciences. Lectures and laboratory. Fee, \$4.

Second Summer Session Courses

(August 2 to September 11, 1948)

BIOLOGY

5. Marine Biology. (4)

Mr. DAVENPORT

The study of salt water organisms, particularly those found along California beaches at low tide; methods of collection and preservation. Fee, \$4.

180. Public Health. (3)

Mr. MAIN

Prerequisite: one year of biological science.

The principles of community well-being with emphasis on preventive methods in disease control; history, economics, and administration of health service.

BOTANY

1B. General Botany. (4)

Mr. GROSSENBACHER

Fundamental facts and principles of the botanical sciences. Lectures and laboratory. Fee, \$4.

EDUCATION-PSYCHOLOGY

- WILLIAM D. ALTUS, Ph.D., Associate Professor of Psychology.
 ALMA P. BEAVER, Ph.D., Associate Professor of Psychology.
 LEONARD L. BOWMAN, Ed.D., Vice-Principal, Santa Barbara High School.
 CONSTANCE M. CHANDLER, Ph.D., Coördinator of Research and Guidance,
 Ventura County Schools.
 LAWRENCE E. CHENOWETH, A.B., Professor of Education.
 JERRY H. CLARK, Ph.D., Manager, Veterans Administration Guidance Center,
 Santa Barbara.
 GLENN W. DURFLINGER, Ed.D., Assistant Professor of Education.
 BETTY H. IRISH, M.A., Lecturer in Education.
 CHARLES L. JACOBS, Ph.D., Professor of Education.
 EDITH M. LEONARD, M.A., Professor of Education.
 IRVING A. MATHER, Ph.D., Professor of Education.
 ELSIE A. POND, M.A., Associate Professor of Education.
 LESTER B. SANDS, Ed.D., Associate Professor of Education.
 DOROTHY D. VANDEMAN, M.A., Assistant Professor of Education.

-
- VAN A. CHRISTY, Ph.D., Professor of Music.
 EMANUEL E. ERICSON, M.A., Professor of Industrial Arts.
 LYNNE C. MONROE, Ed.D., Associate Professor of Industrial Arts.
 HARRINGTON WELLS, M.A., Associate Professor of Science Education.
 STANLEY L. WILLIAMSON, A.B., Associate Professor of Physical Education

Demonstration School

- MARY GRAY, Teacher, Burbank City Schools.
 MARJORIE W. RIEDEL, A.B., Teacher, Santa Barbara City Schools.
 FLORENCE VANDYNE STEWART, A.B., Teacher, Los Angeles City Schools.
 ELSE THOMAS, A.B., Teacher, Santa Barbara City Schools.

Clinical School

- KATHRYN H. BURKART, Ph.D., Coördinator, Los Angeles County Schools.
 CONSTANCE M. CHANDLER, Ph.D., Coördinator of Research and Guidance, Ven-
 tura County Schools.
 RUTH R. DAVIS (Speech) A.B., Hillside House School, Santa Barbara.
 ANN B. GILCHRIST, M.A., Veterans Counseling Center, Santa Barbara.
 CHARLOTTE L. MORRISON, M.S., Santa Barbara City Schools.

First Summer Session Courses*(June 21 to July 31, 1948)***EDUCATION****57. Introduction to the Study of Education. (2)****Mr. MATHER**

A general introduction to the various fields of educational thought and

practice. Required of all candidates for any California teaching credential. Should precede all other courses in education. Lectures, readings, reports, and discussions.

106. Philosophy of Education. (2)

Mr. JACOBS

Primary philosophies influencing contemporary American education and their possible outcomes. Construction of an educational philosophy best suited to developing effective citizenship in a democratic society.

110. Educational Psychology. (3)

Mr. JACOBS

Prerequisite: Psychology 1A, Education 57.

Application of the principles and findings of general psychology to the educative process, with special emphasis on learning as it functions in the school environment.

111. Child Growth and Development. (2)

Mrs. BEAVER

Prerequisite: Psychology 1A.

The mental and physical growth and development of the school child in relation to personal and social adjustment, with special emphasis on the general laws of growth, the health of the school child, and preventive hygiene. Directed observation of normal children is required.

117. Pupil Personnel and Counseling. (2)

Mr. BOWMAN

Study of the practices and procedures employed in school counseling and guidance. Technique and practice employed in child study and parent education.

119. Measurement in Education. (2)

Mr. DURFLINGER

Should ordinarily follow Education 110. Main purposes are to acquaint the student with standard measurements and to enable him to construct valid objective tests in his field.

126. Principles of Pre-School Education. (2)

Miss VANDEMAN

Group and individual guidance measures and problem tendencies, applied to early childhood. Observations of younger groups with reference to the influence of outdoor and indoor environment, equipment, routines, supervision, parent-child relationships, home-school contacts, and parent conferences.

143. Elementary School Administration. (2)

Mr. CHENOWETH

Analysis of current methods of administration and supervision; problems of organization and educational leadership, public relations, working conditions and materials, and similar problems.

148. California School Law and Finance. (2)

Mr. CHENOWETH

School finance, housing, business administration, and legal aspects of education; the California school code and its interpretation. Important rules of the State Board of Education relating to administration of the schools.

170. Secondary Education. (2)**Mr. MATHER**

Objectives, curriculum, and methods of the American secondary school in the light of its historical development and European background.

EC 190B. Early Childhood Education Procedure. (4)**Miss LEONARD**

An evaluation of principles and practices in the school of early childhood with reference to the development of each phase of the curriculum, together with a study of methods of teaching, particularly in social living, language arts, reading, phonics, and number concepts. Special emphasis is given to the primary levels with evaluation of classroom observations.

El 190. Elementary School Procedure. (4-5)**Mrs. IRISH****I 190C. Curriculum Development in Industrial Arts. (2)****Mr. MONROE****ME 190. Elementary Music Education. (2)****Mr. CHRISTY****Sc 190. Natural Science in Education. (2)****Mr. WELLS****199. Studies in Education. (1-2)****Mr. CHENOWETH, Mr. DURFLINGER**

Study of special problems in various fields of education. Open only to advanced students with approval of chairman of department of education.

PSYCHOLOGY**1A. General Psychology. (3)****Mr. ALTUS**

Introduction to the subject matter, methods, and techniques of scientific psychology; emphasis upon basic principles underlying the prediction and control of human behavior. Lectures, textbook and collateral readings, classroom demonstrations, and discussions. A sophomore course, not open to freshmen.

107. Statistical Techniques. (2)**Mr. ALTUS**

Measures of central tendency and dispersion, correlation of variables, significance of differences. Interpretation of statistical data in psychology and education.

113. Psychology of Adolescence. (2)**Mrs. BEAVER**

Study of the emotional, social, and intellectual growth of the adolescent, with special consideration of changing attitudes with sexual maturation and physical development.

167. Remedial Techniques in Basic School Subjects. (2)**Mrs. CHANDLER**

The diagnosis and treatment of reading, spelling, arithmetic, and other school disabilities in children and adults. A discussion of foreign language disability will be included in the course if desired. Clinical demonstration, testing, and training of typical cases.

176. Psychology of Elementary School Subjects. (2) Mr. DURFLINGER

For teachers of elementary grades. Findings of studies regarding typical errors of children at different stages of school progress; methods found by experimentation to be the most satisfactory aids in learning and teaching.

199. Studies in Psychology. (1-3) Mrs. BEAVER

By permission of the department chairman, advanced students may carry on studies under the guidance of a staff member.

**Second Summer Session Courses
(August 2 to September 11, 1948)**

57. Introduction to the Study of Education. (2) Miss POND

A general introduction to the various fields of educational thought and practice. Required of all candidates for any California teaching credential. Should precede all other courses in education. Lectures, readings, reports, and discussions.

102. History of American Education. (2) Mr. SANDS

The development of significant educational ideals and movements and the institutions in which they were embodied as a basis for the analysis of present-day problems.

110. Educational Psychology. (3) Miss POND

Prerequisite: Psychology 1A, Education 57.

Application of the principles and findings of general psychology to the educative process, with special emphasis on learning as it functions in the school environment.

147. Audio-Visual-Radio Education. (2) Mr. SANDS

Various kinds of visual, audio-visual, and radio aids of value in classroom teaching in elementary and secondary schools; handling and use of these aids, discussions of theoretical foundations, and special applications of various materials to particular areas of education.

I 190A. Teaching Procedures in Industrial Arts Education. (2)

Mr. ERICSON

Teaching techniques and procedures in industrial arts, organization of teaching materials, available literature in the field, and professional standards for teachers.

I 190B. Content and Materials in Industrial Arts. (2) Mr. ERICSON

Planning shop and laboratory facilities for industrial arts in elementary and secondary schools. Methods of evaluating and purchasing equipment and supplies, and of analyzing course content in light of established objectives.

P 190. Teaching Procedures in Physical Education. (2) Mr. WILLIAMSON

PSYCHOLOGY**1B. General Psychology. (2)****Mr. CLARK**

Prerequisite: Psychology 1A. Required course for all psychology majors and minors.

Study of the higher types of human behavior; classic and recent experiments in the various fields of scientific psychology. Lectures, textbook and collateral reading, reports.

145. Social Psychology. (2)**Mr. CLARK**

The psychological phenomena of social behavior and the influence of the social group on the development of the individual during infancy, adolescence, and early adulthood. Ways of crowd and group behavior and their effect upon individual development through suggestion and imitation. The effects of public opinion and social control, racial and group prejudice, propaganda, and opinions about sex differences and race differences.

ENGLISH

JOSEPH FOLADARE, Ph.D., Associate Professor of English.
 J. CHESLEY MATHEWS, Ph.D., Assistant Professor of English.
 JAMES MERRIN, M.A., Lecturer in English (Los Angeles).
 MARK SCHORER, Ph.D., Professor of English (Berkeley).
 DOUWE STUURMAN, Litt.B., Assistant Professor of English.
 LAWRENCE WILLSON, Ph.D., Assistant Professor of English.

First Summer Session Courses

(June 21 to July 31, 1948)

1A. First-Year Reading and Composition. (2)

Mr. FOLADARE, Mr. STUURMAN

Intensive reading in selected literary masterpieces, accompanied by practice in composition.

1B. First-Year Reading and Composition. (2)

Mr. MERRIN

Prerequisite: English 1A.

Further training in intensive reading and expository writing.

(Note: English 1A and 1B are prerequisite to all other courses in English.)

46B. Survey of English Literature. (2)

Mr. MERRIN

Continuation of English 46A; mainly literature of the nineteenth century.

106A. The Short Story. (2)

Mr. SCHORER

The writing of original stories, and the analytic study of the form.

Open only by consent of instructor.

116. The English Bible as Literature. (2)

Mr. STUURMAN

125. English Novel. (2)

Mr. FOLADARE

Extensive reading in the eighteenth-century novel.

160. British Literature from 1900 to the Present. (2)

Mr. SCHORER

Second Summer Session Courses

(August 2 to September 11, 1948)

1A. First-Year Reading and Composition. (2)

Mr. WILLSON

Intensive reading in selected literary masterpieces, accompanied by practice in composition.

1B. First-Year Reading and Composition. (2)

Mr. MATHEWS

Further training in intensive reading and expository writing.

(Note: English 1A and 1B are prerequisite to all other courses in English.)

117E. Shakespeare. (2)

Mr. WILLSON

151. Milton. (2)

Mr. MATHEWS

FOREIGN LANGUAGES

WILLIAM F. AGGELER, Ph.D., Assistant Professor of French.

PABLO AVILA, Ph.D., Assistant Professor of Spanish.

CHARLES G. FALLIS, Ph.D., Assistant Professor of German.

DONALD W. PETERS, M.A., Lecturer in French and German.

EVA J. PROULX, M.A., Instructor in French.

EDA RAMELLI, M.A., Professor of Spanish.

ANDRES R. RAMON, LL.M., Lecturer in Spanish.

SAMUEL A. WOFY, Ph.D., Instructor in Spanish.

First Summer Session Courses

(June 21 to July 31, 1948)

FRENCH

- | | |
|--|-------------|
| 1. Elementary French. Beginners' Course. (4) | Mr. AGGELER |
|--|-------------|

GERMAN

- | | |
|--|------------|
| 1. Elementary German. Beginners' Course. (4) | Mr. PETERS |
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SPANISH

- | | |
|---|--------------|
| 1. Elementary Spanish. Beginners' Course. (4) | Miss RAMELLI |
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|---|----------|
| 2. Elementary Spanish. Continuation of Spanish 1. (4) | Mr. WOFY |
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| 110. Contemporary Spanish Authors. (2) | Mr. RAMON |
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Second Summer Session Courses

(August 2 to September 11, 1948)

FRENCH

- | | |
|---|-------------|
| 2. Elementary French. Continuation of French 1. (4) | Miss PROULX |
|---|-------------|

GERMAN

- | | |
|---|------------|
| 2. Elementary German. Continuation of German 1. (4) | Mr. FALLIS |
|---|------------|

SPANISH

- | | |
|---|-----------|
| 2. Elementary Spanish. Continuation of Spanish 1. (4) | Mr. AVILA |
|---|-----------|

HOME ECONOMICS

- CHARLOTTE E. BIESTER, M.A.**, Professor of Home Economics.
ALICE V. BRADLEY, M.A., Professor of Home Economics.
BESSIE MCNIEL, Ph.D., Professor of Home Economics, University of Alabama.
RUTH MAJOR, Ph.D., Assistant Professor of Home Economics.
EVELYN J. METZGER, Assistant Professor of Home Economics, University of Nebraska.
FRANCES M. SPIKE, M.A., Lecturer in Home Economics.
SAIDEE E. STARK, Ph.D., Instructor in Home Economics, Sacramento College.
EVELYN STOUT, M.S., Instructor in Home Economics, Washington State College.

First Summer Session Courses
(June 21 to July 31, 1948)

- 10. Nutrition and Health of the Family. (2)** **Miss BRADLEY**
Fundamental principles of human nutrition as applied to promotion and maintenance of health and efficiency.
- 66A. Child Care and Health. (2)** **Miss MCNIEL**
Lectures, discussion, and field work dealing with nutritional needs of pre-school and school-age children. Methods of judging nutrition in children, Causes, effects, and prevention of malnutrition.
- 90. Textile Study. (2)** **Miss STOUT**
Textile fibers and the fabrics made from them; historical background, production, and manufacture; understanding and evaluation of new fabrics and new finishes. Artistic and economic considerations in selecting clothing and household furnishings.
- 102. Experimental Cookery. (2)** **Miss MAJOR**
Prerequisite: Home Economics 9A, 9B; Chemistry 10A, 100.
Application of experimental methods to problems involved in the preparation of foods. A study of scientific principles and approved practices. Fee, \$2.
- 103A. Nutrition and Dietetics. (3)** **Miss BRADLEY**
Prerequisite: Home Economics 9A, 9B; Chemistry 10A, 100.
Principles of normal human nutrition as modified by age, sex, and occupation. A study of basal metabolism and of the metabolism of all food groups. Calculation and preparation of diets. Cost dietaries. Construction and use of visual aids in teaching nutrition. Fee, \$3.
- 106. Meal Management. (2)** **Miss MAJOR**
Prerequisite: Home Economics 9B.
Planning, preparation, and service of meals, with problems in type, cost, equipment, management, and cost functions. Fee, \$2.

130. Home Management Practice. (2)**Miss STARK**

Prerequisite: Home Economics 4, 106, 103A, 107.

A group of women students organized as a family group will live in the Home Management House and apply their training in home economics to the solution of different housekeeping and homemaking problems as they arise.

138. Quantity Cookery. (2)**Miss SPIKE**

Prerequisite: Home Economics 9A, 9B, 106, 103A.

Application of the principles of cookery to large quantity preparation of food in the College cafeteria. Planning menus for school lunchrooms, hospitals, and commercial cafeterias.

150. The House. (3)**Miss METZGER**

Prerequisite: Art 1.

A study of house planning and furnishing giving consideration to the economic and social factors affecting choices. Problems in utilization of materials.

199. Problems in Home Economics.**Clothing Construction. (1-3)****Miss STOUT****Home and Family Living. (1-3)****Miss McNIEL****Home Economics Education. (1-2)****Miss MAJOR****Applied Art. (1-2)****Miss METZGER**

Second Summer Session Courses
(August 2 to September 11, 1948)

108. Consumer Buying. (2)**Miss BIESTER**

A nontechnical discussion of standards for the selection of consumer goods; evaluation of agencies aiding and protecting the consumer; methods of improving purchasing ability under present market conditions. Not accepted for credit for the major.

196. Counseling and Guidance for Home and Community Life. (2)**Miss BIESTER**

Prerequisite: senior standing and consent of instructor.

Fundamental principles and methods in understanding normal individuals and the contributions of home and community to the development of citizenship.

INDUSTRIAL ARTS

- THEODORE S. ELLENWOOD, A.B.,** Instructor in Industrial Arts.
EMANUEL E. ERICSON, M.A., Professor of Industrial Arts.
WALTER B. FORD, B.E., Teacher, Los Angeles City Schools.
FRED L. GRIFFIN, A.B., Assistant Professor of Industrial Arts.
RALPH W. HEYWOOD, M.A., Employment Coördinator, Los Angeles City Schools.
CLYDE KEENER, A.B., Instructor in Industrial Arts.
FLORENCE W. LYANS, M.A., Assistant Professor of Industrial Arts.
ROBERT A. MCCOY, M.Ed., Instructor in Industrial Arts.
CHARLES A. McMILLAN, Ed.D., Teacher, Oakland City Schools.
HAROLD J. MILLER, M.S., Assistant Professor of Industrial Arts.
LYNNE C. MONROE, Ed.D., Associate Professor of Industrial Arts.
RALPH K. NAIR, M.S., Assistant Professor of Industrial Arts.
JOSEPH J. SAYOVITZ, M.S., Instructor in Industrial Arts.
ARTHUR O. SCHRICKER, M.A., Instructor in Industrial Arts.
LOUIE S. TAYLOR, M.A., Assistant Professor of Industrial Arts.
CARL W. WIETHS, A.B., Teacher, Los Angeles City Schools.

DOROTHY D. VANDEMAN, M.A., Assistant Professor of Education.

First Summer Session Courses
(June 21 to July 31, 1948)

INDUSTRIAL ARTS

- 4A. Elementary Machine Shop. (3)** **Mr. SCHRICKER**
Fundamental operations in the machine shop, care and use of hand tools, layout work, benchwork, simple lathe turning, screw thread-cutting, and taper work. Fee, \$3.
- 12. Machine Woodworking and Cabinet Construction. (3)** **Mr. GRIFFIN**
Prerequisite: Industrial Arts 11, Graphic Arts 5.
Operation and upkeep of woodworking machinery in the construction of various types of cabinet work, casework, and furniture. Fee, \$3.
- 20. Metalworking Fundamentals. (3)** **Mr. WIETHS**
A basic laboratory course offering fundamental theory and practice in metal-working processes and tool operations as used in modern industry. Fee, \$3.
- 50. Electrical Construction. (3)** **Mr. SAYOVITZ**
Prerequisite: Physics 19A.
Electricity and magnetism, Ohm's law, power formulas, series and parallel circuits, batteries, measuring instruments, motors, generators, and transformers. Fee, \$3.

61. Basic Radio. (3)

Mr. SAYOVITZ

Electrical phenomena as applied to radio circuits and equipment used in receiving sets. Fee, \$3.

104A. Advanced Machine-Shop Practice. (2)

Mr. SCHRICKER

Prerequisite: Industrial Arts 4A or 4B.

Study and practice in the more exacting production methods and machining processes on lathe, milling machine, shaper, flat and cylindrical grinder, and drilling machines, involving direct application of machine-shop theory. Fee, \$2.

112. Furniture Construction. (3)

Mr. GRIFFIN

Prerequisite: Industrial Arts 12.

The production of domestic furniture. Articles for production are chosen or designed according to ability and ambition of the individual student. Fee, \$3.

127A. Art Metalwork. (2)

Mr. WIRTHS

Design and construction of ornamental articles of copper, brass, Britannia metal, silver, aluminum, nickel, bronze, and other nonferrous metals. Fee, \$2.

191. Manipulative Work for the Integrated Program in Primary Grades. (2)

Mrs. LYANS

Prerequisite, or taken concurrently: Education (El.) 190.

This course is designed to train teachers in the manipulative work for primary grades; to develop acquaintance and skill in the use of materials used in activity programs. Stress is also laid on sources of materials. Fee, \$2.

192. Manipulative Work for the Integrated Program in Elementary Grades. (2)

Mrs. LYANS

Prerequisite, or taken concurrently: Education El. 190.

Offers for the teachers of elementary grades the same type of program as that described under course 191. Manipulative work is carried on in the classroom, with stress upon the integration of handwork activities with the regular subject matter in the elementary grades. Fee, \$2.

194. Expressive Activities for Early Childhood. (2)

Miss VANDEMAN

Provides experiences with various environment media in the school of early childhood—nursery, kindergarten, and primary years, including the construction of visual education materials, simple musical instruments, and educational play materials. (Closely integrated with Education EC 190B and Education N 190. Fee, \$2.

190C. Curriculum Development in Industrial Arts. (2)

Mr. MONROE

Prerequisite: Education I 190A or Education I 192A.

Development of the curriculum for the industrial arts in elementary and secondary schools through individual planning and laboratory experimentation.

195A. Organization, Objectives, and Supervision of Instruction in Industrial Arts Education. (3)

Mr. MONROE

GRAPHIC ARTS**1. Freehand Drawing and Sketching. (2)**

Designed primarily for students in the field of industrial education to enable them to develop skill in expressing ideas in drawing that will illustrate and clarify other school subjects. Fee, \$2.

3A. Engineering Drawing. (3)

Mr. MILLER

Prerequisite: Graphic Arts 2 or equivalent; plane or analytic geometry
Lettering, orthographic projection, pictorial representation of machines and machine parts, dimensioning, working drawings, and reproduction. Fee, \$3.

5. Industrial Drafting. (3)

Mr. MILLER

Prerequisite: Graphic Arts 2 or equivalent.
Theory and practice in practical aspects of machine drawing, furniture production, sheet-metal development, aeronautical drafting, boat design, lofting, electrical drafting, pipe layout. Fee, \$3.

7. Home Planning. (3)

Mr. HEYWOOD

Prerequisite: Graphic Arts 2 or equivalent.
The common problems involved in planning a house; styles of domestic architecture and principles of design; home sites, building codes, materials, and costs. Making freehand sketches, as well as conventional drawings of floor plans and elevations. Fee, \$3.

70A. Elementary Photography. (3)

Mr. MCCOY

The practice of photography for personal and educational use. Composition, darkroom technique, lighting, portraiture, and picture making in general. Fee, \$3.

80A. Typography. (3)

Mr. McMILLAN

A study of the basic principles of typography, straight-matter composition, simple display jobs; proofing, care of type and materials; platen presswork. Fee, \$3.

102A. Architectural Drafting and Design. (2)

Mr. HEYWOOD

Prerequisite: Graphic Arts 1, 2, 4, or 7.
Theory and practice of making plans and specifications for dwellings. Study of historic styles of domestic architecture and applications of principles and design. Estimating, building ordinances, and topographical drawing from field notes. Fee, \$2.

105. Industrial Arts Design. (2)

Prerequisite: Graphic Arts 1 and 2 or equivalent.

The principles of structural design, with emphasis on the design and construction of articles of furniture and other projects for production in school shops. Consideration of the use and effect of color as a factor in design. Fee, \$2.

183. Typographical Layouts and Design. (2) Mr. McMILLAN

Prerequisite: Graphic Arts 80A, 80B.

The designing of books, booklets, brochures, and broadsides with regard to their function. Training in making "thumbnails," "roughs," and "comprehensives," incorporating the principles of space break-up, movement balance, type legibility, and pictorial composition. Fee, \$2.

199. Studies in Graphic Arts. (1-3) Mr. McCoy

Second Summer Session Courses
(August 2 to September 11, 1948)

INDUSTRIAL ARTS

11. Hand Woodworking and Wood Turning. (3) Mr. ELLENWOOD

Practice in the processes of bench woodwork, in the operation of the wood-turning lathe, and use and care of hand tools, etc. Fee, \$3.

21. Forging and Welding. (2) Mr. TAYLOR

Principles and practices of forging, testing, and heat-treatment of steels, oxy-acetylene: AC and DC electric arc welding and their practical application to industry. Fee, \$2.

30. Fundamentals of Transportation Machinery. (3) Mr. KEENER

An introduction to the nature and construction of transportation equipment used in modern society. Fee, \$3.

32. Fundamentals of Automotive Repair. (3) Mr. KEENER

Prerequisites: Industrial Arts 20 or equivalent.

Study of construction and maintenance of the automobile, with practice on laboratory equipment and live cars. Fee, \$3.

113. Furniture Reproduction. (2) Mr. ELLENWOOD

Prerequisite: Industrial Arts 12.

The production of domestic furniture. Articles for production are chosen or designed according to ability and ambition of the individual student.

152A. Electrical Laboratory Work. (3) Mr. FORD

Prerequisite: Industrial Arts 151.

Study of electrical appliances and electrical machinery used in home and in industry. Practice in the repair of such appliances and machinery and their original manufacture. Radio repair and construction may also be included. Fee, \$3.

172A. Industrial Arts Crafts. (2)

Mr. NAIR

Reedwork, novelty painting, simple upholstery, woodwork, leathercraft, metal tooling, ropework, whittling, craft carving, plastics, glass engraving and etching, Indiancraft, and others. Fee, \$2.

183. General Metal-Shop Organization for Teachers. (3)

Mr. TAYLOR

Designed to give advanced students training in organization and management of the general metal shop in junior and senior high schools, and an opportunity to develop teaching aids, projects, project designs, and additional skills in the various fields of metal work. Fee, \$3.

190A. Teaching Procedures in Industrial Arts Education. (2)

Mr. ERICSON

Teaching procedures and techniques in industrial arts, organization of teaching materials, available literature in the field, and professional standards for teachers.

190B. Content and Materials in Industrial Arts. (2)

Mr. ERICSON

Planning shop and laboratory facilities for industrial arts in elementary and secondary schools. Methods of evaluating and purchasing equipment and supplies, and of analyzing course content in light of established objectives.

199. Studies in Industrial Arts. (2) Fee, \$2.

Mr. FORD

GRAPHIC ARTS**5. Industrial Drafting. (3)**

Mr. NAIR

Prerequisite: Graphic Arts 2 or equivalent.

Theory and drafting in practical aspects of furniture construction, sheet-metal development, aeronautical drafting, boat design, lofting, electrical drafting, pipe fitting. Fee, \$3.

MATHEMATICS

STANLEY E. RAUCH, Ph.D., Assistant Professor of Mathematics.

LEWIS F. WALTON, Ph.D., Assistant Professor of Mathematics.

First Summer Session Course

(June 21 to July 31, 1948)

1A. Mathematical Analysis. (4)

Mr. RAUCH

Prerequisite: high school algebra.

An introduction to analytic geometry and calculus, including a careful review of the essentials of high school algebra and trigonometry. Recommended for social science and life science majors.

Second Summer Session Course

(August 2 to September 11, 1948)

1B. Mathematical Analysis. (4)

Mr. WALTON

Prerequisite: Mathematics 1A.

Continuation of course 1A.

MUSIC

LLOYD BROWNING, B.Mus., Assistant Professor of Music.

WALTER BUCHANAN, Ph.D., Assistant Professor of Music.

VAN A. CHRISTY, Ph.D., Professor of Music.

MAURICE E. FAULKNER, M.A., Associate Professor of Music.

H. KLYNE HEADLEY, M.Mus., Associate Professor of Music.

CLAYTON H. WILSON, JR., M.Mus., Assistant Professor of Music.

First Summer Session Courses

(June 21 to July 31, 1948)

- 1A. Musicianship I. (2)** Mr. BUCHANAN, Mr. FAULKNER
 Key signatures. Solfege of major and minor scales and triads. Sight singing in major with movable *do*. Rhythmic and melodic dictation, two measures. Treble, bass, and C clefs. Harmonic dictation involving I, IV, and V. Intervals.
- 5A. Music for Enjoyment. (2)** Mr. FAULKNER
 History and appreciation, designed especially to meet the needs of students desiring an elementary cultural course in music.
- 6A. Voice I. (1)** Mr. BUCHANAN
 Prerequisite: ability to carry a tune and Music 1A.
 Principles of voice production, including posture, breath control, vowel formation, resonance, diction, and legato. Ensemble and individual singing of simple songs and exercises in English and Italian.
- 6B. Voice II. (1)** Mr. BUCHANAN
 Prerequisite: ability to carry a tune and Music 1A.
 Principles of voice production, including posture, breath control, vowel formation, resonance, diction, and legato. Ensemble and individual singing of simple songs and exercises in English and Italian.
- 6C-6D. Voice III-IV. (1)** Mr. CHRISTY
 Continuation of Music 6A-6B.
- 106A-B-C-D. Advanced Voice. (1)** Mr. CHRISTY
 Continued development of breath control, tone production, and technique. Study of songs in foreign languages. Interpretation of the art song, opera, and the oratorio. Students appear in recital.
- 111. Instrumental Workshop. (1)** Mr. FAULKNER
 Designed to allow the student to begin the study of an instrument for the first time or to continue study on an instrument of his choice. He may also prepare a project or unit of work in the instrumental field. New materials and methods in ensemble playing.
- 122. Choral Procedure. (1)** Mr. CHRISTY
 The study and singing of the best recent choral material for use in assemblies, communities, and secondary schools.

132A-132B. Piano Accompanying. (1)**Mr. CHRISTY**

Playing accompaniments under supervision in the public schools or in vocal or instrumental classes at the College. May be counted for credit in music activity, upon approval of the Chairman of the Department of Music.

**Second Summer Session Courses
(August 2 to September 11, 1948)**

1A. Musicianship I. (2)**Mr. HEADLEY**

Key signatures. Solfege of major and minor scales and triads. Sight singing in major, with movable *do*. Rhythmic and melodic dictation, two measures. Treble, bass, and C clefs. Harmonic dictation involving I, IV, and V₇. Intervals.

5A. Music for Enjoyment. (2)**Mr. HEADLEY**

History and appreciation, designed especially to meet the needs of students desiring an elementary cultural course in music.

9A-B-C-D; 109A-B-C-D. Orchestra. (1)**Mr. WILSON**

The study and performance of the standard orchestral and symphonic music. Open, with the consent of the instructor, to all students who have had experience in playing an orchestral instrument. Fee, \$1.

30A. Piano I. (1)**Mr. BROWNING**

Classwork in piano, stressing the fundamental principles of correct and intelligent playing. Provision for development according to individual needs. Fee, \$1.

30B. Piano II. (1)**Mr. BROWNING**

Continuation of Music 30A. Fee, \$1.

30C-30D. Piano III, IV. (1)**Mr. BROWNING**

Continuation of Music 30A-30B. Upon completion of Piano IV, students are expected to play, readily and accurately, accompaniments of a grade of difficulty encountered in public school assembly singing. Fee, \$1.

40A-B-C-D; 140A-B-C-D. Intermediate and Advanced Instruments. (1)**Mr. WILSON**

For advanced students. Class lessons and individual instruction.

111. Instrumental Workshop. (1)**Mr. WILSON**

Designed to allow the student to begin the study of an instrument for the first time, or to continue study on the instrument of his choice. He may also prepare a project or unit of work in the instrumental field. New materials and methods in ensemble playing.

130A-B-C-D. Advanced Piano. (1)**Mr. BROWNING**

Emphasis on solo playing and accompaniments of a more difficult grade. Fee, \$1.

PHYSICAL AND HEALTH EDUCATION

MEN

- ERNEST N. CARTER, A.B., Instructor in Physical Education.
TERRY H. DEARBORN, A.B., Assistant Professor of Physical Education.
WILLIAM M. IRVINE, Assistant in Physical Education.
MAYVILLE S. KELLIHER, M.S., Instructor in Physical Education.
STANLEY L. WILLIAMSON, A.B., Associate Professor of Physical Education.
WILTON M. WILTON, M.A., Instructor in Physical Education.

WOMEN

- JEAN L. HODGKINS, M.A., Assistant Professor of Physical Education.
PATRICIA H. WHITAKER, M.A., Instructor in Physical Education.

First Summer Session Courses
(June 21 to July 31, 1948)

PHYSICAL EDUCATION FOR MEN

- 52A-52B. Physical Fitness. Sophomore Course. ($\frac{1}{2}$) Mr. CARTER
56. Activities for Gymnasium and Field. (2) Mr. KELLIHER
Instruction and practice in leadership in gymnasium and field activities, including apparatus work, tumbling and stunts, group games, combatives, marching, sports, and contests.
66. Elementary Golf. ($\frac{1}{2}$). Fee, 50 cents. Mr. IRVINE
67. Elementary Fencing. ($\frac{1}{2}$). Fee, 50 cents. Mr. CARTER
101. Kinesiology. (3) Mr. KELLIHER
Prerequisite: Physiology 1A, 1B, Zoölogy 35.
The study and application of physical structure and muscular movements in various physical education activities. Description and application of certain anatomical concepts and physical laws to joint and muscular action.
130. Principles of Physical Education. (3) Mr. WILTON
The nature and history of physical education; its place and contributions in the educational program and in the world of today.
166. Advanced Golf. ($\frac{1}{2}$). Fee, 50 cents. Mr. IRVINE
167. Advanced Fencing. ($\frac{1}{2}$). Fee, 50 cents. Mr. CARTER

HEALTH EDUCATION

1. Personal Hygiene. (2) Mr. CARTER
2. Standard First Aid. (1) Mr. CARTER
A basic course in first aid, leading to the standard certificate of the American Red Cross.

- 106. Industrial and Occupational Hygiene. (2)** Mr. WILTON
 Mechanical, physical, and chemical causes of accidents and ill-health in industry and selected occupations, and their prevention; study of programs of health service and environmental control in industrial organization.

PHYSICAL EDUCATION FOR WOMEN

- 26. Prescribed Physical Education for Freshmen and Sophomores.**
 Section 5. Recreational Sports. (½) Miss HODGKINS
 Section 18A. Elementary Games. (½) Miss WHITAKER
 Section 18B. Lead-up Games. (½) Miss HODGKINS
- 138. Physical Education in the Elementary School. (2)** Miss WHITAKER
 Prerequisite: Physical Education 26, Sections 18A, 18B.
 Children's rhythms, folk dancing.
- 143. Theory and Techniques of Recreation. (3)** Miss HODGKINS
 The study of theory and techniques of recreational leadership, including organization and administration of programs for schools, playgrounds, and communities.

HEALTH EDUCATION

- 1. Personal Hygiene. (2)** Miss WHITAKER

Second Summer Session Courses
 (August 2 to September 11, 1948)

PHYSICAL EDUCATION FOR MEN

- 105. Physiology of Exercise. (3)** Mr. DEARBORN
 Prerequisite: Physiology 1A, 1B; Zoölogy 35.
 The neuromuscular mechanism and the metabolic, muscular, circulatory, and respiratory responses in physical exercise, and their integration by means of the nervous system.

- 131. Organization and Administration of Physical Education in Secondary Schools. (3)** Mr. WILLIAMSON

Teaching Procedures in Physical Education (Education P 190). (2)

Mr. WILLIAMSON

Prerequisite: Education 57, 110, 111, 170, and completion of Proficiency Test. Methods, materials, and procedures of teaching, program planning, and organization in physical education, together with observation of teaching in classroom, gymnasium, and field.

HEALTH EDUCATION

- 3. Hygiene of the Family. (2)** Mr. DEARBORN

Prerequisite: Health Education 1.

Application of the facts of hygiene to the family group, with study of the physical, mental, and social qualifications for marriage; prenatal and child care; factors influencing the physical and emotional health of the family.

PHYSICAL SCIENCES

ERNEST L. BICKERDIKE, Ph.D., Associate Professor of Chemistry.

LEONARD H. HALL, Ph.D., Instructor in Physics.

WILLARD L. MCRARY, Ph.D., Assistant Professor of Chemistry.

JOHN M. O'GORMAN, Ph.D., Assistant Professor of Chemistry.

HAZEL W. SEVERY, M.A., D.Sci.O., Professor of Chemistry.

KENNETH M. SIMPSON, Ph.D., Assistant Professor of Physics.

C. DOUGLAS WOODHOUSE, LL.M., Lecturer in Mineralogy.

First Summer Session Courses

(June 21 to July 31, 1948)

CHEMISTRY

1A. General Chemistry. (5)

Mr. BICKERDIKE

Prerequisite: high school chemistry or Chemistry 2A, grade B or better; high school algebra, grade B or better; or Mathematics 1A.

The principles of chemistry, with emphasis on chemical calculations. For students training for the scientific professions. Lectures and laboratory. Fee, \$5.

10A. Organic Chemistry. (3)

Miss SEVERY

The carbon compounds comprising the aliphatic, aromatic, and heterocyclic series with special emphasis on fats, carbohydrates, proteins, drugs and dyes. Lectures and laboratory. Fee, \$3.

GEOLOGY

11. Descriptive Meteorology. (2)

Mr. WOODHOUSE

Elementary survey of the fundamentals of meteorology.

MINERALOGY

33A. Gems. (2)

Mr. WOODHOUSE

History and occurrence of the gem minerals of the world. Discussion of various synthetic gems, identification and study of all types of minerals that have value as gem material.

PHYSICS

2A. General Physics. (4)

Mr. HALL

Prerequisite: trigonometry, high school physics or chemistry.

For science majors and premedical students. Mechanics, heat, and sound. Lectures and laboratory. Fee, \$4.

Second Summer Session Courses

(August 2 to September 11, 1948)

CHEMISTRY

1B. General Chemistry. (5)

Mr. O'GORMAN

Prerequisite: Chemistry 1A.

Continuation of Chemistry 1A, with application to the theory and technique

of qualitative analysis; periodic systems; structure of matter. Lectures and laboratory. Fee, \$5.

2A. Introductory Chemistry. (3)

Mr. MCRARY

Descriptive chemistry and elementary principles. Open to all students.

Fee, \$3.

120A. Laboratory Technique for Physical Science. (1)

Mr. MCRARY

Prerequisite: Physics 1A, 1B, 1C, 1D, or 2A, 2B.

Intended primarily for students interested in teaching science. Practice in setting up equipment for laboratory use and for class demonstration; construction, maintenance, and repair of equipment. Elementary glass working. Laboratory and discussion. Fee, \$1.

PHYSICS

1C. General Physics. (3)

Mr. SIMPSON

Prerequisite: Physics 1A, 1B; analytic geometry, differential and integral calculus.

Sound and light. Electricity and magnetism. Lectures and laboratory. Fee, \$3.

SOCIAL SCIENCES

HENRY M. ADAMS, Ph.D., Assistant Professor of History.
A. RUSSELL BUCHANAN, Ph.D., Associate Professor of History.
WILLIAM H. ELLISON, Ph.D., Professor of History.
NORMAN E. GABEL, Ph.D., Assistant Professor of History.
HARRY GIRVETZ, Ph.D., Associate Professor of Sociology.
STEPHEN S. GOODSPEED, Ph.D., Instructor in Political Science.
J. FREDERICK HALTERMAN, Ph.D., Professor of Economics.
WILLIAM F. KENNEDY, Ph.D., Assistant Professor of Economics.
GWYNNE NETTLER, Ph.D., Assistant Professor of Sociology.
H. EDWARD NETTLES, Ph.D., Professor of History.

First Summer Session Courses
(June 21 to July 31, 1948)

ECONOMICS

1A. Principles of Economics. (2)

Mr. HALTERMAN

The principles of economics and their application to important problems of the economic world. Not open to freshmen.

150. Labor Economics. (2)

Mr. HALTERMAN

Factors contributing to American labor problems, and the attempts on the part of those concerned to obtain harmony.

HISTORY

4A. Introduction to History of Western Civilization. (2)

Mr. NETTLES

The political, cultural, and social history of Europe from 1500 to the present day, as a background of present-day civilization. Not open to juniors or seniors except with permission of the instructor.

76A. American History. (2)

Mr. ELLISON

History of American institutions and ideals.

131. History of the British Empire. (2)

Mr. NETTLES

The rise and development of the British Empire. The story of British expansion and the growth of the British Commonwealth of Nations.

PHILOSOPHY

6A. Introduction to Philosophy. (2)

Mr. GIRVETZ

8. Survey of Philosophy. (3)

Mr. GIRVETZ

An examination, primarily for students not likely to continue in philosophy, of the leading philosophical ideas in terms of which western civilization has sought to understand itself and the world of which it is a part.

POLITICAL SCIENCE

- 76B. Constitution and Government of the United States.** (2) Mr. ELLISON
The fundamental nature of the American constitutional system and the ideal upon which it is based.
- 129. Foreign Policies of the Great Powers.** (2) Mr. GOODSPEED
A study of the basic factors that underlie the foreign policies of the great powers.
- 181. Principles of Public Administration.** (2) Mr. GOODSPEED
The growth of organization and procedures required in handling the increasingly complex administration of governmental powers and services.

SOCIOLOGY

- 7. Social Disorganization.** (2) Mr. NETTLER
A study of causative factors and control of "disorganized" behaviors, such as divorce, suicide, delinquency, prostitution, and unemployment.
- 166. Group Behavior.** (2) Mr. NETTLER
Prerequisite: Sociology 1, Psychology 1A, or consent of instructor.
The meaning of group membership; group effects and leadership possibilities; analysis of the structure and function of representative group types; political and religious group behavior.

Second Summer Session Courses
(August 2 to September 11, 1948)

ANTHROPOLOGY

- 100A. Cultural Anthropology.** (2) Mr. GABEL
Prerequisite: Anthropology 1A, 1B.
Structure of primitive cultures; social, religious, political and economic institutions among preliterate societies.

ECONOMICS

- 1B. Principles of Economics.** (2) Mr. KENNEDY
Prerequisite: Economics 1B.
The principles of economics and their application to important problems of the economic world.
- 103. Business Cycles.** (2) Mr. KENNEDY
Prerequisite: Economics 40, 100A.
Theories of the business cycle and the interrelation of the economic processes; the problem of controlling economic instability.

HISTORY

4B. Introduction to History of Western Civilization. (2) Mr. ADAMS

The political, cultural and social history of Europe from 1500 to the present day, as a background for present-day civilization. Not open to juniors or seniors except by permission of the instructor.

17A. Political and Social History of the United States. (2) Mr. BUCHANAN

The evolution of American institutions and civilization. For the general student, to provide a basis for advanced study.

88. History of California and the Pacific Coast. (2) Mr. BUCHANAN

California and the Pacific Coast, with emphasis on the Spanish-Mexican period.

150. History of Russia. (2) Mr. ADAMS

SOCIOLOGY

1. Introductory Sociology. (2) Mr. GABEL

Introduction to the field of sociology. Sociological principles in their application to contemporary American culture.

SPEECH

VIRGIL L. BERGMAN, M.A., Lecturer in Speech.

THEODORE W. HATLEN, M.A., Assistant Professor of Speech.

EVELYN P. KENESSON, Ph.D., Assistant Professor of Speech.

First Summer Session Courses

(June 21 to July 31, 1948)

11. Fundamentals of Speech. (3)

Mr. BERGMAN

Prerequisite to all speech courses except with permission of instructor.

Orientation in the field of speech. Emphasis on improving speech skills through participation in public speaking, oral reading, and discussion. Attention to individual needs. Fee, \$3.

50. Phonetics. (2)

Systematic and scientific consideration of physiological, linguistic, cultural, and historical factors of American pronunciation. Introduction to the International Phonetic Alphabet.

177. Methods in Speech Correction. (2)

Diagnostic and remedial techniques as these are applied at the school and clinical level; observation and practical work with a variety of speech and hearing problems.

199A. Problems in Speech. (Speech Correction).

The STAFF

Investigation of special problems in the field of speech with faculty supervision. Oral examination of special projects and general backgrounds in speech. Demonstration of skill.

Directed Teaching in Speech Correction (Education Sp. 192B). (2-3)**Second Summer Session Courses**

(August 2 to September 11, 1948)

11. Fundamentals of Speech. (3)

Mr. HATLEN, Miss KENESSON

Prerequisite to all speech courses except with permission of instructor.

Orientation in the field of speech. Emphasis on important speech skills through participation in public speaking, oral reading, and discussion. Attention to individual needs. Fee, \$3.

40. Radio Broadcasting. (2)

Mr. HATLEN

Principles and techniques of radio broadcasting. Emphasis on radio speech, microphone technique, and various types of radio presentation. Participation in regularly scheduled productions. Fee, \$2.

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Have you ever attended any other institution of collegiate grade?.....

If so, are you now eligible to return as a student in good standing?.....

If you have received any degrees enter details of graduation below.

Degree..... Institution..... Date.....

Are you 21 years of age or over?..... Your age, if under 21:.....

Do you plan to enter the College in the next regular session?.....

If so, have you filed formal application for admission?.....

Do you plan to work for a degree or certificate?.....

If so, state degree or certificate desired.....

(If you plan to work for a degree or certificate in this College you should file a separate application for admission.)

Applicant's signature..... Date:....., 1948

(OVER)

**UNIVERSITY OF CALIFORNIA
SANTA BARBARA COLLEGE**

II

APPLICATION FOR ADMISSION—SECOND SUMMER SESSION, 1948

Applications should be submitted to the Registrar, Santa Barbara College, by July 24; otherwise, delay in registration may result. In case of adverse action, immediate notice is sent by mail. No application fee is charged.

Give full legal name. Write clearly or PRINT.

Miss
Mr.
Mrs.

.....
First given name

.....
Middle names

.....
Family name

Present address:

Permanent P.O. address:

Occupation:

Are you a high school graduate?.....Date of graduation.....

Name of school.....

Have you ever attended Santa Barbara College? Yes..... No.....

If so, give dates. From..... to.....

(OVER)

For information concerning fall and spring semester offerings at Santa Barbara College, write to the Registrar, University of California, Santa Barbara College, Santa Barbara, California.

For information concerning the colleges of the University of California, Los Angeles, write to the Registrar, University of California, 405 Hilgard Avenue, Los Angeles 24, California.

For circulars of information concerning the several colleges and departments of the University elsewhere, please write to the Registrar, University of California, Berkeley 4, California, mentioning the department of study in which you are interested.



UNIVERSITY OF CALIFORNIA

DEGREES AND HONORS
1947 - 1948

At Berkeley
Eighty-fifth Commencement

At Los Angeles
Twenty-ninth Commencement

At Santa Barbara
Third Commencement

At Davis
First Commencement

U N I V E R S I T Y O F C A L I F O R N I A

The Eighty-Fifth Commencement Exercises

UNIVERSITY OF CALIFORNIA

THE EIGHTY-FIFTH
COMMENCEMENT



JUNE, 1948

JUNE 12

CALIFORNIA MEMORIAL STADIUM
BERKELEY

PROGRAM



ENTRY OF CANDIDATES

ACADEMIC PROCESSION

PROCESSIONAL:

March and Cortège from "La Reine de Saba" *Charles Gounod* (1818–1893)

Commencement Day Orchestra

Professor WILLIAM D. DENNY, Conductor

NATIONAL ANTHEM

INVOCATION:

The Reverend JOSEPH C. ALTER

THE DEFENSES OF PEACE AND THE MINDS OF MEN

HYPATIA NOORDWAL TEAGUE

Candidate A.B., College of Letters and Science

FROM A GRATEFUL CRITIC

CHARLES ERNEST HANGER

Candidate A.B., College of Letters and Science

AWARD OF COMMISSIONS TO UNIVERSITY CADETS:

GOODWIN J. KNIGHT

Lieutenant Governor of the State of California

AWARD OF COMMISSIONS IN THE OFFICER RESERVE CORPS, U.S.A.

THE PRESIDENT OF THE UNITED STATES

AWARD OF COMMISSIONS IN THE U. S. NAVY AND NAVAL RESERVE

THE PRESIDENT OF THE UNITED STATES

CONFERRING OF UNDERGRADUATE DEGREES AND CERTIFICATES

THE PRESIDENT OF THE UNIVERSITY

HAIL TO CALIFORNIA:

Hail to California, Alma Mater dear—

Sing the joyful chorus,

Sound it far and near,

Rallying 'round her banner—

We will never fail—

California, Alma Mater, Hail! Hail! Hail!

Hail to California, queen in whom we're blest,

Spreading light and goodness over all the West,

Fighting 'neath her standard—

We shall sure prevail—

California, Alma Mater, Hail! Hail! Hail!

PROGRAM



AWARD OF THE UNIVERSITY MEDAL

RECOGNITION OF RETIRING STAFF AND FACULTY MEMBERS

CONFERRING OF GRADUATE DEGREES AND CERTIFICATES:

THE PRESIDENT OF THE UNIVERSITY

DISTRIBUTION OF MILITARY AND NAVAL COMMISSIONS

DISTRIBUTION OF SCROLLS:

THE PRESIDENT OF THE UNIVERSITY

Vice-President CLAUDE B. HUTCHISON

Dean ALVA R. DAVIS

Dean WILLARD C. FLEMING

Acting Dean EVERETT D. HOWE

Dean WENDELL M. LATIMER

Dean WARREN C. PERRY

Dean FRANCIS S. SMYTH

ADDRESS TO THE CANDIDATES:

THE PRESIDENT OF THE UNITED STATES

ALL HAIL:

All hail! Blue and Gold, thy colors unfold,
O'er loyal Californians, whose hearts are strong and bold.
All hail! Blue and Gold, thy strength ne'er shall fail;
For thee we'll die. All hail! All hail!

All hail! Blue and Gold, to thee we shall cling;
O'er golden fields of poppies thy praises we will sing.
All hail! Blue and Gold, on breezes ye sail;
Thy sight we love. All hail! All hail!

BENEDICTION

RECESSIONAL



UNIVERSITY MARSHAL:

PROFESSOR EDWIN C. VOORHIES

ACADEMIC DRESS is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. In the early times of the universities at Oxford and Cambridge the English word for scholar was clerk, who was a man either in holy orders or presumably about to take them. Pictures in manuscripts of the 15th century show the clerk wore a gown and had the crown of his head shaved to form a tonsure.

The academic gown is closely related to the *cope*, a mantle of silk or other cloth worn by church dignitaries in processions, at solemn lauds, and on other similar occasions. In the famous Ellesmere MS Chaucer's clerk of Oxenford appears in a red skullcap, a furred tippet, and a hood; the hood falling somewhat back. These elements became conventionalized into the cap, gown, and hood of present academic usage.

The hood as worn in the United States is black and lined with the colors of the University. Certain American universities are indicated by the colors of the linings, as follows: California, gold with Yale blue chevron; Columbia, light blue with white chevron; New York University, violet; Minnesota, old gold with maroon chevron; Illinois, navy blue with two orange chevrons; Ohio State University, scarlet with silver grey chevron; Michigan, maize with Presbyterian blue chevron; Wisconsin, bright red; College of the City of New York, lavender; Harvard, crimson; University of Washington, purple above gold; Texas, white above orange. The color of the band along the outer edge indicates the scholar's field of learning. Thus the degree in Arts and Letters is symbolized by white, Theology and Divinity by scarlet, Law by purple, Philosophy by blue, Science by gold-yellow, Fine Arts by brown, Medicine by green, Music by pink, Pharmacy by olive, Dentistry by lilac, Forestry by russet, Veterinary Science by grey, Library Science by lemon, Pedagogy by light blue, Commerce and Accountancy by drab, Engineering by orange, Physical Education by sage-green, Humanics by crimson, Oratory by silver-grey, Public Health by salmon-pink, Agriculture by maize, Economics by copper.

At this Commencement the University is honoring the following retiring staff and faculty members for distinguished and faithful service:

WILLIAM H. ALEXANDER
RAY S. BOYNTON
MATHURIN DONDO
FRANK N. FREEMAN
RICHARD B. GOLDSCHMIDT
CLARENCE M. HARING
ELBERT A. HUGILL
WALTER P. KELLEY

JOHN W. MILLAR
JOSEPH H. MOORE
S. GRISWOLD MORLEY
THOMAS O. MORRISON
MAX RADIN
EDWARD S. SUNDSTROEM
ALICE P. TABOR

UNIVERSITY OF CALIFORNIA



CERTIFICATES, DEGREES,
AND HONORS

AUGUST-SEPTEMBER, 1947

In this list the superior figure ¹ will denote awards of August 2, 1947, the superior figure ² will denote awards of September 13, 1947. Section II of this list will contain the names of students to whom degrees are awarded at the University of California at Los Angeles, Santa Barbara College, and Davis, 1947-1948.



CERTIFICATES AWARDED

MEDICAL SCHOOL

Certificate in Physical Therapy

- ² Helen Jean Brown (B.S. Tuskegee Institute 1946) Kansas City, Missouri
- ² Margaret Ann Gardipee (A.B. 1944) Sacramento
- ² Barbara Jean Johnson Concord
- ² Rose Marie Kispert (A.B. 1946) Oakland
- ² Inez Lewter (A.B. 1942 and M.A. 1946 Sam Houston State Teachers College)
Houston, Texas
- ² Norma Aileen Meyer Sebastopol
- ² Marion Lorraine Miles (A.B. 1944) Wasco
- ² Thelma J Petty (B.S. Florida A and M College 1942) Jacksonville, Florida
- ² MaryJane Watson (A.B. 1946) San Mateo
- ² Thomas DeLoss Welch (B.S. State University of Iowa 1943) San Francisco
- ² Lorine Ruth Wilkie (A.B. 1946) San Rafael
- ² Diana Gertrude Wilkinson (A.B. 1946) Oakland

COLLEGE OF DENTISTRY

POSTGRADUATE CURRICULUM IN DENTAL MEDICINE

Certificate of Completion to

- ² George Edward Wood (D.D.S. University of Minnesota 1942) . . Coeur d'Alene, Idaho

COLLEGE OF AGRICULTURE
TWO-YEAR CURRICULUM IN AGRICULTURE

Certificate of Graduation to

² Mary Louise Brainard.....Beaumont

SCHOOL OF NURSING

CURRICULUM IN NURSING

Certificate of Completion to

¹ Antoinette Andolfatto (B.S. 1947).....Gilroy
² Aza Barnes (B.S. 1947).....Los Angeles
¹ Amy Bauernschmidt (B.S. 1947).....Delhi
¹ Mitzi Lorraine Baumgarten (B.S. 1947).....Los Angeles
² Phyllis P Benson (B.S. 1947).....Montrose
¹ Elaine Lulu Berry (B.S. 1947).....Oakland
¹ Ida Fung Dear (B.S. 1947).....San Francisco
¹ Margaret Gercich Dooley (B.S. 1947).....Oakland
¹ Eleanor Eloise Drummond (B.S. 1947).....North Hollywood
¹ Phyllis Jean Edwards (B.S. 1947).....San Carlos
¹ Laura Heino Evans (B.S. 1947).....Glendale
¹ Lucy Harriet Fowler (B.S. 1947).....Fayetteville, Arkansas
¹ Barbara Mary Gibb (B.S. 1947).....Napa
² Ingrid Ramona Haapa (B.S. 1947).....Mill Valley
¹ Ruth Eileen Hill (B.S. 1947).....Redding
¹ Elva Jean Olson Hobson (B.S. 1947).....Kent, Washington
¹ Delsie Kanen Julien (B.S. 1947).....Los Angeles
¹ Miriam Ko Lau (B.S. 1947).....Dinuba
¹ LaVerne Alberta Lucas (B.S. 1947).....Walnut Creek
¹ Marie Alice McMillan (B.S. 1947).....Concord
¹ Allyra Neugebauer Medcalf (B.S. 1947).....Oakland
¹ Jeanie Campbell Merrill (B.S. 1947).....El Centro
¹ Helen Louise Niemann (B.S. 1947).....Watsonville
² Shizuko Oto (B.S. 1947).....Sacramento
¹ Barbara Webster Rutherford (B.S. 1947).....San Francisco
¹ Mary Patterson Shoemaker (B.S. 1947).....San Francisco
¹ Hilda Candida Sobral (B.S. 1947).....Hayward
² Ceral Spence Sturken (B.S. 1947).....Berkeley
¹ Dorothy Lorraine Wold (B.S. 1947).....Webster City, Iowa

DEGREES CONFERRED

COLLEGE OF PHARMACY

The Degree of Bachelor of Science in Pharmacy upon

- ² Walter Anderson, Jr. (A.B. San Jose State College 1940) San Pedro
¹ Ruben Leon Bassian San Francisco

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

- ¹ Dan James Alessini (B.S. 1943) Madera
¹ Alex Karl Bilensky (B.S. University of California at Los Angeles 1943) . . Los Angeles
² Harold Everett Johnson Van Nuys

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

- ² George Bertram Acton Berkeley
¹ Werner Lee Ahrbeck Oakland
² Bobby Richard Alm Glendale
¹ Robert Chetlain Anderson Piedmont
² Forrest Claire Bachman Santa Monica
² Dwight Neil Baisden Taft
² Bruce Maurice Baker Berkeley
¹ Hancock Banning, III San Marino
² Robert Franklin Batchelder Berkeley
² Richard Pershing Batteen San Fernando
¹ Robert Leroy Bergman San Bernardino
² Philip Guilloû Blackmore, Jr. San Francisco
² Harold Lenard Blumenthal San Francisco
² William Elwood Clinton Bonifield, Jr. Piedmont
¹ Margaret Joyce Brown Sacramento
¹ Richard Kimball Brown Berkeley
² Marion Alfons Brysiewicz Oakland
² Ysidro Arturo Cabrera Antioch
² William Roderick Cameron Hanford
¹ Keith Roderick Carey Long Beach
¹ Neal Asa Chism Twin Falls, Idaho
¹ Marilea Church San Francisco
¹ John Nathaniel Clark Oakland
¹ George Fredrick Coats Auburn
² Armand Samuel Cohn, Jr. San Francisco
² Ralph Emory Colburn Turlock
¹ Dolores Antoinette Collopy Sacramento
¹ Robert Stanhope Cutherell Sacramento
¹ Abney Dana Pasadena
² John Bond Danaher San Francisco
¹ Frank Welby Davis Oakland
² James Norton Donovan Stockton
² Charles Burrows Emery, Jr. Berkeley
² Phillip Eng San Antonio, Texas
¹ Bennet James Erickson Berkeley
¹ William Eudey Piedmont
¹ Robert Brevard Ewing Ontario
² William DeHart Fitzhugh, III Roanoke, Virginia
² John Paul Flannery Berkeley
¹ John Fred Folliard Berkeley
² George Phillip Frakes Oakland

² Lester Milton Friedman	San Diego
² Thomas Anthony Gianella, Jr.	Marysville
² Bertrand Claire Gibbons, Jr.	Kearney, Nebraska
¹ Gordon E Grannis	Lewiston, Idaho
² Robert Warren Griffith	Brea
² Robert Scott Haddow	Berkeley
² Stafford Mitchell Hall	Richmond
² John Hallsten	Kingsburg
¹ George William Hambly	San Jose
² Johnson Allen Hammond	San Francisco
² Charlotte Lee Hawes	Fort Worth, Texas
¹ Harold Carl Hohbach	Plankinton, South Dakota
² Richard Sanford Hyman	San Francisco
¹ Robert August Jaeger	Oak Park, Illinois
¹ Frederick Osamu Jinbo	Sacramento
² John Yoshizumi Kawachi	Guadalupe
¹ William Robert Keagy	Oakland
² Charles William Kieser	San Francisco
² Rudolph Siegmund Kupfer	Los Angeles
² Walter Haynes Kyle	Butte, Montana
² John Logan Lavette	San Francisco
¹ Charles Frederick Lester	Stockton
² Robert Theo McCartney, Jr.	Oakland
¹ Leroy Charles McCormick	Oakland
¹ William Gordon McDonald	Des Moines, Iowa
² Robert Bryant McIntosh, Jr.	Colorado Springs, Colorado
¹ Laurence Anthony Maes	Bakersfield
¹ Walter Fordyce Malsbary	Oakland
¹ Arthur Warner Middleton	San Francisco
¹ Eugene Molay	Hollister
¹ James Eugene Morris	Berkeley
² David Bernard Nemer	Los Angeles
² Howard Lynn Norton, Jr.	Sebastopol
¹ William Charles Nuoffer	Berkeley
² William Richard Ollerton	Oakland
¹ Erling George Olson	Wildrose, North Dakota
² Gerald Irving Orlin	Denver, Colorado
¹ Lonnie Roy Pathe	Bakersfield
² Jack Peary	New York, New York
¹ James Leon Pinkerton, Jr.	Riverside
¹ Maurice Wilkinson Powell	Sacramento
¹ Edward Arthur Prewett	Oakley
¹ Wesley Jones Pryor	Cedar City, Utah
² Douglas William Raaka	San Francisco
¹ Clement Joseph Renzi	Visalia
¹ Delmar Claire Rinfret	Lodi
² Rodney Lewis Roche	Van Nuys
² Edward Allen Rose	San Francisco
² William Douglas Sabiston	Berkeley
¹ Norman Trygve Saltnes	Brooklyn, New York
² Howard Robert Samuel	San Francisco
² Paul Richard Sauer	Fort Bragg
¹ Donald Smith	Davis
² Wilbur Larkin Spraggins	San Francisco
¹ Robert Foster Staib, Jr.	Pasadena
¹ Fred Gray Taplin	Berkeley
¹ William Eadie Thacker	El Centro
² Hugh Bernard Tierney	Alliance, Ohio
² David Prodger Tilles	San Francisco
² Byron Wilson Todd	Richmond
¹ William John Trebilcock, Jr.	Marquette, Michigan

2 James Wheeland Upp, Jr.	Berkeley
1 Harlan Kenneth Veal	Lafayette
1 Philip Stanley Voorheis	Berkeley
2 Voyin Nicholas Vukasin	Oakland
2 Randolph Harrison Washburn	Berkeley
1 Paul Whitesides	San Francisco
2 Samuel Jay Whiting, Jr.	Pleasanton
1 James Ellsworth Williams	Salinas
2 Robert Martin Wilson	Sacramento
1 Haruye Yoshiwara	Oakland

SCHOOL OF FORESTRY

The Degree of Bachelor of Science upon

2 Vernon Alfred Brown	Santa Barbara
2 Douglas William Clayton	Bakersfield
2 John Homer Gross	Hollywood
2 Robert Earl McCarthy	San Francisco

SCHOOL OF NURSING

The Degree of Bachelor of Science upon

1 Virginia Ruth Gillum	Dayton, Ohio
1 Beatrice Margaret Hanken	Oakland
2 Evelyn Edna Lee	Azusa
1 Helyn Cleone Lum	Menlo Park
1 Eva Maria Maas	Berkeley
2 Helen Teresa McVaney	Berkeley
1 Inez Marie Simon	Havre, Montana
2 Elizabeth Wood Sullivan	Danville

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

2 Wilber Keith Selvey	Del Norte, Colorado
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COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

1 William David Dyer	Glendora
2 Clark O Eads	Pomona
2 Robert Edward Gilbert	Oakdale
1 Mildred Green	Berkeley
1 Leander Laurel James, III	Palo Alto
2 Mary Joanne Leask	Waterford
1 Mary Louise Madsen	Sanger
2 Ross Reddington Miles	Santa Cruz
1 Catherine Elizabeth Nobles	Boonville
2 William Parnicky	Glendale
1 Berwyn Richards	Healdsburg
1 Adelia Roth Sabiston	Stockton
2 George Lamont Wood	Oakland
2 Frank William Zink, Jr.	Pasadena

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

² Berni Julian Alder	Berkeley
² Noel Martin Chin	Cross Roads, Jamaica
² Mildred Gee	Berkeley
² Calvin Hall Gibson	San Diego
¹ Donald Eugene Green	Woodland
² William Devere Harris	Marin City
² Eugene Clifford Jorgensen	Oakland
² George Kopas	San Francisco
¹ Edward Julius Leshan	Queen's Village, New York
² Octave Levenspiel	Honolulu, Territory of Hawaii
² Philip Richard Matthews	Oakland
¹ Laurence Stanley Miller	El Cerrito
² Monroe Aaron Postrel	San Francisco
¹ Edith Margaret Scadden	San Francisco
² Arthur Rodney Williams	Albuquerque, New Mexico

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

¹ Robert Horrall Armstrong	Industrial Engineering	Los Angeles
² Frank Millard Atwater	Civil Engineering	Los Angeles
¹ Charles Hodges Avery	Metallurgy	Bakersfield
² David Harold Baer	Mechanical Engineering	Los Angeles
¹ John David Barney	Mechanical Engineering	Pasadena
² Alvin Ernest Bernhard	Electrical Engineering	Los Angeles
² Paul Joseph Blake	Civil Engineering	San Diego
¹ Martin Aguila Chase	Civil Engineering	Riverside
¹ Alvin Donald Clark	Mechanical Engineering	Oakland
² Richard Carroll Cole	Mechanical Engineering	San Marino
¹ John Claude Coulter	Electrical Engineering	Berkeley
¹ Bruno Eliseo Dentino	Civil Engineering	Sacramento
² Charles Thomas Dishman	Metallurgy	Albany
² Donn Doerr	Industrial Engineering	Oakland
² Wilson Yuri Gutcheon	Electrical Engineering	New York, New York
A. B. University of California at Los Angeles, 1941.		
¹ Frank Richard Hanrahan	Electrical Engineering	San Francisco
² Wallace Frank Huey	Economic Geology	San Francisco
¹ Mark Karpusko Karp	Mechanical Engineering	San Francisco
² Takeo James Koyamatsu	Mechanical Engineering	Los Angeles
¹ Arden Krell	Mechanical Engineering	Los Angeles
¹ Charles Henry Krieger	Electrical Engineering	San Francisco
² Ralph Stewart Lee	Electrical Engineering	Vallejo
¹ Herman I Leon	Electrical Engineering	Berkeley
¹ John Owen McDonald	Mechanical Engineering	Los Angeles
² Gordon Eugene Martin	Electrical Engineering	San Diego
² William Albert Mayer	Electrical Engineering	Wilmington
² Robert William Meyer	Mechanical Engineering	Long Beach
² Robert Harry Nooter	Industrial Engineering	Richmond Heights, Missouri
¹ Sukehiko Ota	Mechanical Engineering	San Francisco
² George Louis Papatthakis	Electrical Engineering	San Francisco
² Ora Avery Phillips	Mechanical Engineering	Tracy
¹ Carl Silvius Replogle, Jr.	Civil Engineering	Piedmont
² David Burton Slemmons	Economic Geology	Oakland
¹ Glenn Graydon Snider	Civil Engineering	Monterey
² John Wesley Spiker	Civil Engineering	Redwood City
² George Edward Stocking	Mechanical Engineering	Sacramento

¹ Abraham Mark Triguboff.....	Electrical Engineering	Berkeley
¹ Robert W Vreeland.....	Electrical Engineering	Pasadena
¹ Gay Wollen Weber.....	Electrical Engineering	San Bernardino
¹ John Clifford Williams.....	Mechanical Engineering	Oakland
¹ Richard Bing Yin Wong.....	Electrical Engineering	Alameda

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

¹ Mary Angeline Anastole	¹ G Stewart Hodges
¹ George Franklin Anderson	² Elizabeth Jeanne Hook
² Jane Anderson	² Edna Irene Hornor
² Robert James Andrews	² Donald Wilkins Hoy
¹ Robert Warren Angell	¹ Nancy Jane Hudson
¹ John Malcom Askine	² Anne Carolyn Hutchinson
² Edith Annette Aynes	² Juliana Johnson
² Robert Vinther Balfour	¹ Dorothy Jung
¹ Laura Banarer	¹ Irwin William Kahn
¹ Max Barbour	¹ William Elvin Kendall
¹ Dorothy L Barker	² Albert John Kerbavaz
¹ William Elmer Bartley	^{*1} Richard Herbert Kirkpatrick
¹ Armond Bloch	² Russell Milton Koch
² Keith Thomas Blunt	¹ Edward Kong
² Billie Esther Bowman	¹ Doris Leonie Lascurettes
¹ Bates Louis Brian	² Marjorie Joyce LeVan
² Mary Dean Brubaker	² Samuel Harry Levine
^{*1} Robert Edward Burks	² Henry Hing-Kan Liu
¹ Gilda Rae Burnside	¹ Mary Louise Loper
² James Clyde Cannan, Jr.	² James Russell Lyons
² Harry Cass	² Francis James McCarthy
² Gaing Wing Chan	² John Thomas McKeever
¹ Thomas Wheeler Churchill, Jr.	² Shirley May McKinney
¹ Colleen Martha Clark	¹ John Kerr McLorie
¹ Vincent Ralph Colbert	¹ Charles Lowell Meadows
¹ Howard Wesley Costello	² Gordon Alex Moore
^{*1} Maurice Charles Couchot	² Lois Mae Moulin
² Gladys Maud Cowan	¹ James Patrick Mower
¹ William John Damele	¹ Robert Burdell Neilson
² Alvin Davis	² Richard Dustin Obits
¹ Harold Glenn Denham, Jr.	¹ Ernest Page
² Ruth Bergfeld Donkin	¹ Marie Isabelle Page
² John Dunworth	² Milman Parry
¹ Barbara Eleanor Franke	² Robert Henry Peterson
¹ Richard Charles Frost	² Olga Eleanor Petroff
² James Stanley George	² Webster Fred Phillips
¹ John Perry Geiger, Jr.	¹ Asa Stephen Pickett, Jr.
² Frederick Leslie Gilman	¹ Beva Cloyne Pilling
¹ Shirley Jean Gilmore	¹ Florence Ann Pisa
² John Hans Goldsmith	¹ John Paul Pritz
¹ Claire Elise Goodspeed	² James Mode Ray
² Otto Aldo Goth	¹ Edward Oscar Reyes
² Thomas William Griswold	² Martin J Richardson
¹ Marc Norman Gropper	² Ellis Hart Robinson
¹ Gerhard Kurt Hantke	² Patricia Alice Rosenwald
¹ Frederick Worthman Hebbard	¹ Bernice Marion Scherer
² Madelene Ruth Heinzer	¹ Cora Lee Schehrer
² John Leo Heiser	² Frances Vera Schmitt
¹ James George Higgins	¹ George Mathew Schramm
² Kenneth Duane Hinsvark	² John Scontriano

* As of June 19, 1947.

- ² Gilbert Leslie Searle
- ¹ Edwin Seymour Shapiro
- ¹ Sara Fahnestock Sheldon
- ¹ Jack Allen Silverman
- ¹ Patricia Jane Smith
- ¹ Roger William Smith
- ¹ Jerome Peter Solari
- ¹ Marion Louise Sork
- ¹ JoEllen Margaret Spindt
- ² Eileen Mary Stevens
- ¹ Beverly Myers Stirling
- ¹ Paul Stollin
- ² George Allen Taliaferro
- ¹ Mary Patricia Thornton
- ¹ Neil Frank Thrams
- ² John Waldo Trimm, Jr.
- ¹ Virginia May VanDeventer
- ² Burton Eugene Vaughan
- ¹ Jack Wahrhaftig
- ¹ Roberta-Ann Weeks
- ¹ Gerald Everett Wheeler
- ² Harriet Helen Werley
- ¹ Nancy White
- ¹ Joyce Marilyn Whitman
- ¹ Mary Louise Wiggins
- ² Ruth Rowlan Witter
- ² Cecelia Brown Woodman

The Degree of Bachelor of Arts upon

- ² William Charles Adams, Jr. Astronomy San Francisco
- ² Rosinda Camila Aja History San Francisco
- ¹ George Esborne Anderson Political Science Arcata
- ² Joyce Marie Anderson Journalism Aberdeen, South Dakota
- ² Nancy Louise Anderson Journalism San Francisco
- ¹ Elton Randolph Andrews General Curriculum Berkeley
- ¹ Percy Richard Angell, Jr. Psychology Berkeley
- ² Robert Kirkman Arnold Economics San Francisco
- ² Paul Davis Aubrey Zoölogy Santa Ana
- ² Leland Stillman Babcock German Sacramento
- ¹ Marjorie Blossom Bacher General Curriculum Compton
- ² Edward Forbes Bailey General Curriculum Yakima, Washington
- ² Jane Baker Public Speaking Antioch
- ¹ John Franklin Baker Psychology Berkeley
- ² Zoraida Isabel Baquero Spanish Cartago, Costa Rica, Central America
- ² Allen Hawley Bartel Physics San Francisco
- ² Frederick Otis Bartell Physics Sonoma
- ¹ Richard Jocelyn Bates General Curriculum Sacramento
- ¹ Donald James Baxter Journalism Oakland
- ² Gerald Norton Beallor Social Welfare Brooklyn, New York
- ² Beryl May Becker General Curriculum Westwood
- ² Charmaine D Beckman History San Francisco
- ² Edward Delos Beechert, Jr. History Puente
- ² Marjorie Frances Bell Psychology Oakland
- ¹ Rubén Beltrán Spanish San Francisco
- ¹ Doris Doáne Bennetts Art Sacramento
- ² Helen Elizabeth Bernard Physical Education San Francisco
- ¹ Harry Harvey Bickerton General Curriculum San Diego
- ¹ David MacDonald Biggar General Curriculum Bakersfield
- ² Lillian Rochelle Bleviss Decorative Art Los Angeles
- ¹ Barbara Joy Blume International Relations San Francisco
- ² Victor Richard Boisserée Geological Sciences San Francisco
- ² Joan Therese Borregard Political Science New York, New York
- ² Leo Ernst Borregard Political Science New York, New York
- ² MaryDee Womack Bowers General Curriculum Sacramento
- ² Carla Dolores Bradbury General Curriculum Carpinteria
- ² Earl Stephen Bradley Political Science Tucson, Arizona
- ¹ Robert Emmett Bright General Curriculum Berkeley
- ² Theodore Llewellyn Brown Biochemistry Westwood
- ² Nancy Lee Burris Social Welfare Oakland
- ² Leland Stanford Burstein Physiology Salinas
- ² Robert Dray Busey International Relations Burlingame
- ² Stanley Louis Cavell Music Sacramento
- ² David B Chan Education Oakland

¹ Norman Chan	General Curriculum	Oakland
² Arthur Allen Chapman	General Curriculum	Healdsburg
² Herschel Browning Chipp	Art	San Diego
² Arthur Samuel Cohn	Psychology	Los Angeles
¹ Nyla Jessamine Cole	General Curriculum	Wasco
² Peter George Condliffe	Biochemistry	Berkeley
¹ Robert Grosvenor Congdon	General Curriculum	Bristol, Rhode Island
¹ Thomas Boone Conway	General Curriculum	Modesto
¹ Eloise Crum	Spanish	Oakland
¹ David John Cummerow	Journalism	Alameda
² William Olmstead Damon	Art	Ventura
² David Wilson Daniels	Geography	Hamilton, Montana
² Frances Marie Davey	General Curriculum	San Francisco
² James H Denman	General Curriculum	Berkeley
² Robert Digges, Jr.	Political Science	Kentfield
² Frank William Dixon	Economics	El Centro
² Frank Thomas Duffy	Economics	Los Angeles
² John Paul Earl	Zoology	Richmond
² James Stephen Ellis	Physics	Santa Monica
¹ Nellie Winona Everett	General Curriculum	Yuba City
¹ Fred Albright Farnum	General Curriculum	Oakland
² Paul Fatt	Biochemistry	Los Angeles
² Nathan Arthur Feld	General Curriculum	Newark, New Jersey
² Walter Earle Field	Chemistry, Physics	Boston, Massachusetts
¹ Beverlee Howe Filloy	Social Welfare	Berkeley
² Frances Lee Fong	History	Oakland
² Benjamin Adam Frankel	General Curriculum	New York, New York
¹ Phyllis Ione Frates	Physical Education	San Francisco
² Pascal Bailey Frazier	Social Welfare	Washington, District of Columbia
¹ Mary Stoddard Galanis	Art	Berkeley
¹ Richard Gilmour Gall	General Curriculum	Berkeley
² Orvoell Roger Gallagher	Anthropology	St. Paul, Minnesota
² William Geffen	Political Science	New York, New York
¹ Ray Paul Genesy	Political Science	Berkeley
¹ Marjorie Doris Gerke	Regional Group Major on Hispanic America	Concord
² Stewart Jones Gilchrist	General Curriculum	Gilchrist, Oregon
¹ Ilene Stella Goldberg	Journalism	Portland, Oregon
¹ Maurice Sidney Goldberg	General Curriculum	Portland, Oregon
¹ Ilse Edith Goldsmith	Child Development	San Francisco
² Donald Allan Goodwin	General Curriculum	Montrose
¹ Helen Marjorie Griawold	General Curriculum	San Francisco
² Glen Milo Grosjean, Jr.	Oriental Languages	Richmond
¹ Jules Bernard Grossman	Psychology	Los Angeles
¹ Frank Raymond Gurriere	General Curriculum	Santa Cruz
² Mary Catherine Hagerty	General Curriculum	Berkeley
¹ Marjorie M Haines	General Curriculum	Susanville
² Gloria Patricia Hanley	Psychology	Los Angeles
¹ Marian Rudine Hansen	General Curriculum	San Mateo
¹ James Tranum Harrison	Physiology	Vallejo
¹ Lawrence Bright Harrison	Zoology	Prairie View, Texas
² William Charles Hart	Political Science	Sacramento
² Regina Kiracofe Hartmann	Political Science	Eureka, Kansas
² John Chenault Hecht, Jr.	Music	Beverly Hills
² Elin Helfenberger	Psychology	San Francisco
² Virginia Olanton Hennies	Social Welfare	Sacramento
¹ Beatrice Jean Henry	General Curriculum	San Francisco
¹ Barbara Louise Henshaw	General Curriculum	San Francisco
² Dythe-Mary Hertert	General Curriculum	Berkeley
¹ Jules Morton Heumann	General Curriculum	San Francisco
² Lewellyn Westcott Hicks	Economics	Belmont

2 James Alexander Houston	General Curriculum	Vallejo
1 Martha Albene Hunter	English	Los Angeles
2 Harold Anthony Hyde	General Curriculum	Berkeley
2 Glen Merton Iddings	Chemistry	Petaluma
2 Kenneth Hamlington Imrie	General Curriculum	Napa
1 Jerry Pinney Inglis	Social Welfare	Albany
1 Marjorie McClellan Janney	History	Berkeley
1 John Mark Johnston	Zoölogy	Pasadena
1 Everett Orson Jones	Psychology	Lost Hills
2 Irving Kauffman	Psychology	Richmond
1 Edwin Vincent Kelley	General Curriculum	Chicago, Illinois
1 Robert Lee Kintz	General Curriculum	Berkeley
2 Philip Franklin Kirk	Biochemistry	Berkeley
1 John Remy Kiser	General Curriculum	Napa
1 Samuel Herman Klebanoff	General Curriculum	Petaluma
1 Mary Kriger	Slavic Languages	Berkeley
1 Emile Lucien Labadie, Jr.	General Curriculum	San Luis Obispo
2 Kathryn Ladas	General Curriculum	Stockton
2 Renato Landolfi	Psychology	San Francisco
1 Richard Henry Larsen	General Curriculum	Santa Rosa
1 William Mack Lassleben	Economics	Whittier
2 Eva Ellen Lees	Spanish	Oakland
1 Howard Franklin Long	Medical Sciences	Oakland
2 Thomas Erford Losee	General Curriculum	Albany
2 Mimi Marie Low	Political Science	Palo Alto
1 Edward Potter McAleer	Political Science	Bakersfield
1 John Alexander McAllister	General Curriculum	Taft
2 James McBlair	History	San Diego
2 Warren Kendall McCarty, Jr.	Chemistry	Santa Ana
1 Mary Grace McFeeley	General Curriculum	San Francisco
1 Benson Richard McGann	General Curriculum	Suisun
2 Winton McKibben	Economics	Aurora, Illinois
2 Elisabeth Hope Macmeeken	Social Welfare	Berkeley
1 Raymond Thomas Manuel, Jr.	General Curriculum	Stockton
1 Curtis Marchant	French	Stockton
2 Maurice Shepherd Marcus	Economics	Yonkers, New York
2 Valerie Ellen Masson	Regional Group Major on Hispanic America	Dunsmuir
2 William Louis Mathé	General Curriculum	San Francisco
1 Natalie Margaret Menshikoff	Psychology	San Francisco
1 Florence Wells Merritt	General Curriculum	Livermore
1 Margaret Aileen Metzger	Psychology	Los Angeles
1 Marjorie Jane Minium	Psychology	Los Angeles
1 Virgil Harrison Mitchell	General Curriculum	Berkeley
2 George Joseph Monica	Psychology	Oildale
1 Walter Edwin Moore, Jr.	Economics	Oakland
1 Margaret Sybil Morison	General Curriculum	Riverside
1 Jack Walter Moshell	General Curriculum	Jacksonville, Florida
1 Patricia Myers	Regional Group Major on Hispanic America	Alton, Illinois
1 Thomas Wheeler Nagle	General Curriculum	San Diego
2 Minoru Paul Nakada	Physics	Azusa
1 Barbara Lee Nelson	General Curriculum	Berkeley
2 June Nieda	Social Welfare	San Leandro
1 Melville Bernard Nimmer	Political Science	Los Angeles
2 I Irene Nordling	General Curriculum	Burlingame
2 Barbara Ann Norton	International Relations	San Marino
1 Barbara Catherine Ohnemuller	History	Berkeley
1 Erling Johannes Oksenholt	General Curriculum	Larvik, Norway
2 Elaine Mildred Olson	General Curriculum	San Francisco
2 William Makoto Osuga	Philosophy	Sacramento

¹ Arthur Paul Pacheco	General Curriculum	San Francisco
¹ Janet Louise Padley	Art	San Carlos
¹ Ruth Emily Palmer	History	Los Angeles
¹ Mary Trotter Parkison	General Curriculum	Fullerton
² Audrey Jean Parry	English	Project City
¹ Francis Eugene Payne	Physiology	Taft
¹ Arthur Pearl	Psychology	San Francisco
² Wilbert Herbert Pearson	Regional Group Major on Hispanic America	Berkeley
² Robert Eugene Pfeiffer	Economics	Sacramento
² Dorlissa Ellen Phare	Psychology	Seattle
¹ Paul Richard Phillips	Economics	Riverside
² Renzo Louis Pochini	Psychology	San Francisco
¹ Joan Barbara Ponting	General Curriculum	San Francisco
² Branko Tom Popovich	International Relations	San Francisco
¹ Walter William Powers	Economics	Escalon
¹ Jack Leo Purcell	Economics	Oakland
¹ Edward Albin Pyle	General Curriculum	Albany
² Frank Wilbur Reanier	General Curriculum	Berkeley
² John Morse Rehfishch	Psychology	San Francisco
¹ John William Reidy	Journalism	San Francisco
² James Crawford Reilly	History	Piedmont
² Iris Katharina Rempel	Art	San Bruno
² Adeline Agnes Rens	General Curriculum	Sacramento
² Joseph William Robb	History	San Francisco
¹ Harvey Sanford Rogers	General Curriculum	San Francisco
² William Francis Rogers, Jr.	Economics	San Diego
¹ Benjamin George Rosenberg	Psychology	San Francisco
¹ Pearl Marchick Rosenthal	Social Welfare	Albany
¹ Charlotte Mae Ross	Political Science	Palo Alto
¹ Robert Rubin	Journalism	San Bruno
² Robert Lee Russell	General Curriculum	Santa Ana
² Floyd James Rutherford	Biochemistry	Berkeley
¹ Daniel Maney Schindler	General Curriculum	San Francisco
² Robert Lee Schley, Jr.	Economics	Berkeley
¹ Earl Carwile Segrest	Political Science	Berkeley
¹ Albert Sheldon	Psychology	San Francisco
¹ Duane Herschel Shipman	Economics	Eagle Grove, Iowa
¹ Mary Grace Silcox	General Curriculum	Taft
¹ Donald Everett Smith	General Curriculum	Oakland
¹ Lawrence Francis Smith	Psychology	Riverside
¹ Roland Charles Smith	General Curriculum	Oakland
² Roland Earl Smith	General Curriculum	Berkeley
¹ Myrtle Constance Solivan	Political Science	Saugus
¹ David Harrison Sparber	General Curriculum	Piedmont
² John Lester Spicer	General Curriculum	Los Angeles
¹ Joseph Robert Stark	Economics	Phoenix, Arizona
² Robert Austin Stayner	General Curriculum	Berkeley
² Jack Rodney Stearns	General Curriculum	San Bernardino
¹ Louis Herbert Stewart, Jr.	Psychology	Berkeley
² Robert Thore Strand	General Curriculum	Los Angeles
² Margaret Helen Strong	Political Science	Coalinga
¹ Richard Norwood Stuart	Physics	Medford, Oregon
¹ Lois Margaret Stutt	English	Alameda
¹ Earl Alfred Sykes	Journalism	Berkeley
¹ Milton Tabachnick	Chemistry	Kingston, New York
¹ Kaoru Tanamachi	Economics	Berkeley
² Lawrence Leslie Thomas	International Relations	Oakland
¹ James V Todesco	Economics	Fresno
¹ Margery Tomlinson	English	San Francisco
¹ Duane Newton Tweeddale	Zoology	San Francisco

¹ Wilbur Edward Twining	Physical Education	Oakland
² Gerald Anthony Ulrich	Economics	Los Gatos
² Marvin Lee Veregge	Political Science	Pittsburg
² Violet Maurine Vinyard	General Curriculum	Yuba City
² John William Volkoff	Slavic Languages	Berkeley
² Barbara Livingstone Ware	General Curriculum	Alameda
² Roger Thomas Wayland	International Relations	Berkeley
¹ Christie Ann Weatherby	International Relations	Berkeley
² James Matson Welles	General Curriculum	Riverside
¹ Lloyd G Wesley	Economics	Salinas
¹ David Raymond Westaway	Regional Group Major on Hispanic America	Santa Barbara
¹ John Martin Whalen	General Curriculum	San Diego
² Robert Linder Whiteley	General Curriculum	San Francisco
¹ Esther Louise Whitley	General Curriculum	Walnut Creek
¹ John Edward Whitney	Physiology	Piedmont
¹ Harry Whittaker, Jr.	General Curriculum	Whittier
¹ Dorothy Jessie Whittemore	Political Science	Ann Arbor, Michigan
² Terence Harrison Wilbur	German	Bakersfield
¹ Ruth Wilcox	English	Richmond
² Betty Jane Williams	English	Buffalo, New York
¹ Russell Blain Williams	General Curriculum	Oakland
¹ Searl Bertram Williams	Public Speaking	Berkeley
¹ Harry Elmer Wilson	General Curriculum	Oakland
² Milton Winston Wilson, Jr.	Political Science	Woodland
¹ Bonnie Louise Winger	General Curriculum	Bakersfield
² Joseph Wolfgang Winter	General Curriculum	Menlo Park
² Rodney Wayne Woodbury	General Curriculum	Berkeley
² Andrew Sturm Yeiser	Physics	Berkeley
¹ Edith Gim Yim	Social Welfare	San Francisco
² Paul Lane Young	General Curriculum	Chicago, Illinois
¹ William Walter Young	Journalism	Portland, Oregon
¹ Patricia Fui Yu Zane	General Curriculum	Honolulu, Territory of Hawaii
² Claire Marie Zanger	General Curriculum	San Jose
² Charles Lee Zeagler	Economics	Lufkin, Texas

GRADUATE DIVISION

CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ¹ Elizabeth Taft Van Den Bergh (A.B. 1947).....Alameda
Major: English; Minor: Social Studies.

CURRICULUM FOR THE TRAINING OF JUNIOR HIGH SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ¹ Ellen Irene Nataas (A.B. 1947).....Richvale
Major: Social Studies; Minor: English.

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ¹ Louise Mary Baciocco (A.B. 1946).....Colma
Major: Art; Minor: Italian.
- ¹ Olive Ann Biddle (A.B. Dominican College 1946).....Vallejo
Major: English; Minor: Social Studies.
- ¹ Rachael O Ballenger Burchard (A.B. Linfield College 1945).....San Diego
Major: English-Speech-Drama-Journalism; Minor: Social Studies.
- ¹ Yolanda Ann Cavallo (A.B. Dominican College 1946).....San Francisco
Major: English; Minor: Spanish.
- ² Columbus Brymer Courson, Jr. (A.B. 1941).....Weed
Major: Physical Education; Minor: English.
- ¹ Naomi Colleen Cummings (A.B. 1946).....Oakland
Major: Art; Minor: Social Studies.
- ¹ Dian Doreen Dinwiddie (A.B. 1944).....Oakland
Major: Speech; Minor: Spanish.
- ¹ Mary-Eleanor Fletcher (A.B. 1945).....San Francisco
Major: Social Studies; Minor: English.
- ¹ Adrian P Guilford (A.B. St. Mary's College 1944).....Berkeley
Major: Social Studies; Minor: English.
- ¹ Calder Hayes (A.B. 1947).....Berkeley
Major: Physical Education; Minor: Social Studies.
- ¹ Stanley Maxfield Honer (A.B. 1941).....Berkeley
Major: Social Studies; Minor: English.
- ² Joyce Strang Hoover (B.S. 1947).....Pasadena
Major: Home Making; Minor: Social Studies.
- ¹ Donald Eugene Johnson (B.S. Nebraska State Teachers College,
Kearney 1946).....Pasadena
Major: Physical Science; Minor: Mathematics.
- ¹ Gloria Ganong Johnson (A.B. 1944).....Fullerton
Major: Physical Education; Minor: English.
- ¹ William Edward Kearney (A.B. 1942).....Berkeley
Major: Physical Education; Minor: Life Science.
- ² John Rhuble Laughlin (A.B. 1945).....Whittier
Major: Physical Education; Minor: Life Science.
- ² Margaret Bowden Laughlin (A.B. 1945).....Sacramento
Major: Mathematics; Minor: Business Education.
- ² Evangelyn Lewis (A.B. 1947).....Long Beach
Major: Social Studies; Minor: Speech.
- ¹ Rose Bean Lewis (B.S. University of Utah 1946).....Salt Lake City, Utah
Major: Music; Minor: English.

- ¹ Alfred Merton Livingston (A.B. Chico State College 1944) Chico
Major: English-Speech-Drama-Journalism; *Minor*: Social Studies.
- ² Herbert James Marsh (A.B. 1947) San Leandro
Major: Social Studies; *Minor*: Physical Education.
- ² David Huson Meddaugh (B.S. 1935 and M.F. 1939 University of Michigan) San Pablo
Major: English; *Minor*: Life Science.
- ² Ilmi Anderson Meddaugh (B.S. State Teachers' College, Bridgewater,
 Massachusetts 1941) Wareham, Massachusetts
Major: English; *Minor*: French.
- ¹ Elizabeth Jean Molfino (A.B. 1946) Jackson
Major: English; *Minor*: Social Studies.
- ¹ Lois Clause Patterson (A.B. University of Oregon 1945) San Francisco
Major: English; *Minor*: Social Studies.
- ¹ Anka Perisich (B.S. 1945) San Francisco
Major: Business Education; *Minor*: Speech.
- ¹ Borden Bowne Price (A.B. 1938) Berkeley
Major: Social Studies; *Minor*: Speech.
- ² Murray Shapiro (A.B. 1947) Richmond
Major: Social Studies; *Minor*: English.
- ¹ Clarence Eugene Smith (A.B. 1943) Lindsay
Major: Physical Education; *Minor*: Business Education.
- ² Joan Denise Stanley (A.B. 1944) Oakland
Major: Social Studies; *Minor*: Business Education.
- ¹ Martin Anthony Tucker (A.B. 1946) Oakland
Major: Social Studies; *Minor*: English.
- ¹ Cornelius Benjamin Weber (A.B. 1942; M.A. 1947) San Francisco
Major: English; *Minor*: Social Studies.
- ¹ Leo James Whalon (A.B. 1946) Bakersfield
Major: Physical Education; *Minor*: Social Studies.
- ¹ Jack Walter Wilde (A.B. 1943) Oakland
Major: Social Studies; *Minor*: Speech.

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL SUPERVISORS

Certificate of Completion (School of Education) to

- ¹ Delia Rainey Roeder (A.B. 1944) Richmond

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ¹ Alice Esther Archibald (A.B. 1939) Oakland
- ¹ Alfred Francis Brown (A.B. San Jose State College 1938) San Jose
- ¹ Jean Chalmers Brown (A.B. University of Utah 1935) Oakland
- ¹ Edwin Wayland Petty (A.B. Chico State College 1941; M.A. 1947) Sacramento

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ² William Gustave Fischer (B.S. St Mary's College 1932) San Francisco
- ² John Edward Illia (B.S. St. Mary's College 1928) Occidental
- ¹ Homer Addison Irwin (A.B. San Francisco State College 1940) Berkeley
- ² Eulah Marguerite McCartney (A.B. 1928; M.A. 1941) Berkeley
- ² John Junior Overholtzer (A.B. University of California at Los Angeles
 1939; M.A. 1944) Pasadena
- ¹ Pearl Patton Pennington (A.B. 1925) Richmond
- ² Leland Sherwood Russell (A.B. Occidental College 1938) Los Angeles

- ¹ John P Sandretto (A.B. Carleton College 1929; M.A. 1938) Chisholm, Minnesota
- ¹ Leon Theodore Shaff (A.B. 1940) San Francisco
- ¹ Marian Brady Ward (A.B. 1935) San Francisco
- ¹ Carol Sandifur Wickert (A.B. 1929) Berkeley

CURRICULUM FOR THE TRAINING OF GENERAL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ¹ Weston McCarter Alt (A.B. 1936) Berkeley
- ² Joseph L Blanchard (A.B. Willamette University 1937; M.A. 1939) Salem, Oregon
- ¹ Robert Desmond Bourne (A.B. 1929) San Francisco
- ¹ Robert Watson Lyon (A.B. 1935) Hanford
- ¹ Dwight E Twist (A.B. University of Redlands 1937; M.A. 1938) Redlands
- ¹ John S Urlaub (B.S. St. Mary's College, Minnesota 1930; M.A. University of Oregon 1938) Salem, Oregon

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

- ¹ George Baker Adams, Jr. (B.S. 1941; M.S. 1947) San Francisco
Major: Chemistry; Minor: Physics.
- ¹ Warrington Wickham Colescott (A.B. 1942; M.A. 1947) Oakland
Major: Art; Minor: English.

DEGREES CONFERRED

**The Degree of Bachelor of Library Science (School of Librarianship) upon*

Harry Bach (A.B. 1943)	Berkeley
Marian Lois Blackie (A.B. University of California at Los Angeles 1946) ..	South Gate
Peter Thomas Conmy (A.B. 1924; M.A. 1927; Ed.D. 1937;	
M.A. Stanford University 1941)	Oakland
Barbara Jean Cope (A.B. 1946)	Berkeley
Rocco Crachi (A.B. New York University 1936)	Brooklyn, New York
LeVern William Cutler (A.B. Stanford University 1937)	Palo Alto
Dorothy Jean Donnelly (A.B. San Jose State College 1946)	San Jose
Lillian Elizabeth Eross (A.B. Wayne University 1946)	Detroit, Michigan
Ruth Elene Farmer (A.B. Willamette University 1946)	Salem, Oregon
Margaret Helen Garner (A.B. 1945)	Berkeley
Marcus Gold (A.B. 1942)	Oakland
William Keith Grainger (A.B. 1946)	Bakersfield
John Hawkins Gribbin (A.B. University of North Carolina 1942)	Asheville, North Carolina
Carl Wessberg Hamilton (A.B. Miami University 1942)	Dayton, Ohio
Beverly Hickok (A.B. 1941)	Berkeley
Elizabeth Harkins Howes (A.B. Knox College 1942)	Long Beach
Frances Briggs Jenkins (B.S. University of Illinois 1926; M.S. Tulane	
University 1928; Ph.D. University of Illinois 1937)	Metamora, Illinois
Margaret Jeanne Konkell (A.B. Fresno State College 1945)	Fresno
Wallace Carl Look (A.B. Humboldt State College 1942)	Eureka
Peter Joseph McCormick (A.B. University of San Francisco 1932) . . .	San Francisco
Henry Miller Madden (A.B. Stanford University 1933; M.A. Columbia	
University 1944)	Palo Alto
Thomas Bernard Murray (A.B. 1946)	Berkeley
Gertrude Elizabeth Nisbet (A.B. 1946)	Oroville
Sibyl Anne Pirtle (B.S. Texas Technological College 1940)	Tahoka, Texas
George Piternick (A.B. 1939)	Los Angeles
Lorene Pouncey (A.B. University of Texas 1946)	Corpus Christi, Texas
Curt Woldemar Reuss (A.B. University of Buffalo 1939; M.A. University	
of Washington 1941)	Sacramento
Samuel Rothstein (A.B. 1939 and M.A. 1940 University of British	
Columbia)	Vancouver, British Columbia, Canada
Harry Manuell Rowe, Jr. (A.B. 1946)	Berkeley
Helen Maureen Seybold (A.B. Nebraska State Teachers College 1946)	Kearney, Nebraska
David Thomas Springs (A.B. San Diego State College 1941)	San Diego
Margaret Ruth Studhalter (A.B. Texas Technological College 1939;	
M.A. University of Texas 1941)	Lubbock, Texas
Allen Fred Sugden (A.B. 1942)	Berkeley
Catherine Vickery Symons (A.B. Stanford University 1944)	Mountain View
Fern Inez Underhill (A.B. University of Redlands 1946)	Banning
Laura Meredith Wilson (A.B. Goucher College 1936)	Grosse Point, Michigan
Mary Jane Wilson (A.B. University of Illinois 1946)	Chicago, Illinois
Grace Vivian Winder (A.B. Mills College 1933)	Oakland
Jean Sebastian Yolton (A.B. University of Cincinnati 1945)	Berkeley

* As of June 19, 1947.

***The Degree of Master of Business Administration (School of Business Administration) upon**

- ² Frank Powers Aldrich Berkeley
B.S. 1946.
- ² Ralph Bardoff Alameda
B.S. 1943.
- ² Renauld Delaine Booth Oakland
B.S. 1942.
- ² David Ware Bradfield San Francisco
B.S. 1943.
- ² Samuel Cho Berkeley
B.S. 1937.
- ² Arthur William Gutenberg Pasadena
B.A.S. 1944; B.S. 1946.
- ² Eldon Sende Hendriksen Albany
B.S. 1941.
- ² Lawrence Martin Horg Fresno
A.B. Fresno State College 1946.
- ² Frank Stephinon Monroe San Francisco
B.S. 1942.
- ² Roy Stanley Nichols Fresno
A.B. Fresno State College 1944.
- ² Norman Allen Smith Seattle, Washington
A.B. University of Washington 1946.
- ² Kenneth Martin Steinsapir Oakland
B.S. 1941.
- ² John Robert Summerfield Berkeley
B.S. Massachusetts Institute of Technology 1938.
- ² Norman Eugene Taylor Oakland
A.B. 1941.
- ² Carl Alvin Trexel, Jr. Richmond
B.S. Massachusetts Institute of Technology 1942.
- ² Robert Guthrie Winterbourne San Lorenzo
B.S. University of Colorado 1942.

***The Degree of Master of Education (School of Education) upon**

- ² John Lewis LaJeunesse Agriculture Alameda
B.S. 1939.
- ² Martin George Mellon Agriculture Hollywood
B.S. Pennsylvania State College 1942.
- ² George Allen Sherman Agriculture Fullerton
B.S. 1942.

****The Degree of Master of Public Health (School of Public Health) upon**

- ² Clarence Walter Flood Los Angeles
A.B. Arizona State Teachers College, Flagstaff 1933.
- ¹ Glenn Dale Hutchinson Vallejo
B.S. and M.D. University of Nebraska 1935.
- ² William Jess Johnson Richmond
B.S. Utah State Agricultural College 1943.
- ² Sarah Mazelis Los Angeles
A.B. University of California at Los Angeles 1941.

* A comprehensive final examination in the major subject is required in lieu of a thesis.
 ** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

² Kenneth Cameron Ross Victoria, British Columbia, Canada
A.B. University of British Columbia 1939.

² Janet Mae Ruggles La Crosse, Wisconsin
B.S. State Teachers College, La Crosse, Wisconsin 1941.

****The Degree of Master of Social Welfare (School of Social Welfare) upon**

² Irene Augusta Kohl Le Mars, Iowa
A.B. Morningside College 1928.
Thesis: The use of psychiatric social workers in Pacific Area, American Red Cross during the war emergency.

² Marian Westwick Metz Forest Grove, Oregon
A.B. Pacific University 1933.
Thesis: A survey of the facilities for the care of the convalescent and chronically ill as contrasted with the need for such care in the City and County of San Francisco.

****The Degree of Master of Science upon**

² Ahmed Emad-Eldin Aboul-Nasr . . . Entomology . . . Washington, District of Columbia
B.S. Fouad I University 1942.
Thesis: The effect of CO₂ upon the frequency of wing-beat of *Drosophila virilis*.

² Raylene Elizabeth Adams Chemistry Pomona
B.S. 1947.
Thesis: Naphthoquinone type antimalarials.

² Alfred Paul Binsacca Metallurgy Soledad
B.S. 1943.
Thesis: Grain boundary melting of a magnesium alloy determined by electrical resistance measurements.

² Philip Roger Bolenbaker Chemistry Springfield, Pennsylvania
A.B. Pomona College 1944.

² Garland Wayne Brown Mechanical Engineering . . Indianapolis, Indiana
B.S. Purdue University 1942.
Thesis: Stresses in rectangular pressure vessels with rounded corners.

² Jacob Porter Frankel Civil Engineering San Francisco
B.S. 1944.
Thesis: The tensile and flexural strength of Portland cement mortar: an application of the statistical theory of the strength of brittle materials.

² Edward Clawson Anthony Freiling . . Chemistry San Francisco
B.S. University of San Francisco 1943.

² Abbas Gheselayagh Irrigation Teheran, Iran
B.S. University of Birmingham, England, 1939.
Thesis: Study in design and construction of hydraulic-fill earth dams.

² Frank Maurice Hamaker Mechanical Engineering San Francisco
B.S. 1943.
Thesis: An optical method of measuring the air temperature distribution in the boundary layer.

¹ Cecil Berdeen Haver Agricultural Economics Saskatoon,
B.S.A. University of Saskatchewan 1946. Saskatchewan, Canada

² Ralph House Chemistry Madera
B.S. 1943.

¹ Yee Kwong Kam Civil Engineering Hong Kong, China
B.S. Lingnan University 1943.
Thesis: Hydraulic models of spillways.

² Richard A King Agricultural Economics Richmond
B.S. University of Connecticut 1946.

² Harold Klein Mechanical Engineering Oakland
B.S. 1940.
Thesis: Methods of calculating boundary layer thickness in a supersonic nozzle.

¹ Dan Lewis Chemistry Berkeley
A.B. 1941.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- ² Wei-Guan Lin..... Electrical Engineering.....Canton, China
 Grad. National Tsing-Hua University 1939.
Thesis: Parasitic antenna arrays.
- ² Robert Michael Lukes.....Chemistry Bakersfield
 B.S. University of San Francisco 1943.
- ² William John McBride, Jr..... Electrical Engineering.....San Francisco
 B.S. 1942.
Thesis: Polarization modulation of electromagnetic waves.
- ¹ Donald Arthur Olson.....Agricultural Economics Alhambra
 B.S. 1942.
- ² Robert Louis Oswalt..... Chemistry Berkeley
 B.S. 1944.
- ² Govindbhai Ishwarbhi Patel..... Horticulture.....Savli, Baroda, India
 B.S. University of Bombay 1946.
- ² Chittajallu Krishna Rao..... Animal Husbandry... Triplicane, Madras, India
 Grad. Madras Veterinary College 1942.
- ² Bob Hugh Smith..... Electrical Engineering Berkeley
 B.S. 1944.
Thesis: Negative feedback as applied to acoustical systems.
- ¹ Thomas David Watkins, Jr..... Animal Husbandry Davis
 B.S. 1940.

****The Degree of Master of Arts upon**

- ² Douglas Whitten Allan.....History Providence, Rhode Island
 A.B. Brown University 1938.
Thesis: French security and the Peace Conference: a study of the struggle for the Rhine, 1918-1919.
- ² Jack Laverne Anderson..... Education San Jose
 A.B. San Jose State College 1932.
- ¹ Aileen Folliard Armstrong..... Education Oakland
 A.B. Texas State College for Women 1921.
- ² Helen Hinckley Austin..... Education Berkeley
 A.B. 1927.
- ¹ Louise Mary Baciocco..... Art Colma
 A.B. 1946.
- ² Eugene Hall Baker..... Education Oakland
 A.B. 1927.
- ² E Otto Barrett..... Physics Berkeley
 A.B. 1943.
- ¹ Lars Barstad Education Fresno
 A.B. Fresno State College 1934.
- ¹ Thomas Barclay Bell..... Physical Education San Francisco
 A.B. 1941.
Thesis: The validity of certain tests of endurance.
- ² Percival McCall Bliss..... Education Oakland
 A.B. 1930.
- ² James Lorin Brown..... French Hanford
 A.B. 1943.
- ² Wilma Buckman Education Berkeley
 A.B. Northwestern University 1929.
- ² Kenneth Vincent Castellino..... Education San Francisco
 A.B. 1942.
- ² Clayton Allen Castle..... Education Oakland
 A.B. 1926.
- ² Genevieve Marie Anne Cavanagh... French Santa Barbara
 A.B. 1944.
- ¹ Warrington Wickham Colecott..... Art Oakland
 A.B. 1942.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- ² Robert Irwin Cooper.....EconomicsBerkeley
A.B. Brooklyn College 1944.
Thesis: Trade unions and the small entrepreneur.
- ² Rollo Everett Darby.....ZoölogySebastopol
A.B. 1940.
Thesis: Food habits of the coyote (*Canis latrans*) in the north-central Sierra Nevada region of California.
- ² John Plennis Day.....EducationWalnut Creek
B.S. St Mary's College 1935.
- ¹ Albert Steven Derian.....Physical Education.....San Francisco
A.B. 1942.
Thesis: Some personality characteristics of athletes studied by the projective method.
- ² Rex Dunipace.....EducationSan Jose
A.B. San Jose State College 1935.
- ¹ Leland George Eisan.....EducationSan Francisco
A.B. 1929.
- ² William Winder Escherich.....HistoryLos Angeles
A.B. 1943.
Thesis: Juan Francisco de la Bodega y Cuadra in America, 1774-1794.
- ² David Felix.....HistorySan Diego
A.B. 1942.
Thesis: The development and political aspects of the Anglo-French loan of October, 1915.
- ² Herta Harriet Forster.....PhysicsSacramento
- ² Jules Herman Fraden.....EducationSan Francisco
A.B. 1937.
- ² Ezio Paul Gemignani.....EducationCrockett
A.B. San Francisco State College 1934.
- ² Beverly Henrietta George.....EducationSan Francisco
A.B. 1944.
- ² Patrick Donovan Goldsworthy.....BiochemistryBerkeley
A.B. 1941.
- ² James Howard Hall.....ZoölogyWillits
A.B. Humboldt State College 1940.
Thesis: The feeding mechanism in *Mercierella enigmatica* Fauvel.
- ² Jimmie Lee Landrum Hall.....ArtSan Bruno
B.F.A. University of Texas 1945.
- ² Ramsay Lord Harris.....EnglishClaremont
A.B. Colgate University 1923.
- ² Charles Vincent Hartung.....EnglishRiverside
A.B. 1938.
- ² Homer James Hastings.....EducationMaxwell
A.B. Chico State College 1942.
- ² Robert Oliver Hatfield.....PsychologyBerkeley
A.B. 1946.
Thesis: The use of modified psychoanalysis in schizophrenia and schizoid conditions.
- ² Marga Hedrick.....HistoryNew Haven, Connecticut
A.B. Vassar College 1944.
Thesis: The foreign policy of Walther Rathenau.
- ¹ Norman Brill Herkenham.....ZoölogyOakland
B.S. 1940.
Thesis: Food habits of the ring-necked pheasant (*Phasianus colchicus*) in the Sacramento Valley, California.
- ² Margaret Elaine Hill.....EducationLaguna Beach
A.B. 1940.
- ² William Elmer Hines.....EducationPortland, Oregon
A.B. Simpson College 1936.
- ² Fred Nels Holmquist.....PhysicsPhoenix, Arizona
B.S. University of Washington 1944.

- ² Betty Pumphrey Hurd Physics Berkeley
A.B. 1944.
- ² Richard Lewis Jarboe Education Arcata
A.B. Humboldt State College 1941.
- ¹ William David Kaplan Zoölogy Newton Center, Massachusetts
A.B. Brooklyn College 1936; M.A. Harvard University 1937.
- ² Joseph McDonnell Kavanagh Education Hayward
B.S. 1930.
- ² Charles Francis Kenney Education San Francisco
B.S. University of San Francisco 1939.
- ² Clifford Preston Ketsel Political Science Los Angeles
A.B. University of California at Los Angeles 1942.
Thesis: International control of atomic energy.
- ² Ruth Kornblum Biochemistry New York, New York
A.B. Hunter College 1941.
- ² Clifton Brown Kroeber History Berkeley
A.B. 1943.
Thesis: Garcia Hurtado de Mendoza, Viceroy of Peru, 1588–1596.
- ² Teh Ping Lin Zoölogy Chao-an, China
B.S. National Central University 1939.
Thesis: Heterochromatin and chromatin diminution in *Ascaris*.
- ² Joseph Henry Lynn Education Sacramento
A.B. University of Michigan 1942.
- ² Lyle Nelson McAlister History Berkeley
B.S. State College of Washington 1938.
Thesis: British interest in the Nicaraguan transisthmian route 1648–1798.
- ² Mary MacWilliam Education San Francisco
A.B. San Francisco State College 1938.
- ² Margaret Anne Mahoney Education Ronan, Montana
A.B. Montana State University 1935.
- ² John William Masley Physical Education Boulevard
B.S. Northern Illinois State Teachers College 1946.
Thesis: Somatotypes in relation to gross motor abilities.
- ² William Harter Miller History Canton, Ohio
A.B. College of Wooster 1940.
Thesis: Cattleman vs. settler: the struggle for control of the great plains.
- ² Satoru George Mizunoue Biochemistry San Francisco
B.S. University of Denver 1945.
- ² Gaylord Arthur Nelson Physical Education Oakland
A.B. 1942.
Thesis: Personality and attitude differences associated with the elective substitution of military training for the physical education requirement in high school.
- ¹ Harriet Schneider Nicewonger Librarianship Berkeley
A.B. Mills College 1926.
- ² Vernon C. Noble Education San Anselmo
A.B. San Francisco State College 1941.
- ¹ Leighton Allen Nugent History San Francisco
A.B. DePauw University 1945.
Thesis: Eighteenth century commerce of the American Colonies with southern Europe.
- ² Walter Dorn Obrist Psychology Yonkers, New York
B.S. Harvard University 1946.
Thesis: A study of electrical skin resistance.
- ² Herbert Raffeld History Chicago, Illinois
A.B. Northwestern University 1942.
Thesis: The Jesuit missions of Guayrá (1588–1633).
- ² Richard Brewer Rice History Berkeley
A.B. 1945.
Thesis: The Manzanar War Relocation Center.

- ² Reed Cott Richardson Economics Salt Lake City, Utah
B.S. Utah State Agricultural College 1944.
Thesis: Economic security among the Mormons.
- ² Emma Cleora Ritz Education Galt
A.B. 1936.
- ² Michael Courtney Rogers Oriental Languages San Diego
A.B. 1946.
- ² Joseph Lloyd Rood Physics Long Beach
A.B. 1943.
- ² Leon Edward Salanave Astronomy San Francisco
A.B. 1940.
Thesis: A precise determination of the radiant of the Giacobinid Meteors, from
photographs taken at the Students' Observatory on October 9, 1946.
- ² Harriet Miller Schutte Education San Diego
B.S. University of Kansas 1941.
- ² Ren Hwa Shan Botany Kiangsi, China
B.S. National Central University 1934.
- ² Ellis K Shideler Education Sebastopol
A.B. Chico State College 1941.
- ² Clement Sylvester Skrabak Education San Pablo
A.B. 1933 and B.S. 1934 Western Reserve University.
- ¹ Charles Edwin Smith, Jr. Economics Fontana
B.S. 1946.
Thesis: A phase in the economic history of California, 1847-1849.
- ² Rose Spivak English Los Angeles
A.B. University of California at Los Angeles 1942.
- ² Anna Cecelia Stewart French Long Beach
A.B. University of California at Los Angeles 1936.
- ¹ Malvern Leigh Strohbehn Education Waterloo, Iowa
A.B. Iowa State Teachers College 1937.
- ² Herbert M Sussman Anatomy San Francisco
A.B. New York University 1943.
Thesis: The metrial gland in the rat.
- ² Philip Bates Taylor, Jr. Political Science Berkeley
A.B. 1942.
Thesis: The relations of Brazil with the United States since 1937.
- ² Barbara Ann Walker Political Science Indianapolis, Indiana
A.B. The Principia 1943.
Thesis: The labor policy of the Cuban government since 1925.
- ² Elizabeth Wallerstein Biochemistry Richmond, Virginia
B.S. University of Chicago 1942.
- ² Howard Peter Wallstrum Education Grass Valley
A.B. 1941.
- ² Marvin Aaron Weinstein Physics Cleveland Heights, Ohio
B.S. Western Reserve University 1944.
- ² Richard Jerome Weiss Physics New York, New York
B.S. College of the City of New York 1944.
- ² Laurence William Wendt Education Parker, South Dakota
A.B. Dakota Wesleyan University 1934.
- ² Ruth Hall Whitfield History Monrovia
A.B. 1935.
Thesis: Public opinion and the Chinese question in San Francisco, 1900-1947.
- ² Robert Morgan Wieman Philosophy Chicago, Illinois
A.B. Central College 1942.
- ² Paul Garland Williamson Economics Ventura
A.B. 1940.
Thesis: Labor in the California citrus industry.
- ² Woodrow William Wilson History San Francisco
A.B. Southwestern Louisiana Institute 1940.
Thesis: Southern opposition to the annexation of Texas.

- ² James Merritt Winans Education Berkeley
A.B. 1939.
- ² Mary Muyen Woo Statistics Vancouver, British Columbia,
A.B. University of British Columbia 1944. Canada
- ² Paul Eldon Yoder Physiology Fresno
A.B. Fresno State College 1946.
Thesis: A study of the effect of dietary protein intake upon the increased nitrogen
excretion following fracture.
- ² Louis James Zitnik Economics Los Angeles
A.B. University of California at Los Angeles 1945.
Thesis: The trend of collective bargaining in petroleum production, refining, and
pipe line transportation departments in California.
- ² Jacqueline Zweigart Psychology Berkeley
A.B. 1946.
Thesis: A comparison of the reactions of homosexual and heterosexual women to
a drawing-completion test composed of outlines of ambiguous human figures.

The Degree of Bachelor of Laws (School of Jurisprudence) upon

- ¹ Altero D'Agostini (A.B. 1941) Plymouth
- ¹ Donald Pearson Falconer (A.B. 1940) Berkeley
- ¹ Nancy Clare Kepple (A.B. 1944) Watsonville
- ¹ Frank Lucore Sprague (A.B. 1940) Oakland
- ¹ Lyle Herbert Turner (A.B. 1940) Canton, Ohio
- ² Enid Elizabeth Weseman (A.B. 1940) Berkeley

The Degree of Doctor of Philosophy upon

- ² Donald Thomas Campbell Psychology San Bernardino
A.B. 1939.
Thesis: The generality of a social attitude.
- ² Howard William Crandall Chemistry Los Angeles
B.S. 1943; M.S. 1944.
Thesis: The formula and structure of uranyl ion.
- ² Robert Cowden Dickson Entomology Lindsay
A.B. University of Redlands 1929; M.S. 1938.
Thesis: A study of the factors governing the induction of diapause in the Oriental
fruit moth.
- ² Roy Chester Feber, Jr. Chemistry Lincoln, Nebraska
B.S. University of Nebraska 1942.
Thesis: A polarographic study of some metal inner complex salts.
- ² Felix Friedberg Biochemistry Denver, Colorado
B.S. University of Denver 1944.
Thesis: Studies in protein metabolism.
- ² Robert Hartwig Frost Physics Riverside
A.B. 1939; M.A. 1945.
Thesis: The specific ionization of electrons in hydrogen, helium, and argon, ob-
served in a Wilson cloud chamber.
- ² Paul Wilson Gilles Chemistry Kansas City, Kansas
A.B. University of Kansas 1943.
Thesis: The vapor pressure and heat of sublimation of graphite.
- ² Alfred F Glixman Psychology Berkeley
B.S. College of the City of New York 1942.
Thesis: An experimental study of some of the interrelationships between recall and
resumption of complete and incomplete activities in neutral and stress situations.
- ² Cornelius Groot Chemistry Berkeley
B.S. 1940 and M.S. 1942 University of Chicago.
Thesis: The solubility of phosphorus in organic solvents.
- ² Mark Gurevitch Physics Los Angeles
A.B. 1938.

Thesis: Nuclear stability of the isobaric pair

115	115
In	— Sn
49	50

- ² Charles Frederick Howard Education Saskatoon, Saskatchewan, Canada
A.B. 1935 and Ed.B. 1938 University of Saskatchewan; M.A. 1940.
Thesis: Three methods of developing children's concepts of fractions in Grades V and VI of the elementary school.
- ¹ Frank Laycock Education San Francisco
A.B. 1943; M.A. 1944.
Thesis: An experimental study of flexibility in reading rate among candidates for college matriculation.
- ² Carlton James Leith Geology Madison, Wisconsin
A.B. 1940 and M.A. 1941 University of Wisconsin.
Thesis: Geology of the Quien Sabe Quadrangle, California.
- ¹ Harold Edwards McCarthy Philosophy Berkeley
A.B. 1937; M.A. 1942.
Thesis: Problems in aesthetic evaluation.
- ¹ Wayne Franklin McIntire Education Provo, Utah
A.B. 1936 and M.A. 1938 Brigham Young University.
Thesis: The emergency teacher.
- ² David Wesley Mitchell Metallurgy San Francisco
B.S. 1938; M.S. University of Utah 1941.
Thesis: On the thermodynamic properties of magnesium nitride.
- ² Elwyn Aisne Morey Education Melbourne, Australia
A.B. 1935, M.A. 1937 and Ed.B. 1941 University of Melbourne.
Thesis: Vocational interests and personality characteristics of women teachers.
- ² Leon Owen Morgan Chemistry Berkeley
A.B. Oklahoma City University 1941; M.A. University of Texas 1943.
Thesis: Isotopes of the new element, Americium (atomic number 95).
- ² Robert Vincent Nauman Chemistry East Stroudsburg, Pennsylvania
B.S. Duke University 1944.
Thesis: Phosphorescence and the chemical constitution of aromatic compounds.
- ² Paul Radell O'Connor Chemistry Milwaukee, Wisconsin
A.B. Haverford College 1942; M.S. University of Wisconsin 1944.
Thesis: The chemical identification of isotopes formed by the bombardment of uranium with high energy particles.
- ² Alton Byron Oviatt History Manti, Utah
B.S. Utah State Agricultural College 1940; M.S. University of Utah 1943.
Thesis: The movement of a northern trail: the Mullan Road, 1859-1869.
- ² Howard Clyde Payne History Berkeley
A.B. 1938; M.A. 1941.
Thesis: French regionalism, 1851-1914: a study of the principal alternatives to administrative centralization.
- ² Richard Alan Reinhardt Chemistry Berkeley
B.S. 1943.
Thesis: The properties of solutions with pure sulfuric acid as the solvent.
- ² Milton Rokeach Psychology Brooklyn, New York
A.B. Brooklyn College 1941; M.A. 1941.
Thesis: Generalized mental rigidity as a factor in ethnocentrism.
- ² William Haddock Simons Mathematics Vancouver, British Columbia,
A.B. 1935 and M.A. 1937 University of British Columbia. Canada
Thesis: Modular functions of stufe 2.
- ² Nathan William Snyder Mechanical Engineering Los Angeles
B.S. 1941; M.S. 1944.
Thesis: The cooling of freely-falling water-drops.
- ² John Walter Swenson Astronomy Evanston, Illinois
B.S. 1941 and M.S. 1943 University of Chicago.
Thesis: The light echo and nebulosity of Nova Persei 1901.
- ² John Richard Thomas Chemistry Berkeley
B.S. 1943.
Thesis: The gas dielectric constants of some halogenated ethanes.

HONORS WITH DEGREES
HONORABLE MENTION WITH THE DEGREE OF
ASSOCIATE IN ARTS

AUGUST-SEPTEMBER, 1947

IN THE COLLEGE OF LETTERS AND SCIENCE

- | | |
|--------------------------------------|---|
| ² Edith Annette Aynes | ¹ Frederick Worthman Hebbard |
| ² Robert Vinther Balfour | ² John Leo Heiser |
| ¹ William Elmer Bartley | ² Kenneth Duane Hinsvark |
| ¹ Armond Bloch | ¹ Ernest Page |
| ¹ Bates Louis Brian | ² Milman Parry |
| ² Gaing Wing Chan | ¹ Asa Stephen Pickett, Jr |
| ¹ Howard Wesley Costello | ¹ Cora Lee Schehrer |
| ² Gladys Maud Cowan | ¹ George Mathew Schramm |
| ² John Dunworth | ¹ Edwin Seymour Shapiro |
| ¹ Richard Charles Frost | ¹ Roger William Smith |
| ² Thomas William Griswold | ¹ Jerome Peter Solari |
| ¹ Marc Norman Gropper | ¹ Paul Stollin |
| ¹ Gerhard Kurt Hanthe | ² Harriet Helen Werley |

HONORS WITH THE BACHELOR'S DEGREE

IN THE SCHOOL OF BUSINESS ADMINISTRATION

- | | |
|------------------------------------|--------------------------------------|
| [*] Luther James Avery | ² Rudolph Siegmund Kupfer |
| ² James Norton Donovan | ¹ Laurence Anthony Maes |
| ² George Phillip Frakes | ² David Bernard Nemer |
| ² Charlotte Lee Hawes | ¹ Harlan Kenneth Veal |

IN THE COLLEGE OF AGRICULTURE

AGRICULTURE

- ¹ Berwyn Richards

IN THE COLLEGE OF CHEMISTRY

- | | |
|---------------------------------|--|
| ² Berni Julian Alder | ² Eugene Clifford Jorgensen |
| ² Calvin Hall Gibson | ² Arthur Rodney Williams |

IN THE COLLEGE OF ENGINEERING

- | | |
|-------------------------------|----------------------------------|
| ¹ Herman I. Leon | ² Robert Harry Nooter |
| ¹ Gay Wollen Weber | |

IN THE COLLEGE OF LETTERS AND SCIENCE

ART

- ² Herschel Browning Chipp

ECONOMICS

- ¹ Duane Herschel Shipman

^{*} As of February 6, 1947.

GENERAL CURRICULUM*Highest Honors*¹ Nyla Jessamine Cole**GERMAN**² Leland Stillman Babcock² Terence Harrison Wilbur**HISTORY**¹ Marjorie McClellan Janney**INTERNATIONAL RELATIONS**² Lawrence Leslie Thomas*Highest Honors*¹ Christie Ann Weatherby**PHYSICS**² Frederic Otis Bartell² Minoru Paul Nakada¹ Richard Norwood Stuart**POLITICAL SCIENCE**² Joan Therese Borregard¹ Melville Bernard Nimmer*Highest Honors*² Leo Ernst Borregard**PSYCHOLOGY**¹ Jules Bernard Grossman² Irving Kauffman² John Morse Rehfsch*Highest Honors*¹ Louis Herbert Stewart, Jr**SLAVIC LANGUAGES**¹ Mary Kriger² John William Volkoff**SOCIAL WELFARE***Highest Honors*¹ Beverlee Howe Filloy**SPANISH***Highest Honors*² Eva Ellen Lees

UNIVERSITY OF CALIFORNIA



CERTIFICATES, DEGREES,
AND HONORS

FEBRUARY, 1948

In this list the superior figure ² will denote awards of February 5, 1948. Section II of this list will contain the names of students to whom degrees are awarded at the University of California at Los Angeles, Santa Barbara College, and Davis, 1947-1948.



CERTIFICATES AWARDED

COLLEGE OF DENTISTRY

POSTGRADUATE CURRICULUM IN DENTURE PROSTHESIS

Certificate of Completion to

² Carl B Stansbury (D.D.S. University of Southern California 1938) San Diego

COLLEGE OF AGRICULTURE

TWO-YEAR CURRICULUM IN AGRICULTURE

Certificate of Graduation to

² Francis Allen Palo Alto
² Richard Philip Barbaccia San Jose
² Stanley McDougall Berry Bellflower
² Augustine Lawrence Booth, Jr. San Francisco
² Eugene Clayton Bricker Alameda
² Robert Garretson Bronner Orange
² James George Bruce Tujunga
² Carl Anders Burgeson Palo Cedro
² Clarence Wilbur Clark, Jr. Arcadia
² Richard Daniel Creitz San Leandro
² Donald Frank Cummings San Francisco
² William Brooks DeLong San Francisco
² Madison Fiske Dewey Beverly Hills
² David Lewis Dick San Jose
² Martin Espinal Portola
² Lotte Eva Frankl San Francisco
² George Jamison Garrett Berkeley
² John Georgi Herald
² Gordon Gojkovich Fairfield
² William Guirola San Salvador, El Salvador
² Martin Karl Hartwig Los Angeles
² George Henry Heringer Clarksburg
² Paul Norman Hochmuth Plainsboro, New Jersey
² James Tsutomu Kai Los Angeles
² John Francis Kelly Los Angeles

3 Stanley Lewis Kennedy.....	Stockton
3 Carl Emanuel Lindquist.....	Los Angeles
3 John Burleson Lyttle.....	Ojai
3 Naomi Faye Mast.....	Capay
3 James Dio Meikle.....	Turlock
3 William P Merola.....	Clearlake Oaks
3 Norris Wayne Miller.....	Sacramento
3 Gakuji Mizuki.....	Sanger
3 Norman Wolfe Morton.....	Davis
3 Gale Ernest Mountford.....	San Francisco
3 Edwin Ohki.....	Livingston
3 Benjamin Okuye.....	Livingston
3 Alice Eleanor G Patrick.....	Sacramento
3 William Michael Robinson.....	San Francisco
3 Milton Gilbert Silva.....	Hayward
3 Robert Joseph Silva.....	Hayward
3 Lloyd Gee Sinclair.....	Davis
3 Carl Harlan Spurlock, Jr.....	Suisun
3 Henry Kay Yip.....	San Francisco

SCHOOL OF NURSING

CURRICULUM IN PUBLIC HEALTH NURSING

Certificate of Completion to

Class A

3 Dorothy Carolyn Cunningham (B.S. 1944).....	Visalia
3 Marie Louran Jenkins (B.S. 1945).....	San Luis Obispo
3 Lucy Mouradian (B.S. 1945).....	San Francisco
3 Muriel Ruth Sickler (B.S. 1944).....	Berkeley
3 Kathleen Margaret Smith (B.S. 1944).....	Antioch
3 Yaeko Suyama (B.S. 1940).....	Monterey

Class B

3 Pauline Athey (B.S. 1947).....	Livermore
3 Charlotte Bambino (B.S. 1947).....	San Anselmo
3 Joan Louise Collette (B.S. 1947).....	North Tonawanda, New York
3 Virginia Tucker Epps (B.S. 1947).....	San Francisco
3 Antoinette Margaret Gattuccio (B.S. 1947).....	San Jose
3 Beatrice Margaret Hanken (B.S. 1947).....	Oakland
3 Effie Belle Hinds (B.S. 1947).....	Montebello
3 Helyn Cleone Lum (B.S. 1947).....	Menlo Park
3 Mildred Isabelle MacLay (B.S. Teachers College, Columbia University 1936; B.S. 1947).....	Berkeley
3 Lorraine Mildred Poertner (B.S. 1947).....	Oakland
3 Joan Marie Pritchard (B.S. 1947).....	Santa Clara
3 Mary Beckwith Quick (B.S. 1947).....	Oakland
3 Dorothy Margaret Rehse (B.S. 1947).....	Orland
3 Helen Ashton Saunders (B.S. 1947).....	Oakland
3 Kathleen Schottky (A.B. Stanford University 1945; B.S. 1947).....	Mariposa
3 Inez Marie Simon (B.S. 1947).....	Havre, Montana
3 Ruth Lillian Wagner (B.S. 1947).....	Napa
3 Marie Helene Weis (B.S. 1947).....	Galt

CURRICULUM IN NURSING EDUCATION

Certificate of Completion to

Class B

3 Virginia Ruth Gillum (B.S. 1947).....	Wynnewood, Pennsylvania
3 Hanna Sakamoto (B.S. 1945).....	Richmond

CURRICULUM IN NURSING

Certificate of Completion to

• Jean Hill Box (B.S. 1947)	Montgomery Creek
• Beverly Baynes Brown	Long Beach
• Barbara Jean Carpenter	Livingston
• Janet Louise Gallagher	Stockton
• Yvonne Edlo Goldenberger	Gustine
• Shirley Jean Griffeth	Larkspur
• Edna Belle Hammon	Phoenix, Arizona
• Margie Anne Hoke	San Diego
• Elsie Irene Hurst	Salinas
• Barbara Claire Hyams	San Francisco
• Gene Jack	Richmond
• Wilma Jean Johnson	Los Angeles
• Betty Jo Linn	Glendale
• Elizabeth Ann McDonald	Oakland
• Dorothy Ann Neely	Twin Falls, Idaho
• Elva Mae Peters	Concord
• Patricia Lou Pfaltzgraff (B.S. 1947)	Richmond
• Lois Aileen Pierini	Sacramento
• Irene Pope	Berkeley
• Lois Ilene Powers	Visalia
• Eleanore Waldron	Los Angeles
• Margaret Jane Cooney Walton (B.S. 1947)	Oakland
• Lois Cecelia Watson	Stockton

SCHOOL OF OPTOMETRY

Certificate of Completion to

• J Edwin Weisser	Los Angeles
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DEGREES CONFERRED

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

* Andrew Auyong (A.B. 1942; B.S. 1947).....	Honolulu, Territory of Hawaii
* Kermit Haines Brooks (B.S. 1941).....	Willows
* Walter Wai Dang (B.S. 1947).....	Oakland
* John Haase (B.S. 1947).....	Los Angeles
* Sidney Kerston (B.S. Washington State College 1940; M.S. University of Michigan 1941).....	Santa Monica
* Robert Roy Longstreth (B.S. 1947).....	Turlock
* Lloyd Thomas Mitchell (B.S. 1947).....	Sacramento
* Robert Folmer Wildrick (B.A. State University of Iowa 1942).....	San Francisco

The Degree of Bachelor of Science upon

* Kermit Haines Brooks (B.S. 1941).....	Willows
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SCHOOL OF ARCHITECTURE

The Degree of Bachelor of Arts upon

* James Frank Bernard.....	Huntington Park
* Richard Ake Bohn, Jr.....	Oakland
* Robert William Campini.....	Lakeport
* Fred Fong Gee.....	Sacramento
* Ted Richard Moulton.....	Chillicothe, Ohio
* Frederic Samuel Schachtman.....	Oakland
* Grover William Taylor.....	Alameda

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

* Charles Andersen Adams.....	Tulsa, Oklahoma
* Claude Irwin Allen.....	Maywood
* Hila Walter Anderson, Jr.....	San Diego
* Alice Joyce Atwood.....	Berkeley
* Francis Joseph Baron.....	San Francisco
* William Paul Barsanti.....	Tonopah, Nevada
* Mario Henry Barsotti.....	San Francisco
* Jamshid Basseri.....	Teheran, Iran
* John Bateson.....	Hudson Falls, New York
* Woodwerth Charles Bein.....	Teaneck, New Jersey
* Edward VanPatten Blackmore.....	San Francisco
* Edwin Brisbane Blake.....	Burlingame
* Samuel Merritt Bloomer, Jr.....	Burlingame
* William Kenneth Bock.....	Sacramento
* George Allyson Borglum.....	Alameda
* Gilbert Cortez Bracken.....	Berkeley
* Peter Caldwell Burd.....	Berkeley
* Kenneth Leslie Butterfield.....	Berkeley
* James Robert Calhoun.....	Berkeley
* Donald Myron Carlson.....	San Francisco
* Harry Paul Carpenter.....	Maywood
* Paul Edwin Chapman, Jr.....	San Francisco
* Dallas LaVern Christenson.....	Oakland
* Charles Delaney Christian.....	Oklahoma City, Oklahoma
* William Wood Clark.....	Berkeley
* James Sherwood Cline.....	Los Angeles
* Leo George Connolly, Jr.....	San Francisco
* Robert William Corlett.....	Napa

Virginia Iva Crawford.....	Pomona
Charles Stanley Cristol.....	Fort Worth, Texas
Charles Hutchins Currier, Jr.....	Oakland
Allan Earl Dean.....	San Jose
David Aubry Dolgin.....	San Francisco
Donald Peter Donahue.....	San Francisco
Alton Stewart Donnelly.....	Oakland
Marechal Niel Duncan.....	San Diego
Thomas Arthur Edwards.....	Oakland
Stanley Glenn Eisner.....	Fortuna
Keith Stanton Ellis.....	Claremont
Earl Theodore Esse.....	Berkeley
Neil Alfred Evensen.....	San Bernardino
Robert Joseph Fahey.....	San Francisco
Claude John Farinha.....	Lincoln
Jack Pershing Ference.....	Richmond
Rebecca Finkelstein.....	Los Angeles
Leslie Francis Foppiano.....	San Mateo
Kenneth Summers Foster.....	Berkeley
Frederick Arne Frederickson.....	San Francisco
William Wallace Furniss.....	Berkeley
William Joseph Gaughen.....	San Diego
James Edward Gilbert.....	Toledo, Ohio
John Levin Goldeen.....	Berkeley
Joseph Wayne Golden.....	Pacific Grove
Allan Bernt Goldsmith.....	San Francisco
Doyle Clye Haberly.....	Oakland
Eugene Lawrence Hackett, Jr.....	Fairfax
Hubert Pascoe Ham.....	Albany
Sigurd Ivan Hansen.....	Oakland
Ross Willis Hanson.....	Alameda
Edward McClarty Harbison.....	San Marino
Roderick Harkness.....	Piedmont
Grace Armes Harrington.....	Auburn
Albert Theodore Harutunian.....	San Diego
Duncan Hasson.....	San Francisco
Clifford Erhardt Hauenstein, Jr.....	Long Beach
Charles Lawrence Haun.....	Oakland
Gilman Ballard Haynes, Jr.....	San Francisco
Alexander Alvin Heller.....	San Francisco
Frank Matthew Helm.....	Fresno
Robert Julian Heppler.....	Berkeley
Sylvain Marcel Heumann.....	San Francisco
Janice Estelle Hindley.....	San Francisco
Robert Martin Hoenisch.....	Oakland
Vincent J M Holian.....	San Francisco
James Franklin Hopkins.....	Oakland
Ivan James Houston.....	Los Angeles
John F Howland.....	Berkeley
Thomas Arnold Jensen.....	Berkeley
Bruce Jeschien.....	Berkeley
Alice Marie Johnson.....	Oakland
John Robert Johnston.....	Montebello
Stanley Francis Judell.....	Hollywood
Harold Viggo Kallerup.....	San Francisco
Charles Richard Keller, Jr.....	Camarillo
William Donald Keyston II.....	Atherton
Richard Wood Kincaide.....	Berkeley
Georgia Korbel.....	Petaluma
Julius Harold Krepismann.....	New York, New York
Richard Ray Kroninger.....	Brooks
Judson E Krueger, Jr.....	Berkeley

3	Lester David Krulevitch.....	Racine, Wisconsin
3	Marciana Kui	Manila, Philippine Islands
3	Alice Christine Hansen LaMont.....	San Francisco
3	Kenneth Bernard Lee.....	San Francisco
3	Lee Orcutt Lester.....	San Francisco
3	Joseph David Lubin.....	Berkeley
3	Patrick Cyril McFaul.....	Oakland
3	Henry Fredrick McGowan.....	Kansas City, Missouri
3	Harvey Machaver	New York, New York
3	William Ross McIntyre.....	Calgary, Alberta, Canada
3	Thomas Loyall McLaren.....	Berkeley
3	William Burton Mahlstedt.....	Oakland
3	Lawrence Mann	Los Angeles
3	Earl Baker Marr	Oakland
3	Donald George Mavor.....	San Francisco
3	William Daniel Mayer	Berkeley
3	Lowell Edison Mee.....	St. Helena
3	Bill Gholson Miller.....	Bakersfield
3	Frederic Alvin Milnes.....	Modesto
3	Edith Louise Mixter.....	Visalia
3	Robert Walker Moore.....	Santa Cruz
3	Charles Thomas Morden.....	Alhambra
3	Henry Rossi Morris.....	San Francisco
3	Ray Kenneth Mortensen.....	Oakland
3	Robert Lance Nicholson.....	Oakland
3	John Ormasa	Richmond
3	William Thomas Parks.....	Richmond
3	John Christian Pedersen.....	Watsonville
3	Thomas Curl Peek.....	La Jolla
3	Richard Hammond Petch.....	Oakland
3	Robert Oliver Plant.....	Berkeley
3	John Bradford Pringle.....	San Francisco
3	Hartford Sinclair Rapp.....	San Francisco
3	Cyril Samuel Read.....	Berkeley
3	Maurice Louis Regensburger.....	San Francisco
3	Alwin Wilmer Rehmke.....	Davis
3	Edward Elmer Requa.....	National City
3	John Peter Riedel.....	Santa Barbara
3	Forrest Adelbert Ringle.....	Pasadena
3	Francis Theodore Roberts.....	San Francisco
3	Arthur Ray Robinson.....	Sacramento
3	Thomas Henry Rothwell.....	La Jolla
3	Rosemary Rutledge	San Francisco
3	Ernest George Schauppner.....	Berkeley
3	Ralph Alexander Schuyler.....	Albany
3	Herbert Zaiser Scott.....	Santa Ana
3	John Warren Sebastian.....	Berkeley
3	George Harris Sheeks.....	Spokane, Washington
3	Elton Buchanan Sherwin, Jr.....	Sacramento
3	Raymond Eld Siegrist.....	Berkeley
3	Peter Kamp Silk.....	Los Angeles
3	William Louis Sisson.....	Sacramento
3	William Sorensen	Los Angeles
3	Frank Page Storment.....	Los Angeles
3	Henry Lee Stuart, Jr.....	Berkeley
3	Albert Talbot	Rome, New York
3	Victor Newton Taylor.....	Idaho Falls, Idaho
3	Joseph John Ternes.....	Oakland
3	Redick Dewar Tiddy.....	Burlingame
3	Edward Tolin	Tyrone, New Mexico
3	Carl Rolland Travis.....	Chico
3	Richard Elbert Tremper.....	Oakland

* ³ Basilios Eustathios Tsagris.....	Crockett
³ Walter Tupitza	Westboro, Wisconsin
³ John Sidney Turner.....	Yreka
³ Clark Jay VanHousen.....	San Mateo
³ Gerald John Vetter.....	Reedley
³ Arthur Edmond Wagstaff.....	San Francisco
³ John Edwin Wallace.....	Berkeley
³ Herbert Kraft Walton, Jr.....	San Rafael
³ John Caverno Way.....	San Leandro
³ Thomas Clifford Whisler.....	Alameda
³ Robert Elmer Wieben.....	Oakland
³ Ralph Edward Wieg.....	Madison, Wisconsin
³ Gloria Eleanor Williamson.....	Hopland
³ Robert Murray Wilson.....	Los Angeles
³ Robert Collyer Winslow.....	San Francisco
³ Dean West Wright.....	Modesto
³ Milton Stanley Wright.....	Oakland
³ Arthur Clarence Yearin, Jr.....	Fresno
³ David Conrad Young.....	Half Moon Bay

SCHOOL OF FORESTRY

The Degree of Bachelor of Science upon

³ Roland James Christiansen.....	Wise River, Montana
³ Edward Tomkins Engen, Jr.....	Berkeley
³ Robert Richard Grahlman (A.B. College of the Pacific 1943).....	Stockton
³ Richard Lawson Holland, Jr.....	Long Beach
³ Nathan Lozanov	Bridgeport, Connecticut
³ Howard Edwin Moore.....	Orange
³ Paul E Shively.....	Covina
³ Elbert Dean Solinsky.....	Berkeley
³ Edward Richard Walter.....	Glendale

SCHOOL OF NURSING

The Degree of Bachelor of Science upon

³ Beverly Baynes Brown.....	Long Beach
³ Barbara Jean Carpenter.....	Livingston
³ Ruth Sandorf Dean.....	Richmond
³ Virginia Dean	Oakland
³ Muriel Frances Dickey	Albany
³ Elizabeth Romo Dietzen.....	San Bernardino
³ Alice Joy Ebert.....	Bakersfield
³ Opal Lee Forrester.....	Marionville, Missouri
³ Janet Louise Gallagher.....	Stockton
³ Yvonne Edlo Goldenberger.....	Gustine
³ Shirley Jean Griffeath.....	Larkspur
³ Patricia May Hall.....	Bakersfield
³ Edna Belle Hammon.....	Phoenix, Arizona
³ Margie Ann Hoke.....	San Diego
³ Elsie Irene Hurst.....	Salinas
³ Barbara Claire Hyams.....	San Francisco
³ Gene Jack	Richmond
³ Wilma Jean Johnson.....	Los Angeles
³ Betty Jo Linn.....	Glendale
³ Elizabeth Ann McDonald	Oakland
³ Mabel Lillian Murfee.....	Pasadena
³ Dorothy Ann Neely.....	Twin Falls, Idaho
³ Clara Ruelas Pease.....	Oakland
³ Elva Mae Peters.....	Concord

* As of September 13, 1947.

Lois Aileen Pierini	Sacramento
Irene Pope	Berkeley
Lois Ilene Powers	Visalia
Alice Partridge VanHousen	Tarzana
Eleanore Waldron	Los Angeles
Lois Cecelia Watson	Stockton

SCHOOL OF OPTOMETRY

The Degree of Bachelor of Science upon

J Edwin Weisser	Los Angeles
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SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

JoBailey Howard	San Francisco
Edward Rondthaler McAlister	San Diego
Muriel Elaine Nelson	San Francisco
Gloria Evelyn Smith	Santa Cruz

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

John Yale Barbee	Glendale
Fonnie Bartholomew	Modesto
Charles Grant Baughn	North Hollywood
William Putnam Bemis	Auburn
William Frederick Bloomfield	Antioch
Gloria Ann Bronderslev	Oakland
Charlotte Ruth Burchell	Modesto
Eugene Gust Cakin	Eureka
Neil Sargent Carter	Richmond
Kenneth Victor Cenedella	Berkeley
Francis Hill Dean	Concord
Robert S Dickey	Riverside
Franklyn MacDonald Dixon	Jamaica, British West Indies
Lewis Arthur Downey	Palo Alto
Harry Boardman Drobish	Marysville
Rashid Mounif El Youssef	Damascus, Syria
William Howard Enzie	Long Beach
Munson Bernard Everett	Oroville
Walter Ernest Fieg	Long Beach
Aydin Murat Germen	Istanbul, Turkey
Charles Ralph Gilkey	Corcoran
Neil Kenneth Groefsema	Mountain Home, Idaho
Irvin Monroe Hall, Jr	Salinas
Charles Alexander Hanson	Los Angeles
Robert Cecil Harkens	Los Angeles
Russell Ray Helphenstine	Princeton
Benjamin Dean Holt, Jr	Stockton
Robert Parsons Huston	Seal Beach
Jerry Thomas Hutton	Sacramento
Eugene Bryce Jack	Richmond
Harold Benjamin James	Los Angeles
Herbert Daniel Knight, Jr	Brawley
Harry Joseph Krade	Santa Barbara
Robert Rollan Kraft	Altadena
Walter August Krell	Berkeley
Winferd Mathis Lawson	Santa Ana
Peter Johannes Lert	Los Angeles

• Thomas Benton Lewis	Lompoc
• George McNeely	San Gabriel
• George Jamil Mahshi	Jerusalem, Palestine
• Walter Kenneth Miller	Chico
• Janet Murray	Yucaipa
• William LaDue Murray	Yucaipa
• Edward Vincent Olivier	Martinez
• Glenn Norman Olson	Oakland
• James Austin Parsons	Berkeley
• Vincent Emil Petrucci	Escalon
• Elmer Bert Pirtle, Jr.	Stockton
• Robert Nigel Richards	Palo Alto
• Edward Theodore Schengel	Delano
• Elmer Ellsworth Seibert	Berkeley
• Marion Joanne Simone	San Francisco
• Harold Robert Sketchley	Hollywood
• Glenn Andrew Smith	Kelseyville
• Wendell Warren Stoker	Parlier
• Sam Loyd Stovall	San Diego
• Oscar William Sumner, Jr.	Davis
• Don Lowell Swenson	Berkeley
• Walter Thomsen	Mountain View
• Allen Wendell Troxel	Montebello
• Eric Cornelis Winkler	San Mateo
• Melvin Phil Zobel	Watsonville

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

• Alfred Donald Abshire	Los Angeles
• Carlos Bryant Amspoker	Long Beach
• Robert Merrill Bonner	Oakland
• Donald Francis Roy Cochran	San Francisco
• Herschel David Davis	Richmond
• Robert James Dickey, Jr.	Alhambra
• Norman Fishman	Petaluma
• Harold Everett Granquist	Martinez
• Leland Francis Hunt	Milton
• Robert Sven Olson	San Francisco
• Donald Alfred Orth	Lomita Park
• Abraham Ottenberg	Oakland
• Jack Quincy Payne	Hutchinson, Kansas
• Joseph Francis Pinnick	San Francisco
• Bing Toy Poon	San Francisco
• Lee Marion Porter	Norwalk
• Esther Doris Richert	San Francisco
• Merwyn Dewayne Riddle	Eureka
• Gilbert Alden St. John	Solana Beach
• Konrad Troxel Semrau	Chico
• James Nelson Shoolery	Albany
• Truie Neel Sittig	Long Beach
• Vazken Harry Tashinian	San Francisco

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

• S Mumtaz Ali (B.S. Atkal University 1944)	Civil Engineering	Cattuck, India
• Lloyd David Ball	Electrical Engineering	Oakland
• James Kenneth Ballou	Electrical Engineering	Lakeside
• Oleg John Baloff	Civil Engineering	Berkeley

³ Stuart Hawley Bartholomew.....	Civil Engineering	Oswego, Oregon
³ Karl Louis Baumeister.....	Civil Engineering	Kellogg, Idaho
³ Rino Bei	Civil Engineering	San Francisco
³ Robert Warren Bixler.....	Electrical Engineering	Ventura
³ Robert Carl Boss.....	Civil Engineering	Burlingame
³ Arthur Hutches Brandow, Jr.....	Civil Engineering	San Francisco
³ Lewis Timothy Braun.....	Economic Geology	Sacramento
³ Glenn Douglas Breuer.....	Electrical Engineering	Berkeley
³ Gerald Elmo Carlat.....	Civil Engineering	Pasadena
³ Douglas James Carmody.....	Civil Engineering	Los Angeles
³ James Manville Catterton.....	Mechanical Engineering	Berkeley
³ Vernon LeRoy Cline.....	Civil Engineering	Richmond
³ Maurice Juan Crespo.....	Civil Engineering	Redding
³ Elmer Gordon Crider.....	Electrical Engineering	Los Angeles
³ Frank J Cronin.....	Civil Engineering	Butte, Montana
³ Jack Ned Crowell.....	Civil Engineering	Oakland
³ Ernest Emery Cudby.....	Petroleum Engineering ...	Edmonton, Alberta, Canada
³ George Raymond Darnell.....	Mechanical Engineering	Brawley
³ Harold Raymond Dell.....	Electrical Engineering	Peoria, Illinois
³ Stanley Rudolph Dewsnup.....	Civil Engineering	Sacramento
³ Hardev Singh Dhaliwal.....	Industrial Engineering.....	Darbhanga, Bihar, India
³ Charles William Fears, Jr.....	Electrical Engineering	Los Angeles
³ Raymond Anton Feichtmeir.....	Electrical Engineering	Berkeley
³ Clinton Brooks Ferguson, Jr.....	Mechanical Engineering	Santa Maria
³ William Robert Forde.....	Economic Geology	San Anselmo
³ Jamshed Khodadad Fozdar.....	Electrical Engineering	Bombay, India
³ Wendell Blaine Freeman.....	Electrical Engineering	Amboy, Minnesota
³ Richard Fresco	Civil Engineering	Los Angeles
³ Alan Owen Friedland.....	Civil Engineering	San Francisco
³ William Frank Furey.....	Civil Engineering	Wichita, Kansas
³ Hugh Milton Gallaher.....	Civil Engineering	Riverside
³ Vergil Lee Gerard	Electrical Engineering	Fresno
³ Carmine Frank Giuliano.....	Civil Engineering	Fresno
³ John Sommer Goerl.....	Industrial Engineering	Alameda
³ Walter David Goldsmith.....	Electrical Engineering	Los Angeles
³ Howard Payne Grant.....	Civil Engineering	Los Angeles
³ Robert Stephen Grisetti.....	Electrical Engineering	San Diego
³ Don Porter Grutzmacher.....	Civil Engineering	Onaga, Kansas
³ Frank Leroy Gustavson.....	Electrical Engineering	San Francisco
³ Frank LeRoy Hale.....	Electrical Engineering	Mountain View
³ Bruce Jerome Harris.....	Electrical Engineering	San Leandro
³ Donald Roy Higgins.....	Civil Engineering	Sacramento
³ Gerald Victor Jacobs.....	Civil Engineering	Los Angeles
³ Kenneth Durl Jenkins.....	Electrical Engineering	Oakland
³ Douglas Robert Jessup.....	Petroleum Engineering	Glendale
³ Joseph Kaplan	Civil Engineering	Los Angeles
³ Jane Fogle Kidd.....	Industrial Engineering	San Anselmo
³ Lewis William Kidd, Jr.....	Mechanical Engineering	Auburn
³ Thomas Kinaga	Electrical Engineering	San Jose
³ Thomas Edward Kinney, Jr.....	Civil Engineering	San Francisco
³ Richard Edward Kohne.....	Civil Engineering	Shanghai, China
³ Herbert William Kossoff.....	Electrical Engineering	Los Angeles
³ Jack Courtney Lansing, Jr.....	Electrical Engineering	Pasadena
³ William Charles Levy.....	Mining Engineering	San Francisco
³ Gerard Kergan Lewis.....	Industrial Engineering	Oakland
³ Quing Len Ligh.....	Civil Engineering	Berkeley
³ Wayne Middleton McAuley.....	Civil Engineering	Del Paso Heights
³ Leslie Hubert Maland.....	Civil Engineering	Santa Paula
³ Thomas Howard Mansfield.....	Electrical Engineering	Pasadena
³ Frank Alwyn Martin.....	Mechanical Engineering	Los Angeles
³ Irving Robert Mednick.....	Electrical Engineering ...	Salt Lake City, Utah

Donald Charles Mendoza	Electrical Engineering	Madera
Charles Roberts Mersereau	Mechanical Engineering	Los Gatos
Charles William Moore, Jr.	Civil Engineering	Concord
Joe Harold Murray	Electrical Engineering	Richmond
Edward Franklin Newman, Jr.	Industrial Engineering	Santa Cruz
Robert Sherman Newman	Mechanical Engineering	Tacoma, Washington
George Andre Nielson	Electrical Engineering	Petaluma
Wallace Arne Norum	Civil Engineering	Sacramento
Daniel Parsons	Mechanical Engineering	San Francisco
Ernest Myers Pettit	Mechanical Engineering	Venice
John Arthur Pierce	Petroleum Engineering	San Francisco
Charles Uintah Pierson, Jr.	Economic Geology	Berkeley
Richard Webb Porter	Industrial Engineering	McNeal, Arizona
Horace Frederick Prime	Mechanical Engineering	Glendale
Richard Herbert Register	Civil Engineering	Napa
Bruce Edward Reiser	Civil Engineering	Redding
John Clifford Riley	Electrical Engineering	San Francisco
Richard Cameron Rivett	Electrical Engineering	Sacramento
Jack Delahunt Robinson	Electrical Engineering	Encinitas
William Bliss Rogers	Mechanical Engineering	Berkeley
Leverett Parcher Sacre, Jr.	Petroleum Engineering	Los Angeles
Lynn Ansel Schloss, Jr.	Industrial Engineering	Oakland
Saadia Milton Schorr	Industrial Engineering	Los Angeles
Edward William Schrader, Jr.	Industrial Engineering	Los Angeles
Dorner Turner Schueler, Jr.	Mining Engineering	Berkeley
Ralph W Schwarze	Industrial Engineering	Lodi
Alexander Costicas Scordelis	Civil Engineering	San Francisco
William Edward Seeburger	Metallurgy	Berkeley
William Bentley Shaw	Civil Engineering	Benicia
Melvin Shore	Industrial Engineering	New York, New York
Robert Hugh Silberberg	Mechanical Engineering	San Francisco
Gerald Lloyd Smith	Electrical Engineering	Los Angeles
Richard Henning Smith	Civil Engineering	Glendale
Benjiman DeWitt Stanton	Electrical Engineering	El Segundo
Richard John Stumpf	Electrical Engineering	San Gabriel
Wayne Roger Sutton	Electrical Engineering	Los Angeles
Ray Wesley Swanson	Electrical Engineering	Los Angeles
Robert Vincent Teeple	Electrical Engineering	Pasadena
Fred Eugene Thompson	Civil Engineering	Oakland
Robert Grant Todd	Civil Engineering	Santa Rosa
Henry Tom	Civil Engineering	San Francisco
Dan Tonelli, Jr.	Civil Engineering	Richmond
Brinton Ellsworth Turner	Civil Engineering	Glendale
David Murray Turner	Industrial Engineering	Fowler
Donald Joseph Unger	Industrial Engineering	San Francisco
Benjamin Don VanZandt	Civil Engineering	Philo
Milton Charles Very	Electrical Engineering	Oakland
Donald Bell Wallace	Civil Engineering	San Mateo
Raymond Walsh	Civil Engineering	Eugene, Oregon
Robert Price Wanger	Electrical Engineering	Oakland
James Joseph Ward	Civil Engineering	Oroville
Robert Harvey Weakley	Electrical Engineering	El Centro
Harold William Weeks	Civil Engineering	San Francisco
Charles William Welby	Economic Geology	Taft
Robert Lewis White	Civil Engineering	Los Angeles
Warren Edwin Whitney	Mechanical Engineering	San Diego
Jacob Bertram Wickham	Civil Engineering	Los Angeles
Tys Wigman, IV	Civil Engineering	Los Angeles
James Donald Wilson	Civil Engineering	San Francisco
Robert Leslie Wilson	Civil Engineering	El Centro
Leland Wing	Industrial Engineering	Vallejo

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

- | | |
|-------------------------------------|-------------------------------------|
| ³ Robert Abramson | ³ Alfred Edward Day, Jr |
| ³ Jack Takeo Aikawa | ³ Mary Louise deBoer |
| ³ Doña Dolores Aiken | ³ Carol Ailala DeLancey |
| ³ Robert Louis Albertini, Jr. | ³ Florence Edith De Martini |
| ³ George Edward Anderson | ³ Sybil B Dere |
| ³ William Adolph Anderson, Jr. | ³ Phillip DeVere Deuel, Jr |
| †³ Charlyne Ethel Anno | ³ Donald Jennings Devoto |
| ³ John Whitman Appel | ³ Robert Barnes Dodds |
| ³ William Gamble Baffert | ³ Eleanor Gertrude Dorsey |
| ³ Albert Baltuska | ³ David William Dowdakin |
| ³ Harold Edward Bamford, Jr. | ³ James Christie Downing |
| ³ Barbara Adele Barnes | ³ Calvin Warner Dunbar |
| ³ Russell Shepard Bayley | ³ Kenneth Ernest Dunham |
| ³ June Beal | ³ William Edward Dunkum |
| ³ Robert Bellamy Beard | ³ Marjorie Jeannette Dunster |
| ³ Claire Beck | ³ Oscar Martin Durst, Jr |
| ³ Harlan Curtis Bennett | ³ Marvin Dworkin |
| ³ Ann Taylorson Bicknell | ³ Luella Pauline East |
| ³ Donald Vernon Bishop | ³ Joan Lorraine Eastman |
| ³ Joan Cahail Bishop | ³ Marcia Lee Eck |
| ³ Dale Randall Blanchard | ³ Robert Harland Edwards |
| ³ Rita Virginia Bosio | ³ Charles Luther Eggleton |
| ³ Janis Loveryan Bostwick | ³ Hal Grover Ellis |
| ³ James William Braghetta | ³ Albert Bertrand Elsasser |
| ³ Dorothy Marian Lorraine Brandlein | ³ Jiro Jerry Enomoto |
| ³ Donald Irving Brillhart | ³ Dorothy Lucille Cochrane Erickson |
| ³ Marjorie Evelyn Brooker | ³ Jacqueline Ezell |
| ³ Gordon Monroe Bruce | ³ William Robert Farwell |
| ³ Meir Brudny | ³ John Andrew Fatseas |
| ³ Quentin Roosevelt Bryan | ³ Edmund Lawrence Ferrero |
| ³ Richard Harmon Bryant | ³ Edna Mae Finger |
| ³ John Raymond Bueerman | †³ John Raymond Finzer |
| ³ Barbara Ann Burnett | ³ Peter Hans Fleischer |
| ³ Richard Marks Bussey | ³ Margaret Ann Fogg |
| ³ Doris Mae Cagle | ³ Lois May Forman |
| ³ Cecilia Mary Cahill | ³ Shirley Mae Foster |
| ³ Edwin Julius Carlson | ³ Verna Bodycote Fraser |
| ³ William Allen Carroll | ³ Earl Wayne Friesen |
| ³ Gordon Irving Carter | ³ Henry Bernhard Fulton |
| ³ Vicente Robles Castro | ³ Edmund Fung |
| ³ Jean Duncan Chalmers | ³ Louis Edward Gage |
| ³ Edwin Foster Chase | ³ Maxine Elaine Gallivan |
| ³ Victoria Anne Chelli | ³ Eric Gattmann |
| ³ Alva Dinneen Christensen | ³ Dorothy Carol Gibson |
| ³ Mayme Cohan | ³ Virginia Margaret Gibson |
| ³ Richard Leland Cole | ³ Frossene Glafkides |
| ³ Gertrude Joy Consterdine | ³ Jacob Gleichenhaus |
| ³ Sandra Elaine Cooper | ³ Ellen Rose Gohl |
| ³ John Emmett Corrigan | ³ Robert Golden |
| ³ Lucille Helen Crane | ³ Florale Goldsmith |
| ³ Rosemary Madeline Creed | ³ Ruth Devora Goldstein |
| ³ Stella Crosier | ³ Barbara Evelyn Goodsell |
| ³ Gloria Nathalie Cuadra | ³ Theodore Frederick Gould |
| ³ Anna Elsa Damiani | ³ Betty Mary Graham |
| ³ Harlan Wayland Davidson, Jr | ³ Vivian Ottilie Grant |

† As of September 13, 1947.

- 3 Nancy Claire Granville
- 3 Charlotte Lorraine Green
- 3 Hope Catherine Griffin
- 3 Ray Lathrope Grosvenor, Jr
- 3 Mary Louise Growney
- 3 Kenneth Robert Grundman
- 3 Bert Wallace Gunn
- 3 Charlotte Gutmann
- 3 Wallace Belden Hall
- 3 Leonard Lathrop Hancock
- 3 Margaret Ann Hanley
- 3 Doris Evelyn Hansen
- 3 Gladys Elizabeth Hansen
- 3 Margaret Hanson
- 3 Wilfred Jesse Harpham
- 3 Donald Orlando Hash
- 3 Theodore William Hayes
- 3 Sylvia Mae Hazell
- 3 Evelyn Shirley Hazen
- 3 Myron Leon Hersko
- 3 Martin Hertz
- 3 Eleanor Jean Hoffman
- 3 Kenneth Fancher Holway
- 3 Dorothy Elaine Hook
- 3 James Clement Hooley
- 3 LaVerne Clifford Horton
- 3 Vernon Wayne Howell
- 3 Roy Harlan Howland
- 3 Phillip Victor Hurley
- 3 Carlton Laird Iiams
- 3 Charles Kenneth Jackson
- 3 Vernice Jaques
- 3 Alan Hawley Johnson, Jr.
- 3 Barbara Johnson
- 3 Orpha Jane Johnstone
- 3 Ruth Mildred Turrentine Jones
- 3 Julio Landeros Juarez
- 3 Lewis Juarez
- 3 Marvin Kahan
- 3 Anne Elizabeth Kehoe
- 3 Dorothy Jane Kennedy
- 3 William John Keough
- 3 Shirley Anne Ketcham
- 3 Patricia Jane Kett
- 3 Wilford Albert Kimball
- 3 Bernard Mervin King
- 3 Kathleen Marie King
- 3 Edith Kingdon
- 3 Lois Marie Kirby
- 3 David Carman Kleinecke
- 3 Edwin James Knapton
- 3 George Konstandin Koche
- 3 Nina Alexandrovna Kostin
- 3 Barbara Gloria Kraft
- 3 Irving Krauss
- 3 Gerhard Krebs
- 3 Jack Clement LaCoste
- 3 Roger Carlisle Lance
- 3 Carol DeFreitas Lane
- 3 Gloria Jean Lasky
- 3 Donald Ward Lathrap
- 3 Robert Lee Lavelle
- 3 Kenneth Leslie Laymon
- 3 Marjorie Mary Lazaga
- 3 Jacqueline Ann Lazzeroni
- 3 Shirley Lee-Poo
- 3 Nancy Jean Lein
- 3 Suzanne Rose Lerer
- 3 Dorothy Belle Leston
- 3 Sally Jean Letchworth
- 3 Lillian Levin
- 3 Marilyn Lee Levitt
- 3 Mina Esther Levy
- 3 Norman Gerald Licht
- 3 Samuel Nathaniel Linevsky
- 3 Joyce Ann Livingston
- 3 Lois Margaret Lockwood
- 3 Jean Frances Lonn
- 3 Wayne Walter Loretz
- 3 Raymond Don Louie
- 3 Iva Mary Louis
- 3 Orlando Fred Luciano
- 3 Edward Crayton Macaulay
- 3 Claire Helen McCook
- 3 Robert Allan McDermott
- 3 Morag Margaret McDonald
- 3 Dale Lynn McKeen
- 3 Patricia Alice McKim
- 3 Leslie McLaren
- 3 Carlita Florence Magee
- 3 Carol Ann Manheim
- 3 Dean Edson Mann
- 3 Marion Rudkin Mann
- 3 Ellen Emmert Marconi
- 3 Geraldine Marcus
- 3 Mildred Celia Marcus
- 3 Shirley Beatrice Shinkle Marvin
- 3 Betty Rose Mazzera
- 3 Alice Celesta Magown
- 3 Walter Eugene Mershon
- 3 Carol Lois Miller
- 3 Daniel John Miller
- 3 Rosemary Valentine Miller
- 3 Marjorie Madeline Milleron
- 3 Donald Edward Mitchell
- 3 Hayden Matthews Moberly
- 3 Elizabeth Mary Montesclaros
- 3 James Edward Moore
- 3 Thomas Edward Morgan, Jr
- 3 Bernard Schuler Morris
- 3 Angela Gandarillas Moruza
- 3 Barbara Arlene Moulding
- 3 John Phillip Muller
- 3 Dorothy Ellen Murdock
- 3 Jerry George Murphy
- 3 Emmett Leonard Murray
- 3 Avner Naggat
- 3 David Joelsohn Nagler
- 3 Sheldon Jules Nankin
- 3 Herbert Frank Neller, Jr
- 3 Darrell Ellsworth Nelson
- 3 Mildred Marie Nelson
- 3 Dolores Braselman Newman
- 3 Eric Hill Nielsen

- ♣ Jack Floyd Nix
- ♣ Ronald Richards Novales
- ♣ John Masuso Oda
- ♣ James Joseph O'Hara
- ♣ Greta Bernadette Olson
- ♣ Peter Varian Ostrander
- ♣ Herbert Sigurd Ottesen
- ♣ Robert Gunnar Ottesen
- ♣ Ruth Paller
- ♣ Harriet Ann Paul
- ♣ Jean Antoinette Perata
- ♣ Shirley Mae Peters
- ♣ Betty Janice Petersen
- ♣ Robert Louis Pexton
- ♣ James Buell Phillips, Jr
- ♣ Laurence Oscar Pilgeram
- ♣ Harry Carl Pon
- ♣ Betty Jean Porter
- ♣ John Agnew Porter
- ♣ Irvin Leonard Pressman
- ♣ Arthur William Prindle
- ♣ Bettie Frances Pruden
- ♣ Barbara Louise Purdy
- ♣ William Throop Purdy
- ♣ William Louis Radtke
- ♣ Martha Raggio
- ♣ William Jasper Ramsey
- ♣ Craig Z Randall
- ♣ Donald Rieke Ravenscroft
- ♣ William Drullard Raymond
- ♣ Arno Alfred Rayner
- ♣ Earl Read
- ♣ Robert William Reasoner
- ♣ Norman Reimers
- ♣ Walter Anthony Rhaesa
- ♣ Henry Einar Rinne
- ♣ John Watson Roeth
- ♣ Shirley Jane Rohlfing
- ♣ Seymour Merton Rose
- ♣ Ethel Dorothy Rudolf
- ♣ Dwight Marston Rush
- ♣ Florence Elizabeth Rusk
- ♣ Laura Louisa Ryan
- ♣ Patricia Allen Ryan
- ♣ Warren Grove Ryan
- ♣ Donald Dennis Savage
- ♣ John Edward Sawyer
- ♣ Gloria Jean Schultz
- ♣ Shirley Patricia Selleck
- ♣ Margaret Elizabeth Selway
- ♣ Anne Kellogg Service
- ♣ Julian B Sevitch
- ♣ Peggy Ann Seyffert
- ♣ Kathryn Irene Shaeffer
- ♣ Paul Francis Sharp
- ♣ Robert Horton Sharpe
- ♣ Kathryn Anne Shaw
- ♣ Dan Leonard Shehi, Jr
- ♣ Irving Shemano
- ♣ Judith Korb Sher
- ♣ Mariko Shinoda
- ♣ Roland Wendell Shirley
- ♣ Robert Henry Sicular
- ♣ Carol Fae Simens
- ♣ Elliott Archibald Smart
- ♣ Daniel Malloy Smith
- ♣ Donald Barron Smith
- ♣ Joyce Lee Smith
- ♣ Walter Vernon Smith
- ♣ Winfield Thornton Smithson
- ♣ Donnelly Allen Sohlin
- ♣ Joseph Lawrence Spray
- ♣ Phyllis Jean Stallman
- ♣ Clara Jane Standing
- ♣ Burton Edwin Stitt
- ♣ Anne Lewin Stoll
- ♣ Jean Anne Stoll
- ♣ Evelyn Frances Strand
- ♣ Muriel Joye Strong
- ♣ Bridget Dora Stross
- ♣ Lemuel Mullen Summey
- ♣ Marvel M Taylor, Jr
- ♣ Kenneth Norman Teague
- ♣ Genevieve Rose Thoma
- ♣ Seth Thomas
- ♣ Bruce Arthur Thompson
- ♣ Dorothy Warren Thompson
- ♣ Mary Jeanne Thompson
- ♣ Lloyd Donald Tindell
- ♣ Albert Joseph Titus, Jr
- ♣ Doris Tom
- ♣ Richard LaPrentice Trapp
- ♣ René Yvette Trefeil
- ♣ Joseph Frederick Trentacoste
- ♣ Arnold Gale Turner
- ♣ John David Unruh
- ♣ Kathleen Victoria Valdick
- ♣ Angelina Vendetti
- ♣ Kenneth Frederick Volker
- ♣ Gifford Klopp vonKaesborg
- ♣ David Quint Vordermark
- ♣ Daniel Frank Wagenet
- ♣ Dwight Tousch Wallace
- ♣ Norman Richard Wallace
- ♣ William Henry Wehlau
- ♣ Albert Elmer Wells
- ♣ William John Welshons
- ♣ Ann-Katrine Ostlind Werner
- ♣ Nina Jean Westigard
- ♣ Annette Barbara White
- ♣ Leslie Ann Whitney
- ♣ Ilse Emilie Wolfen
- ♣ Nada Pearl Wood
- ♣ Robert McAlpine Worth
- ♣ Robert Leonard Wynne
- ♣ Jorge Herrera Zea
- ♣ Jules L Zentner

* As of August 2, 1947.

The Degree of Bachelor of Arts upon

• Earl Vernon Akin	History	Berkeley
• Akhtar Ahmed Allahwala	Physiology	Delhi, India
• Leo Thomas Allamanno	History	Richmond
• Janis Loye Allgoewer	Art	Alameda
• Philip Carol Anapolsky	Physiology	Sacramento
• May C Johnson Andelin	General Curriculum	Sacramento
• Charlotte Adelia Anderson	General Curriculum	Petaluma
• Irving Noah Appelbaum	English	Berkeley
• Thomas Craig Armstrong	Political Science	Capay
• Berthold Aronstein	History	San Francisco
• George Kenneth Attwood	Zoölogy	Oakland
• Helen May Au	Social Welfare	Sacramento
• Dorothy Chapman Bacon	Mathematics	Berkeley
• Ruth Ellen Bacon	General Curriculum	San Bernardino
• Rosemarie Genevieve Balke	German	Alameda
• Stanford Cleworth Balmforth	General Curriculum	Bell
• Andrew Jean Baltzo	General Curriculum	Oakland
• Arnold Vernon Baranco	Social Welfare	Oakland
• John Frank Bareis	General Curriculum	San Francisco
• Juliette Dorothy Barman	Social Welfare	San Francisco
• Lenna Carol Barnes	Social Welfare	Albany
• Geil Anne Bartels	Paleontology	San Francisco
• Carol Allan Barthold	Social Welfare	San Francisco
• Janet Baskin	Social Welfare	Oakland
• Patricia McCollum Bauer	History	Oakland
• Joseph Addison Baxley	Psychology	Berkeley
• Ronald Arthur Becker	Biochemistry	Ferndale
• Albert Alfred Benedict	Bacteriology	San Francisco
• Ralph Benksaim	English	Scranton, Pennsylvania
• Alexander Wasil Benko	Slavic Languages	San Francisco
• Marie Bernadette Bergeron	Political Science	Cognac, France
• Gene Bergman	Psychology	Los Angeles
• Margeritte Mary Bergmann	Art	San Francisco
• James Benjamin Bishop	Social Welfare	Turlock
• Katherine Campbell Bishop	General Curriculum	Berkeley
• Edith Mary Blauvelt	Far Eastern Studies	Seattle, Washington
• Ben Bloom	Physiology	Santa Monica
• Joseph Bloom	General Curriculum	Modesto
• James Blumberg	Sociology	Chicago, Illinois
• Kathleen Blumberg	General Curriculum	Piedmont
• Yvonne Lorraine Bordegaray	Physical Education	San Francisco
• George Gilbert Boyer	Physical Education	Oakland
• Darl Eugene Bowers	Zoölogy	Fresno
• Eva Cannon Bowers	History	Oakland
• Jacqueline Bowman	General Curriculum	Hayward
• Nicholas Gosman Kittle Boyd, Jr.	General Curriculum	San Rafael
• Joanne Ruth Braucht	English	Madera
• Barbara Jean Brewer	Regional Group Major on Hispanic America	North Hollywood
• Marian Elizabeth Brode	Psychology	Santa Monica
• Henry Joseph Broderick	Public Speaking	San Francisco
• Leo Bromwich	Far Eastern Studies	Berkeley
• Edward Paul Bullwinkel	Chemistry	Alameda
• Barbara Lillian Burnett	Economics	San Francisco
• Beverly Kingman Burns	General Curriculum	Berkeley
• Mary Louise Elizabeth Buschmann	General Curriculum	East St. Louis, Illinois
• John Hempstead Bushnell	Anthropology	Auburn
• Patricia Bystrom	Political Science	San Diego
• Anthony Joseph Cabrera	Economics	Antioch
• Alice Wright Cantelow	General Curriculum	Oakland

³ John Carlyle Carlson	General Curriculum	Seattle, Washington
³ Jack Elmer Carrick	Spanish	Susanville
³ Charles Henry Carter	Far Eastern Studies	Sacramento
³ Charles William Cassinelli, Jr.	Philosophy	Sutter Creek
³ John Douglas Castleton	General Curriculum	Los Angeles
³ Ruth Carolyn Caulkins	Decorative Art	Stockton
³ Joanne Howeth Cerini	General Curriculum	San Gabriel
³ Lucy Royce Chastain	Botany	Bakersfield
³ Dorothy Choy	Social Welfare	San Francisco
³ Gwendolyn Lyall Christensen	General Curriculum	Redlands
³ William Power Clancey, Jr.	Psychology	Needham, Massachusetts
³ Douglas Elmo Clark	Psychology	San Diego
³ Harry Gordon Clarke	General Curriculum	San Leandro
³ Randall Arthur Cognetta	Zoology	San Francisco
³ Iris Myra Cohen	Dramatic Art	San Francisco
³ José Mario Coleman	Spanish	San Diego
³ Lois Marie Collins	Regional Group Major on Hispanic America	Placerville
³ Elisha Trammell Combs, Jr.	Physics	Alameda
³ Raymond Conley	Regional Group Major on Japan	Lincoln
³ Jane Shanley Cooney	Political Science	San Francisco
³ Mary John Copitas	General Curriculum	San Diego
³ June Corcoran	Art	Merced
³ BarBara Jeanne Corfee	General Curriculum	Sacramento
³ Ivy May Cotter	General Curriculum	Sacramento
³ John Henry Crafts	Chemistry	Taft
³ Phillip Clarence Crane	Education	San Francisco
³ Gordon Montgomery Crews	General Curriculum	Webster Groves, Missouri
³ Hubert Yates Crouse	General Curriculum	Concord
³ June Irene Cuff	Art	Oakland
³ Lewis Burton Cummings	History	Berkeley
³ Catherine Ann Curry	Mathematics	San Francisco
³ Vivian Saph Dable	General Curriculum	Berkeley
³ Albin Joachim Dahl	Economics	San Francisco
³ Toshiko Dairiki	Biochemistry	Sacramento
³ Phillip Whitcomb Damon	English	Santa Paula
³ Judith Barbara Davis	English	Berkeley
³ Leonard John Davis	General Curriculum	Los Angeles
³ Rose Lan Dear	Social Welfare	San Francisco
³ Virginia Adelaide Dearing	Recreation	Patterson
³ James Merril Decker	Oriental Languages	Modesto
³ Herminia Domitila de la Torre	Spanish	Berkeley
³ Kenneth Alfred DeMattei	General Curriculum	San Francisco
³ Eleanor Hope DeSellem	Chemistry	Oakland
³ Eleanor Mae Desplain	General Curriculum	Glendale
³ Rhea Louise Dewsnup	General Curriculum	Sacramento
³ Richard Hugh Dillon	History	Sausalito
³ Betty Jean Dixon	History	Oakland
³ Gordon Grant Dodd	General Curriculum	Oakland
³ Patsie Effie Dole	Economics	Riverside
³ Alfonso David Dominguez	Bacteriology	Berkeley
³ Daniel Micheal Donovan	General Curriculum	Berkeley
³ R Spencer Douglass, Jr.	Economics	Oakland
³ Geraldine Estelle Doumitt	Speech	Alameda
³ Douglas Fitzgerald Dowd	Economics	San Francisco
³ Jacques Mario Silk Downs, Jr.	History	Berkeley
³ Robert Sheldon Drew	English	Oakland
³ Aliton Marsh DuBois	English	El Centro
³ Beverly Anne Duistermars	General Curriculum	Glendale
³ Robert Duane Dunivan	Psychology	Richmond
³ Lelah Joy Eastwood	General Curriculum	Los Angeles
³ Mary Eggers	Far Eastern Studies	San Jose

² James Joseph Enemark	Art	Watsonville
² Maurice Engleman	Music	San Jose
² Robert Vaughn Enochian	Economics	Fresno
² Roberta Frances Erlandsen	Psychology	Oakland
² Helen Anne Ernst	General Curriculum	Berkeley
² Masud Ettehadieh	General Curriculum	Springfield, Massachusetts
² Sophia Evangelou	Social Welfare	San Francisco
² Mary Lou Evans	Regional Group Major on France and French Colonies	Oakland
² Rachael Balyeat Feichtmeir	English	Ukiah
² Piilani Norene Feiteira	General Curriculum	Honolulu, Territory of Hawaii
^{2*} Madeleine Minerva Finch	Political Science	North Hollywood
² Vincent Francis Finigan, Jr.	General Curriculum	San Francisco
² Joanne Louise Fisher	Chemistry	Walnut Grove
² Mary Kathleen Fitzbuck	Psychology	Capitola
² George Robert Flannery	General Curriculum	Berkeley
² Eleanor Louise Fledderman	General Curriculum	Hollister
² Jean Jin Fong	Biochemistry	Sacramento
² Marigold S H Fong	Social Welfare	San Francisco
² Ben Scott Foster	International Relations	Piedmont
² Lowell Gordon Foster	History	Berkeley
² Gloria Marilyn Franklin	History	San Francisco
² Elisabeth Ruth Frazier	Child Development	Piedmont
² Edward Arthur Freedman	Social Welfare	San Francisco
² John Lincoln Frick	Political Science	Manteca
² Jay David Frierman	Art	Los Angeles
² Barbara Casassa Frissell	Psychology	San Francisco
² Donald Galfond	Slavic Languages	Fresno
² Miriam Janice Galston	English	Los Angeles
² John Garcia	Psychology	Santa Rosa
² Lorraine Ethel Gay	Music	San Francisco
² Thomas Edwards Gay, Jr.	Geological Sciences	Berkeley
² Charlotte Marie Geary	Political Science	San Francisco
² Helen Geary	History	San Francisco
² Melvin Monroe Gee	English	Reedley
² Ernest Germano	Art	Auburn, New York
² James Knowlton Getze	Political Science	Carlsbad
² Guido Girolami	Botany	Rio Vista
² Claude Dewey Glenn, Jr.	Criminology	Albany
² Jacqueline Glosser	General Curriculum	Piedmont
² Alfred Godfrey	History	San Francisco
² Corinne Clayton Golden	English	San Francisco
² Leonard Gordon	Psychology	Chicago, Illinois
² Geraldine Goree	General Curriculum	Petaluma
² Rubin Gornbein	Psychology	San Francisco
² Alla Goubareff	Social Welfare	Berkeley
² Elmer Charles Gould	History	Berkeley
² William Robinson Gould	General Curriculum	Orange
² Marilyn Ann Graser	General Curriculum	Long Beach
² Barbara Jane Greenland	General Curriculum	Azusa
² Marilyn Rea Griffin	Social Welfare	Oakland
² Robert Jared Grimshaw	General Curriculum	Sacramento
² Francis James Griswold	General Curriculum	San Francisco
² Lily Gyn	English	San Francisco
² Marcella Haber	Political Science	San Francisco
² Thordis Johanne Haga	Mathematics	Long Beach
² Wayne Elwood Hale	Mathematics	Sacramento
² Doris Mae Hanly	Social Welfare	Calistoga
² Donald Lloyd Hansen	General Curriculum	Oakland
² Ellis James Harlow	English	Sacramento

* As of June 19, 1947.

³ Robert L Hartwig	Regional Group Major on Hispanic America	Richmond
³ Hilda Frances Harwayne	General Curriculum	New York, New York
³ Helen Yasuye Hase	Social Welfare	Hanford
³ Agnes Bergquist Hatfield	Social Welfare	White Lake, South Dakota
³ Helen Hatfield	Latin	Pasadena
³ Harry Eberle Hauer, Jr.	General Curriculum	Alameda
³ Yukiyo Hayashi	General Curriculum	Berkeley
³ Tetsuo Hayashida	General Curriculum	Berkeley
³ Robert David Hayes	Criminology	Hanford
³ Alice Dorothy Head	English	Alameda
³ Margery Ruth Head	General Curriculum	Berkeley
³ Harold Lewis Headman	General Curriculum	San Francisco
³ Bertram Heil	Physics	El Paso, Texas
³ William John Heim	General Curriculum	Oakland
³ Carolyn Sybil Helfer	Child Development	Chicago, Illinois
³ Eugene Dewey Hempel, Jr.	Art	Winona, Minnesota
³ Hamilton Hess	General Curriculum	Berkeley
³ Mary Alice Hewlett	General Curriculum	Oakland
³ Ralph Palmer Hill	General Curriculum	Richmond
³ Carolyn Lois Hodgson	Child Development	Berkeley
³ Harvey Kennard Holden	Political Science	Carmel
³ Elizabeth Seip Hoover	English	Modesto
³ Barbara Prost Howard	General Curriculum	San Francisco
³ Milton M Howell	Zoölogy	Lula, Mississippi
³ Billy Hubbs	General Curriculum	Colton
³ William Robert Hudson	Dramatic Art	Oakland
³ Janet Veda Hughes	General Curriculum	Walnut Creek
³ Warren Evan Hughes	Geological Sciences	Hughson
³ Douglas Brown Hughmanick	Economics	Burlingame
³ Orva Preston Hunter	Bacteriology	Berkeley
³ Edward John Ford Hutchinson	Economics	San Francisco
³ Marjorie Gene Hyde	Art	Los Angeles
³ Else Merete Innes	Regional Group Major on France and French Colonies	San Francisco
³ Taka Inouye	Bacteriology	Austin, Texas
³ Helen Jacovleff	General Curriculum	Berkeley
³ David Jensen	Physiology	San Francisco
³ Edith Mae Johnson	Art	Berkeley
³ Herbert Gordon Johnson	Social Welfare	Berkeley
³ Leo Johnson	Social Institutions	San Francisco
³ Ludd James Johnson	General Curriculum	Richmond
³ Owen Bryce Johnson	Physical Education	Anaheim
³ Phyllis Truth Johnson	Zoölogy	La Jolla
³ Thelma Lois Jokumsen	Social Welfare	Oakland
³ Holway Roy Jones	History	Santa Ana
³ Josita Claiborne Jordan	History	San Francisco
³ George Angelio Jougاناتos	General Curriculum	Sacramento
³ Marshall Warren Julian	Political Science	Long Beach
³ Masako Kamei	Biochemistry	Los Angeles
³ Joe Kamiya	General Curriculum	Delhi
³ Sven Olov Karell	German	Alameda
³ George Karonsky	Physical Education	San Francisco
³ Jack Alvin Kent	General Curriculum	Berkeley
³ Winifred Eileen Kenyon	General Curriculum	Berkeley
³ Alice Kevorkian	Political Science	Oakland
³ Mildred Luise Kiefer	Public Speaking	San Francisco
³ Lewis Everett Kimball, Jr.	General Curriculum	Pasadena
³ Gerald Franklin King	Psychology	Phoenix, Arizona
³ Walter Bradley King, Jr.	Zoölogy	San Francisco
³ Shirley Waller Kirkpatrick	General Curriculum	San Mateo

* As of September 13, 1947.

‡ Margy Doris Kirwan	General Curriculum	Taft
‡ Charles Amiel Kiselyak	General Curriculum	Carson, Alabama
‡ William Eugene Knapp	Psychology	Oakland
‡ Harry George Knecht	Physical Education	Westwood
‡ Dorothy Catherine Knofler	General Curriculum	San Francisco
‡ Janice Claudia Knouse	American Literature	
	Washington, District of Columbia	
‡ Margaret Ikuko Koide	Social Welfare	Berkeley
‡ Lloyd Allan Kramer	Slavic Languages	Yosemite National Park
‡ June Rose Kren	Economics	San Francisco
‡ Ruth Eloise Krile	Oriental Languages	San Francisco
‡ Edward Albert Kueffer	Psychology	St. Paul, Minnesota
‡ Wulf Kunkel	Physics	Amsterdam, Netherlands
‡ George Hazen Lacy	Economics	Richmond
‡ Marjory Ann LaForge	Spanish	Sacramento
‡ Earl Freeman Lambert	Geological Sciences	San Leandro
‡ John Henry Larmour	General Curriculum	Berkeley
‡ Virginia Lee Larsen	Social Welfare	Los Angeles
‡ Thomas Fitzgerald Laughran	Physical Education	San Francisco
‡ Robert Henry Laurell	Mathematics	San Pedro
‡ Edmund James Leach, Jr.	Economics	Salinas
‡ William Clark Leavitt	Psychology	Los Angeles
‡ Donald Charleson Leddy	Political Science	Bakersfield
‡ Howard Thomas Lee	Political Science	Fresno
‡ Marjorie Josephine Leite	English	Pasadena
‡ Blaine J Lemmon	Education	Preston, Idaho
‡ Thomas Harold Leonetti	Spanish	Oakland
‡ Alston Leslie Levesque	Political Science	Richmond
‡ Robert Gunnell Lewis	English	Corvallis, Oregon
‡ Lucia Dean Lhamon	Regional Group Major on Japan	Los Angeles
‡ Earnest Dwight Lidell	General Curriculum	Eastside, Oregon
‡ Chaja Miriam Liebermann	Bacteriology	Madrid, Spain
‡ Mabel Eileen Lindquist	Psychology	Visalia
‡ Leila Hazel Lipen	Slavic Languages	Chicago, Illinois
‡ Georgia Lipman	General Curriculum	Berkeley
‡ Paschal Coggins Longaker	Political Science	Berkeley
‡ Richard Millard Look	General Curriculum	Berkeley
‡ Mildred Lowe	Physical Education	San Francisco
‡ William Anthony Luksich	General Curriculum	Oakland
‡ Ruth Elisabeth Lundholm	Decorative Art	Berkeley
‡ Dorothy Ann Lupher	English	New York, New York
‡ Robert Paul Luthy	International Relations	Newport, Rhode Island
‡ Paul Francis McAndrews	Geological Sciences	Pinole
‡ Lois Arlene McConnell	English	San Bernardino
‡ Virginia Ann McDonald	Social Welfare	San Mateo
‡ Donald Van McDougall	Biochemistry	Salinas
‡ Margaret Ines MacKillop	Political Science	Bay Shore
‡ Irene Mary McKinney	Physical Education	El Paso, Texas
‡ Elisabeth Benson McKittrick	History	New York, New York
‡ Joan McCampbell McNeely	General Curriculum	Calexico
‡ John Melvin McTeer	General Curriculum	Oakland
‡ Jane Smith Maguire	General Curriculum	Portland, Oregon
‡ Bertwing Chao-hao Mah	Economics	Berkeley
‡ Richard Walden Mahin	Political Science	Arvin
‡ Lois Cecile Maimon	Psychology	Los Angeles
‡ York Tooree Mandra	Paleontology	New York, New York
‡ Margaret Mangan	Decorative Art	Berkeley
‡ Elizabeth Charlotte Mann	Advertising	San Francisco
‡ Gerald V Mann	General Curriculum	Sacramento
‡ Jeanne Merita Marchant	Decorative Art	Oakland
‡ Jennie Mark	General Curriculum	San Francisco

Stella Doty Matson	Art	Sebastopol
John Stanley Mead	Zoölogy	Piedmont
John Frederick Meadows	Political Science	Walnut Creek
William Kenneth Medlin	International Relations	Martinez
Charles Stanley Merrell	Economics	Berkeley
Franklin Williams Merrill	Public Speaking	Berkeley
Frances Ellen Messner	General Curriculum	Richmond
James McKendrie Metcalf	General Curriculum	Oakland
Elizabeth Lucile Mierow	Political Science	Tacoma, Washington
Curtis Crawford Millar	Social Institutions	Los Angeles
Frankie Jo Miller	Spanish	Taft
Patricia Ann Miller	Political Science	Boise, Idaho
Ronald Wolfe Miller	History	Oakland
Helen Catherine Millerick	General Curriculum	Sonoma
Chozo Mitoma	Biochemistry	San Francisco
Andrew Paul Mizisin	General Curriculum	Cleveland, Ohio
Jean Welsh Moroney	Political Science	Albany
James Webster Muir	Physical Education	Oakland
William Percival Mull	Regional Group Major on China	Oakland
Patricia Ann Mullett	Bacteriology	Portland, Oregon
Cesar Augusto Muñoz-Plaza	Regional Group Major on Hispanic America	Guatemala City, Guatemala
Kay Kanhichi Muramoto	General Curriculum	Sacramento
Ernest Cullen Murphy, Jr.	General Curriculum	Eugene, Oregon
Fred Malcom Myers	Zoölogy	Willits
Kenneth Lee Nabors	Psychology	Riverside
Steven Paul Nagel	International Relations	San Francisco
Mary Marsh Nelson	Art	San Francisco
Theodore Nelson	Oriental Languages	Berkeley
Philip Lawson Nesbeitt	Political Science	Kansas City, Kansas
Hjalmer Olaf Nesseth	Zoölogy	Sacramento
Clarence Williby Nichols, Jr.	Physiology	Santa Cruz
Walter Harry Nicol	Zoölogy	Berkeley
Jack Whalen Nicora	Anthropology	Piedmont
Dale Edwin Nielsen	Physics	Berkeley
Robert Joseph Noone	Economics	Newton, Massachusetts
Hollie Bryant Northcott	Psychology	San Francisco
George Herbert Norton	General Curriculum	Burlingame
Irving Rudolf Ojala	General Curriculum	Berkeley
Clinton Albert Olmsted	Physiology	Los Angeles
Margaret Ann Onstead	Regional Group Major on Hispanic America	Oakland
Helen Adele Ortega	Regional Group Major on Hispanic America	San Francisco
Marylois Palmer	Political Science	Oakland
Rosemary Palmer	General Curriculum	Walnut Creek
Margie Adelle Palmerton	Art	Klamath Falls, Oregon
Virginia Parent	Physical Education	Oakland
James Henry Parker, Jr.	Physics	Bakersfield
Nisson S Pearl	Social Welfare	San Diego
Kathryn Margaret Perata	International Relations	Alameda
Albert Perez	Journalism	Monterey
Jacquelin Luise Perottini	German	Pasadena
Lloyd George Perry	General Curriculum	Oakland
Sidney V W Peters, Jr.	General Curriculum	Kentfield
Betty Louise Peterson	Social Welfare	San Jose
John Wright Peterson	Physics	Caldwell, Idaho
Lorraine Weber Peterson	Regional Group Major on Hispanic America	Berkeley
Walter Robert Peterson	General Curriculum	Sacramento
Elizabeth Ross Phillips	General Curriculum	San Carlos
Mary Elizabeth Phillips	English	Berkeley

3 MaryJane Phillips	Regional Group Major on Hispanic America	Bakersfield
3 Anthony James Pia	Political Science	Stamford, Connecticut
3 Harry Junior Pieper	Physical Education	Oakland
3 William Howard Piercy	Economics	San Francisco
3 James Schuler Pike	Geography	Santa Barbara
3 Barbara Anne Pitman	English	Marblehead, Massachusetts
3 Margaret LaVerne Pitta	History	Merced
3 Barbara Helen Pixley	Public Speaking	San Francisco
3 Marion Margaret Plumb	History	San Francisco
3 George Elliott Plummer	Physics, Mathematics	Berkeley
3 Phyllis Soohoo Pong	General Curriculum	Oakland
3 John Russell Potter	History	New York, New York
3 Nettie Louise Potter	Psychology	Selma
3 Arthur Maurice Poulin, Jr.	Physical Education	San Francisco
3 Jenne Lee Powell	Journalism	Sacramento
3 William Arthur Quinlan	General Curriculum	Hanford
3 OElóel Dawn Quitzow	Physical Education	Berkeley
3 Janet Louise Ralphs	Child Development	San Bernardino
3 Robert Lee Ramsaur	General Curriculum	Beverly Hills
3 Elisa Rebecchi	History	San Francisco
3 George Ross Reel	Political Science	Huntington Park
3 Joyce M Reeves	General Curriculum	Oakland
3 Stephen Allen Reid	English	Berkeley
3 Del Reisman	Journalism	Hollywood
3 Dorothy Elaine Reuther	General Curriculum	Berkeley
3 Howard Judson Rhine	English	Lynwood
3 Ann Josephine Rhodehamel	Political Science	Oakland
3 Evelyn Whitman Rice	History	Berkeley
3 Clara Edith Richert	Social Welfare	San Francisco
3 Donald Robert Richey	General Curriculum	La Habra
3 Lewis Edward Richmond	General Curriculum	Fulton, Missouri
3 Carla Aurelia Richter	Bacteriology	San Francisco
3 Thomas Edwin Rickard	Economics	Cutler
3 Anita Yvonne Rickmond	Dramatic Literature	Oakland
3 Jean Marie Ridges	Art	Oakland
3 Robert Rusk Rigor	Psychology	Oakland
3 Marjorie Anne Riley	General Curriculum	Dunsmuir
3 Anthony Thomas Rinaldi	General Curriculum	San Francisco
3 Grant Anthony Robbins	Journalism	Los Angeles
3 Laurel Alice Rockwell	Mathematics	Altadena
3 Robert Rodiack	General Curriculum	San Francisco
3 Howard Emerson Rogers	English	Berkeley
3 Sam Dill Rosen	General Curriculum	New York, New York
3 Phyllis Frances Rosenstock	English	Berkeley
3 Robert S Ross	General Curriculum	San Francisco
3 Joyce Rothenberg	Anthropology	Los Angeles
3 Robert George Rowden	Political Science	Oakland
3 William Byron Rumford	Political Science	Berkeley
3 Patricia Rhea Russell	Journalism	Glendale
3 Rena Pauline Russell	Political Science	Oildale
3 Edward Joseph Sabini	History	San Francisco
3 Mary Julia Salbach	Social Welfare	San Leandro
3 Daniel Sam	General Curriculum	San Francisco
3 Pamela Alice Sampson	General Curriculum	San Francisco
3 Karl Frank Schaff	Medical Sciences	San Francisco
3 Larry Schecter	Physics	San Francisco
3 Donna Patricia Scheidler	General Curriculum	Saginaw, Michigan
3 Marcela Genes Schelb	History	Berkeley
3 Carle Eugene Scheuermann	English	San Jose
3 Benson Blake Schuler	Economics	Berkeley
3 Wilma Schulz	Political Science	San Francisco

³ Robert Eugene Seabridge	Criminology	Oakland
³ Donald Phillip Seaver	Physical Education	Oakland
³ Frances Marie Seitz	General Curriculum	Mill Valley
³ Barbara Locke Selfridge	General Curriculum	San Francisco
³ Robert Dale Shaner	Criminology	Porterville
³ Norman Shapiro	History	San Francisco
³ Betty Joess Dodson Shaw	English	Berkeley
³ Bernard Francis Shay	General Curriculum	Bakersfield
³ Nancy Helene Shenon	Individual Group Major in Child Psychology and Education	Berkeley
³ Samuel Alexis Sher	Zoölogy	San Francisco
³ David Albert Shier	History	Pasadena
³ Charlotte Anne Shuck	General Curriculum	Richmond
³ Thomas Cunningham Sias	Journalism	Mill Valley
³ Alvin Ira Sigal	Physics	Pittsburgh, Pennsylvania
³ Ruth Heppner Silen	Bacteriology	San Francisco
³ Barbara Ann Simon	Social Welfare	Oakland
³ Ferdinand Gustave Simons	Botany	Vallejo
³ John Cameron Sinclair	Biochemistry	Oakland
³ Abraham Singer	General Curriculum	New York, New York
³ Emanuel Skoor	Psychology	Los Angeles
³ Mary Elaine Slater	Social Welfare	Oakland
³ Robert Charles Sliker	Far Eastern Studies	Greensburg, Pennsylvania
³ Hugh Preston Smith	Geological Sciences	San Francisco
³ Leland Clayton Smith	Music	Oakland
³ Philip Jackson Smith	Journalism	Staten Island, New York
³ Robert Truman Smith	History	Chico
³ Elizabeth Snead	Biochemistry	San Francisco
³ Gertrude May Snider	History	Oakland
³ Ronald Sockolov	Physical Education	San Francisco
³ John Franklin Soderstrom	General Curriculum	Modesto
³ Joyce Louise Sokolow	Social Welfare	Los Angeles
³ Herschel Solomon	Psychology	New York, New York
³ Suzanne Sommer	English	Montrose
³ Thomas Tamotsu Sonoda	Biochemistry	Lindsay
³ David Edward Sopher	Geography	Shanghai, China
³ Robert Lytton Spaulding	General Curriculum	Susanville
³ Kathryn Jean Spear	Political Science	Lafayette
³ Benjamin Ginter Stanley	Physiology	Oakland
³ Emmett Martin Stanton, Jr.	Zoölogy	Vallejo
³ Beverley Jean Steiner	General Curriculum	Orinda
³ William Kenneth Steiner	General Curriculum	Monrovia
³ Warren Bernard Stenberg	Mathematics	Oakland
³ Bettijane Stile	History	Chico
³ Billy Richard Stokes	Journalism	Shawnee, Oklahoma
³ Henry Stone	Mathematics	San Gabriel
³ Ralph Olin Stone	Journalism	Berkeley
³ Jean Morse Strong	General Curriculum	Berkeley
³ GloryAnn Sturiale	Psychology	San Francisco
³ Tadayoshi Sugiyama	Psychology	San Francisco
³ Clyde Everett Sullivan	Psychology	Burlingame
³ Eva Lena Sulon	Zoölogy	Grass Valley
³ William Simmons Swain	General Curriculum	Los Angeles
³ Maurice LaVerne Sweatt	Botany	Roseville
³ John Armsby Sweeny	International Relations	San Anselmo
³ Helga Dagmar Swensen	English	San Francisco
³ Yoshio Takakuwa	Social Welfare	Topaz, Utah
³ Anne German Taylor	Political Science	Ukiah
³ Angelina B Thiros	Psychology	Pocatello, Idaho
³ Raymond Jaynes Thollaug	Political Science	Petaluma
³ Jeanette G Thom	Political Science	San Francisco
³ Donald Roff Thomas	General Curriculum	Oakland

2	Mary Jean Thomas	General Curriculum	Palo Alto
2	Leonard Verner Thompson	General Curriculum	Lodi
2	Steingrimur Octavius Thorlaksson, Jr	Music	Berkeley
2	Buford Asa Tribble	General Curriculum	Berkeley
2	Howard Gregory Tucker	Mathematics	Hemet
2	Barbara Lee Turner	General Curriculum	Paso Robles
2	Justine Helen Turner	Sociology and Social Institutions	New York, New York
2	Wilfred Raymond Turney	Psychology	Berkeley
2	William Henry Tuttle	General Curriculum	Oakland
2	Dorothy Twitchell	Zoölogy	Owatonna, Minnesota
2	Margaret Susheila Ufford	English	Los Angeles
2	Virginia Barker Ulrich	General Curriculum	Ukiah
2	James Wesley Vernon	Geological Sciences	San Francisco
2	Henrietta LaTour Vieille	General Curriculum	Berkeley
2	Gilbert Vieira	General Curriculum	Oakland
2	William Joyce Waddell	Economics	Oakland
2	Joyce Ann Lackey Wagner	General Curriculum	Petaluma
2	Donald Clinton Wallace	General Curriculum	San Juan Bautista
2	Richard Lee Wallace	General Curriculum	Concord
2	Dorris Madeleine Wallenbrock	Spanish	Los Angeles
2	Nadine Auguste Ware	General Curriculum	Stockton
2	Arthur B Waugh, Jr	English	Sacramento
2	Harold Dennis Webster, Jr	Psychology	Monte Vista
2	Raymond Weil	English	Los Angeles
2	Susan Fay West	General Curriculum	Berkeley
2	Fern Elaine Wetherbee	General Curriculum	Sacramento
2	Howard Wilson Westervelt	General Curriculum	Fair Oaks
2	John Francis Weyland	Economics	Santa Rosa
2	Margaret Ruth White	Biochemistry	Dallas, Texas
2	Margaret Mary Wickham	General Curriculum	Glendale
2	William Franklin Wiegman	General Curriculum	Modesto
2	Oscar Raymond Wiger	Biochemistry	Berkeley
2	Howard Morrison Wight, Jr	Physics	Long Beach
2	Jocelyn Guelph Willat	International Relations	San Rafael
2	Nona Christensen Willoughby	Anthropology	Oakland
2	Donald Franklin Wilson	Zoölogy	Long Beach
2	Eugene Jack Wilson	Paleontology	Grand Junction, Colorado
2	Robert Patrick Wilson	General Curriculum	Deer Lodge, Montana
2	Warren Harney Wilson	Economics	Sacramento
2	John Cleveland Wingerd	Chemistry	Crescent City
2	Robert Duane Wirt	Zoölogy	Montebello
2	Lorna Marriott Wise	General Curriculum	Guernewood Park
2	Eugene Wiseman	Political Science	Oakland
2	Eugene Leo Woloveke	Economics	San Francisco
2	Lucille Ellice Woodruff	General Curriculum	San Francisco
2	Sally Jane Work	Regional Group Major on Hispanic America	Santa Cruz
2	Cecilia Mildred Wu	General Curriculum	Oakland
2	William Francis Yerington	Geological Sciences	Yorba Linda
2	Barbara Jane Young	General Curriculum	Berkeley
2	Claude Orville Young, Jr	Economics	Stockton

GRADUATE DIVISION

CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ³ Mignon Barrett Bass (A.B. 1947) Oakland
Major: English; Minor: Social Studies.
- ³ Lydia Louise Beatty (A.B. 1947) Mt. Shasta
Major: Social Studies; Minor: English.
- ³ Shirley Jeanne Boles (A.B. 1947) Pasadena
Major: Social Studies; Minor: English.
- ³ Theodora Ruegg Cantanho (A.B. 1944) Berkeley
Major: Mathematics; Minor: Social Studies.
- ³ Carolyn Jane Eproson (A.B. 1947) Stockton
Major: English; Minor: Social Studies.
- ³ June Mary Fisher (A.B. 1947) Stockton
Major: English; Minor: Social Studies.
- ³ Olive Johanna Glieve (B.S. University of Minnesota 1943) Berkeley
Major: Home Economics; Minor: Art.
- ³ Helen Dorsey Kerner (A.B. 1947) Berkeley
Major: Social Studies; Minor: Art.
- ³ Shirley Belle Knipe (A.B. 1947) Santa Ana
Major: Psychology; Minor: Social Studies.
- ³ Elizabeth Wilson Knott (A.B. 1947) Davis
Major: Social Studies; Minor: Art.
- ³ Angiolina Ann Martini (A.B. 1945) St. Helena
Major: Social Studies; Minor: Psychology.
- ³ Patricia Therese Miller (A.B. 1946) San Francisco
Major: English; Minor: Social Studies.
- ³ Marilyn Bernice Robinson (A.B. 1947) Los Angeles
Major: Social Studies; Minor: Speech.
- ³ Roberta Marie Shepherd (A.B. 1947) San Francisco
Major: Social Studies; Minor: English.
- ³ Virginia Ruth Sievers (A.B. 1947) Glendale
Major: Social Studies; Minor: English.
- ³ Argiro Skrepetos (A.B. 1947) Sacramento
Major: French; Minor: English.
- ³ Alice Elise Teilh (A.B. 1947) San Francisco
Major: Social Studies; Minor: Speech.
- ³ Caroline Wallace Tomich (A.B. 1945) Berkeley
Major: Social Studies; Minor: English.

CURRICULUM FOR THE TRAINING OF JUNIOR HIGH SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ³ Mignon Barrett Bass (A.B. 1947) Oakland
Major: English; Minor: Social Studies.
- ³ Lydia Louise Beatty (A.B. 1947) Mt. Shasta
Major: Social Studies; Minor: English.

- ³ Theodora Ruegg Cantanho (A.B. 1944) Berkeley
Major: Mathematics; Minor: Social Studies.
- ³ Caroline Wallace Tomich (A.B. 1945) Berkeley
Major: Social Studies; Minor: English.

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- ³ Audrey Marie Armstrong (A.B. 1947) Oakland
Major: English; Minor: Social Studies.
- ³ Rodney Dale Arner (A.B. University of California at Los Angeles 1945) Pomona
Major: Mathematics; Minor: Physical Science.
- ³ Jeanne Mina Arsanis (A.B. 1946) San Francisco
Major: English; Minor: Spanish.
- ³ Walter Michael Bangert (B.S. 1942) Bell
Major: Physical Science; Minor: Mathematics.
- ³ Robert Standlee Boydston (B.S. 1947) Berkeley
Major: Physical Science; Minor: Mathematics.
- ³ Cecelia Margaret Brodie (A.B. 1947) Alameda
Major: Social Studies; Minor: English.
- ³ Bert Charles Corona (A.B. 1943) Berkeley
Major: Social Studies; Minor: Life Science.
- ³ Marilyn Mae Davis (B.S. 1946) Paso Robles
Major: Business Education; Minor: Social Studies.
- ³ Elizabet Dunbar De Hart (A.B. 1946) Richmond
Major: English—Speech—Drama—Journalism; Minor: Social Studies.
- ³ Bettina Bodin Dickie (A.B. 1936) Berkeley
Major: Spanish; Minors: French, Social Studies.
- ³ Melvin John Duezabou (A.B. 1940) Oakland
Major: Physical Education; Minor: Social Studies.
- ³ Ora Alice Gipe (A.B. 1943; M.A. 1947) Sacramento
Major: Art; Minor: Life Science.
- ³ Ellsworth Hagen (B.S. 1947) Oakland
Major: Life Science; Minor: Social Studies.
- ³ Bernard Seymour Halperin (A.B. Brooklyn College 1942) Brooklyn, New York
Major: Social Studies; Minor: English.
- ³ Dora Bowen Hunnicutt (A.B. 1944) El Cerrito
Major: Social Studies; Minor: English.
- ³ Carolyn Keyes Johnson (A.B. 1938) Berkeley
Major: English; Minor: Social Studies.
- ³ Thomas Edgar Leshner (Ph.B. De Paul University 1940; M.A. University
of Chicago 1946) Richmond
Major: English; Minor: Social Studies.
- ³ Keith Edward Mahan (A.B. 1945) Yuba City
Major: English; Minor: French.
- ³ Louis Richard Miller (A.B. 1947) Burlingame
Major: Social Studies; Minor: Business Education.
- ³ Arthur Jack Misner (A.B. 1942) Berkeley
Major: Social Studies; Minor: English.
- ³ Louis Philip Nash (A.B. University of California at Los Angeles 1944) La Jolla
Major: Music; Minor: Social Studies.
- ³ Roger Alfred Nixon (A.B. 1941) Tulare
Major: Music; Minor: English.

- * Bianca Mary Ratto (A.B. 1947) Colma
Major: Italian; Minors: Spanish, German, Social Studies.
- * Carol Joyce Sideman (A.B. 1947) Oakland
Major: Art; Minor: Social Studies.
- * Edwin Arthur Springer (A.B. 1942) Lindsay
Major: Social Studies; Minor: English.
- * Winifred Starbuck Stewart (A.B. 1947) San Francisco
Major: English; Minor: Social Studies.
- * Sarkis Takesian (A.B. 1946) Selma
Major: Physical Education; Minor: Social Studies.
- * Delbert Vincent White, Jr (A.B. 1945) Oakland
Major: Physical Education; Minor: Social Studies.

**CURRICULUM FOR THE TRAINING OF ELEMENTARY
SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- * Howard Frank Kraus (A.B. 1939) Oakland

**CURRICULUM FOR THE TRAINING OF SECONDARY
SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- * Robert Elwood Buechner (A.B. Pomona College 1938) San Diego

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

- * Thomas Elliot Bowman (B.S. Harvard University 1941; M.A. 1948) . . San Francisco
Major: Zoölogy; Minors: Botany, Physiology.
- * Ora Alice Gipe (A.B. 1943; M.A. 1947) Sacramento
Major: Art; Minor: Life Science.
- * Dave Charles Jones (A.B. 1943; M.A. 1948) Oakland
Major: Physiology; Minor: Chemistry.
- * Thomas Edgar Leshner (Ph.B. De Paul University 1940; M.A. University of
 Chicago 1946) Richmond
Major: English; Minor: Social Studies.

DEGREES CONFERRED

**The Degree of Master of Business Administration (School of Business Administration) upon*

- ° Albert Woolridge AgnewHollywood
B.S. 1942.
- ° Oscar Joseph AndersonLincoln, Nebraska
B.S. University of Nebraska 1942.
- ° Charles Dick Behm Alhambra
B.S. 1937.
- ° Leslie Rixson Burnett Grand Rapids, Michigan
B.S. University of Michigan 1944.
- ° Robert Frank GirardWhiting, Indiana
B.S. 1944.
- ° Lee W Halverstadt Earlimart
B.S. 1946.
- ° Gordon Newton Meacham San Francisco
B.S. Newark College of Engineering 1943.
- ° Roy Johnson Sampson San Francisco
B.S. Tennessee Polytechnic Institute 1946.
- ° John Earl Williams Rialto
B.S. 1946.

**The Degree of Master of Education (School of Education) upon*

- ° Cyril Merlan Jørgensen Agriculture San Jose
B.S. 1939.
- ° Rocci George Pisano Agriculture San Jose
A.B. San Jose State College 1939; B.S. 1941.

**The Degree of Master of Engineering upon*

- ° Sheldon Forbes Craddock Petroleum Engineering Los Angeles
B.S. 1943.

***The Degree of Master of Public Health (School of Public Health) upon*

- ° Robert Carver Clarke San Francisco
A.B. Willamette University 1939.
- ° Wallace Wray Jons El Paso, Texas
A.B. Texas College of Mines and Metallurgy 1936.
- ° Merwin Leslie Noble Alpine, Arizona
A.B. Arizona State Teachers College, Tempe, 1942.
- ° MaryLou Heaton Skinner Ventura
B.S. University of North Dakota 1935.

***The Degree of Master of Social Welfare (School of Social Welfare) upon*

- ° Newell Winston Ackerson Montague, Michigan
B.S. Northwestern University 1941.
Thesis: A study of the Contra Costa County Social Service Department with emphasis on administrative problems created by the organization of a branch office.

* A comprehensive final examination in the major subject is required in lieu of a thesis.
 ** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- ³ Jeanne Eastman Berkeley
A.B. 1939; M.A. 1941.
Thesis: The participation of fathers in child guidance cases at Langley Porter Clinic.
- ³ Lee Fleming Headley Eureka
A.B. 1937.
Thesis: The development and integration of casework services in the neuro-psychiatric service of a Veterans Administration general hospital.
- ³ Idris Louise Holcomb Oakland
A.B. 1945.
Thesis: Institutional facilities for the convalescent care of San Francisco children with rheumatic fever.
- ³ Mary Elizabeth Isham Berkeley
A.B. 1935.
Thesis: State registration of social workers in California.
- ³ Ruth Marie Wilson Westwood
A.B. 1927.
Thesis: Guardianship of children: parents and strangers in California law.

****The Degree of Master of Science upon**

- ³ Asker Ahmed Asker Animal Husbandry Cairo, Egypt
B.S. Fouad I University 1941; Dipl. Agr. Sci. University of Edinburgh 1946.
- ³ Pedro Pablo Balog Horticulture Buenos Aires, Argentina
Agr. Eng. National University of Cuyo, Argentina 1946.
- ³ James Corwith Bishop Truck Crops Modesto
B.S. Cornell University 1941.
- ³ Chuan Chang Metallurgy Canton, China
B.S. National Chiao Tung University 1942.
Thesis: Basic open hearth slag.
- ³ Chilakamarri Narasimha Chari Agricultural Technology I. East Godavary, India
B.S. 1941 and M.S. 1942 Andhra University.
Thesis: Adsorption and spectroscopic techniques applied to rancid vegetable oils.
- ³ Morrison Chun Chemistry Locke
B.S. 1943.
Thesis: Alkylation of aromatic compounds in sulfuric acid.
- ³ Julius Carl Deubner Agricultural Economics Berkeley
B.S. 1938.
Thesis: An economic study of California flaxseed production.
- ³ Marion Esther Ditisheim Plant Physiology New York, New York
A.B. Vassar College 1946.
- ³ Camilo Echavarria Restrepo Soil Science Medellin, Colombia
B.S. 1946.
- ³ Ahmed Mohamed El-Tabey Agricultural Technology I. Cairo, Egypt
B.S. Fouad I University 1941.
Thesis: A study of the oxidase of apricots.
- ³ Loren A Estabrook Entomology Bakersfield
B.S. 1943.
Thesis: Toxicity of the isomers of hexachlorocyclohexane.
- ³ Abdel Aziz Fathy Entomology Berkeley
B.S. Fouad I University 1940.
Thesis: Action of DDT on surface films of fatty acids and other lipides.
- ³ Luis Enrique Gregory Plant Physiology San Germán, Puerto Rico
B.S. University of Puerto Rico 1936.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- * Stephen Arnold Hays.....Chemistry San Diego
 B.S. Iowa State College 1944.
- * Amp Frank Hicks, Jr.....Poultry SciencePaducah, Kentucky
 B.S. University of Kentucky 1946.
- * Marcial Loera Ibarra.....Agricultural Technology I.. Mexico City, Mexico
 Chem. Eng. University of Mexico 1944.
Thesis: Formation of pectic enzymes by species of the *Aspergillus niger* group.
- * Ahmet Vamik Isvan.....Horticulture Istanbul, Turkey
 B.S. Robert College 1944.
- * Frederic Charles Jacob.....Electrical EngineeringDavis
 B.S. 1945.
Thesis: A study of modes in a high-Q cavity resonator.
- * Peter Henry Kafitz.....Electrical EngineeringGlendale
 B.S. California Institute of Technology 1942.
Thesis: Determination of magnetron characteristics by probe measurements.
- * Ali Mohamed Abdul Latif Khatri...Mechanical Engineering.....Karachi, India
 B.Eng. University of Bombay 1945.
Thesis: Refrigeration and air conditioning in India.
- * Feridun KuranMechanical Engineering Berkeley
 Grad. Istanbul Technical University 1946.
Thesis: A theoretical study of detached shock waves.
- * William Isaac LeVan.....Electrical EngineeringOakland
 B.S. Pennsylvania State College 1932.
Thesis: Measurements of the absorption of microwaves by gases.
- * William Judson Linder.....Electrical Engineering Berkeley
 B.S. University of Washington 1942.
Thesis: The dielectric rod antenna.
- * Raleigh Llewellyn McKisson.....Chemical EngineeringMarysville
 B.S. 1947.
Thesis: Application of the high temperature calorimeter to the determination of the heat of formation of Na-Sn alloys.
- * Carl Fredrick Miller.....ChemistryOsceola, Wisconsin
 B.S. River Falls State Teachers College 1940.
- * Laurence Wilber Milnes.....Civil EngineeringModesto
 B.S. University of Texas 1945.
Thesis: Location and design of distribution system for Madera Irrigation District from San Joaquin River to Cottonwood Creek.
- * Paul PietrokowskyMetallurgyLos Angeles
 B.A.S. 1944.
Thesis: The effect of microstructure on the temper brittleness of steels.
- * Bluebell ReadeHome Economics.....Shillong, Assam, India
 B.S. University of Calcutta 1942.
Thesis: The relationship of riboflavin deficiency to adrenal cortical function.
- * Harold David Rosoff.....Agricultural Technology I
 B.S. Massachusetts Institute of Technology 1943. Dorchester, Massachusetts
Thesis: The oxidizing enzymes of cauliflower.
- * Ram Sagar Roy.....AgronomyDarbhanga, India
 B.S. Benares Hindu University 1935.
- * James Edward Schumann, Jr.....Civil EngineeringSan Jose
 B.S. 1944.
Thesis: Effect of entrained-air on the durability of concrete.
- * Raphael Herman Segall.....Plant PathologyLos Angeles
 B.S. 1946.
- * Murray Herbert Slater.....Civil EngineeringLos Angeles
 B.A.S. 1944.
Thesis: Investigations of the flexural and tensile properties of asphaltic mixtures.

- ³ David Francis Snoeberger. Chemical Engineering. Everett, Washington
B.S. State College of Washington 1947.
Thesis: Mass transfer from granular solids.
- ³ Oistein Stromnaes Genetics Sarpsborg, Norway
Grad. University of Oslo 1941.
Thesis: The effect of age on sensitivity to x-rays in males of *Drosophila melanogaster*.
- ³ Alfred Morden Thym. Agricultural Engineering Stockton
B.S. 1943.
Thesis: A theory for the color sorting of lemons by electronic methods.
- ³ Hartwell Hayward Welsh. Entomology Richmond
B.S. 1947.
Thesis: The phymatidae of North America.

****The Degree of Master of Arts upon**

- ³ Albert Edward Bagot Biochemistry San Francisco
A.B. 1947.
- ³ Pina Josephine Barbieri. History Richmond
A.B. 1931.
Thesis: The origin and early development of the reciprocal trade agreements program.
- ³ Sam Sebree Baskett. English Fayette, Missouri
A.B. Central College 1941.
- ³ Mona Marx Beaumont. Art Berkeley
A.B. 1945.
- ³ Ann Marie Bendorf. Education Oakland
A.B. College of the Holy Names 1943.
- ³ Marjorie Jean Benedict. Political Science Berkeley
A.B. Stanford University 1946.
Thesis: The judicial methods of Justice Louis Dembitz Brandeis.
- ³ Janet Eliscu Blechner. Education. . Cedarhurst, Long Island, New York
A.B. New York University 1943.
- ³ Felicia Gressitt Bock. Oriental Languages Oakland
A.B. Mount Holyoke College 1936.
Thesis: *Minyó*, folk songs of Japan.
- ³ John Hurd Booth Spanish. Paso Robles
A.B. St. Mary's College 1937.
- ³ Roland Wallace Boughton, Jr. Physics. La Mesa
B.S. United States Military Academy 1939.
- ³ Thomas Elliot Bowman. Zoölogy San Francisco
B.S. Harvard University 1941.
Thesis: The control of chromatophores in the crab, *Hemigrapsus oregonensis*.
- ³ Clifton D Boyack. Education Berkeley
A.B. Brigham Young University 1936.
- ³ Evelyn Cordelia Bristol. Slavic Languages and Literatures. Oakland
A.B. 1946.
- ³ Thomas Reginald Burke. Architecture Orinda
A.B. 1946.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- 2 William Horace Carter Geology Lubbock, Texas
 B.S. Texas Technological College 1943.
Thesis: Geology of the northeast corner of the Calistoga Quadrangle.
- 2 Milton Albert Chamblin French Berkeley
 A.B. 1946.
- 2 William Juntung Chen Education Los Angeles
 B.S. National Central University, China 1945.
- 2 Arthur Watts Clark Geology Bellevue, Washington
 A.B. University of North Carolina 1943.
Thesis: Geology of a portion of the St. Helena Quadrangle, California.
- 2 Patricia Jeanne Clark Librarianship San Francisco
 A.B. 1940.
- 2 Robert Garland Colodny History San Francisco
 A.B. 1947.
Thesis: A study of the foreign genesis of the Franco regime.
- 2 James Conlan Mathematics San Francisco
 A.B. 1945.
- 2 John Moffatt Danskin, Jr. Mathematics Alhambra
 A.B. University of California at Los Angeles 1943.
- 2 Frederick Parks Davenport Economics Eastland, Texas
 A.B. Texas Technological College 1939.
Thesis: Recent British land reform legislation.
- 2 Elizabeth Thorne Dazey Anthropology Pasadena
 A.B. Vassar College 1944.
Thesis: The transition from childhood to adulthood among the Klamath Indians
 of Oregon.
- 2 George Stephen Dolim Architecture Wailuku, Maui, Hawaii
 A.B. 1947.
- 2 Ralph Soule Du Casse Art Carmel
 A.B. University of Cincinnati 1940.
- 2 Thomas Henry Dutcher Education Alameda
 A.B. University of Southern California 1939.
- 2 Jack Arthur Edson Architecture San Mateo
 A.B. 1947.
- 2 Norman Ludwig Egger Psychology National City
 A.B. San Diego State College 1945.
Thesis: Contrasting attitudes toward death among veterans with and without
 battle experience and non-veterans.
- 2 Harold John Eifert Education Oakland
 A.B. 1934.
- 2 Osman Hassan El-Mofty Physics Washington, District of Columbia
 B.E.E. Fouad I University 1942.
- 2 Doris Olive Fay French Santa Barbara
 A.B. University of Wisconsin 1942.
- 2 John Gordon Fechter History Berkeley
 A.B. 1932
Thesis: Opposition of New York State to the St. Lawrence Project, 1895-1934.
- 2 Edgar Herbert Fickenscher Mathematics Sacramento
 A.B. 1942.
- 2 Melba Elizabeth Fitzpatrick History Berkeley
 A.B. 1925.
Thesis: French intervention in Mexico.
- 2 Roger Legrand Fulton History Berkeley
 A.B. 1946.
Thesis: The diplomacy of the Committee of Public Safety.

- 3 Jesse Lee Gilmore.....HistoryGrants Pass, Oregon
 A.B. Willamette University 1942.
Thesis: The political emergence of William Jennings Bryan, 1887-1896.
- 3 Leslie S Gordon.....ZoölogySan Jose
 A.B. 1935.
Thesis: Variation and ecology of *Lepidurus* from a single temporary pond.
- 3 Charles Richard Goss.....GeologyBerkeley
 B.S. University of Washington 1943.
Thesis: Geology of the southwest corner of the Calistoga Quadrangle.
- 3 Gerald Kenneth Gresseth.....LatinSan Pedro
 A.B. Reed College 1941.
- 3 John Parker Harrison.....HistorySacramento
 A.B. 1938.
Thesis: Introduction of steam navigation on the Magdalena River.
- 3 Hossein Hashemi.....Political ScienceBerkeley
 Diploma in Agriculture, University of Teheran 1943.
Thesis: Strategical and political situation of Iran.
- 3 Albert Claude Hawbecker.....ZoölogyFresno
 A.B. Fresno State College 1933.
Thesis: Analysis of variation in the western races of the white-breasted nuthatch.
- 3 Juliane Marion Heyman.....International Relations.....Beverly Hills
 A.B. Barnard College 1946.
Thesis: The principle of unanimity in international law and its exceptions.
- 3 Wyman Worley Hicks.....EconomicsSan Francisco
 A.B. 1947.
Thesis: Japan's postwar labor movement.
- 3 Milton Hildebrand.....ZoölogyBerkeley
 A.B. 1940.
- 3 Verl Lee House.....ZoölogySalinas
 A.B. 1941.
- 3 Francis Carroll Huntley.....HistoryOakland
 A.B. 1941.
Thesis: Salt: a study in colonial economy.
- 3 Elvin Millard Hurlbut, Jr.....Geology.....El Campo, Texas
 B.S. University of Texas 1943.
Thesis: Geology of a portion of the Calistoga Quadrangle.
- 3 Lowell Whitmore Jackson.....HistoryAlbany
 A.B. 1947.
Thesis: The French Socialists during the crisis, July 28 to August 4, 1914.
- 3 Stedwell Johnston.....GeologyBakersfield
 B.S. University of Idaho 1942.
Thesis: The geology of a portion of the Calistoga Quadrangle.
- 3 Dave Charles Jones.....PhysiologyOakland
 A.B. 1943.
Thesis: Studies in bone metabolism using radioactive strontium.
- 3 Arthur Eli Karinen.....GeographyFort Bragg
 A.B. 1944.
Thesis: The historical geography of the Mendocino Coast.
- 3 Juliet Knowles.....ZoölogySan Francisco
 A.B. Vassar College 1945.
Thesis: Homoplastic transplantation of the thyroid in the adult rat.
- 3 Franklin Alfred Lindeburg.....Physical EducationVallejo
 A.B. 1941.
Thesis: Effects of practicing physical skills on reaction time and coördinated movements.

- ² Helene Lourie-Steinbock Biochemistry
Vancouver, British Columbia, Canada
B.S.A. University of British Columbia 1945.
- ² Mary Anita McCulloch English . . . Kelowna, British Columbia, Canada
A.B. University of British Columbia 1938.
- ² Gerald Dalbert Matson Architecture Eureka
A.B. 1942.
- ² Wallace Irving Matson Philosophy Oakland
A.B. 1942.
- ² James Wilson Neil Education Ogden, Utah
A.B. University of Utah 1933.
- ² Gilman Marston Ostrander History San Diego
A.B. Columbia University 1946.
Thesis: The molasses trade of the Thirteen Colonies.
- ² Marie Bertha Pabst Paleontology Springfield, Illinois
B.S. University of Minnesota 1936.
Thesis: Ferns of the Clarno formation.
- ² Richard Nash Page Physical Education San Diego
A.B. University of Redlands 1945.
Thesis: Voluntary participation in college physical education in relation to the high school program.
- ² Philip Richard Patten Geology Berkeley
A.B. 1946.
Thesis: The San Pablo Formation north of Mt. Diablo, California.
- ² Stanley Joseph Pincetl, Jr. History Phoenix, Arizona
A.B. 1946.
Thesis: Gallieni: colonizer, soldier, war minister of France.
- ² João Baptista Pinheiro Economics San Francisco
LL.B. College of Law of Niteroi, Rio de Janeiro 1935.
Thesis: Economic planning in Brazil.
- ² Ariel Reynolds English Piedmont
A.B. Scripps College 1946.
- ² Ruby Elizabeth Rieder Education Hilltop, Arizona
A.B. Arizona State Teachers College, Flagstaff, 1943.
- ² Elizabeth Margaret Riley History Sacramento
A.B. 1943.
Thesis: The history of the almond industry in California, 1850-1934.
- ² John Darwin Royce, Jr. Architecture Burlingame
A.B. 1943.
- ² Wade Hampton Sawyers Political Science Fresno
A.B. Fresno State College 1934.
Thesis: The Soviet Union and international organization.
- ² Evelyn Bremken Schiesser Education Bakersfield
B.S. Northwestern University 1942.
- ² Mary Julia Schultz Spanish Santa Rosa
A.B. 1945.
- ² Carnie Henry Smith Physical Education Parsons, Kansas
B.S. University of Kansas 1933.
Thesis: Influence of athletic success and failure on the level of aspiration.
- ² Charles William Steele Spanish East Hartford, Connecticut
A.B. University of Missouri 1942.
- ² Marjorie Oletha Thomas History Alameda
A.B. San Diego State College 1942.
Thesis: The Arkansas Post of Louisiana, 1682-1783.

- ³ John Lewis Traugott.....EnglishGlendale
B.S. Purdue University 1942.
- ³ Grete Unger.....EconomicsBerkeley
A.B. 1945.
Thesis: J. M. Keynes on international currency stabilization, 1919–1927.
- ³ Barbara Sue VanVuren.....ArtLong Beach
A.B. University of California at Los Angeles 1943.
- ³ Charles LeRoy Albert Waugh.....EducationBerkeley
A.B. 1925.
- ³ Robert Ewing WearArchitecturePasadena
A.B. 1947.
- ³ Carroll Aubrey Webber, Jr.....PhysicsWestfield, New Jersey
B.S. California Institute of Technology 1946.
- ³ Edith Hill Webber.....EnglishWillows
A.B. 1944.
- ³ Martin Paul Weissman.....PsychologyBerkeley
A.B. 1938.
Thesis: Preliminary evaluation of the multiple choice Rorschach in prediction of academic success.
- ³ John Gail WisecarverEnglishSpokane, Washington
Ph.B. Gonzaga University 1938.
- ³ Harold WolfZoölogyBerkeley
A.B. 1945.
Thesis: A study of *Eimeria levimura* n. sp. from *Reithrodontomys megalotis*.

The Degree of Bachelor of Laws (School of Jurisprudence) upon

- ³ Harry Vincent Bamford (A.B. Dartmouth College 1937).....La Jolla
- ³ Charles Robert Bell, Jr. (A.B. 1940).....Berkeley
- ³ Paul David Engstrand, Jr. (A.B. Bethany College 1940).....Turlock
- ³ Hugh Scott Goodfellow (A.B. Yale University 1940).....Berkeley
- ³ Ross Earl Hamlin, Jr. (A.B. 1938).....Santa Rosa
- ³ Leo Ray Burnell Henrikson (B.S. University of Illinois 1942).....Moline, Illinois
- ³ Lewis James Keller (A.B. 1942).....Oakland
- ³ Robert Henry Kroninger (A.B. 1944; B.S. 1945).....Brooks
- ³ Francis Bonnington Mathews (A.B. 1946).....Berkeley
- ³ Raymond Earl Mellana (A.B. 1940).....Oakland
- ³ Stewart Doerr Millon (A.B. 1943).....Burlingame
- ³ Chris Papas (A.B. 1941).....Stockton
- ³ William Quebbeman (A.B. DePauw University 1940).....Oakland
- ³ William Schuler Sparks (A.B. 1940).....San Francisco
- ³ John Reynolds Stokes, Jr. (A.B. 1946).....Richmond
- ³ Herbert Alfred Waterman (B.S. 1940).....San Diego

The Degree of Doctor of Education (School of Education) upon

- ³ Arthur Wesley JohnsSecondary EducationSan Francisco
A.B. College of the Pacific 1912; B.L. 1914; M.A. Stanford University 1922.
Thesis: A study of procedures in the development of terminal courses in a selected group of California public junior colleges.
- ³ Ezra Robert Harding WyethEducational Psychology....Brisbane, Australia
A.B. University of Queensland 1934; M.Ed. University of Melbourne 1944.
Thesis: Some implications of the Queensland proposal to raise the school leaving age.

The Degree of Civil Engineer upon

- ³ Edward G HerbSan Francisco
B.S. United States Military Academy 1933; M.S. Massachusetts Institute of Technology 1936.
Thesis: Crack resistance and other characteristics of concrete containing air-entertaining agents.

The Degree of Doctor of Philosophy upon

- ² Ellis Theodore Demars Education Salt Lake City, Utah
A.B. 1934 and M.A. 1939 University of Utah.
Thesis: A study of the achievement at the University of California, Berkeley campus, of students making up entrance deficiencies in the University of California Extension Division.
- ³ William Noël English Physics.. Vancouver, British Columbia, Canada
A.B. University of British Columbia 1937.
Thesis: Positive and negative point-to-plane corona in air.
- ² Charles Anthony Fleschner Entomology Berkeley
B.S. 1942.
Thesis: The searching capacity of predacious insects.
- ² Richard Harry Foster Romance Philology Oakland
A.B. 1930; M.A. 1937.
Thesis: The Spanish in the Cebuano vocabulary of the Bible as a partial revelation of Spanish cultural, political, and economic influence in the Philippine Islands.
- ³ Marjorie Grace Hopkins Fox..... Zoölogy Nutley, New Jersey
A.B. Hunter College 1940; M.A. Mount Holyoke College 1942.
Thesis: Analysis of some phases of melanoblast migration in barred Plymouth Rock embryos.
- ² Clarence Marvin Johnson Agricultural Chemistry Berkeley
B.S. 1936.
Thesis: The influence of petroleum spray oils and their oxidation products on the metabolism of bean leaves.
- ³ Henry Charles Lanz, Jr..... Biophysics Richmond
A.B. Stanford University 1936.
Thesis: The comparative metabolism and distribution of carrier-free radioarsenic (As^{74}).
- ² Samuel Nelson LeCount Education Berkeley
A.B. 1937; M.A. Teachers' College, Columbia University 1940.
Thesis: A study of the oral reading abilities of good and poor silent readers, with emphasis on the process of word recognition.
- ² Robert Loevinger Physics St. Paul, Minnesota
A.B. University of Minnesota 1936; M.A. Harvard University 1940.
Thesis: Energy transfer from 100 Mev neutrons to light nuclei.
- ² Donald Stuart McClure Chemistry Yonkers, New York
B.Chem. University of Minnesota 1942.
Thesis: Life time of phosphorescence in organic molecules.
- ² Bayard Harlow McConnaughey... Zoölogy Claremont
A.B. Pomona College 1938; M.A. University of Hawaii 1941.
Thesis: A study of the Dicyemid Mesozoa.
- ³ Abram Edahnov Manell Political Science..... Boston, Massachusetts
B.S. Middlebury College 1934; M.A. 1936.
Thesis: Sanctions under the charter of the United Nations.
- ² Howard Nile Miller Plant Pathology..... Nioto, Tennessee
A.B. Bridgewater College 1939; M.S. Michigan State College 1941.
Thesis: Certain cultural and histological studies on the fungus *Cyloconium ole-
aginum* Cast.
- ² John Ibrahim Mirhij Plant Pathology Beirut, Syria
A.B. American University of Beirut 1929; M.S. 1938.
Thesis: The relation of light to the fungicidal action of sulphur.
- ² Donald Clark Moore Physics Berkeley
A.B. University of Nebraska 1942.
Thesis: A study of cosmic rays at altitudes up to 30050 feet.

- ³ Roger Sherwood Nelson Economics Berkeley
A.B. Yankton College 1935.
Thesis: Federal financial aid for urban rehousing.
- ³ Frances Grace Orr Psychology Berkeley
A.B. 1940 and M.S. 1941 University of Michigan.
Thesis: Age changes and constancy of Rorschach test variables during adolescence.
- ³ Mother Catherine Margaret Parks... Education San Francisco
A.B. San Francisco College for Women 1931; M.A. Loyola University, Chicago,
1939.
Thesis: Implications for education in contemporary society derived from a basic
philosophy of education.
- ³ James Jerome Parsons, Jr. Geography Monrovia
A.B. 1937; M.A. 1939.
Thesis: Antioqueño colonization in western Colombia: an historical geography.
- ³ Keith Austin Pierce Astronomy Lincoln, Nebraska
A.B. 1940.
Thesis: Photographic and photo-electric profile of the Fraunhofer line Mg b λ 5184.
- ³ James Gordon Retallack Physics.. Vancouver, British Columbia, Canada
A.B. University of British Columbia 1938.
Thesis: The mass of the mesotron.
- ³ Max George Schumacher History Canoga Park
A.B. University of California at Los Angeles 1931; M.A. 1933.
Thesis: The northern farmer and his markets during the late colonial period.
- ³ Kenneth Gordon Scott..... Physiology Richmond
A.B. 1934.
Thesis: Metabolism of radio silver in the rat.
- ³ Arthur Hamilton Smith..... Comparative Physiology Berkeley
A.B. 1938.
Thesis: A comparative study of the respiratory exchange of a mammal and an
insect during early development.
- ³ Earle King Stewart History Berkeley
A.B. 1933 and M.A. 1938 Willamette University.
Thesis: Steamboats on the Columbia: the pioneer period, 1850-1869.
- ³ Robert Silas Stewart Education Berkeley
A.B. University of Wisconsin 1933; M.A. 1940.
Thesis: Personality maladjustment and reading achievement.
- ³ Ellery Cory Stowell, Jr..... Biochemistry Santa Barbara
B.S. California Institute of Technology 1940; M.A. 1943.
Thesis: Studies on cystathionine.
- ³ Stephen Wilhelm Plant Pathology West Los Angeles
A.B. University of California at Los Angeles 1942.
Thesis: Studies of *Verticillium albo-atrum* Rke. et Bert. with particular reference
to variation in culture, morphology, pathogenicity, with application to the
species concept.

HONORS WITH DEGREES
HONORABLE MENTION WITH THE DEGREE OF
ASSOCIATE IN ARTS

FEBRUARY, 1948

IN THE COLLEGE OF LETTERS AND SCIENCE

- | | |
|------------------------------|-----------------------------------|
| • Robert Abramson | • Nancy Jean Lein |
| • Jack Takeo Aikawa | • Lillian Levin |
| • William Gamble Baffert | • Wayne Walter Loretz |
| • Harold Edward Bamford, Jr. | • Dale Lynn McKeen |
| • Barbara Adele Barnes | • Carlita Florence Magee |
| • Robert Bellamy Beard | • Dean Edson Mann |
| • Donald Vernon Bishop | • Geraldine Marcus |
| • Joan Cahail Bishop | • Shirley Beatrice Shinkle Marvin |
| • Dale Randall Blanchard | • Marjorie Madeline Milleron |
| • James William Braghetta | • Donald Edward Mitchell |
| • Meir Brudny | • Jerry George Murphy |
| • William Allen Carroll | • Emmett Leonard Murray |
| • Gordon Irving Carter | • David Joelsohn Nagler |
| • Jean Duncan Chalmers | • Dolores Braselman Newman |
| • Gloria Nathalie Cuadra | • Ronald Richards Novales |
| • Anna Elsa Damiani | • Laurence Oscar Pilgeram |
| • Sybil B Dere | • John Agnew Porter |
| • Eleanor Gertrude Dorsey | • William Throop Purdy |
| • Calvin Warner Dunbar | • William Louis Radtke |
| • William Edward Dunkum | • Donald Rieke Ravenscroft |
| • Luella Pauline East | • Arno Alfred Rayner |
| • Robert Harland Edwards | • John Watson Roeth |
| • Charles Luther Eggleton | • Laura Louisa Ryan |
| • Albert Bertrand Elsasser | • Anne Kellogg Service |
| • Verna Bodycote Fraser | • Kathryn Irene Shaeffer |
| • Earl Wayne Friesen | • Robert Horton Sharpe |
| • Henry Bernhard Fulton | • Irving Shemano |
| • Theodore Frederick Gould | • Robert Henry Sicular |
| • Betty Mary Graham | • Carol Fae Simens |
| • Charlotte Lorraine Green | • Daniel Malloy Smith |
| • Wallace Belden Hall | • Joseph Lawrence Spray |
| • Leonard Lathrop Hancock | • Muriel Joye Strong |
| • Theodore William Hayes | • Lemuel Mullen Summey |
| • Evelyn Shirley Hazen | • Marvel M Taylor, Jr. |
| • Roy Harlan Howland | • Richard La Prentice Trapp |
| • Carlton Laird Hiams | • René Yvette Trefeil |
| • Charles Kenneth Jackson | • Norman Richard Wallace |
| • Bernard Mervin King | • William Henry Wehlau |
| • David Carman Kleinecke | • Ilse Emilie Wolfen |
| • Edwin James Knapton | • Robert McAlpine Worth |
| • Donald Ward Lathrap | |

HONORS WITH THE BACHELOR'S DEGREE**IN THE SCHOOL OF ARCHITECTURE**³ James Frank Bernard³ Grover William Taylor**IN THE SCHOOL OF BUSINESS ADMINISTRATION**³ William Paul Barsanti³ Alice Christine Hansen LaMont³ Leo George Connolly, Jr.³ Joseph David Lubin³ Stanley Glenn Eisner³ Harvey Machaver³ Frederick Arne Frederickson³ Lowell Edison Mee³ Allan Bernt Goldsmith³ Robert Walker Moore³ Frank Page Storment**IN THE SCHOOL OF FORESTRY**³ Richard Lawson Holland, Jr.³ Howard Edwin Moore**IN THE SCHOOL OF NURSING**³ Elizabeth Ann McDonald**IN THE COLLEGE OF AGRICULTURE****AGRICULTURE**³ Fannie Bartholomew³ William Howard Enzie³ Neil Sargent Carter³ Thomas Benton Lewis*Highest Honors*³ Irvin Monroe Hall, Jr.³ Harold Benjamin James**IN THE COLLEGE OF CHEMISTRY**³ Robert Merrill Bonner³ Jack Quincy Payne³ Donald Francis Roy Cochran³ Lee Marion Porter³ Donald Alfred Orth³ Konrad Troxel Semrau³ Vazken Harry Tashinian*Highest Honors*³ James Nelson Shoolery**IN THE COLLEGE OF ENGINEERING**³ James Kenneth Ballou³ Leslie Hubert Maland³ Stuart Hawley Bartholomew³ Thomas Howard Mansfield³ Vernon LeRoy Cline³ John Clifford Riley³ Walter David Goldsmith³ Alexander Costicas Scordelis³ Jack Courtney Lansing, Jr.³ Gerald Lloyd Smith³ Robert Price Wanger*Highest Honors*³ Hugh Milton Gallaher

IN THE COLLEGE OF LETTERS AND SCIENCE

ANTHROPOLOGY

• John Hempstead Bushnell

• Nona Christensen Willoughby

BACTERIOLOGY

• Ruth Heppner Silen

BIOCHEMISTRY

• Chozo Mitoma

• Thomas Tamotsu Sonoda

Highest Honors

• Ronald Arthur Becker

ECONOMICS

• Bertwing Chao-hao Mah

• John Francis Weyland

Highest Honors

• Douglas Fitzgerald Dowd

• Thomas Edwin Rickard

ENGLISH

• Judith Barbara Davis

• Marjorie Josephine Leite

• Raymond Weil

Highest Honors

• Phillip Whitcomb Damon

FAR EASTERN STUDIES

• Leo Bromwich

GENERAL CURRICULUM

• Kenneth Alfred DeMattei

GEOGRAPHY

• David Edward Sopher

GERMAN

• Jacquelin Luise Perottini

HISTORY

• Richard Hugh Dillon

• Evelyn Whitman Rice

INTERNATIONAL RELATIONS

• Ben Scott Foster

• William Kenneth Medlin

MATHEMATICS

• George Elliott Plummer

• Howard Gregory Tucker

MUSIC

• Lorraine Ethel Gay

Highest Honors

• Leland Clayton Smith

*Honors—February***ORIENTAL LANGUAGES***Highest Honors*³ Theodore Nelson**PHILOSOPHY***Highest Honors*³ Charles William Cassinelli, Jr.**PHYSICS**³ George Elliott Plummer³ Larry Schecter³ Howard Morrison Wight, Jr.*Highest Honors*³ Wulf Kunkel³ John Wright Peterson**PSYCHOLOGY**³ Joseph Addison Baxley³ William Power Clancey, Jr.³ Edward Albert Kueffer*Highest Honors*³ Barbara Casassa Frissell**REGIONAL GROUP MAJOR ON HISPANIC AMERICA**³ Margaret Ann Onstead**SLAVIC LANGUAGES***Highest Honors*³ Donald Galfond**ZOOLOGY**³ Milton M Howell³ Fred Malcom Myers**HONORS IN NAVAL SCIENCE**³ Walter David Goldsmith³ Robert Price Wanger³ Robert Murray Wilson

UNIVERSITY OF CALIFORNIA



CERTIFICATES, DEGREES, AND HONORS

JUNE, 1948

CERTIFICATES AWARDED

COLLEGE OF DENTISTRY

POSTGRADUATE CURRICULUM IN ORTHODONTICS

Certificate of Completion to

Warren Gayne Brown (D.D.S., B.S. University of Southern California 1945) Santa Paula
Alan Richard Cass (D.D.S. Loyola University 1943) San Francisco
John Emery Dumon (D.D.S. University of Michigan 1943) Big Rapids, Michigan
Joel N Gillespie (D.D.S., B.S. Western Reserve University 1947) Tooele, Utah
John Baptiste Halet (D.D.S. Texas Dental College 1939) Houston, Texas
John Howard Sibley (D.D.S. College of Physicians and Surgeons 1941) Piedmont
Eugene Edward West (D.D.S. College of Physicians and Surgeons 1944) San Francisco

SCHOOL OF NURSING

CURRICULUM IN PUBLIC HEALTH NURSING

Certificate of Completion to

Class A

Laura Elizabeth Burnett (B.S. 1946) Escalon
Ruth Alicia Citron (B.S. 1946) Oakland
Barbara Mary Gibb (B.S. 1947) Napa
Jean Marian Mallory (B.S. 1945) Berkeley
Louise Agnes Simpson (B.S. 1944) Long Beach

Class B

ClaraBelle Ahee (B.S. 1944) Twain Harte
DeMaris Sohner Howard (A.B. Iowa State Teachers College 1934) Oakland
Mabel Lillian Murfee (B.S. 1948) Pasadena
Clara Ruelas Pease (B.S. 1948) Big Bear City
Margaret Chandler Stenger (A.B. Oberlin College 1929) San Anselmo

CURRICULUM IN NURSING EDUCATION

Certificate of Completion to

Elizabeth Romo Dietsen (B.S. 1948) San Bernardino

CURRICULUM IN NURSING

Certificate of Completion to

Elizabeth Ann Ball.....	Oakland
Phyllis Jean Buchan.....	Sierra Madre
Norma Barbara Crestetto.....	Oakland
Ellen Esther Doble.....	Hawthorne
Patricia Ann Griffin.....	Albuquerque, New Mexico
Marian Kim.....	Los Angeles
Helen Ernestine Koons.....	Gilroy
Jo Alice Ada Kuist.....	Los Angeles
Florence Libby Lukens.....	Bakersfield
Gerre Mae Lundy.....	Los Angeles
Betty Kline McInnes.....	Pasadena
Patricia Coplin McNeill.....	Albany
Irene Catherine Nova.....	Turlock
Mary Elizabeth Shaw.....	San Francisco
Meredith Ann Shields.....	Grass Valley
Josephine Joy Smith.....	El Monte
Mildred Berniece Stickler.....	Oakland
Louanna Thale.....	Sacramento
Alice Partridge Van Housen (B.S. 1948).....	Tarzana
Dorothy Josephine Wallace.....	Modesto
Elinor Rose Witz.....	Alhambra

SCHOOL OF OPTOMETRY

Certificate of Completion to

Richard Allen Allphin.....	Oakland
Harvey Arnold (A.B. 1946).....	Oakland
George Bradley Barnes.....	Arcata
Herman Clay Bolinger.....	Clayton, New Mexico
Edwin Henry Bradley.....	Napa
Thayer William Cline, Jr.....	San Bernardino
Allan Benard Colt.....	Sacramento
Edith Lyon Connolly.....	San Diego
William Nathan Deuberry (B.S. Middle Tennessee State College 1940).....	Greenfield, Tennessee
Gordon West Duffy (A.B. 1944).....	Hanford
Harold Hubert Fitting (A.B. Stanford University 1935).....	Alameda
Ted Reginald Foster.....	Santa Cruz
Albert Leroy Frank (B.S. Walla Walla College 1940).....	Seattle, Washington
Richard Wayne Gilman.....	Sacramento
Harold Curtis Glover (B.S. Otterbein College 1934).....	Westerville, Ohio
Jerome Gross.....	Brooklyn, New York
Raymond Harbinson.....	Sacramento
Bert Henry Hartzell (A.B. University of Nebraska 1939).....	National City
Wilfred Takeshi Hiura.....	San Francisco
Midori Inouye.....	Oakland
Allen Orlando Jaeger.....	San Francisco
Dewey Jan.....	Oakland
Jerome Burke Kavanaugh, Jr.....	San Bernardino
David Meyer Leibel (B.S. 1941).....	San Francisco
Leonard Leibowitz (A.B. 1946).....	San Francisco
Mitchell Cadman Lewis.....	Lathrop
Edward Ralph Ligon (B. Ed. Southern Illinois State Normal University 1943).....	Zeigler, Illinois
Henry Linker.....	Pittsburgh, Pennsylvania
Wilbur Winfield Linville (B.S. McPherson College 1944).....	Wiley, Colorado
Donald McDonald.....	Avenal

William Madsen	Eureka
Irving Arthur Marder	San Francisco
Joel Phillip Martin	Boise, Idaho
James Edgerly Miller, Jr.	Coronado
Jere Marshall Musser	Los Angeles
Leonard Osias	Bakersfield
Raymond Marcelo Paz	Las Cruces, New Mexico
William Frederick Reed (A.B. Grinnell College 1939)	Evanston, Illinois
Samuel Gershon Rosenthal	San Diego
Ralph Louis Rovner	Burbank
Charles Edgar Seger (A.B. Minot State Teachers College 1941)	Sherwood, North Dakota
Clayton Glenn Soohoo	Oakland
Seymour Samuel Sweet	Stockton
Bernhardt Newman Thal (B.S. Colorado State College of Agriculture and Mechanical Arts 1939)	Stockton
August Edwin Ueberrhein	St. Joseph, Missouri
Jack Vogel	Poughkeepsie, New York
Gayford Finley Wilson (B.S. Oregon State College 1931)	Burbank

DEGREES CONFERRED

MEDICAL SCHOOL

The Degree of Bachelor of Science in Physical Therapy upon

Mary Jean Blair.....	San Francisco
James Freed Carroll.....	Berkeley
*Barbara Jean Johnson.....	Concord
Nancy Latham.....	San Francisco
*Norma Aileen Meyer.....	Sebastopol
Mary Margaret Peterson.....	Fontana
Jean Ann Starbuck.....	Fullerton

COLLEGE OF PHARMACY

The Degree of Bachelor of Science in Pharmacy upon

Charles Robert Chase.....	Stockton
Doon Poon Chin.....	San Francisco
Ethel Hannora Church.....	Eureka
Helen Constance Coutsouris.....	San Francisco
Burton Vincent Doyle (A.B. 1938).....	Alameda
Francis Kenneth Edminster.....	San Francisco
Henry Earl Eggett.....	Oakland
Ralph Vernon Elwin.....	San Francisco
Otho Grant George.....	Bakersfield
Yin Mina Gong.....	Stockton
Yut Mon Gong (A.B. 1943).....	Stockton
Kenneth G Gonsalves.....	Petaluma
Virginia Sparrowe Hale.....	Berkeley
Alfred Charles Hexter.....	Portland, Oregon
Michiko Hirasaki.....	Gilroy
Wilbur Bennett Holden.....	San Francisco
Robert James Lidell.....	Tulelake
Carl Herman Miller.....	San Francisco
Bruno Christopher Poloni.....	San Francisco
Doris Alma Rule.....	Vallejo
Arthur Paul Starke (A.B. 1945).....	Berkeley
Roy Elwin Thompson.....	Napa
Laurence George Thurman, Jr.....	Palo Alto
Theodore Joseph Trichilo.....	Oakland
Lester Scott Whitaker.....	Centerville
Calvin Hiroshi Yamada.....	Walnut Grove

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

Charles Edwin Coupe (B.S. 1945).....	Challenge
Paul August Folquet.....	Oakland
John Francis Meklas (B.S. New Mexico State College 1942).....	San Francisco
Oliver Scow, Jr.....	Avenal
John Walter Ziegler.....	Stockton

The Degree of Bachelor of Science upon

Jeanne Nabors Fairweather.....	Los Angeles
Jean Adair Fisk.....	San Francisco
Lois Florence Harris.....	Vallejo
Meredith Ann McCord.....	Berkeley

* As of February 5, 1948.

Shirley Boock Mayer	San Jose
Virginia May Myer	Norwalk
Gwendolyn Lee Slovenko	Chicago, Illinois
Marcelene Stockholm	Fresno
Mildred L Sturdy	Concord
Naomi Grace Taunt	Denver, Colorado
Evelyn Ericson Uhe	Riverside
Dorothy Elinor Wood	Oakland

HASTINGS COLLEGE OF THE LAW

The Degree of Bachelor of Laws upon

Stanley Arnold	Susanville
Robert Kyle Barber (A.B. 1943)	Berkeley
Nat Brown, Jr. (A.B. Stanford University 1940)	Stockton
Leonard Patrick Burke	Sacramento
George Lyell Cadwalader (A.B. Stanford University 1939)	San Francisco
Claude Harvey Caldwell (B.S. University of California at Los Angeles 1942)	Mt. Shasta
Guy Berry Catterton	Oakland
Lawrence Walter Clawson (A.B. Fresno State College 1940)	Lemoore
George Roger Coan (A.B. Pomona College 1940)	Beverly Hills
Donald Ben Constine	San Francisco
Thomas Arthur Cooke (A.B. University of Nevada 1942)	Reno, Nevada
Benjamin Mitchell Davis	Sacramento
Amos Willard Dickey	Reno, Nevada
William Erle Dopkina, Jr. (A.B. 1937)	Berkeley
Herbert Earl Dudley (B.S. 1941)	San Bruno
William Phillips Dunn	Imperial
Robert Raymond Elledge (A.B. 1941)	Porterville
Harry Jackson Englebright (A.B. 1942)	Sacramento
Philip Lynden Evans (A.B. 1941)	San Francisco
Donald James Falk	Eureka
Stanley Mark Fernwood	Oakland
Matthew Mayer Fishgold (A.B. 1942)	San Francisco
Emmett James Foley, Jr. (B.S. 1938)	San Francisco
Christopher Bernard Fox, Jr.	Oakland
Dan Loy Garrett, Jr.	Berkeley
Emile Justin Gezellin (A.B. 1937 and M.A. 1945 University of Nevada)	Reno, Nevada
Stanton William Gill (A.B. 1941)	San Francisco
Fred William Gordon (A.B. University of Southern California 1936)	San Francisco
Reynold James Gualco (A.B. University of Idaho 1944)	Sacramento
Kamini Kant Gupta (A.B. 1937)	San Francisco
Ruth Church Gupta (A.B. Mills College 1938)	San Francisco
Artemus Wineman Ham, Jr. (A.B. University of Nevada 1940)	Las Vegas, Nevada
George Emerson Hammer	Sedro-Wooley, Washington
Francis Cecil Gore Hancock	Bakersfield
Jane Hardie (B.S. University of Colorado 1943)	San Francisco
Edsel Wayne Haws	Westwood
Harold Robert Hayes (A.B. 1942)	Berkeley
Max Eugene Henry (A.B. 1940)	Rialto
Albert Dabney Hogan (A.B. 1941)	Piedmont
Robert August Kaiser	Oakland
Robert Boyne Kutz	Chico
Monroe Nicholas Langdon	Stockton
David Hart Laughlin (A.B. 1941)	El Cerrito
Raymond Carl Leonhaeuser	San Francisco
Jerome Robert Lewis	Sacramento
George Norton Lohneis	San Francisco
Elmer James McGuire, Jr. (A.B. 1936)	Oakland
Simon Marootian	Fresno

Myron Anthony Martin (A.B. 1941)	Oakland
Rudolf Hans Michaels	San Francisco
Robert Russell Millsap (A.B. 1940)	Sacramento
Thomas Milton Montgomery, Jr. (A.B. Stanford University 1939)	Niland
Robert E Nisbet	Berkeley
Willis Sherwood Norton (A.B. College of the Pacific 1941)	Stockton
Thomas Warren Olson	Sacramento
Victor Orsi (B.S. 1940)	Roseville
Wesley Ellsworth Overson (A.B. Arizona State Teachers College 1934)	San Francisco
James Edwin Pardee	Susanville
Richard Evans Patton	Arbuckle
Eugene Charles Payne, Jr.	Berkeley
Clarence Harris Pease	San Francisco
John Alroy Pettis, Jr. (A.B. 1937)	San Carlos
Albert Joseph Popelka (A.B. College of St. Thomas 1940)	San Mateo
George Shipley Prugh, Jr. (A.B. 1941)	Piedmont
Richard Austen Raftery (A.B. 1942)	Oakland
Franklin Henry Roberts, Jr. (A.B. Stanford University 1941)	Sonora
Jerome Sack	Berkeley
Robert Joseph Schum	Jasper, Indiana
Norman Waite Shaw, Jr. (A.B. 1935)	Berkeley
John Elmer Shepard	Selma
Alan Blackall Short	Stockton
Richard Collins Shortall (A.B. Stanford University 1940)	San Francisco
Joseph Andrew Stave	Berkeley
Garfield Walton Steward (B.S. Cheney State Teachers College 1938)	Bridgeton, New Jersey
Jack Benjamin Streeter (A.B. University of Nevada 1943)	Sparks, Nevada
Jack W Stricker (A.B. 1941)	Oakland
Clarence Adolph Stromsness (A.B. State College of Washington 1940)	Renton, Washington
Thomas Waggoner Thurman (B.S. University of Kansas 1938)	San Francisco
Charles Edward Townsend, Jr. (A.B. 1942)	Piedmont
Patricia Butler Trapp	San Francisco
John Everett Troxel	San Francisco
Paul Robert Tubman	Pasadena
James Claude VanDyke (A.B. 1942)	Alameda
Joseph Francis Vokoun, Jr. (A.B. 1940)	Piedmont
Steven Henry Welch, Jr. (A.B. 1943)	Berkeley
Bruce Atherton Werlhof	Red Bluff
Richard Shannon Wilkins (A.B. Fresno State College 1940)	Fresno
Douglas Edwin Wilson (A.B. College of Pacific 1940)	Stockton
Charles Foo Wong, Jr.	Marysville
Herbert Charles Woodruff	Merced
Jean Woodward (B.B.A. University of Washington 1932)	Oakland
Peter B Zavlaris (A.B. Duke University 1940)	San Francisco

SCHOOL OF ARCHITECTURE

The Degree of Bachelor of Arts upon

Kathleen Elizabeth Ayers	Oakland
Eugene West Bayol, Jr.	San Francisco
John Walter Becker	Richmond
Joseph Wayne Chan	Sacramento
Walter Henry Costa	Berkeley
George Benjamin Domaz	Eureka
Daniel Driver	San Jose
Henry DuPertuis, Jr.	Ft. Collins, Colorado
Marjorie Lange Hendrickson	Berkeley
James Coughlan Hirst (A.B. Stanford University 1943)	Berkeley
Barbara Grant Kolbeck	Berkeley

Young Gok Lee	San Francisco
Isabel Richardson Lucas	Salt Lake City, Utah
Walter David Lucas	Berkeley
Henry Ernest Martens	Menlo Park
Lorraine Wiese Osmundson (B.S. Iowa State College 1943)	Oakland
Robert Theodore Ruano	Oakland
Donald Manning Shaw	Berkeley
George Johannes Steuer	San Francisco
Harold LeRoy Thiederman	Boise, Idaho
Ward Beaumont Whitwam	Watertown, South Dakota
John Wong	Oakland

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

Ernest William Abbes	San Francisco
Harold Don Ackerman	Springfield, Illinois
John Vernon Aldridge	San Francisco
Fred Lloyd Allen	Galveston, Texas
James Brent Allen	Ogden, Utah
Sherman Lawrence Andelson	Los Angeles
Elmer Shafer Anderson, Jr. (A.B. San Jose State College 1946)	San Jose
Fred Robert Anderson	Oakland
Rex Augustus Anderson	Berkeley
Robert Lindley Andrews	Newport Beach
Robert Raymond Angwin	Piedmont
David Stretten Armstrong	Berkeley*
Robert Martin Arnold	San Rafael
Leland Clarence Arth	Redlands
Kenneth James Ashcraft	Burley, Idaho
Donald Kenneth Atwater	Burlingame
Melvin Lewis Bacharach	Berkeley
William Ormand Baird	Oakland
Grant McNeill Bakewell	San Francisco
Robert Stanley Balian	Oakland
Robert William Barclay	San Bruno
George Frederick Barker	Sacramento
Lyle Kurtz Barnes	Berkeley
Dorothea Elizabeth Bartlett	Berkeley
Robert Earl Bauck	Sacramento
Robert Stanley Bebb	Belmont
Richard Laurence Benton	Jal, New Mexico
Nelda Bernice Bernhard	San Francisco
Alan Luzerne Bingham	Santa Rosa
Richard Carl Bjork	Larkspur
Sheldon Howard Blickman	San Francisco
Emo Clarence Boerman	Alameda
Philip George Boomer	Oakland
John Norman Borini (A.B. 1942)	Santa Rosa
Nathan Evan Bower	Omro, Wisconsin
John Joseph Boyle	Atlanta, Georgia
Henry Torrance Bramwell	Napa
Michael Joseph Brennan	San Francisco
Robert Knag Brorsen	Oakland
Howard Thomas Bryant, Jr.	Berkeley
Walter Hubert Burke	Stockton
Donald Colwell Burton	Salem, Oregon
Lydus Henry Buss	San Francisco
George Lannon Butler	Los Angeles
Harvey Louis Caldwell	Oakland
Clayton Dagget Calender	San Francisco

Thomas Eugene Callant.....	Richmond
William Reed Campbell.....	Fresno
Kenton Leith Capen.....	San Leandro
Robert Samuel Capps.....	Daly City
Esmond Sterling Carey.....	Baker, Montana
Maurice Dare Castle, Jr.....	Berkeley
Wallace Joseph Cavanaugh.....	Los Angeles
Edgar Hamilton Chappell.....	Berkeley
Laddie Chinn.....	Bakersfield
William Evan Chipman.....	Easton, Pennsylvania
Thomas Howard Clarke, Jr.....	Redwood City
Jean Cline.....	Los Alamos, New Mexico
Evelyn Ralston Cohen.....	Antioch
Marjorie Lois Coles.....	Berkeley
Stamatina Peter Colichidas.....	San Francisco
William Jackson Collier.....	Sacramento
Harry Rex Collins, Jr.....	Taft
Robert Floyd Cooper.....	San Luis Obispo
Beverley Hope Craven.....	Richmond
Robert Salisbury Critchley, Jr.....	Oakland
Helen Mary Croudace.....	San Francisco
Norman Frank Crowell.....	San Jose
Bruce Hamilton Cumming.....	Oakland
Gordon Cyrus Cuneo.....	San Francisco
Eugene Francis Daggett, Jr.....	Alameda
John Daniels.....	Dixon
John Leslie Danner, Jr.....	San Francisco
James Fleming Davidson, Jr.....	Riverside
Donald McLain Day.....	Piedmont
Mary Ellen Dee.....	Sacramento
Byron Fiske Deming.....	West Los Angeles
Frank Willis Dettmer.....	Huntington Park
George Walter Detweiler.....	Santa Ana
James Mercereau Dickinson.....	Santa Rosa
William Clyde Diffenbaugh.....	San Jose
Marilyn Jean Dodson.....	San Jose
Charles Edmund Dole, Jr.....	Berkeley
William Kit Donnell.....	San Francisco
Jack Jay Dreiman.....	Santa Cruz
Richard Stephen Duane.....	Minneapolis, Minnesota
William Frank Dunn.....	San Francisco
Harlan Claire Dupuis.....	Richmond
John Eugene Dustin (B.S. University of Chicago 1941).....	Chicago, Illinois
Carl William Dysinger, Jr.....	Menlo Park
Warren Eijima.....	Berkeley
Frank Nathaniel Eklund, Jr.....	Napa
John Froom Emery.....	San Diego
George Louis Stephen Emmons.....	Brooklyn, New York
Elena Endersby.....	Lafayette
Deena Estrin.....	San Francisco
Ellis Stephen Evart.....	Berkeley
Marvyn James Fauria.....	San Leandro
Marilyn Ruth Ferreira.....	Oakland
Carl Bernthal Fickenschner.....	Sacramento
Shirley Tritle Field.....	Lodi
Wayne Larkin Field.....	Lodi
Hugh Maitland Figgatt, Jr.....	Wilmington, Delaware
Theodore Wallace Finkbohner.....	Albany
Richard Kevin Finn.....	Calexico
William Crosby FitzMaurice.....	Berkeley
Harry Louis Fledderman.....	Oakland

Howard French Fletcher, Jr.	Berkeley
Edwin Ashton Flinn, Jr.	San Francisco
Mitchell Lewis Flint	Oakland
Ford Barney Ford	Bristol, Virginia
William Howard Fowler	San Francisco
Edward Dale Fredrickson, Jr.	Oakland
Francis Michael Friedenbach	Fortuna
A Sherman Frinak	Oakland
Fred Yukio Fujii	Sacramento
Manford Funsten	San Mateo
Albert A Gabie	Kansas City, Missouri
David Maurice Gaisford	Berkeley
Lee Mosier Galloway	Oakland
George Constantine Ganiats, Jr.	Sonoma
Roy Edward Garratt	Taft
Charles Warner Gates	Pasadena
Thomas Fischer Gates	Los Gatos
Paul Gee	San Antonio, Texas
Sigmund Geisendorfer	Marysville
Richard Vincent Gerdau	San Francisco
Betty Anabel Good	San Marino
Robert Thornton Gordon	Richmond
Vernon Howard Gould	Pullman, Washington
Theodore John Grady	San Francisco
Eugene Franklin Graff	Daly City
John Ewbank Graves	Napa
James L Gray	Glendale
William Gross Gray	Santa Rosa
Josef Stanley Grayson	Alameda
Robert Raymond Griswold, Jr.	Berkeley
Ancil B Gunter	Jacksonville, Oregon
Walter Parry Guy	Los Angeles
LeRoy Hadley	Los Angeles
Fern Lucile Halstead	Springfield, Massachusetts
Ernest Richard Ham, Jr.	San Francisco
Dewey Julian Hansen	Billings, Montana
Glen Louis Hansen	Sturgis, South Dakota
Peter Warren Harker	San Jose
Constance Hartung	San Francisco
Samuel Montgomerie Haslett III	Piedmont
Robert Owen Hawes	Walnut Creek
Horace Melvin Hawkins	Sacramento
James Weldon Heassler	Puyallup, Washington
Eleanor Louise Heidig	Oakland
Walter Reed Herbst	Los Angeles
Warren Kenneth Hermann	San Francisco
June Gwendolyn Herrod	Oakland
John Guthrie Heywood, Jr.	San Francisco
Hartzell Dean Hickman	Peoria, Illinois
Richard Hirschfeld	San Francisco
Ralph Joseph Hoefflich	San Francisco
Irma Alice Hollins	Fresno
William Gerard Homrig	Richmond
John Gregory Hopkins	San Francisco
Rodger Lee Howard	Fresno
Barbara Jean Hubbard	Long Beach
Robert Irving Huntington	Oakland
George Shigeo Ishida	San Francisco
John Stanton Jacoby	Oakland
Robert Clawson James	San Diego
James Andrew Jarvis	Berkeley
James Kerr Jee	Berkeley

Edson Johnson, Jr.	Vancouver, Washington
Herman Dowell Johnson	Oakland
Lawrence Whiting Jordan, Jr.	San Francisco
Howard Warner Joyce	Altadena
Jack Kallish	Los Angeles
Meyer Victor Kaplan	San Francisco
Joseph John Kerrigan	Davenport, Iowa
Noshir Jehangir Khergamvala	Berkeley
William Kinsella	Los Angeles
Tamio Kitano	San Francisco
Morris Korot	Los Angeles
Yasuyuki Kuwamoto (B.S. University of Missouri 1946)	Fresno
Israel Henry Laevsky	Shanghai, China
Donna Drew Lambert	Oakland
James Claude Lane	Oakland
Jack Aaron Langer (B.S. 1947)	Oakland
Ludy Eugene Langer	Los Angeles
Harry Granville Lauritzen	Rio Vista
Robert Porter Lawson	Portland, Oregon
Peggy Sim Lee	San Francisco
Jerry Wing Quon Lee	San Francisco
Warren Gregory Leov	San Francisco
Letitia Jane Lesser	San Francisco
Wallace Wayne Lew	Watsonville
Bernard Arthur Litchfield	South Gate
Marilyn Kennedy Lloyd	San Francisco
Janet Vidal Loomis	Long Beach
Stanley Kong Louie	San Francisco
John Leo McCann	Red Bluff
Patricia Joan McClatchey	Stockton
James Frederick MacDonald	Montebello
John Henry McDonall, Jr.	Albany
Walter Bernard McEnerney	Sacramento
Cecil Junior McFadden	Stockton
Robert Arthur Macfie	Alhambra
Ralph Walton McIntire	Berkeley
Helen Clara MacKenzie	Alameda
Leonard Milton McLean	Oakland
Marshall Marion McMillin	Berkeley
Joseph Warren McMullen	Berkeley
Samuel Clinton McMullen	Elko, Nevada
Donald LeRoy Madsen	Oakland
Doris Gray Mainwaring	Berkeley
William Amos Majors	San Francisco
Charles Henry Manning, Jr.	San Francisco
Dorothy Elaine Marder	San Francisco
Garth Marston	Berkeley
Eugene Gilbert Matheys	Grosse Pointe Park, Michigan
Woodrow Travis Mayfield	Los Angeles
John Read Maynard	Oakland
Donald Colver Mehaffey	Antioch
Frank William Mehrten, Jr.	Dallas, Texas
Felix Charles Merlone	Oakland
George Edward Meyers	Hayward
Arthur Moen	Oakland
Hubert John Moffatt, Jr.	Oakland
Eugene Wilber Monroe	Berkeley
Howard Earl Moon	Bartlesville, Oklahoma
James William Moore	Lompoc
James Miles Moose, Jr.	El Centro
James Yoshito Morimoto	Cressey
Francis Louis Morris	Vallejo

Louis Bertram Muhly	Baltimore, Maryland
Tom Muraki	Sacramento
Sadao Stephen Nakashima	Reedley
Jean Nalbandian	Fresno
Vernon Leslie Nash, Jr.	Santa Rosa
Richard Cooper Newick	Grants Pass, Oregon
Daniel Nickel	Visalia
Juanita Catherine Nies	Berkeley
Carter Norris, Jr.	Berkeley
Alfred Harold Nysten, Jr.	Piedmont
Peter Andrew Olson	Berkeley
Donel Patrick O'Malley	San Francisco
Lawrence Gilbert Parker, Jr.	Washington, District of Columbia
Ross Lindsay Parmer	Alameda
Thomas Cearley Parrish	Berkeley
Arleen M Pate	Ventura
Willard Edwin Patton	Paradise
Robert Peck (A.B. University of New Hampshire 1947)	Englewood, New Jersey
Richard Trich Pettijohn	Pittsburg
Lloyd Ellis Pfeifer, Jr.	Piedmont
Jack Evan Phillips	Santa Ana
Thomas Ingram Pickford	Cedar Rapids, Iowa
William Merrill Pillsbury	Oakland
Frank Edward Podesta, Jr.	San Francisco
Robert William Pohl	Oakland
Robert John Porter	Santa Barbara
John Lee Prichard	Strathmore
Ernest Connie Psarras	Salt Lake City, Utah
Sarah Margaret Quick	Long Beach
John James Quigley	Napa
Tamara Estelle Rackson	Santa Barbara
Robert Elliott Randolph	Los Angeles
Herman Rauh	Sacramento
Edward Pete Regalia	San Anselmo
Robert Herman Remensperger	San Francisco
Earl Lee Reno	Sonoma
Robert George Riss	Streator, Illinois
James Lyman Robertson	Burlingame
James Robert Robison	McRae, Arkansas
Prudence A Rogers	Berkeley
Herbert Mark Rome	Fitchburg, Massachusetts
Robert Harrison Ross	San Francisco
Elizabeth Virginia Rossback	Altadena
William Paul Rus, Jr.	San Anselmo
Floyd St. Clair, Jr.	Snohomish, Washington
Jay Franklin Salaman (B.S. Northwestern University 1945)	San Francisco
Robert Francis Sanford	Salinas
Warren Gimbal Sanford	Oakland
Joseph Paul Sangenitto	Oakland
William Edward Scarlett	Woodland
Grace Wilhelmine Schaufelberger	Whittier
Waldemar Frank Schroeter	Bakersfield
Gladys Leone Schwatka	Orinda
Charles Eugene Sells	Fresno
John Jared Serr	Davis
Charles Philip Seymour	Sacramento
Robert Jackson Seymour	Ross
Merton Harper Shaffer	Oakland
Robert Harry Shaw	Berkeley
William Francis Shaw, Jr.	San Francisco
Yacco Jack Sias	Brooklyn, New York

Warren Herbert Sichel	San Francisco
Kenneth Alan Silver	La Jolla
Edward Bennett Skeels, Jr.	Auburn
Martin Vernon Skewes-Cox	San Francisco
Charles Claybourne Smith	San Leandro
Conway Smith, Jr.	Oakland
Frank Blair Smith	McCammon, Idaho
Howard Matsen Smith	South San Francisco
Joseph Benjamin Smith, Jr.	Berkeley
Reed Lloyd Smith	Oakland
Robert Lohrke Smith	Philadelphia, Pennsylvania
Robert Warren Smith	Oakland
Francis Hans Snyder	Oakland
Lawrence Hutchinson Somers	Berkeley
Henry Halvor Sorensen	Burlingame
Russell Harry Spatz	Marysville
Allen Parker Steck	Oakland
John Chandler Steger	Danville
Eric Steiner	San Francisco
Dale Jess Stephens	Pasadena
Democratias Aristahos Sterios	Fresno
Robert Mitchell Stern	Brookline, Massachusetts
Claire Marie Stewart	San Francisco
Robert Rogers Stewart	Orinda
George Stimmel, Jr.	San Francisco
Helen Elaine Story	Antioch
Marjorie Elizabeth Street	Berkeley
Charles Melvin Strobe	Santa Cruz
Arthur Thomas Sturgess	Sacramento
Horace Sturiale	San Francisco
James Albert Sullivan	Alameda
Vern Sutliff, Jr.	Alhambra
Sonoko Suzuki	San Francisco
Eugene Chappell Taylor	Oakland
Robert Ernest Thomas	Bakersfield
Robert Long Thomas	Oakland
Derrell Peris Thompson	Exeter
Robert Louis Timmins	La Jolla
Edward Jay Trempy	Oakland
Paul C Tuft	Oakland
Thomas Tully	San Francisco
Richard Warren Turrell	Piedmont
Roy Edward Tuttle	Santa Rosa
David Alexander Valentine	Oakland
Joanne Selma Vater	San Francisco
Burt William Viesselman	Berkeley
Marie Sylvia Vlahos	Tracy
William Roy Vogel	Oakland
Harold Lee Wagner	Canton, Missouri
Edgar Charles Wall	Perry, Oklahoma
Howard Washburn	Altadena
Tommy Everett Washington	Sacramento
Robert Snyder Watson	Oakland
Ronald Klindt Watson	Arcadia
Benjamin Grant Weir, Jr.	Goldsboro, Maine
John Eastwood Welch	Oakland
William Brown Wharton	Berkeley
Edward Samuel Wilbur, Jr.	San Francisco
Walter George Wilcoxson II	San Francisco
Leland Woodrow Wilkinson	Eagle, Colorado
Frank Marion Williams	Oakland

Alice Dixon Wilson	Hayward
Woodrow Howard Wilson	San Francisco
Everette Bryant Windom	East St. Louis, Illinois
Bertram High Witham	Woodland
Paul Benjamin Witmer, Jr.	Santa Ana
Melvin Sylvan Witt	Stockton
Jack Gordon Wogoman	Oakland
James Raymond Workman	Alameda
Kenneth King Wright, Jr.	South Pasadena
Robert Eugene Wright	San Diego
Henry Stephen Yee	Berkeley
Wilbert Louis Yopp	Marion, South Dakota
Ruby Joe Young	Berkeley
Wallace William Zamore (B.S. 1944)	San Francisco

SCHOOL OF FORESTRY

The Degree of Bachelor of Science upon

Ralph Clarence Andree	San Francisco
Bruce Warren Black	Big Creek
Roy Irving Bradshaw	Oakland
Lloyd Rutledge Britton	San Jose
James Clifton Denny	Los Altos
Ralph Lewis Fenner	Los Angeles
Donald Keith Gordon	Berkeley
William John Haussler	Oakland
Peter Josias Joos	San Anselmo
Myron Boyd McFarland, Jr.	McFarland
Stanley Graham McPherson	Oakland
Lawrence Campbell Merriam, Jr.	Omaha, Nebraska
Foster Eugene Murphy	Long Beach
Paul Bernard Neese	San Anselmo
Jesse Atwood Palm	San Mateo
Stanley Sigman Petersen	San Mateo
Dale Clarke Prentice	Oakland
Alfred Ernest Rueger	Windsor
David Wallace Sabiston	Berkeley
William Monroe St. John, Jr.	Pasadena
Robert James Smith	El Segundo
George William Snyder	Vallejo
Carl Henry Stoltenberg	Paso Robles
Theodore George Storey	Redwood City
Harvey Alfred Striplin, Jr.	Pasadena
Frank Arnold Timmers	Albany
Harold Richard Walt	Berkeley
Glenn Vernon Walters	Compton
Paul Wesley Ward	Morgan Hill
Bryce D Webster	San Anselmo
Edward Stanley Weeden	Los Gatos

SCHOOL OF NURSING

The Degree of Bachelor of Science upon

Alison Lee Baker	Oakland
Elizabeth Ann Ball	Oakland
Laura Banarer	Redlands
Elizabeth May Bates	Pasadena
Velena Boyd	Ladogo, Indiana
Mary Dean Brubaker	Colorado Springs, Colorado
Phyllis Jean Buchan	Sierra Madre
Kathleen Margaret Cirese	Berkeley

Norma Barbara Crestetto	Oakland
Ellen Esther Doble	Hawthorne
Caroline Lucinda Duncan	Redwood City
Marjorie Ann Frolund	Waukisha, Wisconsin
Glendora Gay Goodhue	San Mateo
Patricia Ann Griffin	Albuquerque, New Mexico
Bernice Hayes Hunn	Berkeley
Anne J Jensen	Alameda
Juliana Johnson	Glendale, Arizona
Ruth Elizabeth Johnson	Oakland
Marian Kim	Los Angeles
Helen Ernestine Koons	Gilroy
Jo Alice Ada Kuist	Los Angeles
Sophie Lucille Kurowski	Chicago, Illinois
Adlie Maria Linder	Oakdale
Florence Libby Lukens	Bakersfield
Gerre Mae Lundy	Los Angeles
Betty Kline McInnes	Pasadena
Patricia Coplin McNeill	Albany
Lucy Petite Martyn	Columbus, Nebraska
Alice Mori	San Francisco
Irene Catherine Nova	Turlock
Mary Adolphine Ordway	Holtville
Evelyn Lucile Otto	San Bernardino
Ethel Trewen Pfaum	Piedmont
Emily Plimpton	Walpole, Massachusetts
Mary Elizabeth Shaw	San Francisco
Meredith Ann Shields	Grass Valley
Josephine Joy Smith	El Monte
Mildred Berniece Stickler	Oakland
Eva Babette Straus	Berkeley
Louanna Thale	Sacramento
Alice Catherine Tweedy	Mino Junction, Ohio
Dorothy Josephine Wallace	Modesto
Neva Patricia Warren	Fort Worth, Texas
Elinor Rose Witz	Alhambra

SCHOOL OF OPTOMETRY

The Degree of Bachelor of Science upon

Richard Allen Allphin	Oakland
Harvey Arnold (A.B. 1946)	Oakland
George Bradley Barnes	Arcata
Herman Clay Bolinger	Clayton, New Mexico
Edwin Henry Bradley	Napa
Thayer William Cline, Jr.	San Bernardino
Allan Benard Colt	Sacramento
Edith Lyon Connolly	San Diego
William Nathan Deuberry	Greenfield, Tennessee
Gordon West Duffy (A.B. 1944)	Hanford
Harold Hubert Fitting (A.B. Stanford University 1935)	Alameda
William Edward Fleischman	Long Beach
Ted Reginald Foster	Santa Cruz
Richard Wayne Gilman	Sacramento
Harold Curtis Glover (B.S. Otterbein College 1934)	Westerville, Ohio
Jerome Gross	Brooklyn, New York
Raymond Harbinson	Sacramento
Bert Henry Hartzell (A.B. University of Nebraska 1939)	Oakland
Wilfred Takeshi Hiura	San Francisco
Midori Inouye	Oakland
Allen Orlando Jaeger	San Francisco

Dewey Jan	Oakland
Jerome Burke Kavanaugh, Jr.	San Bernardino
David Meyer Leibel	San Francisco
Leonard Leibowitz (A.B. 1946)	San Francisco
Mitchell Cadman Lewis	Lathrop
Edward Ralph Ligon	Zeigler, Illinois
Henry Linker	Pittsburgh, Pennsylvania
Donald McDonald	Bakersfield
William Madsen	Eureka
Irving Arthur Marder	San Francisco
Joel Phillip Martin	Berkeley
James Edgerly Miller, Jr.	Coronado
Jere Marshall Musser	Los Angeles
Leonard Osias	Bakersfield
Raymond Marcelo Paz	Las Cruces, New Mexico
William Frederick Reed (A.B. Grinnell College 1939)	Evanston, Illinois
Samuel Gershon Rosenthal	San Diego
Ralph Louis Rovner	Los Angeles
Charles Edgar Seger (A.B. Minot State Teacher's College 1941)	Richmond
Clayton Glenn Soohoo	Oakland
Seymour Samuel Sweet	Stockton
Bernhardt Newman Thal	Stockton
August Edwin Ueberrhein	St. Joseph, Missouri
Jack Vogel	Poughkeepsie, New York
Gaylord Finley Wilson (B.S. Oregon State College 1931)	Burbank

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

Seiko Akahoshi	Topaz, Utah
Edward Emmett Anderson	Spokane, Washington
Susan Joy Anderson	San Francisco
Harriet Marie Coe	San Francisco
Mary Katherine Deffenbaugh	Santa Rosa
Frances Jane Erickson	Napa
Margaret Anne Garland	Redlands
Toshie Hamasaki	San Mateo
Mendel Herzberg	San Francisco
Marguerite Meta Jackson	San Francisco
Joan Rae James	South Gate
Eva Lorraine Leong	San Francisco
Jean Oriana Longley	Larkspur
Mary Sue Louie	Novato
Mary Joaquina Martins	Westley
Normadene Norcutt	Red Bluff
Marian Trevor Polhemus	Danville
Eugene Arron Port	Los Angeles
Doris Ruth Rissinger	Vallejo
Lois Ann Schulman	Sacramento
Howard Jules Toussaint	Berkeley
Beatrice Faye Whitby	Ross
Barbara May Woods	Riverside

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Grant Hume Alexander	Portland, Oregon
Alice Nevada Anderson	Berkeley
Mildred Lois Antunez	Taft
Aubrey Eric Armstrong	Glendale
Peter John Artero	Walnut Creek

Gertrude Dofsen Bardarson	Carmel
Cecilia Ann Becker	Sacramento
Arthur Irvin Bischoff	San Francisco
David Hugh Bixby	Los Angeles
Norman Martin Boriack	Oakland
Marie H Browning	Champaign, Illinois
Douglas Everett Bryan	San Francisco
Jack Robert Buchanan (A.B. 1942)	Santa Paula
Robert William Bussman	Santa Rosa
Lillian Ruth Champion	Oakland
Heng Wing Chan	Oroville
Thelma Marguleas Colvin	San Francisco
Dorothy Catherine Coops	Sonoma
Norma Jean Darby	Vallejo
Dorothy Claire Darling	San Jose
John Dick Donker	Santa Monica
Ernest Everett Draves	Santa Barbara
Larry Anthony Drew	Los Angeles
George William DuBois	Visalia
William Raymond Duckworth	Berkeley
Edward Walter Eldridge	Berkeley
Geraldine Frances Ellis	Alhambra
Roger Yates Ellis	Mancos, Colorado
John Hamilton Evans	Berkeley
Carroll Wayne Farmer	Graton
Joan Gabriel	San Francisco
Arthur Albert Gard	Petaluma
David Rice Gardner	Alameda
Matthew J Gilbert	Beverly Hills
Kenneth Wilson Goss	Oakland
Norman Gerald Gratz	Los Angeles
Joan Esther Greenberg	Berkeley
Kenneth Gene Gustafson	Wadsworth, Ohio
Richard Frost Hartsook	San Diego
James Burton Hassler	Exeter, Nebraska
Lillian Anna Hunt	Indio
Lois Elaine Isaac	Sandy, Utah
Arthur Edward Killian	San Gabriel
Robert Dale Kloppenburg	Fresno
John Roy Knorr	Modesto
Lewis Samuel Kootstra	Modesto
Mary Lapitsky	Washington, District of Columbia
Marion Kim Lee	San Francisco
Robert David Lovell	Hemet
John McConnell	Patterson
James William McKinney	El Paso, Texas
Raymond Martin	Sunnyvale
William Mishanec	Alhambra
Patricia Morrison	Oakland
Beverly Maxine Myers	Dinuba
John Gordon Neal	Lakeport
Lorraine Jean Philleo	San Francisco
William Spear Rosenberg	Visalia
Orell Pierre Saffores	Susanville
Calvin Allen Schaefer	San Francisco
William Bruce Shafer	Fresno
Waldo Eldon Skeels	Port Chicago
Burton Courtney Smith	Aurora, Illinois
Marie Eleanor Smith	Brisbane
Lester Wing Pon Tom	San Francisco
George Orville Turner	Long Beach
Rolland A. Vandergrift	Los Angeles

Henry Van Siegman	Walnut Creek
Margaret Ann Werner	Santa Cruz
Arvilla Jane Wiggins	Dixon
David Lincoln Williams	Oakland
Ramona Ingraham Williams	Lafayette
Edward Sun Wong	San Francisco
Kenyon Ronald Wood	San Fernando
Haruyo Betty Yamasaki	Alameda
Eleanor Ruth Young	Modesto
Wendell Raymond Young	Fillmore
Jean Adlaide Zumwalt	Salt Lake City, Utah

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

Mohammed Alei	Sacramento
Charles Freeman Allen	San Francisco
Robert Gustav Bartsch	St. Paul, Minnesota
John Salvador Bellecci	Martinez
Otto Theophil Bierwagen	Colfax
Lowell Beazer Bishop	Idaho Falls, Idaho
William Ball Boykin	Berkeley
Richard Gordon Breuer	Oakland
Harold Brooks	Los Angeles
Robert Lewis Burk	Los Angeles
Herbert Park Cantelow	Berkeley
Stanley Vernon Castner	Napa
Douglas Wilfred Chapman	San Leandro
Charles Victor Chin Loy	Kingston, Jamaica
Leland Jew Chinn	Sacramento
Peter Coad	Burlingame
Richard James Cogley, Jr.	Los Angeles
Roger David Cole	Berkeley
Richard Milton Curtis	San Francisco
Richard Harrison Dennis	Burbank
Tyre Harris Dinwiddie, Jr.	Oakland
Harland Dumond Embree	Pasadena
Robert Kay Fong	Bakersfield
William Brenton Harford	Oakland
Douglas Ralph Haskell	Dunsmuir
Cline Hurley Hayward	Seattle
William Day Heath	Vallejo
Warren Jonas Heiman	San Francisco
Roland Jang	Berkeley
Fred Ludwig Kassel	Stockton
Fred Katzburg	Oakland
Mack Alexander King, Jr.	Modesto
Leroy Edward Klekamp, Jr.	Westfield, New Jersey
Robert Daniel Knopes	Arlington
Leslie Bong Law	San Francisco
Aaron Lukton	Oakland
Harley Milton McCamish	Fresno
Francis Robert McKenna	Berkeley
Fred Marion Nelsen, Jr.	Berkeley
Wallace Fat Ng	San Francisco
Richard Royce Pegram	Los Angeles
Herbert Theodore Reynolds	La Mesa
William Walter Reynolds	Berkeley
Charles Warren Richards	Boise, Idaho
Robert Alan Royce	Fort Bragg
George Frederick Schurz	Modesto

Anker Victor Sims	Oakland
Howard Leroy Smith	Alturas
Frank Joseph Steiger, Jr.	Los Angeles
Winifred Tarpey	Oakland
Howard Alton Vaughn	Los Angeles
Patricia Clare Wallace	San Francisco
Lawrence Wallcave	Berkeley
Richard Lewis Way	Long Beach
Berton Howard Wilson	Berkeley
William Frederick Woods	Healdsburg

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

Martin Abramson	Civil Engineering	San Francisco
Thomas John Abshier	Petroleum Engineering	Whittier
Fred Avery Adams	Electrical Engineering	Santa Rita, New Mexico
Orin Russell Adams	Civil Engineering	Bakersfield
Jason Arthur Adler	Electrical Engineering	Los Angeles
Richard Kay Albano	Electrical Engineering	Pocatello, Idaho
Clifford Robert Allen	Mechanical Engineering	Placerville
John Calvin Alrich	Electrical Engineering	Los Angeles
Francis Russell Alves	Civil Engineering	Oakland
Carlos Castan Alzueta	Civil Engineering	Redding
Eugene Einer Andersen	Mechanical Engineering	Needles
Norman Emil Andersen	Electrical Engineering	Terra Bella
Gerald Lough Anderson	Electrical Engineering	Wilmette, Illinois
John Hooper Anderson	Industrial Engineering	Berkeley
Melville Weston Fuller Aubery	Civil Engineering	San Diego
Harold Edward Babcock	Civil Engineering	Redlands
Jack Key Babcock	Mechanical Engineering	Visalia
Richard Martin Babcock	Electrical Engineering	Los Angeles
Burch Caspar Bachtold	Industrial Engineering	San Francisco
Kenneth Gustave Balcom (B.S. New York State College of Forestry 1943)	Civil Engineering	Pulaski, New York
Robert Hamilton Barber	Mechanical Engineering	Oakland
Richard Nicol Barbrack	Mechanical Engineering	Berkeley
Forrest Lavender Barker	Electrical Engineering	Yuma, Arizona
Dow Park Barnes	Electrical Engineering	Long Beach
Daniel Duward Barnett	Mechanical Engineering	San Leandro
Delmar Alexander Bartley	Mechanical Engineering	Oroville
Robert Allen Basye	Civil Engineering	Porterville
Arthur Eugene Bates, Jr.	Electrical Engineering	Glendale
William Lucius Bausserman	Mechanical Engineering	San Francisco
Klyne George Beaumont	Civil Engineering	Sacramento
George D Beck	Civil Engineering	Vista
Floyd Erwin Becker	Electrical Engineering	Berkeley
Allan G Bell	Mechanical Engineering	Glendale
Augustus Bart Berger	Civil Engineering	Berkeley
Wallace Lawrence Bergeron	Electrical Engineering	Fresno
Donald William Berte (B.S. Bradley Polytechnic Institute 1944)	Electrical Engineering	Peoria, Illinois
Donald Clifford Betts	Electrical Engineering	Redding
Thomas Alvey Betts	Mechanical Engineering	Berkeley
Jerry Travis Bevans (B.A.S. 1946)	Mechanical Engineering	Bakersfield
John Hilary Bevis	Mechanical Engineering	San Jose
Robert William Bickmore	Electrical Engineering	San Francisco
Richard Shreve Birch, Jr.	Electrical Engineering	Moorestown, New Jersey
Robert Cole Blake	Civil Engineering	Santa Ana
Robert Edward Blau	Mechanical Engineering	Oakland

Robert Wyllie Blois	Electrical Engineering	Bakersfield
Bennett Malcolm Bloomfield	Mechanical Engineering	San Francisco
Anatoly Gregory Bogdanoff	Electrical Engineering	San Francisco
Clayton Clarence Boisvert	Civil Engineering	Oakland
John George Bolger, Jr.	Industrial Engineering	Eureka
Robert Warren Bolts	Industrial Engineering	Los Angeles
Robert Baker Bond	Civil Engineering	Beaumont
Theodore Eugene Bond	Agricultural Engineering	Davis
Parke Lowe Boneysteele	Mechanical Engineering	Piedmont
Robert Kenneth Boone	Industrial Engineering	Bell
Bill Kirk Bramble	Civil Engineering	San Diego
Richard Stanley Bray (B.S. Univer- sity of Southern California 1945)	Mechanical Engineering	San Francisco
Milton Arthur Brenner	Electrical Engineering	Los Angeles
Gertrude Jane Brill	Electrical Engineering	San Francisco
Rupert Coakley Brittain	Civil Engineering	San Diego
Willys Orval Brunk	Mechanical Engineering	LaVerne
Paul Fair Brunner	Mechanical Engineering	Roseville
Russell Joseph Bruzzone	Mechanical Engineering	Oakland
Brenton Otis Buck	Mechanical Engineering	Oakland
Arthur Leo Bunke	Mechanical Engineering	Orange
Raymond Wiley Burgan, Jr.	Civil Engineering	Los Angeles
William Floyd Burtis	Mechanical Engineering	Sutter
Willard Austin Burton (A.B. Colorado College 1940)	Industrial Engineering	Concord
Ellis Ulysses Butler, Jr.	Electrical Engineering	Oakland
Harry Brown Cadwell	Electrical Engineering	San Francisco
Burnham Mahl Caldwell	Industrial Engineering	Berkeley
William Thomas Carson, Jr.	Mechanical Engineering	Hughson
Felix Castro	Mechanical Engineering	La Habra
Inder Nath Chabra	Mechanical Engineering	Sialkot, Punjab, India
Donald DeHorace Chamberlin	Civil Engineering	Tulare
Richard Works Chaney	Civil Engineering	Berkeley
Lewis Davitt Chidester	Electrical Engineering	Whittier
Theodore KwunChow Ching	Civil Engineering, Honolulu, Territory of Hawaii	
Gene Wells Christensen	Mechanical Engineering	Pacific Grove
Theodore Lloyd Chung	Electrical Engineering	San Francisco
Donald Edward Clark, Jr.	Industrial Engineering	Santa Monica
Walter Bertin Clausen, Jr.	Civil Engineering	Pacific Palisades
Morrin Oscar Clemens	Civil Engineering	Los Angeles
Antonio Sam Co	Mechanical Engineering	Manila, Philippines
Irving Robert Cole	Civil Engineering	Los Angeles
William Lawren Cole	Electrical Engineering	San Anselmo
Charles Ray Collinsworth	Electrical Engineering	Dallas, Texas
Henry Eric Conell	Mechanical Engineering	Los Angeles
Peter Fries Connor, Jr.	Industrial Engineering	Chula Vista
Robert Deane Cook	Electrical Engineering	Los Angeles
James Douglas Coolidge	Civil Engineering	Oakland
Arthur Irving Coops	Electrical Engineering	Sonoma
William Carl Cramer	Mechanical Engineering	San Francisco
Philip Donald Crill	Electrical Engineering	Ukiah
James Clifford Croudace	Electrical Engineering	Oakland
Heber John Cunliffe	Civil Engineering	Riverside
Williamson Dee Cunningham	Electrical Engineering	Oakland
Harold Scott Curtis	Mechanical Engineering	Long Beach
Robert Mellon Daiss	Industrial Engineering	Oakland
John Batista Damonte	Electrical Engineering	San Francisco
Charles Nelson Daniels	Mechanical Engineering	Sacramento
Alvin Bernard Davidson	Mechanical Engineering	Stockton
Ervin Samuel Dean, Jr.	Electrical Engineering	Los Angeles
Laurence Edwin DeCuir	Electrical Engineering	Sacramento
John Baptist deLorimier	Electrical Engineering	Pacific Grove

David Harold Dennis	Mechanical Engineering	Burbank
Allen Evans Deyo	Electrical Engineering	North Hollywood
Irving Leonard Diamond	Mechanical Engineering	San Francisco
Richard Kenneth Dickey	Electrical Engineering	Berkeley
Roy Edward Dixon	Civil Engineering	Sacramento
Patrick Henry Donahoe	Mechanical Engineering	Alhambra
Paul C Dong	Mechanical Engineering	Sacramento
George Charles Doran	Mechanical Engineering	Alameda
Charles Woodard Drake	Industrial Engineering	Guerneville
Curtis Dreyer	Mechanical Engineering	Oakland
William Foster Dripps	Electrical Engineering	Riverside
Darrell William Duane	Electrical Engineering	San Francisco
William Roy Duncan	Metallurgy	Eureka
Charles Catlin Dundore	Mechanical Engineering	Santa Monica
John Peter Dunston	Industrial Engineering	San Francisco
Bentley Bruce Dunwoody	Civil Engineering	Los Angeles
Ephraim Dyer, Jr. (B.S. 1939)	Agricultural Engineering	Lindsay
Harold Roy Edmison, Jr.	Electrical Engineering	Los Angeles
Joseph Buentello Elizondo, Jr.	Economic Geology	Marysville
James Howard Elliott	Mechanical Engineering	Pasadena
Charles Elson	Metallurgy	Inglewood
Warren Dahl Elston	Mechanical Engineering	Richmond
LeRoy Lloyd Emmel	Electrical Engineering	Oakland
Robert David England	Electrical Engineering	Los Angeles
Francis Jeremiah Enright	Mechanical Engineering	Richmond
John Albert Enright	Electrical Engineering	Richmond
Herman Epstein	Electrical Engineering	Kansas City, Missouri
Harold Frederick Erdley	Electrical Engineering	Los Angeles
Max Philip Erhard	Mechanical Engineering	Los Angeles
Eric Bernard Erickson	Electrical Engineering	Piedmont
Marks Sherman Eubanks	Civil Engineering	San Simeon
Henry Brown Everett	Agricultural Engineering	Oroville
Jack Foord Evernden	Economic Geology	Berkeley
Forrest Louis Fackler	Mechanical Engineering	Oakland
Charles Raymond Faulders	Mechanical Engineering	Berkeley
Bill Lloyd Faulk	Mechanical Engineering	Vallejo
William Stiles Fay, Jr.	Civil Engineering	San Diego
John Samuel Ferguson	Electrical Engineering	Los Angeles
Leslie Raymond Ferguson	Mechanical Engineering	Byron
Walter Martin Fiedler	Electrical Engineering	Los Angeles
Herbert Lee Filkoff	Electrical Engineering	Los Angeles
Elsworth George Finlay	Electrical Engineering	Richmond
Edwin Hoy Finster	Civil Engineering	Balboa
Peter Willard Fisher	Civil Engineering	Alameda
Charles Jackson Flint	Mechanical Engineering	Pasadena
Jarrott Val Flowers	Mechanical Engineering	Long Beach
Thomas Edgar Flowers, Jr.	Civil Engineering	Oakland
Hayward Fong	Civil Engineering	Los Angeles
John B Forder	Electrical Engineering	Pasadena
Ray Wesley Foreaker, Jr.	Mechanical Engineering	Berkeley
John Douglass Foster	Civil Engineering	Berkeley
Norman Lee Fox	Mechanical Engineering	Compton
Bruce Lovat Fraser	Civil Engineering	Sacramento
Robert John Freeman	Mechanical Engineering	Los Angeles
John Guthrie Freer	Mechanical Engineering	Glendale
John Wymond French, Jr.	Mechanical Engineering	Los Angeles
William Stanley Frolli	Industrial Engineering	Berkeley
C Clark Fuller, Jr.	Electrical Engineering	Fresno
Raymond Bruce Furst	Mechanical Engineering	Whittier
John Francis Futscher	Civil Engineering	San Francisco
Paul Harold Gaebler	Electrical Engineering	Berkeley
Chester J Gahn	Civil Engineering	San Francisco

John Gaspar	Mechanical Engineering	Los Angeles
Charles Ralph Geiberger	Mechanical Engineering	Sacramento
Claude Wilson Gerber	Electrical Engineering	East Highlands
Duane Rex Gifford	Mechanical Engineering	Tulelake
David Wallace Gilbert	Mechanical Engineering	Oakland
Charles Richard Glasgow	Electrical Engineering	San Mateo
Charles Albert Goebel, Jr.	Industrial Engineering	San Francisco
John Albert Goesser	Electrical Engineering	La Feria, Texas
Charles Leon Golden	Electrical Engineering	Los Angeles
Anathol Goldman	Civil Engineering	Petaluma
Donald Roy Gotthold	Electrical Engineering	Biggs
James Wilmer Graham	Electrical Engineering	St. Paul, Minnesota
Frederic Francis Grant	Mechanical Engineering	Lomita
Steven Morris Grant	Mechanical Engineering	Los Angeles
William Tudor Griswold	Metallurgy	Berkeley
Charles Ward Gullick, Jr.	Civil Engineering	Stockton
Joseph Cryer Guptill	Civil Engineering	Oakland
William Mullen Haire	Mechanical Engineering	San Miguel
David Michael Hall	Civil Engineering	Sherman Oaks
Orrin Howard Harder	Civil Engineering	Soledad
Charles Wesley Hart, Jr.	Agricultural Engineering	Fullerton
Samuel Alexander Hart	Agricultural Engineering	Sacramento
Frank Emanuel Hauser	Mechanical Engineering	Napa
Robert Shigeharu Hayashi	Mechanical Engineering	Los Angeles
Nora Lee Faith Hayter	Mechanical Engineering	Ukiah
Clyde Charles Heasley, Jr.	Electrical Engineering	Seattle, Washington
Sanford Ivan Heisler	Industrial Engineering	San Francisco
Richard Alden Henschke	Electrical Engineering	Oakland
Charles Edward Hepner	Mechanical Engineering	Piedmont
Joseph Roy Hilton	Mechanical Engineering	Oakland
George Bernard Himel	Mechanical Engineering	Santa Monica
Maurice James Hitchman	Mechanical Engineering	San Jose
Raymond Leon Hobbs	Mechanical Engineering	Santa Paula
George Hayes Holliday	Mechanical Engineering	Richmond
Victor Frederick Hollister	Economic Geology	San Francisco
Charles James Holloman	Electrical Engineering	Alameda
Donald Reid Holm	Civil Engineering	Stockton
Leroy Ernest Holmes	Civil Engineering	Glendale
LaVerne Keith Houser	Industrial Engineering	Des Moines, Iowa
Robert Wilbur Houston	Mechanical Engineering	San Diego
Harold Everett Howard, Jr.	Petroleum Engineering	Los Angeles
Lester Eugene Howes	Mechanical Engineering	Visalia
John Davy Humphrey	Mechanical Engineering	Los Angeles
Gordon Stewart Hunter	Mechanical Engineering	Yonkers, New York
Reuben Burl Hurd	Civil Engineering	Elba, Idaho
Charles Edward Husacy, Jr.	Mechanical Engineering	Berkeley
Weston Howell Irwin	Mining Engineering	Los Angeles
Donald Louis Jacobsen	Mechanical Engineering	San Diego
Jerome Sigmund Jaffe (A.B.) University of California at Los Angeles 1946)	Electrical Engineering	Los Angeles
Jack Irving Johnson	Civil Engineering	Vallejo
Clarence Irwin Jones	Electrical Engineering	Berkeley
Harold Scott Jordan, Jr.	Mechanical Engineering	San Gabriel
Walter Gordon Kaestner	Mechanical Engineering	Los Angeles
Edwin Water Kahn	Civil Engineering	Los Angeles
Samuel George Kalichman (A.B.) University of California at Los Angeles 1942)	Civil Engineering	Santa Monica
Stanley Phillip Kallo	Mechanical Engineering	San Francisco
Victor Nicholas Karpenko	Mechanical Engineering	San Francisco
Elbert Gerald Keller	Electrical Engineering	Eustis, Nebraska

Alex Theodore Kerhulas.....	Electrical Engineering	San Francisco
Frank Joseph Kersnar.....	Civil Engineering	Mesa, Arizona
Thomas H D Kesterson.....	Industrial Engineering	Pasadena
Harry Heinz Kiefer.....	Electrical Engineering	El Cerrito
James Robert Kilpatrick.....	Electrical Engineering	Long Beach
William Nathan King, Jr.....	Agricultural Engineering	North Hollywood
Robert Alan Kinslow.....	Electrical Engineering	San Francisco
Andrew Scott Kirk.....	Industrial Engineering	Berkeley
Joel Kitchens.....	Electrical Engineering	Visalia
William Pinkoski Klemens.....	Electrical Engineering	Glendale
James Howard Knapton.....	Electrical Engineering	Crockett
John DeMoss Kniveton.....	Petroleum Engineering	Berkeley
Milton Jerome Kodmur.....	Mechanical Engineering	Los Angeles
Charles Russell Kohlenberger.....	Mechanical Engineering	Fullerton
George Robert Konevich.....	Electrical Engineering	San Francisco
William Robert Krafft.....	Electrical Engineering	Woodland
William Franz Kruse.....	Petroleum Engineering	La Habra
Dale Henry Lambert.....	Electrical Engineering	Modesto
Wilfred Joseph Lamorey, Jr.....	Mechanical Engineering	San Francisco
Paul Henry Lane.....	Civil Engineering	Stockton
Harry Earnest Larsen.....	Civil Engineering	Oakland
Cedric Gareth Larson.....	Mechanical Engineering	Berkeley
Paul Vernon LaRue.....	Mechanical Engineering.....	Heyburn, Idaho
Jack Holm Lawson.....	Mechanical Engineering	San Francisco
George Shewhon Lee.....	Electrical Engineering	Oakland
Jeffrey Lee.....	Civil Engineering	San Francisco
Robert Lee.....	Civil Engineering	Colusa
William Wayne LeFevre.....	Civil Engineering	Fresno
Alfred Daniel Leipzig.....	Civil Engineering	Los Angeles
Philip Chone Leong.....	Electrical Engineering	San Francisco
Willis Elmer LeQuatte, Jr.....	Electrical Engineering	Berkeley
Irving Lev.....	Mechanical Engineering	Oakland
Robert Nelson Lewis.....	Mechanical Engineering	Berkeley
Irwin Lichtenstein.....	Mechanical Engineering	San Francisco
Charles Albert Lindgren, Jr.....	Civil Engineering	San Francisco
Mark Ivan Lipanovich.....	Electrical Engineering	Oakland
Ralph Fredrick Long.....	Mechanical Engineering	Redondo Beach
Daniel Leroy Lorain, Jr.....	Industrial Engineering	Sacramento
Ernest Henry Lorbeer.....	Mechanical Engineering	Pasadena
Harold Anford Lovegreen.....	Industrial Engineering	Ukiah
John Paul Lucas.....	Electrical Engineering	San Francisco
John Warren Lucas.....	Agricultural Engineering	Ontario
Raymond Alfred Lucas.....	Industrial Engineering	Fortuna
Wilbur Blake Lunt.....	Electrical Engineering	Long Beach
James Lawrence Lyon.....	Mechanical Engineering	San Francisco
William Braxton Mabry.....	Mechanical Engineering	Glendale
Robert Burns McAulay.....	Electrical Engineering	Orange
Bruce Gordon McCauley.....	Industrial Engineering	Mobile, Alabama
Berton James McComb.....	Electrical Engineering	Los Angeles
George Harry McConnell, Jr.....	Mechanical Engineering	Berkeley
James Woodward McCormick.....	Electrical Engineering	San Francisco
Charles Albert McCullough.....	Civil Engineering	Grass Valley
Jack Herbert McDonald.....	Civil Engineering	Rio Linda
Rosmond May MacDonald, Jr.....	Metallurgy	Nahant, Massachusetts
Robert Lawrence McDonell.....	Electrical Engineering	North Sacramento
James Martin McDowell.....	Civil Engineering	Rapid City, South Dakota
Winton McGarvey.....	Electrical Engineering	Fresno
Charles Lamar McGorvin.....	Civil Engineering	Redding
Gerald William Mackenzie, Jr.....	Mechanical Engineering	Glendale
Bruce Monroe Macleod.....	Metallurgy	Long Beach
Jerome Carpenter McMahan, Jr.....	Electrical Engineering	Long Beach
Waldon Eugene McNeely.....	Electrical Engineering..	Las Vegas, New Mexico

Bruce Douglas McVey	Electrical Engineering	Turlock
William Clark Mannix	Mechanical Engineering	Boonville
Douglas Martin	Civil Engineering	San Francisco
Gordon Lee Martin	Industrial Engineering	Orinda
Robert Alfred Martina	Mechanical Engineering	Los Angeles
George Francis Martus	Metallurgy	Boston, Massachusetts
Robert Lynn Mathews	Mechanical Engineering	Woodland
Gilbert Junior Matson	Civil Engineering	Eureka
Alan Herbert Matthews	Industrial Engineering	Sacramento
James Emmet Medlin	Electrical Engineering	Tracy
George Duschak Merrill	Mechanical Engineering	Paso Robles
George Wilson Metcalf	Economic Geology	Los Angeles
Edward Herbert Meyer	Civil Engineering	Oakland
Forrest Dean Mikelson	Mechanical Engineering	Los Angeles
Walter Bernard Mikkelsen	Electrical Engineering	San Francisco
Russell Shawver Miksch	Mechanical Engineering	Visalia
Larry Joseph Miller	Mechanical Engineering	Whittier
Spencer Paul Miller, Jr.	Mechanical Engineering	Pasadena
Mack Ashton Mitchell	Petroleum Engineering	Oakland
* Robert Ellis Moncrieff	Industrial Engineering	Santa Monica
Charles Francis Moran	Civil Engineering	Pasadena
Robert Stanley Morketter	Mechanical Engineering	Whittier
Morgan Jay Morley	Mechanical Engineering	Los Angeles
Kenneth Clifton Morrissey	Industrial Engineering	Orland
George Clarke Myron	Civil Engineering	Los Angeles
Elmer Thomas Nelson, Jr.	Electrical Engineering	San Francisco
Thomas Churchill Nelson, Jr.	Metallurgy	Mill Valley
Hubert Lionel Nielsen	Civil Engineering	Redlands
Theodore Stanley Ockels	Mechanical Engineering	Orange
Ivan Carl Odom	Mechanical Engineering	Oakland
Robert Jack O'Keefe	Mechanical Engineering	Oakland
John Leonard Oldenkamp	Electrical Engineering	Rock Valley
Russell Jack Page	Mechanical Engineering	Los Angeles
William Allen Page	Mechanical Engineering	Campbell
Charles Keith Parker, Jr.	Mechanical Engineering	Richmond
Francis Foster Parker	Electrical Engineering	Firebaugh
Farrell Melvin Patterson	Mechanical Engineering	Los Angeles
Robert Morgan Paul	Civil Engineering	Riverside
Victor Payse, Jr.	Electrical Engineering	Anaheim
Donald Penprase	Civil Engineering	Los Angeles
Daniel Perkel	Electrical Engineering	Union City, New Jersey
Clarence Calvin Peterson	Civil Engineering	Fresno
DeWayne Byron Peterson	Electrical Engineering	Dayton, Iowa
Walter Rygaard Peterson	Mechanical Engineering	Berkeley
Peter Martin Phelps	Mechanical Engineering	Redlands
Edward Eugene Phillips	Civil Engineering	San Francisco
James Joseph Pickell	Civil Engineering	Santa Monica
William Smith Pickrell	Mechanical Engineering	Phoenix, Arizona
Paul Popenoe, Jr.	Electrical Engineering	Altadena
LeRoy Charles Porter, Jr.	Mechanical Engineering	Portland, Oregon
Ovid Cyril Porter	Electrical Engineering	Albion, Illinois
Robert Saffold Powell	Mechanical Engineering	Oakland
Richard Croxdale Prince	Electrical Engineering	Prescott, Arizona
William Roscoe Prindle	Metallurgy	Oakland
Robert Carroll Puckett	Mechanical Engineering	Kentfield
Raymond Fun Quan	Mechanical Engineering	San Francisco
Barbara Jean Quimby	Mechanical Engineering	Torrance
James Albert Quinville	Mechanical Engineering	Oakland
Frank Vidodrag Rakela	Civil Engineering	Marysville
Scott Carlton Ramsden	Mechanical Engineering	Oakland

* As of February 5, 1948.

Robert Viking Ramsing	Electrical Engineering	Nuevo
Edward William Rathbun	Mechanical Engineering	Glendale
Blanchard Redner	Engineering Physics	Piedmont
Richard Harrington Reed (A.B. 1947)	Engineering Physics	Berkeley
R Gordon Reeder	Mechanical Engineering	Los Angeles
Charles L Reno	Mechanical Engineering	Long Beach
Eugene Jack Revolon	Industrial Engineering	Oxnard
Franklin Anderson Riffle	Civil Engineering	Oakland
Louis William Riggs, Jr.	Civil Engineering	Riverside
Jasper Newton Ripley, Jr.	Electrical Engineering	Oakland
Frank DeGaris Robbins	Electrical Engineering	San Diego
William Calvin Rockwell	Mechanical Engineering	Long Beach
Marshall Hawley Roe	Mechanical Engineering	Fresno
Harding Rose	Mechanical Engineering	Modesto
Robert Joseph Rose, Jr.	Mechanical Engineering	Dinuba
Jerome Maxwell Rosenberg	Electrical Engineering	Oakland
Paul Edward Rosenthal	Mechanical Engineering	San Francisco
John Francis Ross, Jr.	Mechanical Engineering	Los Angeles
Robert Joseph Roza	Mechanical Engineering	San Francisco
Albert Christian Ruedy, Jr.	Electrical Engineering	Oakland
Russell Leonard Rustici	Civil Engineering	San Francisco
Robert Francis Ryon	Industrial Engineering	Los Angeles
Joe Sakakura	Electrical Engineering	Los Angeles
Peter Salz	Mechanical Engineering	San Francisco
Niratana Samathapandhu	Petroleum Engineering	
Washington, District of Columbia		
Edward Chase Saunders	Mechanical Engineering	Whittier
Roderick William Brandreth Saunders	Civil Engineering	Los Angeles
Frederick Hellmann Sawyer	Civil Engineering	Alameda
Thomas Guy Sawyer	Mechanical Engineering	Oxnard
Robert Woodhull Schenck	Civil Engineering	Berkeley
Edward George Schleiger	Mechanical Engineering	Windsor, Colorado
Edward Alexander Schuert	Mechanical Engineering	Oakland
Julien Isidore Schwalbe	Electrical Engineering	New York, New York
Robert Gene Sebring	Civil Engineering	Culver City
Lloyd Justin Selene	Mechanical Engineering	San Francisco
Dominic John Selmi	Civil Engineering	San Francisco
James Thoburn Sharpsteen	Mechanical Engineering	La Crescenta
Robert Burton Shaw	Metallurgy	San Francisco
George Robert Simpkins	Mining Engineering	La Mesa
James Edward Simpkins	Mechanical Engineering	Mill Valley
Frank Joseph Sindoni	Mechanical Engineering	Los Angeles
Edward Carl Skei	Mechanical Engineering	Los Angeles
Joseph Willis Skinner	Electrical Engineering	Riverside
Audrey Jean Smith	Electrical Engineering	Berkeley
Kenneth Oliver Smith	Agricultural Engineering	Tulare
Vernon Lloyd Smith	Electrical Engineering	Oakland
Robert George Smits	Electrical Engineering	Berkeley
John William Somers	Electrical Engineering	San Francisco
Linn Stowell Spaulding	Civil Engineering	Susanville
William Peter Spehar	Electrical Engineering	San Francisco
James Thompson Spencer	Electrical Engineering	Los Angeles
George Victor Stanton	Electrical Engineering	Pasadena
Robert Leonard Stein	Electrical Engineering	San Francisco
Robert Charles Stern	Electrical Engineering	San Francisco
Harry Clark Stiver	Industrial Engineering	Youngstown, Ohio
Jack Milton Stoltz	Mechanical Engineering	Stockton
Porter Walwyn Stone	Mechanical Engineering	Miami, Florida
Alvin Jack Strassman	Electrical Engineering	
Long Island City, New York		
Roman Peter Stroganoff	Electrical Engineering	San Francisco

Donald Berkley Sturtevant.....	Electrical Engineering	Yucaipa
Walter Arthur Sutter.....	Mechanical Engineering	Oakland
Sharad Jagmohandas Talati.....	Civil Engineering	
Nadiad, Bombay Province, India		
Daniel Henry Talt.....	Civil Engineering	Berkeley
Yoshiaki Tamura.....	Electrical Engineering	Concord
James Lee Taylor.....	Mechanical Engineering	Los Angeles
Thomas Washington Tedrick, Jr.....	Electrical Engineering	Alameda
Aldo John Test.....	Electrical Engineering	Dos Palos
William Grant Theisner.....	Electrical Engineering	Detroit, Michigan
Joseph Chan Thom.....	Electrical Engineering	Courtland
Robert John Thomson.....	Industrial Engineering	Burlingame
William Howard Thormahlen.....	Electrical Engineering	Napa
Murray Arthur Tobak.....	Mechanical Engineering	Los Angeles
Eddy Tom.....	Electrical Engineering	Sausalito
John Tom.....	Mechanical Engineering	San Francisco
Raymond Ming Tom.....	Mechanical Engineering	San Francisco
David Delay Tomlinson.....	Electrical Engineering	Los Angeles
Russell Nelson Trackwell.....	Mechanical Engineering	Oakland
James Von Trish.....	Industrial Engineering	San Francisco
Theodore Vernon Tronoff, Jr.....	Civil Engineering	Berkeley
John Forbes Truchot, Jr.....	Economic Geology	Compton
Charles Herbert Turnbull.....	Industrial Engineering	Pasadena
Dorin Kenneth Wayne Turner.....	Mechanical Engineering	Richmond
Ronald Errol Ustiek.....	Industrial Engineering	Taft
George Castle Vane.....	Mechanical Engineering	Los Angeles
Philip Spencer Virgil, Jr.....	Civil Engineering	La Jolla
John Earl Warren.....	Electrical Engineering	Yorba Linda
James Alexander Wathen.....	Civil Engineering	Fresno
Donald Galen Weaver.....	Electrical Engineering	
Honolulu, Territory of Hawaii		
William Robert Webb.....	Electrical Engineering	San Francisco
Robert Leland Weiss.....	Engineering Physics	Salina, Pennsylvania
Samuel Weiss.....	Industrial Engineering	San Francisco
William Lawrence Werner.....	Industrial Engineering	Berkeley
Edward Jack Wesley.....	Electrical Engineering	Salinas
Arthur Wade Wetmore.....	Industrial Engineering	Alameda
Frank William Whildin.....	Electrical Engineering	San Diego
James Loring Whitaker.....	Electrical Engineering	Visalia
Murel Emmett White.....	Electrical Engineering	Santa Rosa
Robert Lynn Whited.....	Industrial Engineering	Long Beach
Harold Franklin Whittaker, Jr.....	Electrical Engineering	Albany
Earle Arthur Williams.....	Electrical Engineering	Buffalo, New York
Elmer Beckham Williams.....	Mechanical Engineering	Taft
Max Warner Williams, Jr.....	Mechanical Engineering	Kansas City, Missouri
William Charles Richard Williams, Jr.....	Electrical Engineering	San Francisco
Alexander Murray Wilson, Jr.....	Metallurgy	Tulare
Howard Gene Wilson.....	Electrical Engineering	Dixon
Ernest LeRoy Winkler.....	Mechanical Engineering	Oakland
Chester Norman Winningstad.....	Electrical Engineering	Oakland
Harry Kellum Winters.....	Mechanical Engineering	Los Angeles
Marvin Joseph Wolf.....	Civil Engineering	Merced
Patrick Peters Wong.....	Industrial Engineering	Los Angeles
Felipe Tseng-Fei Woo.....	Mechanical Engineering	
Manila, Philippine Islands		
Dan W Woody.....	Civil Engineering	Los Angeles
Kunio Yamamoto.....	Electrical Engineering	Los Angeles
William James Yates.....	Mechanical Engineering	Calexico
Ernest Eugene Yeager.....	Civil Engineering	Riverside
Robert Dwight Yeaman.....	Industrial Engineering	Oakland
Joe F Yee.....	Electrical Engineering	Sacramento
Edwin Griffith Zacher.....	Civil Engineering	Peru, Illinois
Gene Wesley Zeoli.....	Electrical Engineering	Millbrae

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Donald Aaron Abel	Arthur Aaron Berenbaum
Lillian Abraham	Virginia Lorene Berg
Richard Harold Abraham	William Roger Berkman
Norman Norton Abrahams	Jessie Antoinette Berman
Theresa Catherine Albertano	Shirley Claire Berman
Stephanie Anne Alioto	Betty Lou Besoain
John Louis Allen	Stephen Herbert Bess
Wilbur Coolidge Allen	Elizabeth Joan Bewley
Dolores Rae Altman	Jane Virginia Biedenbach
Richard Bruce Amandes	Aileen Doris Biehl
Anna Marie Anderson	Edwin Francis Billings
William Carl Anderson	Harry Arthur Bishop
Harry George Andrews	Norma Marie Blair
Eugene Franklin Angell	Sherwood Eugene Blair
Bernard Edward Apfelbaum	Foster Warren Blaisdell, Jr.
Harry Mountcastle Ardley, Jr.	Carolyn Jean Blake
Charlotte Emily Arnold	Lois Marie Blakeley
Jean Frances Arthur	Betty Joanne Blankenship
Vivien Asaye Ashizawa	Priscilla Blesch
Margaret Rae Ashton	Theodore Frederick Blitz
Bernardine Elaine Attinger	Bernard Blumberg
Ruth Clem Aufhauser	Johnson Sherwood Bogart
Richard Harold Aulwurm	Marilyn Jean Bond
Edgar Allen Austin	James Saunders Boone
Wilma Joyce Avant	John Franklin Borum
Martha Seena Azimow	Pallie Jean Bottorff
John Joseph Baccelli	Daniel Johnson Bouquet
Cheyney Bailey	Francis Lester Bouquet, Jr.
Marvin Cameron Baker	Mary Jane Braun
William Francis Balaz	Kathryn Lorraine Brazil
Mary Ball	Marcia Lamar Brenner
Berton Etienne Ballard	Winifred Kaseberg Breuner
Kenneth James Ballard	Virginia Carole Breyer
Norma Hope Ballaris	Robert Emerson Brian
Thomas Lee Bardet	Ronald John Briglia
Beatrice Mary Barker	George VanNess Brim
Sarah Constance Barnes	Nancy Sue Broderick
Martha Jane Barnett	Louise Brooks
Robert Francis Barrett	Mary Lou Brooks
Robert Andrew Barron	David Preston Brown
Anne Eleanor Basham	Pamela Lee Brown
Audrey Anita Bass	Raymond James Browne
Phyllis Jean Baumgart	Helen R Bruner
Carol Jean Baxter	Donald Emile Bruzzone
Mary Eleanor Beatty	Edward David Bryant
Joan Alaire Beaulieu	Eleanor Louise Buchter
Bruce Alan Becker	Arnold Gerhard Robert Budde
Dorothy May Beebe	Paul Edward Buechner III
Wanda Lynn Behrens	Lois Mardelle Bunger
Gloria Belich	Maryly Esther Burchell
Beverly Helene Bender	Jack Burg
Shirley Lucille Benjamin	Christine Belle Burke
Louis Wesley Bennett	Billie Ann Burns
Lorraine Aurora Benoit	Warren Otis Burns
George Whitfield Benson	Elsa Pauline Bye
Richard Howard Benthin	Rilio Frank Caccia
Seymour Berek	Charlotte Sue Cameron

Kenneth Robbins Cameron
Barbara Jean Campbell
Mabel Norma Cardella
Carley Ruth Carter
Frank Phillip Castro
Sebastian Charles Catalano
Pauline Jane Catlin
Mary Chan
David Malcolm Channing
JoAnn Cheesman
Nancy Jane Cheleden
Edward Chapin Chew, Jr.
Frank Chew
Taylor Chin
Evelyn Arpy Chituni
Evelyn Elizabeth Chu
Marilyn Joan Citron
Dolores Clapp
Alvin Clar
Dorothy Laverne Clark
Diana Joan Clarkson
Beverley Jane Clausen
George Edward Clausen, Jr.
Catherine Joan Clifford
June Miriel Cockshott
Donald R Codeglia
Edward Allen Cohen
Morton Barnard Cohen
Jacqueline Jean Collins
Paul Theodore Colombatto
Neil Macdonald Cook
Jeannine Coombs
Roy Sanford Coon, Jr.
Norman Cooper
Benjamin Callister Corlett, Jr.
Jack Corley
Jane Lucille Cornell
Carroll Ann Coughlin
Merlyn Chester Counsell
Charlotte Clarice Cowan
Helen Dorothy Cowell
David Cox
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Burnice Vivian Denton
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George Pierre deTuncq
Frank Burnett Dibble
Kathryn Eleanor Dimmick
Frank Hew Din
Park Tuller Dingwell
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Ralph Daniel Drayton
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Joan Genevieve Evers
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Vernon Pierre Faillettaz
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Anthony Edward Farnham
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Norma Mae Faulkner
Bernard Samuel Feldman
Bernard Ross Felix
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Barbara Mary Finn
Mona Gwendolyn Finn
Charlotte Yvonne Fischel
Dolores Helen Fischer
Delbert Arthur Fisher
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Sondra Fleschler
Helen Claire Fletcher
Anne Patricia Foley
Kim Ying Fong
Margaret Loy Hai Fong
Beulah Wong Foo
John Charles Forbes
Martha Elinor Forsyth
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 Patience Ruth Hansen
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 Clayton Hastings
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 Eva Hansine Henriksen
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 Alan Nels Hoaglund
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 Marolyn Jane Hoffman
 Alexander Peter Hoffmann
 Johanna Dorothea Hohenstein
 Anthony Davis Holland
 Mabel Hom
 Samuel Lee Hom
 Helen Hong
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 Donald Lawrence Hoskins
 John Merrill House
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 Janet Christie Hughes
 Juanita Hughes
 Viola Mae Hughes
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 Dollena Joy Humes
 Theodore Nick Huntalas
 Verna Lee Hunter
 Donald Ellsworth Hutcherson, Jr.
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 Morris Carman Ianni

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 Girard Allen Jacobi
 Hiram Robert Jacobs
 Carolyn AEnene Jacobson
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 Walter Kenneth Janssen
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 Fred Theodore Jenner
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 Gustaf Frederick Johnson
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 Patricia Catherine Johnson
 Jack Irwin Jonas
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 Isaac William Jones
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 Elva Jovisich
 Ton Fon Jue
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 Te Piao King
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 Carolyn Barbara Lee
 Virginia Susan Lee
 Virginia Winifred Lee
 Vivian S Lee
 Therese Marie LeeBody
 Richard Ralph Legault
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 A Saul Levine
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 Clara Marie Luiselli
 Alfred Thaddius Luke
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 Harry James McAndrew
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 Wallace Frank McArthur
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 Walter Clyde McCormies
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 Timothy Edward Murphy
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 Kenneth Vadney Murray
 Marilyn Ruth Murray
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 James Harvey Nicholson
 Esther Harriet Nilson
 Jacqueline Mae Nifo
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 Charles Donald Noonan
 Salvador Petronilo Noriega
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 Oleg Nickolas Obuhoff
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 Dolores Elaine Osborne
 Ruth Helen Pape

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Robertta Lee Pate
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Lois Louise Pellettieri
Eleanor Penfield
Carmel Alice Penther
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Della Pon
Herman Benjamin Popiul
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Marvin Harold Quickert
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Kathleen Ann Scollard
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Howard Campbell Sebastian
Evelyn Seifert
Elizabeth Helen Seywald
Eleanor Shaffer
Shirley Mary Shannon
Norman Shapiro
Mavis Gwendolyn Sharp
Benjamin Haines Shattuck
Edward Lynn Shelton
Rosemary Linden Shull
Stuart Elman Sieroty
Harold Lawrence Simmons
Harold Joachim Simon
John Wesley Simpson
Marjorie Ruth Sims
Frederic Sui Kong Siu
George Suck Hoo Siu
Victor Wan Fa Siu
Robert Hughes Skeels
Robert David Slate
Nancy Anne Slaven
George Wesley Sligar
George Thornburch Sloan, Jr.
Donald Esselman Smith

Ellison Smith
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 John Robert Sondericker
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 Sonnia Wald Stangle
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 Errol Gene Summy
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 Tina Anne Traina
 William Thornton Trampleasure
 George Albert Trigueros
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Warren Austin Turner
 Russell Thornley Tuttle
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 Johanan Herbert Vigoda
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 James Lew Weeks
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 Solomon Weinberg
 Raymond Lewis Weisberg
 Jack Mark Weiss
 Barbara Welling
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 Janet Welpley
 Shirley Lynella West
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 Dawn Whipple
 E Louise White
 Joan Whitener
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 John Francis Wilder
 Gene Cady Wilken
 Martin Galvin Wilkinson, Jr.
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 Nadine Lucile Williams
 Joan Marianne Wilshire
 Lee Roy Carl Winters
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 Emerson Ernest Wisner
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 Wallace Lum Wong
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 Frank Woodey, Jr.
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 William Lloyd Woolley
 John Louis Worden, Jr.
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 Julian Harrison Wulbern
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 Kimiko Marjorie Yoshizawa
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 Milman Parry Youngjohn
 Gordon Zane, Jr.
 Nellie Mae Zaveallas
 Harold Nathan Zelman
 Robert Frank Zeni

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The Degree of Bachelor of Arts upon

Victor Hiroshi Abe	Physiology	Los Angeles
William Wayne Abercrombie	Medical Sciences	Long Beach
Shulamith Abramson	Speech	Los Angeles
Clifford William Adams	General Curriculum	Oakland
Patricia Janette Adams	History	Oakland
William Yewdale Adams	Anthropology	Los Angeles
Hatsuro Aizawa	Art	San Francisco
Lester Pierce Albon	Political Science	Oakland
Herbert Albert Alf	General Curriculum	Berkeley
Marion DeBerry Alf	General Curriculum	San Francisco
Evelyn Bernice Allen	Economics	Napa
Joyce Gloria Allen	History	Logan, Utah
James Dresser Allen	General Curriculum	Salt Lake City, Utah
John Clare Alley	Physiology	Los Angeles
Charles George Allyn	Political Science	Fort Harrison, Indiana
Dorothy Louise Alm	Bacteriology	Fargo, North Dakota
Francesca Lydia Alsing	Music	San Francisco
Alice Louise Alter	Social Welfare	Berkeley
Mary Teresa Ambrose	Zoology	Fresno
Robert Leroy Anderson	Economics	San Leandro
Clive Anger	Economics	Berkeley
Cesar Arana	Mathematics	Los Angeles
Chelta June Armstrong	Geography	Oakland
Richard Walter Armstrong	Economics	Berkeley
Rainer George Arnhold	Zoology	Pacific Palisades
Arthur Lemon Arnold, Jr.	General Curriculum	Long Beach
Joan Arnold	General Curriculum	Berkeley
George Ernest Arnstein	Political Science	San Francisco
Lorraine Elise Asnard	Social Welfare	San Francisco
Barbara Anne Atchison	Physical Education	Oakland
David Charlton Atwater	History	San Francisco
Catherine Paul Atwood	General Curriculum	Scarsdale, New York
Frank Lewis Aumack	Psychology	San Francisco
Diana June Averdieck	Spanish	Larkspur
Stuart Carson Averill	Medical Sciences	Dixon
Charles Luther Babcock	Latin	Whittier
Leah Babitz	English	Berkeley
Mary Helen Bacon	Regional Group Major on France and French Colonies	Oakland
Patricia Arduite Bacon	Speech	San Jose
Thalia Marie Beharis	Paleontology	San Francisco
Henrietta Lee Bailey	Political Science	Berkeley
Nancy Nolen Bailey	Social Welfare	Berkeley
Ruth Bonita Bailey	Biochemistry	Long Beach
Viola Bajor	Social Welfare	San Francisco
Dorothy Libby Baker	General Curriculum	San Francisco
Helen Margaret Baker	Regional Group Major on Hispanic America	Berkeley
Silvio J Balestrini	Physics	Fresno
James Joseph Balistrieri	Psychology	Milwaukee, Wisconsin
Joan Louise Banks	General Curriculum	Petaluma
Gael Evelyn Barber	Spanish	Berkeley
Myra Helena Barnard	General Curriculum	Pasadena
Beverlee Marie Barnett	English	Modesto
Margaret Elizabeth Barnwell	International Relations	Berkeley
Elisa Maria Barrera A	Spanish, Regional Group Major on Hispanic America	Panama City, Panama
Phyllis Elizabeth Barry	Journalism	Los Angeles
Marjorie Eleanor Bartle	Social Welfare	Laytonville
William Elmer Bartley	Political Science	Los Angeles

Natalie Pyle Barton.....	Chemistry	Pasadena
David Alan Bary.....	Regional Group Major on Hispanic America	Berkeley
Edward Joseph Basile.....	Social Welfare	San Francisco
John Russell Bauer.....	Physics	Millbrae
Ulla Edwin Bauers, Jr.....	Journalism and Political Science	Oakland
Margaret Elise Baumberger.....	General Curriculum	San Francisco
Jean Carey Baxter.....	General Curriculum	Oakland
Edmond Victor Bayer.....	Zoölogy	Santa Rosa
Tracey Obed Beagle.....	Physiology	Salinas
Janice Ann Beanston.....	Physical Education	San Francisco
Roderick Whitney Beaton.....	Journalism	Stockton
Gerald Arthur Beatty.....	Economics	Oak Ridge, Tennessee
Marion Louise Bechter.....	General Curriculum	Burlingame
Charles Emilio Beckwith.....	General Curriculum	Fresno
Elizabeth Jeannette Beighau.....	General Curriculum	Los Angeles
Florence Vivian Belli.....	Zoölogy	Clifton, New Jersey
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William Tucker Bender.....	Medical Sciences	San Francisco
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Albert Salinger Bennett.....	Dramatic Art	Piedmont
Betty Lou Bennett.....	General Curriculum	Berkeley
Leon George Bennett, Jr.....	Zoölogy	Escondido
Howard Berenson.....	English	New York, New York
August Gehard Berger, Jr.....	Physics	Cedar Rapids, Iowa
Al Bermudez.....	Journalism	Avalon
Theodore Martin Bernardi.....	Journalism	Oakland
Darlene Alma Berry.....	History	San Francisco
Grant John Berry.....	General Curriculum	San Francisco
Yvonne Sammann Berry.....	General Curriculum	Berkeley
Pete Michele Berti.....	Geography	Napa
Bernadine Pauline Bertnik.....	General Curriculum	Los Angeles
Thomas Leland Bettencourt.....	Dramatic Art	Fresno
Gertrude Jeanne Billings.....	Spanish	Forestville
Betty Peggie Clydie Birch.....	Dramatic Art	Boise, Idaho
Ronald Stuart Birch.....	Medical Sciences	Alameda
Bonita Marie Bird.....	English	Richmond
Helen Gibson Bird.....	Zoölogy	Oakland
Lucille Terese Birnbaum.....	General Curriculum	Kansas City, Missouri
Donald Lavan Bittner.....	Physiology	Sacramento
Dorothy Jean Blackie.....	General Curriculum	South Gate
William Carew Blankenship.....	Physical Education	La Jolla
Kathleen Louise Blatz.....	General Curriculum	South Pasadena
Daniel Joseph Bleifer.....	Medical Sciences	Beverly Hills
Benjamin Bloom.....	Bacteriology	Modesto
Erving Malcolm Blum.....	Speech	San Francisco
Victor Bogart.....	Journalism	Redwood City
Bernice Margaret Bolander.....	Social Institutions	San Francisco
Mary Alice Bonar.....	General Curriculum	Berkeley
Lillian Michalczewska Bond.....	English	San Francisco
Phillida Campbell Bond.....	International Relations	San Marino
Orville Silseth Bonderud.....	English	San Francisco
Lynelle Virginia Bontems.....	Psychology	Glendale
William Edward Borowiak, Jr.....	Political Science.....	Buffalo, New York
David Bortin.....	Jurisprudence	Pasadena
Charles Edward Bosley.....	English	Milwaukee, Wisconsin
Josephine Angela Bosoni.....	General Curriculum	San Francisco
Ruth Tucker Bossieux.....	Sociology and Social Institutions.....	Dayton, Ohio
Richard Maxwell Bossone.....	General Curriculum	Narberth, Pennsylvania
Barbara Camille Boulton.....	History	Palo Alto
Robert Alwyn Bowers.....	Physics	San Jose
Joan Bowker.....	General Curriculum	Calexico

Walter Murdock Bowman	Medical Sciences	San Francisco
Beverly Lorraine Boysen	General Curriculum	Petaluma
Lillian Irma Bos	Spanish	San Francisco
Marilyn Marie Bradley	French	Sacramento
Norma Jean Bradley	Economics	Oakland
Garrett G Bradt, Jr.	General Curriculum	San Diego
Kenneth Francis Brasch	Physical Education	Oakland
Sheva Diane Braunstein	Speech	San Francisco
Patricia Ann Brennan	History	San Francisco
Mary Jane Brewster	Social Welfare	Oroville
Sarah Martha Brey	General Curriculum	Los Angeles
Marion Dora Brines	Decorative Art	Corona
Hasel Roberta Bristol	Physical Education	Fresno
Cornelia Bristow	General Curriculum	San Mateo
Philip Brodaky	Zoology	Brooklyn, New York
Ann Brookman	Political Science	Beverly Hills
Barbara Louise Brown	General Curriculum	San Francisco
Bernard Eldon Brown	Zoology	Downey
Morris Brown	Psychology	Alameda
Murray Brown	Political Science	Los Angeles
Nancy Mae Brown	General Curriculum	Berkeley
Robert Lewis Brown, Jr.	Jurisprudence	Butte, Montana
Shirley Jean Brown	General Curriculum	Alameda
William Charles Brown	General Curriculum	Ogden, Utah
H Dorothy Browne	Spanish	Oakland
Mary Brownlee	English	Yuba City
Howard Elmer Brownson	Philosophy	Richmond
Robert MacCartney Bruce	Psychology	San Fernando
Dilys Jean Brundige	Regional Group Major on Hispanic America	Rodeo
Palmira Marie Brunelli	Political Science	Diamond Springs
Barbara Pauline Brunk	Economics	Crescent City
Corinne Benedetta Bucchianeri	Spanish	San Francisco
Anthony Albert Buljan	Political Science	Folsom
Victor Craig Bull	Political Science	Oakland
Elroy Lorraine Bundy	Classics	San Francisco
Anita Burdman	General Curriculum	Los Angeles
Bert Burger	Economics	San Francisco
Sally Ann Burgess	Decorative Art	Berkeley
Anna Louise Burke	Social Welfare	Exeter
Rosemary Burke	General Curriculum	Watsonville
Mary Abigail Burleson	General Curriculum	Berkeley
Rosemary Burnell	Economics	Oakland
Jeffry Withers Burreas	English	San Francisco
Josephine Helen Butala	General Curriculum	San Francisco
Barbara Butler	Psychology	Hollywood
Alyce Marie Butterfield	Mathematics	Glendale
Don Francis Buttrick	History	Berkeley
Dorothy Munson Bynum	Art	Berkeley
Emily Joyce Byrd	English	Sacramento
Juliette Byrd	Music	San Francisco
Emanuel David Calamaro	French	Cairo, Egypt
Georgene Grace Calder	General Curriculum	Berkeley
Ellen Dorothy Caldwell	General Curriculum	San Diego
Grace Mary Campbell	Social Welfare	San Francisco
Janet Lenore Campbell	History	Pittsburg
Jean Eloise Canfield	Social Welfare	Lindsay
Jeanne Marie Cannon	Speech	Sacramento
William Francis Cano	Physiology	San Francisco
Marie Carlberg	Economics	Berkeley
Pauline Diana Carlin	Child Development	Modesto
Jane Olive Carlson	General Curriculum	Berkeley

Leanna May Carlson	Speech	Fresno
Charles Thomas Carman	Medical Sciences	Seneca, Kansas
Harry Parker Carpenter	General Curriculum	Oroville
Lawrence Alan Carson	Dramatic Art	Oakland
Silvia Casassa	Psychology	Napa
Richard Haynes Case	General Curriculum	El Cerrito
Mary Elizabeth Casey	Decorative Art	Oakland
Barbara Lord Cato	General Curriculum	San Francisco
Peter James Cerlanti, Jr.	Dramatic Art	San Francisco
Barbara Loraine Chambers	General Curriculum	San Diego
Euritt Oscar Chambers, Jr.	Psychology	Vallejo
Eleanor Chan	Social Welfare	Oakland
Maxwell Chaplin	International Relations	Claremont
Lawrence L Chapman	History	Berkeley
Julia Nixon Chase	Art	San Francisco
Sada Dolhinow Chernick	Mathematics	Yuba City
Ross Eugene Chichester	Journalism	Long Beach
Marjorie May Victoria Childs	Economics	New York, New York
Wing Quong Chin	Zoölogy	San Francisco
Anita Chinn	Physiology	Oakland
Franklin Jew Chinn	Physiology	Sacramento
Belle Lahn Chow	Biochemistry	San Francisco
Helen Chrissanthos	General Curriculum	Oakland
Donnabel Opal Christenson	Psychology	Los Angeles
Anna Beck Christofferson	General Curriculum	Richmond
Alfred Lowell Chu	General Curriculum	San Francisco
Marion Louise Churchill	Economics	Los Angeles
Daniel Richmond Chute	Economics	Pasadena
Shirley Marian Clabaugh	General Curriculum	Berkeley
Noel Clovis Clad	Economics	New York, New York
Dean James Clair	Medical Sciences	Los Angeles
Nancy Clapham	General Curriculum	Berkeley
Betty Rose Clark	Psychology	Walnut Creek
Carroll Lorraine Clark	Spanish	Long Beach
David Delano Clark	Physics	Austin, Texas
David Edward Clark	Journalism	Los Angeles
Ezra Ted Clark	Zoölogy	San Francisco
Margaret Marshall Clark	History	Oakland
Marilynn Mae Clark	Education	Billings, Montana
Mary Spencer Clark	General Curriculum	San Marino
Samuel Clark	General Curriculum	Los Angeles
Frank Anton Clarvoe, Jr.	General Curriculum	San Francisco
Marian Cleeves	General Curriculum	La Crescenta
Doris Irene Clinger	Physiology	Richmond
William Lyman Clithero	General Curriculum	Oakland
Everett Dwaine Clodfelter	Political Science	Forsyth, Montana
Richard Welton Coan	Psychology	Hollywood
Forrest Arthur Cobb, Jr.	Jurisprudence	San Francisco
Wilbur Ward Cobb	General Curriculum	Long Beach
Dixie Jean Coco	English	Long Beach
Bernhard Nathan Cohn	English	Menlo Park
Gerald Stanley Cohn	Mathematics	San Francisco
Esther D Cole	Psychology	Los Angeles
Thelma Bennett Cole	General Curriculum	Berkeley
Barbara Hunt Colegrove	Psychology	San Francisco
Nadyne Coleman	General Curriculum	Glendale
Elizabeth Charlotte Collins	Regional Group Major on Hispanic America	Santa Barbara
Jack Bernard Collins	Political Science	Alameda
Stephen Kirklen Collins	Safety Education	Berkeley
Sylvia Colorado	International Relations	Antioch
Helen Louise Combes	Psychology	South Pasadena

Robert Fulton Compton	Psychology	Glencoe, Illinois
William Richard Comstock	English	Berkeley
Beverly Elizabeth Conant	Decorative Art	Berkeley
Lorraine Gladys Cone	History	Oakland
Doris Elaine Conn	General Curriculum	Richmond
Virginia Corinne Conner	Psychology	Colorado Springs, Colorado
David Norman Cook	Physiology	Piedmont
Lorraine Elizabeth Cook	Political Science	Los Angeles
Barbara Elsie Cooke	Zoology	Santa Barbara
Martha Billie Cooley	Psychology	Houston, Texas
Erwin Cooper	Journalism	Claremont
William Lindley Cooper	General Curriculum	San Francisco
Helen Parker Coppia	History	Berkeley
Raymond Howard Coppock	Journalism	Exeter
William Daniel Corbett	Economics	Oakland
Fauno Lancaster Cordes	Psychology	San Francisco
Dorothy Jean Cort	Social Welfare	Sacramento
Beatrice Mahoney Cortes	Mathematics	San Francisco
Clive Cottingham, Jr.	Political Science	Buffalo, New York
Edith Irene Coupe	General Curriculum	Alameda
Janet Louise Couper	Decorative Art	San Luis Obispo
Barbara Anne Coyle	Psychology	San Diego
Frank Stevens Crawford, Jr.	Physics	Berkeley
Audrey Jane Creim	Mathematics	Sacramento
Janice Emma Crinklaw	Psychology	King City
Kay Jeanne Cronin	French	Berkeley
Paul Miles Crosby	Geography	St. George, Utah
Evelyn Avern Cross	History	Modesto
Horace Haight Crow, Jr.	General Curriculum	Sacramento
Carol Jean Cunningham	Physiology	Bakersfield
Dale Reed Cunningham	Social Welfare	Richmond
Mary-Jean Cunningham	Journalism	Berkeley
Kathryn Anne Cupid	Physical Education	Alameda
Winston Counsel Carrier	Political Science	Alameda
Ann Louise Cuzner	General Curriculum	San Marino
Harold Austin Dahlmeier	Political Science	Oroville
Alberta Dale	History	San Francisco
Michael Edward Darcy	General Curriculum	Orange, New Jersey
Thomas Malvern Dargie	General Curriculum	Oakland
Roy Everett Darke	Psychology	Bakersfield
Raymond Fredric Daamann	Zoology	San Francisco
Jack Pirnie Davidson, Jr.	Physics	Glendale
Anna Lois Davis	Journalism	Juneau, Alaska
Barbara Lee Davis	Decorative Art	Oakland
John Canterbury Davis	General Curriculum	Madera
John Newton Davis	Mathematics	Folsom
Carroll McComas Dawe	General Curriculum	Santa Cruz
Lois Rosemary Dean	Speech	Visalia
James Edmund Deasy	Political Science	Piedmont
Clara Naomi Deffenbaugh	General Curriculum	Kenwood
William Thomas Delany	American Civilization	San Francisco
Helen A Delegeane	English	San Francisco
Royce Deems Delmatier	History	San Francisco
Diane Jacqueline Denault	General Curriculum	Oakland
Joanne Charlotte Denham	History	Petaluma
Jerome Thomas Derylo	Art	Detroit, Michigan
Robert Milton Desky	Political Science	San Francisco
Doris Malson Dickenson	Psychology	San Francisco
Lawrence Erwin Didier	General Curriculum	San Francisco
Anthony DiGenova	Psychology	San Francisco
John Benedict Dillon	Criminology	Long Beach
LaVerne Dillon	General Curriculum	San Francisco

Clyde Arnold Dodge	General Curriculum	Berkeley
Leo Cooksey Dodson, Jr.	English	Berkeley
Genevieve Elizabeth Doherty	German	San Francisco
Mary Ellen Dolcini	Regional Group Major on Hispanic America	Davis
Alexander Melville Dollar	Criminology	Long Beach
Robert Charles Dolman	General Curriculum	Oakland
Gilbert Kern Dong	General Curriculum	San Francisco
Mildred Lucille Donnelly	Political Science	Colton
William Christian Doughty	Religion	Oakland
Ernest Bernard Douglas	Music	Phoenix, Arizona
Vivian Dubinsky	General Curriculum	Los Angeles
Margaret Adela DuBois	General Curriculum	Oakland
Novadean Duffel	General Curriculum	El Cerrito
Norma Elaine Dugan	General Curriculum	Alhambra
Shirley Jeanne Dulaney	History	Kansas City, Missouri
BettieLu Dunbar	History	Los Angeles
Andrew Merrill Durham	General Curriculum	Berkeley
Roberta Cheryl Dutral	Physical Education	San Leandro
Christopher Dyer-Bennet	Political Science	Berkeley
Claire Marie Eagan	History	San Francisco
James Thornton Easler	Economics	Moccasin
Esther Irene Eastvold	Zoölogy	Stockton
Clyde Bradford Eaton, Jr.	Astronomy	Monrovia
Nancy Jeanne Eaton	Zoölogy	Los Angeles
Patricia Faber Eaves	General Curriculum	Palo Alto
Charles William Ebeling	Speech	San Francisco
Valerie Carvell Eccleston	Spanish	San Francisco
Thomas Martin Eckhardt	Jurisprudence	San Bernardino
William Herbert Edmisten	General Curriculum	Topeka, Kansas
Eleanor Wilder Edmund	General Curriculum	Ben Lomond
Alice Lucille Ede Edwards	General Curriculum	Berkeley
Elizabeth Anne Edwards	General Curriculum	Walnut Creek
Evelyn Esther Efron	General Curriculum	San Diego
Charles William Ehlers, III	Physiology	Oakland
Joseph Ehrman, III	Education	San Francisco
Norma Jean Eiben	Public Relations	Berkeley
Bernard Irving Eisenberg	General Curriculum	Berkeley
Janice Marta Eisert	History	Alameda
Isabelle Ann Elkins	Political Science	Pacific Grove
Jean Louise Elledge	Political Science	Berkeley
Harold Albert Elliott	Physics	Del Mar
Richard Rountree Elliott	General Curriculum	Berkeley
Harlan Fred Ellis	General Curriculum	Vallejo
Celia Catherine Elmore	General Curriculum	Berkeley
Leona Ann Elskan	General Curriculum	Texarkana, Texas
Elaine May Ely	Decorative Art	San Francisco
Jean Anderson Embree	English	Hayward
Joan Webster Emmett	Journalism, History	Berkeley
Arno Wendell Enns	Religion	Reedley
Thea Margaret Erickson	Political Science	North Sacramento
Shirley Ann Ernst	Political Science	Los Angeles
Leo Arthur Estel	Anthropology	Coachella
Charles Samuel Evans	Jurisprudence	Austin, Texas
Elizabeth Carolyn Evans	General Curriculum	Oxnard
Evan Cyfeiliog Evans, III	Physics	San Rafael
Eleanor Margaret Fahning	Chemistry	Los Angeles
Wilfred A Fairweather	General Curriculum	Seward, Alaska
Elizabeth Ann Falconer	English	Berkeley
Norma Virginia Fantozzi	Speech	Berkeley
Jack Harry Farber	Social Welfare	Bronx, New York
Carl Alexander Farden, Jr.	Economics	Kaneohe, Oahu, Territory of Hawaii

Margaret Elizabeth Farnham	Physical Education	Glendale
Margaret Bradshaw Fay	International Relations	Berkeley
William Merrill Fay	French	Berkeley
Hilda Libby Feinberg	Psychology	San Francisco
Robert Steven Feldman	Medical Sciences	San Francisco
James Martin Felts	Physiology	Austin, Texas
Victor Christopher Ferkias	Political Science	Richmond Hill, New York
Elsie Kathleen Ferrando	Italian	Richmond
Evelyn Edythe Filice	Spanish	San Francisco
Irene Agnes Finkbohner	Music	Albany
Patricia Ann Finley	English	Wellington, Kansas
Mary Ellen Finn	General Curriculum	Albany
Winthrop Fish	Physiology	Beverly Hills
Jack Arthur Fisher	Medical Sciences	Pacific Palisades
Robert Hasbrouck Fitch	Economics	Berkeley
Kenneth Carlisle Fitzgibbons	General Curriculum	Paso Robles
Ann Caroline Fitzsimons	General Curriculum	Charlotte, North Carolina
Alan Fixler	Medical Sciences	Los Angeles
Rupert Edward Fixott	General Curriculum	Portland, Oregon
David Flamenbaum	Zoölogy	New York, New York
Bernard Roscoe Flanagan	General Curriculum	Corning
Edith Estelle Fleming	Education	Richmond
John Scott Fleming	Jurisprudence	Reno, Nevada
Eleanor Floersheim	General Curriculum	Springer, New Mexico
Curtis Lee Floyd	General Curriculum	San Francisco
Roland Bryant Foerster	Jurisprudence	San Lorenzo Village
William Edwin Fogg	Psychology	Long Beach
Norman Grant Foley	Geography	Albany
William Louis Fontenrose	Physical Education	Berkeley
Rosalie Annabelle Foss	Sociology and Social Institutions	Missoula, Montana
Margaret Abbott Foster	General Curriculum	San Francisco
Herbert Strain Fowler	Journalism	San Francisco
Marilyn Janet Fowler	General Curriculum	San Leandro
Virginia Claire Fowler	Far Eastern Studies	Phoenix, Arizona
Jean Marie Francis	General Curriculum	Santa Ana
Marion Warren Francis	General Curriculum	Santa Ana
Kenneth Linn Franklin	Astronomy	Oakland
William Henry Frapwell	Physiology	Santa Cruz
Lois Marie Frazier	Political Science	Sacramento
Lois Virginia Frazier	English	Glendale
David Allen Fredrickson	Anthropology	Redwood City
Analee Phyllis Freeman	Art	San Francisco
Janet Ann Freeman	Political Science	Los Angeles
Natalie Marilyn Freid	Psychology	Chicago
Reva Lorraine Freidberg	Social Welfare	Sacramento
Fae McFeely Frick	Philosophy	Albany
Barbara Topping Fridell	General Curriculum	Berkeley
Emanuel Friedman	Zoölogy	Jersey City, New Jersey
Florence Frisch	Social Welfare	Los Angeles
Harry Kier Fritchman, II	Zoölogy	Boise, Idaho
Marjorie Ruth Frits	Social Welfare	Richmond
Lorayne Beverly Froehner	English	Clearlake Highlands
William Robert Gaffey	Psychology	Whittier
Ralph E Gallo	Spanish	Long Beach
Shirley Andrea Galvin	Economics	Redwood City
Janice Katharine Gardiner	General Curriculum	Bakersfield
Betty Jean Garretson	General Curriculum	Los Angeles
Nancy Russel Garrett	General Curriculum	Louisville, Kentucky
Robert Eugene Gasber	Medical Sciences	Antioch
Barbara Gay	Psychology	Beverly Hills
Chesley Norton Gaylord	Zoölogy	Turlock

Thomas Donald Geary	General Curriculum	Santa Rosa
Gail White Gee	Political Science	Oakland
Margaret Gee	Physics	Berkeley
Beverly Jean Geiger	History	Visalia
Doris Louise Gere	International Relations	Berkeley
Peter Albert Germain	International Relations	Fowlerville, Michigan
Frank Clifford Gettman	Bacteriology	Claremont
Robert Manitou Gibbs	History	Santa Cruz
Shirley Gibson	General Curriculum	Piedmont
Steve Gierman	Zoölogy	Raymond, Washington
Harold Stanley Gilbert, Jr.	General Curriculum	San Francisco
William Spencer Gilbert	Physics	Kingston, New York
Thomas Ponce Gill	Political Science	Honolulu, Territory of Hawaii
William Stewart Gillies	General Curriculum	Sacramento
Allan Emory Gilmore	Criminology	Riverside
James Floyd Gilpin	Geophysics	Visalia
Donald Edward Gleason	Medical Sciences	New York, New York
Ruth Desdamona Gleason	English	Garland, Utah
Francis Herbert Godec	General Curriculum	Fortuna
Doris Jean Goff	General Curriculum	Walnut Creek
John Francis Goins	Anthropology	Oakland
Frank Solomon Gold	Physiology	San Francisco
Robert Calvin Goldberg	Zoölogy	Sacramento
Sybil Franceine Goldenberg	General Curriculum	Los Angeles
Leroy Goldfinger	Mathematics	New York, New York
Donald Joseph Gonzalez	Economics	Stockton
Marjorie Helen Goodwin	Physiology	Orinda
Barbara Lee Gordon	French	Berkeley
Charlotte Elizabeth Gordon	Art	Suisun
David John Gordon, Jr.	Jurisprudence	Oakland
Robert Morris Gordon	Psychology	New York, New York
Frank A Gotch	Medical Sciences	San Francisco
Pauline Gottfried	English	San Francisco
Gloria Ruth Govan	Speech	Piedmont
Helen Pauline Grace	Psychology	Visalia
James Howard Graham	General Curriculum	Bakersfield
Warren Ryan Graham	Psychology	New York, New York
Barbara Jean Grant	Political Science	Oakland
Barbara Anne Gray	General Curriculum	San Dimas
Frederick Lyle Gray	Physiology	Sacramento
Marcia Ellen Gray	Journalism	Piedmont
Arthur Eartheil Green	Economics	La Junta, Colorado
David Armstrong Green	Art	Visalia
Irving Joseph Green	Physiology	San Francisco
Kenneth Alden Green	Psychology	Berkeley
Burton Marvin Greenberg	Economics	San Francisco
Phyllis May Greenly	Sociology and Social Institutions	San Francisco
Eleanor Rosalie Greer	Physiology	Berkeley
Robert James Greer	Physiology	Oakland
Myrna Adele Gregory	Sculpture	Los Angeles
Philip James Gregory	Political Science	Berkeley
Jacqueline Lucas Griffin	General Curriculum	Berkeley
Philip Lewis Griggs	Speech	Claremont
David Bailey Grigsby	Geological Sciences	Redlands
Frances Nadine Grimes	Psychology	Highland Park, Illinois
Marianna Grimes	Political Science	Yellow Springs, Ohio
Arnold Albert Grossman	General Curriculum	Napa
Clare Morris Grossman	Social Welfare	Long Beach
Elizabeth Stanley Maynard Grubb	English	Montreal, Canada
John Joseph Grubb	Zoölogy	San Jose
Phyllis Hughes Grumm	Political Science	Pasadena

Fred John Gunn, Jr.	Psychology	San Diego
Ray Howard Guseman	Political Science	Long Beach
Lino Mario Guslani	Economics	South San Francisco
William Gibbs Gwynne	International Relations	Alameda
James Robert Hafley	English	Oakland
Albert Daly Hall	Zoölogy	Cupertino
Frank Arthur Hall	International Relations	San Francisco
Richard Thomas Hall	Physical Education	Payette, Idaho
Phillip Lloyd Ham	Social Welfare	San Diego
Jacqueline Lucille Hamilton	Bacteriology	San Diego
John Lenox Hamilton, Jr.	General Curriculum	Oakland
Warren Kent Hamilton	General Curriculum	Los Altos
Edward Jay Hampel	Economics	Oakland
Rosalie Garce Hamric	English	Washington, District of Columbia
Roy Elmore Hamrick	General Curriculum	San Leandro
Elisabeth Frederick Haney	English	Oakland
George Ira Haney, Jr.	Political Science	Berkeley
Charles Ernest Hanger	Jurisprudence	Berkeley
Claire Elinor Hansen	Economics	Fresno
Wendelborg Hansen	General Curriculum	Monterey
Raphael Mark Hanson	Psychology	Stockton
Richard Paul Hanson	History	Milwaukee, Wisconsin
Vernon Carroll Hanson	History	Alameda
David Hardy	Jurisprudence	Los Angeles
Marilyn Sue Hardy	General Curriculum	Artesia
Sylvia Jane Harlow	Far Eastern Studies	Richmond
Elizabeth Ann Harper	General Curriculum	Albion, Nebraska
Marie Pauline Harrell	Regional Group Major on Hispanic America	San Francisco
Annette Francis Harris	Regional Group Major on Hispanic America	Long Beach
David Arthur Harris	Medical Sciences	Santa Barbara
Mary Jane Harris	History	Santa Maria
Phyllis Harris	General Curriculum	Los Angeles
William James Harris, Jr.	Economics	Palo Alto
Louise Remmen Hartsook	General Curriculum	San Diego
Minnie Jayne Harvey	General Curriculum	Richmond
Midori Hashimoto	Political Science	Alameda
Sally E Hatfield	Zoölogy	Berkeley
Barbara Carol Haupt	Social Welfare	Los Angeles
Audrey Yvonne Havenstrite	General Curriculum	Sebastopol
Shigeyo Jane Hayashi	Physiology	Berkeley
Kenneth Hayes	Zoölogy	Berkeley
Richard Oliver Hayes	Zoölogy	Bakersfield
Donald Scott Haymond	General Curriculum	Berkeley
Jean Elizabeth Heaps	General Curriculum	Boone, Iowa
Harry Hughes Heckman, Jr.	Physics	Anaheim
Harold Henry Heekin	Political Science	Los Angeles
Marilyn June Heinrich	Economics	Twin Falls, Idaho
Otto Heinz	Physics, Mathematics	Berkeley
Jean Dunham Helfer	Social Welfare	Monrovia
Arthur Maurice Louis Heller	English	Brooklyn, New York
Thomas James Heller	General Curriculum	Berkeley
Ruth Marie Helm	English	Oakland
Richard Pusey Henderson	Social Welfare	Taiku, Korea
Daniel Zwie Henkin	General Curriculum	Washington, District of Columbia
Mary Cleveland Henning	English	San Francisco
Victor Edward Henny	Chemistry	Berkeley
William Louis Henrikson	Psychology	Oakland
Mary Louise Henry	Astronomy	Los Angeles
Jean Hepfer	Journalism	Berkeley

Jeanette L Herman	General Curriculum	Richmond
Margie Blanche Herman	Social Welfare	Los Angeles
David Nelson Herzig	Medical Sciences	Los Angeles
Helen Lois Herzstein	General Curriculum	Dallas, Texas
Beatrice Hess	Social Welfare	Seattle, Washington
Clarence Victor Hess	Psychology	Bellflower
George Paul Hess	Biochemistry	Los Angeles
Harriett Andrea Hess	General Curriculum	Pasadena
Leonard Hesterman	Psychology	Boston, Massachusetts
Alan Lionel Heyneman	General Curriculum	San Francisco
Dorothy Dickinson Heywood	Political Science	Pasadena
Edythe Anne Hickman	History	San Francisco
David B Higgins	Social Welfare	Hayward
June Claire Hill	Regional Group Major on Hispanic America	Piedmont
Robert William Hill	Physiology	Monterey
Richard Warren Hillendahl	Physics	Oakland
Gerald Joseph Hills	General Curriculum	Rensselaer, New York
Merton Edward Hinshaw	Zoölogy	San Francisco
Masako Hiramoto	Zoölogy	Lodi
Robert Orr Hirschfelder	General Curriculum	Ventura
Barbara Joan Hirschler	Child Development	Berkeley
Gloria Bernice Hoffman	Criminology	San Francisco
Hyman Hans Hoffman	Psychology	Los Angeles
Jackson Harold Martin Holbrook	History	San Leandro
William Lee Holladay	Greek	Oakland
Janet Marcheta Marth Holling	Mathematics	Richmond
Margaret Grace Holloway	Social Welfare	Redlands
John Warfield Holmes	International Relations	Berkeley
Sally Ruth Holt	Social Welfare	Pasadena
Yvonne Mae Holt	Psychology	El Monte
Van Eldon Holzschuh	Psychology	Vallejo
David J Honegger	General Curriculum	Oakley
Virginia Louise Hooten	General Curriculum	Los Angeles
William Eugene Hoskins	Biochemistry	Lafayette
James Miller Hotchkiss	Psychology	Berkeley
Herbert Gerald Hotchner	Political Science	Redwood City
Jack Howard	Political Science, Journalism	Santa Ana
Jean Howden	Psychology	Berkeley
Frederick Kilgore Howell, Jr.	Economics	Altadena
Mary Virginia Howell	Philosophy	Pasadena
Norma Jean Howell	Regional Group Major on Hispanic America	San Francisco
Alice Theresa Hribal	Physiology	Long Beach
Emilie Austin Hubbard	International Relations	Pasadena
John Ladd Hubbard	General Curriculum	Encinitas
Earl Leavitt Hubbs	Wildlife Conservation	La Jolla
Eugene Charles Huber	Physical Education	San Francisco
Richard Harold Huddleston	Physics	Berkeley
Julian Huebscher	Chemistry	Los Angeles
Robert Louis Hughes	Political Science	Oakland
Robert Edward Humpert	Physical Education	Napa
Peter Joseph Hunt	Speech	Berkeley
Ruth Donell Hunter	Social Welfare	Petrolia
Robert Reuben Hurwitz	Jurisprudence	Orange
Norman Frederick Hutchings	General Curriculum	San Francisco
Robert Elmo Hutchinson	Economics	Reno, Nevada
Leo Huzieff	General Curriculum	Kobe, Japan
Marilyn Ruth Hynes	Economics	San Francisco
Charles Raymond Illick, Jr.	Music	Santa Paula
Edwin Laurence Iloff	Physics	Chico
Nancy Eleanor Ingraham	Decorative Art	Oakland

Alexander Ingram, Jr.	Physical Education	Berkeley
Yoshio Isono	Physical Education	Oakland
Emmie Iwamoto	Social Welfare	Sacramento
Fumi Iwata	General Curriculum	Stockton
Joseph Louis Izenstark	Medical Sciences	Beverly Hills
Rosalyn Jackler	Psychology	Los Angeles
Mary Fox Jackman	Economics	San Jose
Jay Jackson, Jr.	General Curriculum	San Jose
Marilyn Jackson	Decorative Art	Berkeley
Ruth A Jackson	Journalism	San Francisco
Stanley Joshua Jacobs	History	Richmond
Melville Seymour Jacobson	Physiology	Sharp Park
Barbara Jaeger	Psychology	San Francisco
Joan Elizabeth Jaffe	Psychology	Oakland
Aaron H Jaffe	Zoology	Oakland
Vivian Edith Jaffe	Psychology	Brooklyn, New York
Arlene Thomas James	General Curriculum	Oakland
Edith Richt James	General Curriculum	Hollywood
Melvina Hulda Jarvis	Political Science	Sacramento
James Edmund Jefferis	History	Grass Valley
Alno Soeth Jenkins	Zoology	Oakland
Leonie Logan Jenkins	Biochemistry	Berkeley
Willie LeRoy Jenkins	General Curriculum	San Francisco
John Louis Jennings	Political Science	Jerseyville, Illinois
Elizabeth Ann Jerrel	Zoology	Berkeley
Elinor Gerta Jess	History	San Francisco
Millicent Glow Jeesee	English	Hayfork
Melvin Svend Johnsen	Political Science	Loleta
Arnold Carl Johnson	Regional Group Major on Hispanic America	San Jose
DeWayne Burton Johnson	Journalism	Long Beach
Ivar Howard Johnson	Education	Oakland
Lucia Palmer Johnson	Political Science	New York, New York
Robert Francis Johnson	Geological Sciences	Oakland
Willard Parker Johnson	General Curriculum	Austin, Texas
Kenneth Gordon Johnston	Journalism	Oceanside
Howard Edgar Jones	History, Jurisprudence	Presho, South Dakota
Meredith Leam Jones	Zoology	Sacramento
Farnham Stewart Jory	Physics	Berkeley
Joyce Miriam Joseph	Zoology	San Francisco
Dorothy Berry Joy	Social Welfare	Livermore
Arleen Harriette Judd	English	Los Angeles
Daniel Clay Jupp	English	Long Beach
Kathleen Marie Kaehler	General Curriculum	San Mateo
Bernard Israel Kahn	Political Science	San Francisco
Helen Gressang Kangieser	English	Oakland
Stephen Kantor	Zoology	Los Angeles
Carolyn Thoop Karpinski	English	Berkeley
Earnest Joji Kashiwase	General Curriculum	Oakland
Jacob Edwin Kasten	General Curriculum	Burlingame
Daniel Ernest Kay	Political Science	Los Angeles
Ruth Anne Kay	General Curriculum	San Francisco
Karl Robert Keithahn	Political Science	Berkeley
Suzette Ellen Keller	General Curriculum	San Gabriel
Virginia Louise Kelly	Political Science	
	Washington, District of Columbia	
John Delamere Kelsey	General Curriculum	Berkeley
Barbara Claire Kempe	General Curriculum	Fort Bragg
Joyce Fothergill Kendall	Regional Group Major on Hispanic America	Martinez
Ira Gale Kennison	Bacteriology	Oakland
Alice Reid Kerns	English	Portsmouth, Virginia

Margaret Louise Kerr	Physical Education	Carmel
Margaret Mee Kershaw	Political Science	Berkeley
Wilbur Keith Kessler	Political Science	San Jose
Suzanne Keyes	Social Welfare	Berkeley
Elizabeth Cox King	Social Welfare	Westley
Margaret Ann King	General Curriculum	Long Beach
Mervyn Bruce Kipnis	Physiology	San Francisco
Albert John Kirschbaum	Physics	Berkeley
Saul Kit	Biochemistry	Passaic, New Jersey
Troy Hampton Kitchens	Journalism	Visalia
Theodore Alexander Klaseen, Jr.	Economics	Oakland
Harold Eugene Klein	Political Science	Redlands
Jan Roelof Klinkert	Journalism	Rotterdam, Netherlands
Lawrence Yelland Klippel	General Curriculum	Sacramento
Daniel Bright Knapp	General Curriculum	Detroit, Michigan
John Russell Kniffen, Jr.	Political Science	Bakersfield
James Harry Knight, III	Medical Sciences	Kingman, Arizona
Catherine Ann Knittle	Political Science	Sacramento
Franklin David Knofler	General Curriculum	San Francisco
James Edward Knott, Jr.	International Relations	Davis
Jack Lewis Kohler	Zoology	Oakland
Gregers Louis Krabbe	Mathematics	Bellingham, Washington
Lenore Kramer	Psychology	Sausalito
George Kreshka	Slavic Languages	Bethlehem, Pennsylvania
George Hubert Krueger	General Curriculum	Concord
Rita Rose Kruse	Bacteriology	Sacramento
Alexander Mark Kuritzkes	Zoology	Brooklyn, New York
Irving Ira Kweller	General Curriculum	Brooklyn, New York
Andrew Kwok	Psychology	Sacramento
Edward C Lahey	General Curriculum	Oakland
Paulette Anne Lalanne	French	San Francisco
Walter Robert Lamb	Physics	Mountain Home, Idaho
Henri Paul LaMont	Physiology	Los Angeles
Barbara Jean Lance	Sociology and Social Institutions	Oakland
Drusilla Claire Lane	Psychology	Oakland
Preston Arthur Lane	Economics	Oakland
Mildred Ardell Lapp	Decorative Art	Grand Junction, Colorado
Philip Dean LaRiviere	Physics	Berkeley
Edwin Davis LaRue, Jr.	Far Eastern Studies	Verona, New Jersey
Marjorie Ida Laundry	Social Welfare	Oakland
Luigi Mario Laurenti	Economics	Los Angeles
Dean Carlos Lauritzen	Political Science	Victor, Idaho
Phyllis Dora Lavers	General Curriculum	Berkeley
Dan Delton Law	Bacteriology	Richmond
Carol Mae Lawton	General Curriculum	Berkeley
Berniece Josephine Lazaga	Decorative Art	Berkeley
Victor Mishail Lazar	Physiology	Turlock
Dorothy Mildred Lazenby	Art	Berkeley
Thelma Elsie Leak	General Curriculum	San Leandro
Richard Gerald LeClair	General Curriculum	San Diego
Billy Elbert Lee	Political Science	San Francisco
Henry Kuang-chen Lee	Political Science	Nanking, China
James Geoffrey LeeLum	Physiology	
	Port-of-Spain, Trinidad, British West Indies	
Roslyn Helene Leff	Psychological Approach to Social Sciences	Long Beach
Herbert Lehmann	Medical Sciences	Berkeley
Burton Henry Lemons	Sculpture	LaMesa
Mary Joan Leonard	History	Folsom
Charlotte Evelyn Lester	Far Eastern Studies	La Cañada
Grace Levine	Psychology	Berkeley

Saul Levine	General Curriculum	Los Angeles
Rosabelle Virginia Lew	Social Welfare	San Francisco
Henry Arthur Lewicki, Jr.	General Curriculum	Alameda
Barbara Jeanne Lewis	Political Science	Oakland
Glenn Edwin Lewis	Mathematics	Santa Rosa
Jane Lynette Lewis	Regional Group Major on Hispanic America	Crockett
Philip Grover Lichtenstein	Physics	Brooklyn, New York
Shirley Brown Lichtenstein	Economics	Tacoma, Washington
Bennie Wahhon Lim	General Curriculum	Stockton
Domingo Lim	Political Science	Manila, Philippines
Helen Tucker Linde	Philosophy	Portland, Oregon
Harrie Jean Lindeman	Decorative Art	Farmington, Utah
Margaret Jean Lindsay	Child Development	Berkeley
Patricia Linforth	Philosophy	Berkeley
Margaret Jeanne Linton	General Curriculum	Redding
John Lewis Linville	Medical Sciences	Oakland
Phyllis Irene Livingston	General Curriculum	San Gabriel
Ray Elwood Loehr	General Curriculum	Sacramento
Florence Mabel Suzanne Loftus	History	San Francisco
Lillian Maureen Looman	Physical Education	San Leandro
Lea Lorber	Social Welfare	Portland, Oregon
Gloria Kneiss Lord	General Curriculum	Berkeley
Lloyd Edward Lorentzen	History	San Leandro
Robert Paul Lorenzen	Music	Oakland
Elizabeth Ann Lose	Psychology	San Francisco
Stewart Crowell Lots	Zoology	Oakland
Marion Irene Loucks	General Curriculum	Walnut Grove
Bailey Jackson Lovin, Jr.	Medical Sciences	Oxnard
James LeRoy Lucas	History	Tulare
Joanna Mary Lucas	Journalism	Berkeley
Robert Rotger Lucas	Political Science	San Jose
Patricia Rose Lucchetti	Spanish	San Francisco
James Kent Luce	Geological Sciences	San Diego
Mary Frances Ludeke	Education	Oakland
Carol Jean Luff	Regional Group Major on Hispanic America	North Hollywood
Fredrick William Lumbard	Industrial Design	San Gabriel
Robert Charles Lutz	Political Science	West Los Angeles
John Daniel Lyding, Jr.	Economics	Chicago, Illinois
James Bert Lytjen	Physical Education	Napa
Harry Edwin McAfee	Physics	Piedmont
Gordon Leslie McAndrew	Political Science	Oakland
Jeanne Marie McAtee	General Curriculum	San Francisco
Ethelmae McAuley	Social Welfare	Oakland
Beth Leonora McCann	International Relations	Gerber
Doris Jean McCann	Recreation	Berkeley
Clifford Edwin McClain	Physical Education	Del Rey
Lorraine Beth McConnell	Psychology	Tacoma, Washington
Charlotte Mary McCord	English	Berkeley
Virginia McCormick	Psychology	San Diego
William Russell McCormick	Economics	San Diego
George Ernest McDaniel, Jr.	Physiology	Porterville
Margaret Jean McDaniel	Physical Education	Porterville
Charles Robert McDonald	Philosophy	Sacramento
RoseMarie McDonnell	History	San Francisco
Alden McElrath	Geology	Oakland
Norman Ernest McFate	General Curriculum	Ordway, Colorado
Merritt Wilson McGahan	General Curriculum	Hanford
Phyllis MacGavin	General Curriculum	San Francisco
Patricia Floy McGee	Economics	Long Beach
Frederick King McGill	Education	Berkeley

Wayne McGuire	Jurisprudence	Berkeley
Richard Albert McIntosh	General Curriculum	Berkeley
William Chester McIntosh	Mathematics	Puente
Ray Willson McIntyre	Music	San Jose
Roderick Edward MacIvor	Economics	Sausalito
Carol Ann MacKenzie	General Curriculum	Glendale
Burdette Jones McKinnis	Geography	Sacramento
Leslie Mackoff	Zoölogy	Spokane, Washington
Grady Louis McMurtry	Philosophy	San Francisco
Jean M McNab	Child Development	Berkeley
John Edwin McNickles	History	Long Beach
James Morris McSherry	International Relations	Watsonville
John Joseph Madden, Jr.	Political Science	San Pedro
Barbara Rosemary Maggio	General Curriculum	San Francisco
Robert Krengel Maggy	Mathematics	Fresno
Jean Frances Mahan	General Curriculum	San Francisco
Annemarie Mahler	General Curriculum	New York, New York
Nancy Majors	General Curriculum	Piedmont
George Makaroff	General Curriculum	San Francisco
Suzanne Marie Mangin	Art	Millbrae
Barbara Elizabeth Mann	General Curriculum	Berkeley
Muriel Jean Mannerberg	French	Oakland
Mary Elinor Mansfield	English	San Francisco
Joan Juliana Mape	Personnel and Industrial Relations	San Mateo
Maryellen Quick Mapes	Journalism	Bellflower
Jean Elizabeth Maples	English	San Francisco
Georgia Frances Marcus	History	Oakland
Noela Lucie Marin	Music	Oakland
Silviano Marin	General Curriculum	Grass Valley
Marie Erica Mark	Journalism	San Francisco
Elaine Marple	General Curriculum	Davis
Helen Ann Marshall	General Curriculum	Atherton
Alice Gertrude Martinelli	Art	Watsonville
Ann Marie Martinovich	History	San Francisco
Stanley Takashi Marubayashi	Physics	Berkeley
Clark Walton Maser	Political Science	Santa Ana
Cornelia June Mason	General Curriculum	San Francisco
Peter Hotchkiss Masson	Geological Sciences	Dunsmuir
Richard Cavins Matherson	Economics	Berkeley
LaFayette D Mathews, Jr.	Economics	Oakland
Edward Santi Matteoli	Physical Education	Asti
Martha Jane Graham Matthias	General Curriculum	Oakland
James Acker Mattison, Jr.	Medical Sciences	Glendora
Dorothy Helene Matzger	Psychology	San Francisco
Alan Max Maurer	General Curriculum	Long Beach
Paul F Mauricio	Political Science	San Francisco
Justina Barbara Maus	General Curriculum	Minneapolis, Minnesota
Frederick Edward Mayer	Art	San Francisco
Wilbur Waldo Mayhew	Zoölogy	Turlock
Sylvester Warren Mead, III	Physics	Davis
Winsor Boyden Meals	Physics	San Francisco
Patricia Ann Meier	Education	San Francisco
Maxine Melberg	Dramatic Art	Rio Del Mar
Marian Lois Melrose	English	Modesto
Marilyn Mae Menzies	Music	Modesto
Marilyn Maxine Merk	English	Long Beach
Edward Leslie Merrill	Political Science	Oakland
Avis Roberta Merriman	General Curriculum	Berkeley
Jules Mersel	Physics, Mathematics	New York, New York
Betty Sue Metzger	General Curriculum	San Diego
Harry Metzger	Chemistry	Fresno
Doris Christine Meyer	Physical Education	San Francisco

Peggy Jane Meyers.....	Physics	San Francisco
E Philip Michaels.....	Economics	San Jose
Susan Margaret Miles.....	Physical Education	San Francisco
Adam David Miller.....	General Curriculum	Orangeburg, South Carolina
Boris Carl Miller.....	Bacteriology	Chicago, Illinois
Frederic Young Miller.....	Medical Sciences	Ontario
Gerson Frederic Miller.....	General Curriculum	New York, New York
Patricia Jane Miller.....	History	Oakland
Phyllis Elaine Miller.....	History	Sacramento
Richard Stanley Miller.....	Political Science	Oakland
Robert Ryal Miller.....	Regional Group Major on Hispanic America	Oakland
Mary Katherine Mills.....	General Curriculum	Hamilton City
Charles Milovich	General Curriculum	Burlingame
Charles William Mink.....	Physics	Merced
Betty Brent Mitchell.....	English	Piedmont
Jean Claire Mitchell.....	Political Science	San Francisco
Arlang Moen	Political Science	Fontana
Betty Anne Mogilner.....	Psychology	Beverly Hills
Nancy Miles Moore.....	Physiology	Santa Cruz
Keith Herbert Morehouse.....	Anthropology	San Francisco
Dewel Eugene Morgan.....	Zoology	Baldwin Park
Lloyd Nohrden Morgan.....	International Relations	San Francisco
Virginia Merchant Morgan.....	Music	Berkeley
Agnes Taeko Mori.....	General Curriculum	Oakland
Gloria Joan Moriarty.....	Spanish	Berkeley
James Morton Morley.....	General Curriculum	Berkeley
Austin Paul Morris.....	Jurisprudence	Piedmont
Jean Lee Morris.....	General Curriculum	Oakland
Eleanor Morse	General Curriculum	Berkeley
Allan Thorton Moss.....	General Curriculum	San Francisco
Chester Joseph Mott, Jr.....	Physics	Baldwin, New York
Jerome Arthur Motto.....	Medical Sciences	Santa Barbara
Raymond Edward Mueller.....	Criminology	Berkeley
Lillian Catherine Mullen.....	History	Elk Grove
Virginia Helen Mullen.....	History	Elk Grove
Robert Eugene Muller.....	Political Science	Oakland
James Stanley Munn.....	Political Science	Piedmont
Jeanne O'Connor Murgatroyd.....	English	San Francisco
Kay Kikuko Murota.....	Physical Education	San Francisco
Charles Patrick Murphy, Jr.....	Political Science	Vallejo
Julia Anne Murray.....	Political Science	Palo Alto
Harry Robert Musselman.....	General Curriculum	Seattle, Washington
Esther Fukiye Nagao.....	Bacteriology	Berkeley
Jacqueline Constance Naggiar.....	English	San Francisco
Jay Norman Natho.....	General Curriculum	Highland Park, Michigan
Roserie Navarro	Spanish	Monterey
Lowell Wealey Near.....	Economics	Inglewood
Dawn Neher	English	Lakewood, Ohio
Curtiss Roe Neideffer.....	Psychology	Bakersfield
Jean Kathryn Neilson.....	Political Science	Woodland
Betty Jean Nelson.....	History	Oxnard
Calvin Clayton Nelson.....	Psychology	San Diego
Clyde Alexander Nelson, Jr.....	Economics	Petaluma
Mylon Harold Nelson.....	General Curriculum	Long Beach
Vivian Lavina Nelson.....	Psychology	Oakland
Larold Marvin Nervig.....	Economics	Sacramento
William Lawrence Newell.....	General Curriculum	Oakland
Gloria Winden Newquist.....	Journalism	Los Angeles
Mary Patricia Nichols.....	Regional Group Major on Hispanic America	Placerville

Angeline Nicholson	General Curriculum	Davis
Marion Emory Nicoson	Psychology	Livermore
George James Nicou	Economics	Vallejo
Marjorie Lingard Nield	Social Welfare	Alameda
Raymond Halvorsen Norheim, Jr.	Psychology	Chico
Thyra Jacquelyn Norman	Psychology	Berkeley
George Raymond Normington	Political Science	Stockton
Marjorie C Nyberg	Bacteriology	Alhambra
Edward Patrick O'Brien	Dramatic Art	Berkeley
Roy Anthony Ockert	Economics and Political Science	Orofino, Idaho
Frances Marie O'Connell	French	Richmond
Maryalice Murray O'Donoghue	English	San Francisco
Roberta Hutchinson Oechsli	Art	Pasadena
William Joseph O'Hern, Jr.	Physiology	Oakland
Edward Scott O'Keefe	Mathematics	Berkeley
Grace Okida	Decorative Art	San Jose
Berton Jepsen Oldham	Art	San Francisco
Betty Jean Oldham	Psychology	Cloverdale
Margaret Mary Oliver	Child Development	Pasadena
Richard Wilson Oliver-Smith	Physiology	Alameda
Arvid John Olson	English	San Francisco
Richard Hugh O'Neill	Physiology	Santa Barbara
Rudolf Otto Ferdinand Oppenheimer	Medical Sciences	San Francisco
Norman Bruce Ordahl	Medical Sciences	Dickinson, North Dakota
Donia Juber Oretsky	Recreation	Petaluma
Olga Orloff	Social Welfare	San Francisco
Ralph Kenneth Osborn	General Curriculum	Dardanelle, Arkansas
Eugene Walter Osegueda	English	Oakland
Willis Frederick Ostrander, Jr.	General Curriculum	Oakland
Albert Ostroff	Physiology	San Francisco
Joseph Gregory Oswald	Regional Group Major on Russia and East Europe	Chicago, Illinois
Marjorie Claire Oubridge	Political Science	San Jose
Albert Warner Overhauser	Physics	San Francisco
Catherine Marjorie Owen	Physical Education	Lone Pine
Frank Edward Owen	General Curriculum	Los Angeles
Arnold Robert Pagano	General Curriculum	San Francisco
Iona S Paley	Far Eastern Studies	Shanghai, China
Edward Lyle Palmer	Physical Education	Walnut Creek
Clara Louise Paltenghi	International Relations	San Francisco
Norman Panting-Mena	Medical Sciences	San Pedro Sula, Honduras
Elliott T Pardee	Industrial Administration	San Francisco
Fayne Louise Paris	American Literature	Oakland
Barbara Johnson Parker	General Curriculum	Oakland
Lewis Leonard Parker	Medical Sciences	Alameda
William Edward Parker	Journalism	Oakland
Henry Dennis Paroutaud	French, Art	Berkeley
Anne Parrish	History	Berkeley
Robert Glenn Partridge, Jr.	General Curriculum	San Mateo
Marilyn Ann Paterson	General Curriculum	Berkeley
Kalfus Wilton Patterson	Medical Sciences	Selma
Clyde Perry Patton	Geography	Berkeley
Beverly Lemen Paxon	Physics	Long Beach
Marion Lafot Payse	General Curriculum	Altadena
Shirley Jean Pearce	General Curriculum	San Francisco
William L Peck	Economics	Petaluma
Marjorie Kathryn Pedersen	General Curriculum	Los Angeles
Roberta Collins Peeke	English	Ross
Frances Coburn Pepper	Dramatic Art	Berkeley
Frederic F S Perelli-Minetti	Wines	Delano
Marian Louise Perry	Physical Education	San Francisco
Theresa Nell Persico	General Curriculum	Richmond

Millard Harris Perstein	Physics	San Francisco
Nilda Peruzzo	Journalism	Berkeley
Cheryl Jean Petersen	International Relations	Scotts
Carolyn Ann Peterson	Political Science	San Francisco
Robert Ernest Peterson	General Curriculum	San Francisco
Constance Howells Pfund	Decorative Art	San Mateo
Glen Alvin Phillips	Zoology	Malta, Montana
Richard Sears Phipps	Political Science	Berkeley
Lisa Maier Picard	Psychology	San Francisco
Marie Frances Pickrell	General Curriculum	St. Louis, Missouri
Betty Jane Pierce	Political Science	Santa Cruz
Nina Pilkenton	General Curriculum	San Francisco
Jack Glenn Pinneo	English	San Francisco
Ruth Stitt Pirtle	Political Science	Riverside
deWit Popkin	Economics	San Francisco
Vincent Thomas Porcaro	Political Science	San Anselmo
Norma Anderson Porter	Political Science	San Fernando
Ruth Elizabeth Porter	Speech	Watsonville
Virginia D Potter	General Curriculum	Glendale
Bessie Poulos	International Relations	Pinole
Dwight Curfman Pound	Physics	Glendale
Robert Allen Pound	Economics	Salem, Oregon
Elizabeth-Ann Powell	Physiology	Carmel
Mary Gertrude Powell	Regional Group Major on Hispanic America	Alameda
Ann Powers	Regional Group Major on Hispanic America	Piedmont
Jean Elizabeth Pratt	English	Berkeley
Raymond Arthur Prendergast	Economics	San Francisco
Robert L Prince	International Relations and Political Science	San Francisco
Barbara Merle Princlau	Decorative Art	Piedmont
Joan Jacquelin Pringle	General Curriculum	Oakland
Frank John Puerta, Jr.	Medical Sciences	Fresno
Donald Curtis Quisenberry	Economics	Oakland
Peter Quon	Medical Sciences	San Diego
Daniel Luther Rader	General Curriculum	Berkeley
Richard Eugene Rader	Jurisprudence	Hollywood
Marie Lucille Ramazzotti	General Curriculum	San Francisco
Warren Glenn Rankins	General Curriculum	Pasadena
Ruth Marie Ransom	General Curriculum	Oakland
Keith Marriion Rapp	General Curriculum	Cotuit, Massachusetts
Lazarus Gershon Ratner	Physics	Berkeley
Charlene Morae Read	General Curriculum	Berkeley
Peggy Louise Reagan	Political Science	Bellflower
Forrest Douglas Ream	Zoology	Berkeley
Thomas Edward Reed	Zoology	San Diego
Barbara Joyce Reeve	Speech	Livingston
Jack Edsel Reeves	International Relations	Napa
Naomi Jean Reeves	Social Welfare	Hazel Crest, Illinois
Teresa Ann Regan	Mathematics	Wilmington
Catherine Corrinne Reid	Journalism	Berkeley
Walt Robert Reidelberger	International Relations	San Francisco
Ernest Gunther Reimer	History	San Francisco
Alan Resleure	Political Science	San Francisco
Audrey Hélène Reynolds	General Curriculum	Burlingame
Catherine Eake Reynolds	English	Oakland
George Albert Reynolds	French	Detroit, Michigan
Ramona Catherine Reynolds	Speech	Oakland
Albert Ingram Richards	German	Sacramento
Carol Ruth Richards	General Curriculum	Auburn
G William Richards	Music	Salt Lake City, Utah

Roy Donald Richards	Physical Education	San Diego
John Dana Richardson	Political Science	Berkeley
Alberta Sollenberger Rickard	Art	Oceanside
James O'Donovan Ring	Political Science	Berkeley
Eunice Roe Ringo	General Curriculum	Richmond
William Dean Robertson	Medical Sciences	Los Angeles
Betty Jean Robinson	General Curriculum	Merced
Lois Ethelyn Robinson	General Curriculum	
Makaweli, Kawai, Territory of Hawaii		
Paul Andrew M Robinson	General Curriculum	San Francisco
Herbert Laughlin Rock	Social Welfare	Marysville
Henry Jeffrey Rodriguez	International Relations	Crockett
Ruth Eldora Rodseth	Sculpture	Sacramento
Cyrus Curran Rogers	General Curriculum	San Francisco
Dorothy Ruth Rogers	Slavic Languages	Klamath Falls, Oregon
Elizabeth Frances Rogers	General Curriculum	Berkeley
Harold William Rood	International Relations	Mare Island
Patricia Anne Rorke	International Relations	Piedmont
Donald Harold Rose	Zoölogy	San Bernardino
Jack Whitehead Rose	Physics	National City
Robert Leon Rose	Geological Sciences	Santa Rosa
Sheldon Lewis Rose	Political Science	Berkeley
Marvin Howard Roth	Zoölogy	Los Angeles
Gene Kimball Rouse	General Curriculum	Pasadena
Glenn Royer	Music	San Francisco
Gloria Frank Rubin	Political Science	Los Angeles
Stanley Berlin Rubin	Psychology	New York, New York
Margaret Irene Rudi	Journalism	San Pedro
John Douglas Ruedy	Political Science	Oakland
Clyde Howard Rugroden	Political Science	Berkeley
Wilma Louise Banta Rule	Journalism, Political Science	Van Nuys
Yvonne Aurore Runyan	Decorative Art	Berkeley
Jane Ann Russell	General Curriculum	Berkeley
Hal Granville Rutledge	General Curriculum	Berkeley
John Joseph Ryan	Physiology	San Francisco
Hisaji Sakai	Medical Sciences	San Francisco
Lois Lillian Saks	History	Modesto
Doris Salisbury	Criminology	Closter, New Jersey
Eleanor Corry Sanderson	General Curriculum	
North Tonawanda, New York		
David Mardane Sansome	General Curriculum	Ridgefield, Connecticut
Leola Paula Santucci	General Curriculum	San Francisco
George Saphir	Physics	Chicago, Illinois
Arthur Sassone	Jurisprudence	Pinole
Kiyoshi Arthur Sato	General Curriculum	Sacramento
Thomas Neugass Saunders	General Curriculum	Berkeley
Ernest Walker Sawyer, Jr.	General Curriculum	Los Angeles
Doris Barthe Sayles	General Curriculum	Oakland
Lawrence Richard Sayre	Regional Group Major on Russia and Eastern Europe	Sacramento
Jean Alice Scharre	English	Fontana
Olga Schifrin	General Curriculum	Shanghai, China
Jean Georges Schimek	Sociology and Social Institutions	Berkeley
Oleg Sergeevich Schirovsky	Far Eastern Studies	San Francisco
Carroll Francis Schmitz	Chemistry	Burlingame
David Schneider	Political Science	Brooklyn, New York
Robert Mitchell Schneider	Psychology	Berkeley
Howard William Schoof	General Curriculum	Richmond
Richard Rae Schreiber	Zoölogy	Des Moines, Iowa
Louise Marie Schuetz	International Relations	San Francisco
Cramer William Schultz	Physics	Billings, Montana
Lois Anne Schultz	General Curriculum	Puente

Richard Theodore Schults.....	International Relations	Sacramento
Nancy Lou Schuls.....	History	San Francisco
Peter A Schuls.....	International Relations	Berkeley
Theodore Grandi Schuls.....	Education	San Francisco
Ernest Russell Schulze.....	General Curriculum	Richmond
Roslyn Fay Schwartz.....	Social Welfare	Oakland
Ruth Leah Schwartz.....	Social Welfare	Beaufort, South Carolina
Frederick Rounds Schweickhardt.....	Psychology	Twin Falls, Idaho
Frederick Nelson Schweitzer.....	History	Oakland
Catherine Ellen Scofield.....	General Curriculum	Covina
Jack Maxwell Scollard.....	General Curriculum	Oakland
Yvonne Elvira Seebohm.....	Child Psychology and Education ..	San Francisco
James Gilbert Seller.....	Mathematics	San Diego
Ralph Banner Seligman.....	Economics	Los Angeles
Alfred Walter Senft.....	German	Zurich, Switzerland
Ven Serna	Spanish	Santa Fe, New Mexico
Margery Joy Service.....	Psychology	Berkeley
Stella Ruth Severine.....	General Curriculum	Albany
Roger Duncan Shade.....	General Curriculum	Oakland
Jeanne Elizabeth Shafer.....	Geography	Westwood
John Aram Shahsade.....	Economics	Fresno
Bernadine Pearl Shapiro.....	General Curriculum	Oakland
William Sharon	Political Science	Oakland
Richard Franklin Shaw.....	Zoölogy	San Diego
Sarah Louise Shaw.....	Political Science	San Francisco
Richard Jolyon Shephard.....	History	San Jose
Anita Marie Shiffer.....	English	San Francisco
Gertrude Lansing Shippey.....	American Literature	Rosa
Abraham Benjamin Shmulevsky.....	Political Science	San Francisco
David Samuel Shwayder.....	Mathematics, Philosophy	Denver, Colorado
Herman Silvius, III.....	History	Sacramento
Joan Audrey Simpson.....	General Curriculum	Pasadena
Philip Julian Sinnott, Jr.....	Geography	San Francisco
Thomas Henry Skillicorn.....	Economics	Watsonville
Shirley Shields Skow.....	Social Welfare	Berkeley
Veneta Skrepetos	Political Science	Sacramento
Howard Key Slaughter.....	Dramatic Art	San Francisco
Kenneth William Sleeper.....	Dramatic Art	Sacramento
Richard Emerson Slyfield.....	Geophysics	Los Angeles
Richard Thomas Smeltzer.....	General Curriculum	Berkeley
Charles Jerome Smiley.....	Political Science	Pasadena
Charles Ransom Smiley.....	Bacteriology	Nashville, Tennessee
Charles Clarke Smith.....	General Curriculum	Berkeley
George William Smith.....	Medical Sciences	San Bernardino
James William Smith.....	Physical Education	Vallejo
Leonard Boyer Smith.....	Economics	Oakland
Paul Wilber Smith.....	Medical Sciences	Long Beach
Weldon Harrold Smith.....	English	Oakland
Betty La-Verne Smurthwaite.....	Art	Redding
Jacqueline Coil Snyder.....	General Curriculum	Woodland
Rosemary Soghomonian	Political Science	Pasadena
Genia Gertrude Solomon.....	Biochemistry	Montreal, Quebec, Canada
Robert Earl Sondergard.....	Spanish	Santa Rosa
Shirley Elaine Sonneman.....	General Curriculum	Point Arena
Dorothy Marie Soske.....	Mathematics	Pasadena
Stephen Soudakoff.....	Far Eastern Studies	Los Angeles
David Lothian Souther.....	General Curriculum	Oakland
Velmita Eileen Southern.....	Economics	Piedmont
Ethel Gloria Souza.....	General Curriculum	Los Banos
Elizabeth Ann Spaeth.....	General Curriculum	San Diego
Emily Louise Spalding.....	General Curriculum	Pasadena
Marvin Spanner	Psychology	New York, New York
Helen Edna Spekker.....	History	Fresno

David Gelvin Spencer.....	English	St. Joseph, Missouri
Francis Edward Spencer.....	Bacteriology	Oakland
Harold Edwin Spencer.....	Art	Fort Ann, New York
Violet Evelyn Sprains.....	Psychology	Oakland
Barbara Blythe Sprott.....	Social Welfare	Berkeley
Gloria Doris Stadelman.....	Social Welfare	Los Angeles
Ruby Kern Stefan.....	General Curriculum	Burlingame
Walter John Stephan.....	Physics	Sacramento
Yvonne Jean Stephens.....	English	Sacramento
Patsy Ruth Stephenson.....	Decorative Art	Burlingame
Robert Clarence Stern.....	Slavic Languages	Albuquerque, New Mexico
David Sternfeld	Medical Sciences	Los Angeles
M Lynn Stevenson.....	Physics	Ogden, Utah
Robert R Steward.....	Zoölogy	Phoenix, Arizona
Margaret Dale Stewart.....	Music	Berkeley
William Benjamin Stewart.....	General Curriculum	Muskogee, Oklahoma
Sylvia Stockdale.....	Dramatic Art	Mexico City, Mexico
George C Stone.....	Psychology	Whittier
John Leslie Stone.....	Economics	Los Angeles
Mary Helen Stoneham.....	Social Welfare	Glendale
Helen Marie Storsand.....	French	Berkeley
Earl Roger Strader.....	Physical Education	Oakland
David Alloway Strange.....	Chemistry	Piedmont
John Paul Strate.....	Political Science	Strathmore
Noble Mason Streeter, Jr.....	Political Science	Oakland
Theodore Efroim Streshinsky.....	Journalism	Shanghai, China
Dolores Roselda Stroh.....	French	Sacramento
Janice Marilyn Sturgeon.....	Bacteriology	Santa Maria
Willard Edsel Sturk.....	Medical Sciences	Cincinnati, Ohio
Gladys Chee Sue.....	Geophysics	San Francisco
Lawrence F Sullivan.....	Economics	Corning
Mildred Virginia Surtees.....	Social Welfare	Martinez
Betty Laird Sutherland.....	General Curriculum	Berkeley
James Henry Richardson Sutherland.....	Zoölogy	Alameda
Nancy Irene Sutton.....	Political Science	Berkeley
Alan Morris Swabacker.....	General Curriculum	Los Angeles
Frederick Robert Swain.....	International Relations	Berkeley
Mary Lola Swanberg.....	General Curriculum	Berkeley
Ethel Mae Swanson.....	History	Tulare
Warren Gilbert Swanson.....	Economics	San Francisco
Clare Elise Swartz.....	Social Welfare	Los Angeles
Mary Eleanor Symmonds.....	Psychology	Exeter
Irving Tallman	Psychology	San Francisco
Jane Helen Tangen.....	Mathematics	Pasadena
Martha Tarpey	General Curriculum	Oakland
Isabelle Irene Tavares.....	Botany	Los Angeles
Hypatia Noordwal Teague.....	Dramatic Art	Los Angeles
Sara Elizabeth Telford.....	Decorative Art	Berkeley
Andree Lionelle Temple.....	Physical Education	Berkeley
Paul Vernal Terry.....	Physics	San Francisco
Mary Lou Thede.....	General Curriculum	Yosemite
Jacob Karl Theobald.....	Physics	Oakland
Doris Janet Thomas.....	Regional Group Major on Hispanic America	Berkeley
Quinten Moore Thomas.....	Physiology	Oakland
Marilynn Zito Thomas.....	General Curriculum	San Francisco
Constance Ruth Thompson.....	Spanish	Benicia
Nancy Emma Thompson.....	Art	Oakland
William Thurmond	Zoölogy	Oakland
Weldon George Thyberg.....	Medical Sciences	Oakland
Mary Lee Tilden.....	Sculpture	Piedmont
Carolyn Tilton	General Curriculum	San Francisco
Walter Chan Tim.....	Medical Sciences	Willows

Alfred Earl Tomlinson	Journalism and Political Science . . .	Mill Valley
Joy Annette Torstrup	Dramatic Art	La Jolla
Edward Bancroft Towne, Jr.	Political Science	San Francisco
James Elbert Townsend, Jr.	English	San Francisco
Constance Trigonis	Art	San Francisco
Robert Trimmingham	International Relations	Pleasanton
Betty Emily Trishman	Journalism	Los Angeles
Laurel Alice Trivelpiece	English	Keyes
Barbara Elinor Trogdon	General Curriculum	Bakersfield
George Stephen Troller	English	Berkeley
Alexander Trujillo, Jr.	Physical Education	San Leandro
Kenneth Warren Tucker	Physical Education	Gridley
Nancy Wayne Turner	English	Modesto
JuneCarolynn Tuska	General Curriculum	Burlingame
Sylvia Ann Tweedt	General Curriculum	San Francisco
Frank Ulrich	Physiology	New York, New York
Mathew Martin Updegraff	Political Science	Berkeley
Helen Elizabeth Upton	Anthropology	Sacramento
Pete Urone	Spanish	Berkeley
Adrienne Lynne VanCouvering	General Curriculum	Glendale
Wilson Miles Van Dusen	Psychology	San Francisco
Robert James VanGemert	Jurisprudence	Oakland
Patricia Ann Van Hoosear	General Curriculum	San Francisco
Donald Lorraine VanKekerix	History	Long Beach
August Mark Vaz	History	Alameda
Betty Jane Vestal	General Curriculum	Oakland
Ronald Judson Vincent	General Curriculum	Piedmont
Tennie Louise Vincent	Zoölogy	Modesto
Mary Ellen Vines	English	Vallejo
Lois Elaine Vogel	General Curriculum	Richmond
Weston Fay Volberg, Jr.	General Curriculum	Berkeley
Elizabeth Hill Vorhees	Italian	Ross
Marian Bernice Waddell	General Curriculum	Van Nuys
Eva Adelle Wagner	General Curriculum	Claremont
Robert Wahrhaftig	Economics	Piedmont
Dorcas Ann Walker	English	Riverside
Jean Ernestine Walker	English	Long Beach
Jean Lillagore Walker	Psychology	Burlingame
Mary Henrichsen Walker	History	Redding
Randal Richard Walker	Political Science	Fresno
Gordon Edward Wall	General Curriculum	San Bernardino
Janet Marie Wallace	General Curriculum	San Diego
Allene Margaret Wallen	General Curriculum	Los Angeles
Zeda Lou Walling	General Curriculum	San Francisco
Beverly Louise Walraven	English	Berkeley
Martha Walrond	Far Eastern Studies	Fresno
Daniel Robert Walter	Music	Placerville
Joseph Hart Walters, Jr.	Economics	San Jose
Koon Tak Wan	Economics	Hong Kong, China
Moshe Wardinon	Physics	Tel-Aviv, Palestine
Heaton Manice Waring, Jr.	General Curriculum	Honolulu, Territory of Hawaii
Mary Warner	General Curriculum	Fresno
Barbara Louise Washauer	Zoölogy	San Francisco
Hodge Raymond Wasson	General Curriculum	Oakland
Carol Marie Watson	Physical Education	Pasadena
Carolyn Jewel Watson	International Relations	Pasadena
Edgel Leon Watson	History	Bakersfield
Janet Anita Watson	Political Science	Lodi
Joseph Paul Wayne	Medical Sciences	Los Angeles
Clare Auroldine Weber	Dramatic Literature	Kenosha, Wisconsin
Bertha Evelyn Webster	Physiology	Modesto
WenChao Wei	Physical Education	Tongshan, China

Barbara Muir Weikel.....	General Curriculum	San Francisco
Leland Franklin Weis.....	Music	Yuba City
Bernice Weisbach	Social Welfare	Los Angeles
Gladys Louise Welch.....	Social Welfare	Antioch
Sylvia Sanelma Wenhe.....	English	Chula Vista
Joseph Henry Oakes Wentworth.....	Psychology	Oakland
Marjorie Winifred Whearty.....	Journalism	San Francisco
Donald Frederick Whistler, Jr.....	Political Science	Palo Alto
Frederick James Whisman.....	Political Science	San Francisco
Elizabeth Ellen White.....	General Curriculum	Sacramento
Jean Hays White.....	Music	Berkeley
Rena Josephine White.....	Economics	Boston, Massachusetts
Robert Warren White.....	Political Science	Nashville, Tennessee
Sybil Adrienne White.....	General Curriculum	Salt Lake City, Utah
Helen Bernice Whitted.....	General Curriculum	Riverside
Mildred Cevesta Wickham.....	Music	Glendale
Arthur Goodwin Wild, Jr.....	General Curriculum	Oakland
Addie June Wilder.....	General Curriculum	Piedmont
Delverna Jean Wilkinson.....	Social Welfare	Pasadena
Barbara Helen Williams.....	Physical Education	Richmond
Georgene Marie Williams.....	Education	Sacramento
Lloyd Kenneth Williams.....	Mathematics	Palo Alto
Merle Margaret Williams.....	English	Oakland
Paul Sibley Williams, Jr.....	Journalism	San Jose
Robin Alexander Williams.....	Economics	Vancouver, Canada
Ruth Marie Williams.....	Political Science	Oakland
Leigh Wallace Willoughby.....	English	Oakland
Ronald Gilman Willson.....	Criminology	Oakland
Iola Marie Wilsey.....	Chemistry	San Francisco
Constance Jane Wilson.....	Social Welfare	Alameda
Joseph Charles Wilson, III.....	General Curriculum	Pasadena
Rollin Lincoln Wilson.....	Art	Oakland
John Joseph Windle.....	Physics	San Diego
Janette Wing.....	Psychology	Vallejo
Robert Malcolm Winter.....	History	San Diego
Alwyn Walter Winters.....	Chemistry	Santa Ana
Mary Ellen Winters.....	General Curriculum	River Forest, Illinois
Beth Margaret Wisecarver.....	English	Berkeley
Corinne Witt.....	General Curriculum	San Francisco
Muriel Jean Witt.....	Social Welfare	Berkeley
Eva Orlando Wolfe.....	General Curriculum	Long Beach
Maurice Raymond Wolfe.....	Sociology and Social Institutions.....	San Francisco
Philip Starr Wolfe.....	Physics, Mathematics	Alameda
Alfred Pershing Wood.....	Economics	Santa Monica
Julia Dimond Wood.....	General Curriculum	Berkeley
Herbert Raymond Woodruff.....	Sociology and Social Institutions	Orland
Emerson Turner Wright.....	Sculpture	Berkeley
Mildred Louise Wright.....	Political Science	San Francisco
William Stanley Wright.....	Political Science	San Mateo
John Vernon Wythe.....	Political Science	San Jose
Tsuneo Tom Yamane.....	General Curriculum	Newcastle
Geneva Ozell Yates.....	Regional Group Major on Hispanic America	Woodbridge
Carolyn French Yeager.....	Political Science	Riverside
June Yip.....	General Curriculum	Oakland
Stephen Elmer Yoas, Jr.....	History	Alameda
Norma Petersen Yost.....	Spanish	San Francisco
Alice Virginia Young.....	Recreation	Hayward
Flora Jane Young.....	General Curriculum	San Francisco
Norma Mildred Young.....	Education	Oakland
Ethelann Mirvis Zaslow.....	Psychology	San Francisco
Louis Zeitz.....	Physics	San Francisco
John Herman Zumwinkel.....	General Curriculum	Allenspark, Colorado

GRADUATE DIVISION

CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- Mary Dockery Barry (A.B. 1947) San Francisco
Major: Social Studies; Minor: English.
- Norah Rohland Cole (A.B. University of California at Los Angeles 1938) . San Jacinto
Major: Social Studies; Minor: English.
- Mary John Copitas (A.B. 1948) San Diego
Major: Speech; Minor: Art.
- Carolyn Nelle Couse (A.B. 1946) Berkeley
Major: Social Studies; Minor: Psychology.
- Ruth Ebba Dahlquist (A.B. 1946) San Pedro
Major: Social Studies; Minor: English.
- Betty Jean Dixon (A.B. 1948) Oakland
Major: Social Studies; Minor: Spanish.
- Jack Harold Elle (B.S. University of Oregon 1941) Bakersfield
Major: Psychology; Minor: Social Studies.
- Dorothy Ann Engelhardt (A.B. Pomona College 1947) Pasadena
Major: French; Minor: English.
- Valma Maddox Garrett (A.B. 1941) Berkeley
Major: Social Studies; Minor: English.
- Mary Ellen Goepfert (A.B. 1946) Vacaville
Major: Social Studies; Minor: Spanish.
- Mary Ellen Heinz (A.B. University of Southern California 1947) San Francisco
Major: Art; Minor: English.
- Mary Alice Hewlett (A.B. 1948) Oakland
Major: Social Studies; Minor: English.
- Lorraine Beverly Jorgenson (A.B. 1947) San Francisco
Major: Social Studies; Minor: Spanish.
- Dorothy Catherine Knoffler (A.B. 1948) San Francisco
Major: Social Studies; Minor: English.
- Margaret Mangan (A.B. 1948) Berkeley
Major: Art; Minor: Social Studies.
- Marie Christine Olsen (A.B. 1947) San Jose
Major: Psychology; Minor: Social Studies.
- Mary Jane Phillips (A.B. 1948) Bakersfield
Major: Social Studies; Minor: Spanish.
- Mary Louise Pohl (A.B. 1946) Concord
Major: Social Studies; Minor: English.
- Gene Adair Rackerby (A.B. 1947) Sacramento
Major: Social Studies; Minor: English.
- Anne Neilson Raley (A.B. Stanford University 1940) Atwater
Major: Social Studies; Minor: English.
- Jean Eloise Schildwachter (A.B. Pomona College 1947) Glendale
Major: English; Minor: Art.
- Hazel Loraine Syverson (A.B. 1947) Colusa
Major: Spanish; Minor: Social Studies.
- Barbara Lee Turner (A.B. 1948) Paso Robles
Major: Spanish; Minor: Social Studies.

- Shirley Jean Vernon (A.B. 1945) San Francisco
Major: Social Studies; Minor: Psychology.
- Frances Ruth Wallcave (A.B. 1946) Berkeley
Major: Social Studies; Minor: English.
- Natalie Brown Williams (A.B. 1942) Berkeley
Major: Social Studies; Minor: English.
- Barbara Jane Young (A.B. 1948) Santa Cruz
Major: Social Studies; Minor: Speech.

CURRICULUM FOR THE TRAINING OF JUNIOR HIGH SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- Norah Rohland Cole (A.B. University of California at Los Angeles 1938) . . San Jacinto
Major: Social Studies; Minor: English.
- Lorraine Beverly Jorgenson (A.B. 1947) San Francisco
Major: Social Studies; Minor: Spanish.

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

- Rosinda Camila Aja (A.B. 1947) San Francisco
Major: Social Studies; Minor: Spanish.
- Olga Billones Bier (A.B. 1947) Stockton
Major: Art; Minor: English.
- Robert James Breuer (B.S. 1943) Berkeley
Major: Physical Science; Minor: Mathematics.
- Beverly Elizabeth Brooks (A.B. 1947) Berkeley
Major: English—Speech—Drama—Journalism; Minor: Art.
- Margaret Ellen Bunds (A.B. 1947) San Rafael
Major: Social Studies; Minor: Mathematics.
- Ellen R Canrobert (A.B. 1945; M.A. 1947) Beverly Hills
Major: French; Minors: Spanish, Social Studies.
- Carl Virgil Carlson (B.S. 1932) Oakland
Major: Business Education; Minor: English.
- Arthur Allen Chapman (A.B. 1947) Healdsburg
Major: Social Studies; Minor: English.
- John Pershing Christenson (B.Jour. University of Texas 1941) Clifton, Texas
Major: English; Minor: Social Studies.
- Lola Chun (A.B. 1947) Fresno
Major: Social Studies; Minor: English.
- Edward Malcolm Compton (A.B. 1941) Bakersfield
Major: Art; Minor: English.
- William Hickerson Cooper (A.B. 1947) Oakland
Major: English; Minor: Social Studies.
- June Chaney Coy (A.B. 1947) Berkeley
Major: Art; Minor: Social Studies.
- Leo Rudolph Croce (A.B. 1947) Oakland
Major: Social Studies; Minor: Physical Education.
- Dolores Jean Crumrine (B.S. 1947) Berkeley
Major: Home Making; Minor: Social Studies.
- Elaine Marie Dale (A.B. 1947) El Cerrito
Major: Social Studies; Minor: English.
- Patricia Ann Dart (A.B. 1947) Fresno
Major: Social Studies; Minor: English.

- Emma Jane Davis (A.B. 1947) Berkeley
Major: Spanish; *Minors:* French, Social Studies.
- Jean Dietterle (A.B. 1947) San Francisco
Major: Physical Education; *Minor:* Social Studies.
- Barbara Beutel Edwards (A.B. 1947) Merced
Major: Social Studies; *Minor:* Spanish.
- Charles Robert Erickson, Jr. (B.S. 1947) Fullerton
Major: Business Education; *Minor:* Mathematics.
- Harold Bartell Erickson (A.B. 1938) Turlock
Major: Social Studies; *Minor:* Speech.
- Carmen Joyce Finley (A.B. 1947) Santa Rosa
Major: Speech; *Minor:* Mathematics.
- Betty Hermon Gardner (A.B. University of California at Los Angeles 1945) Long Beach
Major: English; Speech-Drama-Journalism; *Minor:* Social Studies.
- Mildred Green (B.S. 1947) Berkeley
Major: Home Making; *Minor:* Art.
- Richard Charles Hansen (A.B. 1947) Berkeley
Major: Music; *Minor:* English.
- Katharine Margaret Heints (A.B. San Jose State College 1947) San Jose
Major: Social Studies; *Minor:* German.
- Robert Calder Hogeboom (A.B. 1947) Oakland
Major: Physical Education; *Minor:* Social Studies.
- Eliza Jane Holland (A.B. 1947) Portland, Oregon
Major: Physical Education; *Minor:* Social Studies.
- Ardelle Louise Hooning (A.B. 1947) Richmond
Major: English; *Minor:* Social Studies.
- Robert Vetter Jamison (A.B. San Jose State College 1947) Santa Cruz
Major: Mathematics; *Minor:* Physical Science.
- Joyce Allwright Klingman (B.S. 1947) Oakland
Major: Home Making; *Minor:* Life Science.
- Raymond Edwin Lewis (A.B. 1947) Berkeley
Major: Art; *Minor:* English.
- Janet Claire Lloyd (A.B. 1946) Ross
Major: Physical Education; *Minor:* Social Studies.
- Donald Wright Lucas (A.B. 1947) San Francisco
Major: Social Studies; *Minor:* Art.
- Albert Lukavich (A.B. 1947) Berkeley
Major: Art; *Minor:* English.
- Jens Lloyd Lund (A.B. 1943) Oakland
Major: Mathematics; *Minor:* Physical Science.
- Joanne Elizabeth Macfie (A.B. 1947) Richmond
Major: Social Studies; *Minor:* French.
- William Keith MacNab (A.B. 1947) Ukiah
Major: Physical Science; *Minor:* Mathematics.
- Marian Maspero (A.B. 1947) Long Beach
Major: Music; *Minor:* English.
- Marion Kletsing Matlin (B.S. 1944) Berkeley
Major: Home Making; *Minor:* English.
- Charles William Miller, Jr. (A.B. 1947) San Francisco
Major: Mathematics; *Minor:* Physical Science.
- Victoria Miranda (A.B. 1947) Oakland
Major: Music; *Minor:* French.
- Mary Misak (B.S. 1947) Chico
Major: Business Education; *Minor:* English.

- Mary Morehart (A.B. 1946) Beverly Hills
Major: Art; Minor: French.
- Gladys May Mortenson (B.S. 1947) Richmond
Major: Home Making; Minor: Life Science.
- Martha Muriel Mullooney (A.B. 1947) San Francisco
Major: Physical Education; Minor: Social Studies.
- Eleanor Mae Pickett (A.B. University of Illinois 1946) St. Petersburg, Florida
Major: English; Minor: Spanish.
- Helen Clarissa Purney (A.B. Smith College 1943; M.A. 1947) Omaha, Nebraska
Major: Art; Minors: Spanish, Music.
- Iris Katharina Rempel (A.B. 1947) San Bruno
Major: Art; Minor: English.
- Joseph Flavius Rice (A.B. 1942) San Francisco
Major: Art; Minor: English.
- Carolyn Marie Righetti (A.B. 1947) San Francisco
Major: Music; Minor: French.
- William Harrington Ross (A.B. 1947) Mill Valley
Major: Social Studies; Minor: Spanish.
- Dorothy Claire Rossick (A.B. College of the Holy Names 1947) Oakland
Major: English; Minor: Social Studies.
- Richard David Santure (A.B. 1947) Richmond
Major: Speech; Minor: Physical Education.
- Betty Ann Scanlon (A.B. College of the Holy Names 1947) San Francisco
Major: English; Minor: Social Studies.
- Joyce Robinson Scott (A.B. 1947) Albany
Major: Spanish; Minor: Social Studies.
- Ruthanne Sheehy (A.B. 1944) Nipomo
Major: Social Studies; Minor: English.
- Stanley Walter Sommers (A.B. 1946) Berkeley
Major: Social Studies; Minor: English.
- Harley Leroy Sorensen (B.S. 1943) San Francisco
Major: Physical Science; Minor: Mathematics.
- Ralph Quentin Steinhaus (B.S. North Dakota Agricultural
 College 1947) Max, North Dakota
Major: Social Studies; Minor: Life Science.
- Malcolm Jean Taylor (A.B. 1943) San Francisco
Major: Physical Education; Minors: Speech, Life Science.
- George Edward Thorne (A.B. 1947) Berkeley
Major: Physical Education; Minor: Speech.
- Margaret Anne Tierney (A.B. 1947) San Francisco
Major: Social Studies; Minor: Spanish.
- Barbara Mae Tocchini (A.B. 1947) San Francisco
Major: Physical Education; Minor: Social Studies.
- John Truch (A.B. 1947) Trenton, New Jersey
Major: Social Studies; Minor: Physical Science.
- Robert Henry Vincent (A.B. 1947) Grass Valley
Major: Physical Education; Minor: Life Science.
- Lyndon Vivrette (A.B. 1939) Oakland
Major: Social Studies; Minor: Speech.
- Robert Thomas Ware (A.B. 1946) Alameda
Major: Physical Education; Minor: Life Science.
- Louis Peter Warsh (A.B. Santa Barbara College 1947) Santa Barbara
Major: Social Studies; Minor: English.

- Quentin Claude Watts (A.B. 1947) Berkeley
Major: Social Studies; Minor: English.
- Carroll Aubrey Webber, Jr. (B.S. California Institute
of Technology 1945; M.A. 1948) Westfield, New Jersey
Major: Mathematics; Minor: Physical Science.
- Edith Hill Webber (A.B. 1944; M.A. 1948) Willows
Major: English; Minor: Social Studies.
- Sylvia Edith Weitzner (A.B. 1947) San Francisco
Major: English; Minor: Social Studies.
- Vernon Dale Wenrich (B.S. 1943) El Cerrito
Major: Business Education; Minor: Social Studies.
- Betty Jane Williams (A.B. 1947) Buffalo, New York
Major: English; Minor: Social Studies.
- Mary Jean Wilson (A.B. 1945) Kingsburg
Major: Social Studies; Minor: English.
- Mary Eileen Wilson (A.B. San Jose State College 1947) Alvarado
Major: Mathematics; Minor: Social Studies.
- Leona Yardumian (A.B. 1947) Selma
Major: Social Studies; Minor: English.
- Muriel Jane Zerangue (A.B. 1947) Berkeley
Major: English-Speech-Drama-Journalism; Minor: Spanish.

**CURRICULUM FOR THE TRAINING OF ELEMENTARY
SCHOOL SUPERVISORS**

Certificate of Completion (School of Education) to

- C Esmer Knudson Clark (A.B. San Francisco State College 1935; M.A. 1947) . Berkeley

**CURRICULUM FOR THE TRAINING OF ELEMENTARY
SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- Ellis K Shideler (A.B. Chico State College 1941; M.A. 1947) Sebastopol

**CURRICULUM FOR THE TRAINING OF SECONDARY
SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- Arthur Grenville Becker (A.B. 1938; M.A. 1941) Oakland

CURRICULUM FOR THE TRAINING OF GENERAL ADMINISTRATORS

Certificate of Completion (School of Education) to

- Louis Felciano Ferry (B.S. St. Mary's College 1937; M.A. 1947) Richmond

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

- Francis Hilary Conroy (B.S. Northwestern University 1941;
M.A. 1942) Bloomington, Illinois
Major: History; Minor: English.
- David Bliss Dekker (A.B. 1941; M.S. Illinois Institute of Technology 1943) . Glendale
Major: Mathematics; Minor: Physics.
- Eugene Clinton Haderlie (A.B. 1943; M.A. 1948) Anaheim
Major: Zoölogy; Minor: Physiology.

- James Howard Hall (A.B. Humboldt State College 1940; M.A. 1947) Willits
Major: Zoölogy; Minor: Botany.
- Helen Blom Henniker (A.B. University of Washington 1944; M.A. 1948) . . . Berkeley
Major: History; Minors: Sociology, Philosophy.
- Roger Theodore Jocz (A.B. 1943; M.A. 1947) San Francisco
Major: French; Minor: German.
- Oscar Maurits Matson (A.B. 1946; M.A. 1948) Escondido
Major: German; Minor: French.
- Arthur Jack Misner (A.B. 1942; M.A. 1948) Bell
Major: Political Science; Minors: English, Physical Education.
- Siegfried Nussenbaum (B.S. 1941; M.S. 1948) Berkeley
Major: Agriculture; Minor: Mathematics.
- Francis Gilbert Stoffels (A.B. San Jose State College 1943; M.A. 1948) Roseville
Major: Political Science; Minor: History.
- Anita M Whistler (A.B. 1943; M.A. Smith College 1944) Tulare
Major: English; Minor: Philosophy.

DEGREES CONFERRED

The Degree of Bachelor of Library Science (School of Librarianship) upon

Marion Nelson Allan (A.B. Barnard College 1937; M.A. Teachers College, Columbia University 1947)	Port Chester, New York
Mabel Celeste Ashley (B.S. Johns Hopkins University 1947)	Baltimore, Maryland
Iole Louise Cagnoni (A.B. 1947)	San Francisco
Albert Croutch (A.B. Wayne University 1943)	Beverly Hills
Anna Mary Daugherty (B.S. Ohio State University 1937; M.A. Columbia University 1942)	Uhrichsville, Ohio
Florence Elizabeth Dornback (A.B. 1942)	Lakeport
Sheila Theresa Dowd (A.B. College of the Holy Names 1947)	Walnut Creek
Florence Eileen Erdahl (A.B. 1946)	Walnut Creek
Bonnie Snow Gardiner (A.B. 1945)	Berkeley
Virginia Faith Gowland (A.B. Pasadena College 1939)	Pasadena
Charles Everett Hamilton (A.B. 1947)	Visalia
Marie Hayes (A.B. San Jose State College 1943)	San Jose
Lillian Ross Henderson (A.B. San Jose State College 1928)	Eureka
David Winston Heron (A.B. Pomona College 1942)	Berkeley
Andrew Harlis Horn (A.B. 1937, M.A. 1940, and Ph.D. 1943 University of California at Los Angeles)	Glendale
James Robert Housel (A.B. University of Wyoming 1941)	Cripple Creek, Colorado
Margaret Mary Lane (A.B. Santa Barbara College 1947)	Arroyo Grande
Helen May LeFebre (A.B. Central Washington College of Education 1940)	Berkeley
Ralph Lyon, Jr. (A.B. Stanford University 1934)	San Francisco
George Archibald Masterton (A.B. Wayne University 1947)	Detroit, Michigan
Louise Marie Maurer (A.B. Brown University 1938)	Washington, District of Columbia
Elizabeth Mestad (A.B. Minot State Teachers College, North Dakota 1938)	Long Beach
Elliott William Morgan (A.B. University of California at Los Angeles 1927)	Santa Monica
Judith Carol Morton (A.B. 1943)	San Francisco
June Shankman Naboisek (A.B. 1941)	Albany
Dorothy Julia Hepburn North (A.B. University of California at Los Angeles 1947)	Los Angeles
Richard O'Brien (A.B. New York University 1933)	New York, New York
Margaret Mary O'Connell (A.B. Marylhurst College 1947)	San Francisco
Virginia Carlson Parker (A.B. Stanford University 1945)	Pasadena
John William Perkins (A.B. 1947)	Berkeley
Ruth Leyendecker Quinn (A.B. Trinity College, Washington, D.C., 1922)	San Diego
Richard Vernon Rafael (A.B. San Francisco State College 1943)	San Francisco
Florence Ramona Schuneman (A.B. 1947)	Oakland
LaFern Audrey Shields (A.B. Stanford University 1944)	San Jose
Barbara Jane Smiley (A.B. University of Nebraska 1947)	Lincoln, Nebraska
Frances Muriel Spaulding (A.B. San Jose State College 1931)	Berkeley
Margaret Helen Strong (A.B. 1947)	Berkeley
Miyeko Takita (A.B. 1946)	Berkeley
Yasuko Ann Moriya Teranishi (A.B. University of Denver 1946)	San Francisco
Helen Shang Yee Tom (B.S. 1944)	Sausalito
Byrl Manelvia Warrick (A.B. Stanford University 1947)	Pacific Grove

**The Degree of Master of Business Administration (School of Business Administration) upon*

Francis Frederick Allen, Jr.	Oakland
A.B. 1943.	
Luther James Avery	Vallejo
B.S. 1947.	

* A comprehensive final examination in the major subject is required in lieu of a thesis.

Donald Allan Beanston	San Francisco
B.S. 1947.	
Forrest Eugene Boothe	Bishop
A.B. Pomona College 1943.	
Joseph Daniel Corcoran	Berkeley
B.S. 1943.	
Mario Fovinci	Oakland
B.S. 1942.	
Duncan Rawsel Gardner	Berkeley
B.S. 1944.	
Richard Marvin Garrett	Sandusky, Ohio
B.Chem.Eng. Ohio State University 1943.	
Ralph Burke Gish	Orange
B.S. 1947.	
Rudolph Siegmund Kupfer	Los Angeles
B.S. 1947.	
Ralph Waldo Luce, Jr.	Berkeley
A.B. 1946.	
Vernon Arthur Metzger	Los Angeles
B.S. 1947.	
Morton F Moss	Los Angeles
A.B. Reed College 1941.	
David Bernard Nemer	Berkeley
B.S. 1947.	
Elaine Friedman Nemer	Oakland
A.B. 1944.	
William Walter Newcomer	Burbank
B.A.S. 1945.	
Albert Whittemore Sanborn	Huron, South Dakota
B.S. Union College 1944.	
William Thomas Saxon	Oakland
B.S. 1942.	
Frank Everette Taylor, Jr.	Oakland
B.S. 1947.	

****The Degree of Master of Criminology upon**

Lauren Jackson Goin	Ventura
A.B. 1943.	
<i>Thesis:</i> The application of the density gradient method in evidence examination.	

***The Degree of Master of Education (School of Education) upon**

David Ross Webster	Agriculture	Los Gatos
B.S. 1939.		

***The Degree of Master of Engineering upon**

Ernest T George, Jr.	Industrial Engineering	Macon, Mississippi
B.S. University of Alabama 1940.		
Fred Beaver Proctor	Civil Engineering	Palo Alto
B.S. United States Military Academy 1943.		

* A comprehensive final examination in the major subject is required in lieu of a thesis.
 ** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

***The Degree of Master of Forestry (School of Forestry) upon**

- Lawrence Alexander de Grace Calgary, Alberta, Canada
A.B. University of Alberta 1943; A.B. and B.S.F.
1946 University of British Columbia.
- Carl F Ehelebe Portland, Oregon
B.S. Oregon State College 1943.
- Jack S Rothacher Minocqua, Wisconsin
B.S.F. University of Michigan 1939.

***The Degree of Master of Library Science (School of Librarianship) upon**

- Christine Carolyn Conley Perryton, Texas
A.B. University of Texas 1945; B.S. Columbia University 1946.
- Katharine Greenleaf Pedley Monterey
A.B. Mills College 1925.

****The Degree of Master of Public Health (School of Public Health) upon**

- Herbert Bauer San Luis Obispo
M.D. University of Vienna 1936.
- Alfred Stanley Bogucki Willow Grove, Pennsylvania
A.B. Temple University 1937; M.D. Hahnemann Medical College 1942.
- Aubrey Charles Boydston Eureka
A.B. Stanford University 1932.
- Catherine Dorothy Carlson Minneapolis, Minnesota
B.S. 1937; M.B. and M.D. 1943 University of Minnesota.
- William Henderson Clark Berkeley
A.B. 1941; M.D. 1947.
- Wilfred Daniel David Newport, Rhode Island
B.S. Rhode Island State College 1938; M.D. Middlesex Medical School 1943.
- Solvig B Erickson Portland, Oregon
B.S. University of Oregon 1945.
- Roy Fredolin Frits Atlanta, Georgia
B.S. 1937 and M.S. 1939 Kansas State College of Agriculture and Applied Science.
- David Duncan Holaday San Anselmo
A.B. 1933 and M.D. 1935 University of Kansas.
- Lester Strauss McLean Vallejo
A.B. 1934 and B.S. 1935 University of North Dakota; M.D. University of Chicago
1937.
- Earlie Buren Needham Coleman, Texas
B.S. Texas Agricultural and Mechanical College 1930.
- William Warren Roe, Jr. Los Angeles
A.B. University of California at Los Angeles 1928; M.D. College of
Medical Evangelists 1933.
- Wai Shun Sien Canton, China
M.D. Kwong Wa Medical School 1933.
- Rosita Abesamis Sison Peñaranda, Philippine Islands
M.D. University of the Philippines 1934.
- Willard John Stone Salem, Oregon
A.B. 1928 and M.D. 1931 University of Oregon.
- Dixie Mary Woodburn Westmorland
A.B. 1934.
- Franklin Duane Yoder Cheyenne, Wyoming
B.S. 1935 and M.D. 1939 Northwestern University.

* A comprehensive final examination in the major subject is required in lieu of a thesis.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

****The Degree of Master of Social Welfare (School of Social Welfare) upon**

Lucile Elder Acevedo	Los Angeles
A.B. University of Southern California 1944.	
Ann Katherine Baerwald	Berkeley
A.B. 1942.	
Marie Jeanette Benn	Oakland
A.B. 1946.	
Phyllis Howard Bezdek	Jamestown, New York
A.B. Denison University 1936.	
Howard Morley Blake	Glendale
B.S. University of California at Los Angeles 1938.	
<i>Thesis: Correlation of education and prior work experience of public assistance workers with job performance.</i>	
Helen Hildegard Blum	Berkeley
A.B. 1944.	
Lorna Coolidge Brangwin	Berkeley
A.B. University of Oregon 1923.	
Pearl Joy Holen Brown	Berkeley
A.B. 1945.	
Wilma Buckman	Berkeley
A.B. Northwestern University 1929.	
Ann Chess Campbell	Berkeley
A.B. Smith College 1933; M.A. Columbia University 1937.	
Corlies R Carter	Saratoga
A.B. 1936.	
Virginia Marcelle Conner	Berkeley
A.B. 1946.	
William Henry Dawson	San Francisco
A.B. College of the Pacific 1941.	
Charles Pointon Devereaux	Long Beach
A.B. University of Oregon 1940; B.D. Colgate-Rochester Divinity School 1943.	
David Edgar Farley	Campbell
A.B. San Jose State College 1943.	
Ruth L Fleck	Vallejo
A.B. University of Southern California 1936.	
Alice Leamon Fruchtman	Riverside
A.B. 1944.	
Mary Jane Garcia	Westwood
A.B. 1946.	
Patricia Elizabeth Garry	San Francisco
A.B. 1946.	
Mamie Rose Goodman	San Francisco
B.S. Bowling Green State University 1936.	
Gladys Florence Gott	Berkeley
A.B. Oberlin College 1936.	
James Alexander Graham	San Francisco
A.B. San Francisco State College 1942.	
Howard Gooding Gray	Berkeley
A.B. 1946.	
Lillian R Herman	Los Angeles
A.B. 1937.	

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Esther Starr Hollenbeck San Francisco
 A.B. Antioch College 1928.
Thesis: Problems of point-dischargees as observed in the veterans' rehabilitation clinic of Mount Zion Hospital.
- Maryon Bennett Huestis Hayden, Arizona
 A.B. Mills College 1945.
- Winifred MacKay Hutchinson Newport, Oregon
 A.B. University of Minnesota 1919.
- Bernerd Milton Jacobson Los Angeles
 A.B. 1942.
- Mary Bena Jeffress Berkeley
 A.B. San Jose State College 1935.
- Doris Kahn San Francisco
 A.B. 1943.
- Patricia Klein Larkspur
 A.B. Pomona College 1946.
- Lillian Ruth Kozak Berkeley
 A.B. 1943.
Thesis: Services available to unmarried mothers in the City of Oakland, 1946–1947: a study of the policies and practices of ten Oakland agencies with respect to the unmarried mother and her child.
- Shirley Rena Leaf Los Angeles
 A.B. University of California at Los Angeles 1944.
- Martha Locke Ukiah
 A.B. 1936.
- Mildred Lowdon San Jose
 B.S. University of Oregon 1929.
- Kathleen Ann McCarten Fargo, North Dakota
 B.S. North Dakota Agricultural College 1941.
- Flora Janet McClain Berkeley
 A.B. 1939.
- Marjorie Buettner McGrath San Jose
 A.B. Stanford University 1935.
- Marguerite Gesa Martin San Francisco
 A.B. 1945.
- Joyce Margaret Moran Reedley
 A.B. 1946.
- Eleonor Morris San Francisco
 A.B. 1938.
- Maxine Grace Muchnic Los Angeles
 Ed.B. University of California at Los Angeles 1929.
- Ida Montgomery Oswald Berkeley
 A.B. 1934.
- Esther T Paderson San Francisco
 A.B. 1945.
- Thelma Alice Patton San Francisco
 A.B. University of Denver 1946.
- Robert Plank Oakland
 J.D. University of Vienna 1931.
Thesis: An experience in group therapy with young adult male patients.
- Matille Singerman Rowan Richmond
 A.B. University of Cincinnati 1943; M.A. Stanford University 1945.
- Takashi John Sakai Los Angeles
 A.B. 1940.

- Aronelle Siegeman Los Angeles
A.B. 1946.
- Margaret Lucy Spencer Pasadena
A.B. 1946.
- Beatrice Zwirn Weed Brooklyn, New York
A.B. Brooklyn College 1944.
- Hindy Fay Wexler Los Angeles
A.B. 1945.
- Dawn Barbara Ann Whitaker Ben Lomond
A.B. San Diego State College 1943.
- Helen Elizabeth Whitney Berkeley
B.S. University of Oklahoma 1934.
Thesis: Care of homeless children of Japanese ancestry during evacuation and relocation.
- Laura Adair Wood Phoenix, Arizona
A.B. University of Arizona 1937.

*****The Degree of Master of Science upon***

- Hassan Hassny Aboul-Seoud Petroleum Engi-
B.S. Fouad I University 1946. neering Washington, District of Columbia
- Ashod Michael Ahmajan Civil Engineering Whitinsville, Massachusetts
B.S. United States Military Academy 1940.
- George Robert Barber Chemical Engineering Concord
B.S. 1947.
Thesis: Application of the high temperature calorimeter to the determination of the heat of formation of lithium-tin alloys.
- Robert Edward Beer Entomology Los Angeles
B.S. 1947.
Thesis: Bionomics of several species of California sawflies (Hymenoptera: Symphyta).
- Fredrick Noah Bender Metallurgy San Francisco
B.S. 1943.
Thesis: The flotation of titanium minerals.
- Martin Broomall Biles Mechanical Engineering Oakland
B.S. 1941.
Thesis: An analysis of intermittent liquid sprays.
- Paul Andrews Buck Agricultural Technology I. Vancouver, British
(Food Technology) Columbia, Canada
B.S.A. University of British Columbia 1944.
Thesis: Peroxidase and catalase activity in frozen broccoli.
- John William Buddenberg Chemical Engineering Gothenburg, Nebraska
B.S. Harvard University 1943.
Thesis: Viscosity studies of gas mixtures.
- William Edward Bush Mining San Francisco
B.S. 1947.
Thesis: Investigation, by the use of models, of the nature of stresses surrounding mine openings.
- Albert Jeung Chan Civil Engineering San Francisco
B.S. 1944.
Thesis: Scale effects on the performance of overflow spillway models.
- James Burney Chubbuck Chemistry Little Falls, New York
B.S. United States Military Academy 1938.
Thesis: Artificial radioactive isotopes of cerium and lanthanum.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Clarence Marion Cunningham Chemistry Panhandle, Texas
B.S. Agricultural and Mechanical College of Texas 1942.
- John Lindsay Cunningham Electrical Engineering San Francisco
B.S. 1946.
Thesis: Design of control circuits for an electronic number sieve.
- Ulysses Davidis Horticulture Athens, Greece
Grad. School of Higher Agricultural Studies, Athens, 1937.
- Robert Valentine Dunkle Mechanical Engineering Long Beach
B.S. 1938.
Thesis: Heat meters and radiation meters: their design and the operating corrections to be applied thereto.
- James Wallace Edwards, Jr. Agricultural Technology I Berkeley
B.S. 1944. (Food Technology)
Thesis: The chemical inhibition of orange pectinesterase.
- Mohamed Fouad Khalil El-Azzazi Plant Physiology
B.S. Fouad I University 1940. Washington, District of Columbia
- John Morris Fenley Forestry San Jacinto
B.S. 1939.
Thesis: An airplane seeding experiment on ranges of deciduous cover of central Utah.
- Cedric Keith Ferguson Mechanical Engineering La Jolla
A.B. Stanford University 1943.
Thesis: Investigation of the mixing of parallel flowing plane air streams in the pressure gradient of a jet ejector.
- Calvin Hall Gibson Chemical Engineering Berkeley
B.S. 1947.
Thesis: The calculation of minimum reflux in distillation columns.
- M Giriraj Agricultural Technology I Triplicane, India
(Food Technology)
B.S. 1943 and M.S. 1946 University of Madras.
Thesis: Observations on the chemistry of dehydro ascorbic acid.
- Eva Sarah Gordon Home Economics San Francisco
B.S. 1944.
Thesis: A comparison of tryptophane and pyridoxine deficiency in rats.
- Kenneth Sverre Hagen Entomology Oakland
B.S. 1943.
Thesis: A revision of the genus *Notorus* in America north of Mexico (Coleoptera: Anthicidae).
- Lewis Dana Hall Metallurgy San Pedro
B.S. 1942.
Thesis: The effect of residual stresses on the fatigue strength of mild steel.
- George Ralph Harrington Electrical Engineering Yuba City
B.S. 1943.
Thesis: Power matching study in a two-phase servo-system.
- Stuart Randall Hennies Electrical Engineering Inglewood
B.S. 1944.
Thesis: Coupling to modes in a cylindrical cavity resonator.
- Donald Franklin Hervey Forestry Fort Collins, Colorado
B.S. Colorado Agricultural and Mechanical College 1939.
Thesis: Reaction of an annual-plant community to fire.
- John Edwin Houlgate Chemical Engineering
B.S. University of Alberta 1946. Senlac, Saskatchewan, Canada
Thesis: Pressure drop in divided flow through a one-inch pipe tee.
- Paul David Hurd, Jr. Entomology Berkeley
B.S. 1947.
Thesis: Pompilidae of Lower California (Hymenoptera: Aculeata).

- Allen Jensen Civil Engineering Salt Lake City, Utah
B.S. United States Military Academy 1941.
- John Hugh Jones Civil Engineering Los Angeles
B.S. 1941.
Thesis: Wave action on beaches.
- Kenneth Russell Jones Truck Crops Salem, New Jersey
B.S. University of Alabama 1947.
- Robert Joseph Kasper Civil Engineering Orinda
B.S. United States Military Academy 1938.
- Edith Katznelson Genetics . Vancouver, British Columbia, Canada
A.B. University of British Columbia 1946.
Thesis: Tests for mutations in *Drosophila* fed on irradiated yeast.
- Uheng Khoo Horticulture Kuala Lumpur, Malaya
B.S. 1947.
- John Henry Kilbuck Agricultural Technology I. Hood River, Oregon
B.S. Oregon State College 1943. (Food Technology)
Thesis: A study of the rôle of pectic enzymes in food processing.
- Charles William Koch Chemistry Berkeley
B.S. 1941.
Thesis: The composition of barium, ammonium, and sodium uranates.
- Francis Paul Koisch Civil Engineering Newburgh, New York
B.S. United States Military Academy 1942.
- Theodore James La Chapelle, Jr. Chemistry Richmond
B.S. University of Wisconsin 1943.
Thesis: Neptunium (V) chloride and oxychlorides.
- Herman I Leon Electrical Engineering Berkeley
B.S. 1947.
Thesis: A modulator application of reverse magnetostriction.
- Milton Gustave Leong Civil Engineering San Francisco
B.S. Kung Shang University 1938.
Thesis: Plastic theory of reinforced concrete design.
- Ray Smith Long Chemical Engineering Crockett
B.S. 1946.
Thesis: Power requirements of liquid-liquid mixing.
- Bor-Shiun Luh Agricultural Technology I. Shanghai, China
B.S. Chiao Tung University 1938. (Food Technology)
Thesis: Action of yeasts on pectic substances.
- Caleb Walter McCormick, Jr. Civil Engineering Altadena
B.S. 1945.
Thesis: Investigations of bearing capacity of soils.
- Dorothea Mae Mabee Home Economics Union, Iowa
B.S. Iowa State College 1945.
Thesis: The nitrogen metabolism of dogs fed heated and unheated proteins.
- Roy Clifford Marker Mechanical Engineering Oakland
B.S. 1943.
Thesis: A preliminary investigation of stresses and deflections in a valve body due to internal pressure.
- Richard B Marston Forestry Layton, Utah
B.S. Utah State Agricultural College 1940.
Thesis: Effects of contour-trenches and vegetational recovery upon the hydrologic characteristics of Parrish Basin, Utah.
- David Mason Matheson Civil Engineering
B.S. United States Military Academy 1939. Shawnee-on-Delaware, Pennsylvania
- John Fawcett Mitchell Civil Engineering San Francisco
B.S. University of Utah 1937.
Thesis: Shearing resistance of compacted soils.

- Ralph Erwin Nelson.....Soil ScienceBerkeley
B.S. 1939.
Thesis: Evaluation of pot experiments of California soils.
- Richard Abbot Nickerson.....MetallurgyBenicia
B.A.S. 1944.
Thesis: Measurement of the self-surface diffusion of silver by use of radioactive tracer.
- Siegfried NussenbaumAgricultural Technology IBerkeley
B.S. 1941. (Food Technology)
Thesis: Effect of carbon source on the formation of pectic enzymes by species of the *Aspergillus niger* group.
- Leonard Paul Oechali.....Agricultural EconomicsSouth Pasadena
B.S. 1947.
- Alfred Livingston Ogilvie.....Dentistry. Vancouver, British Columbia, Canada
D.D.S. University of Toronto 1944.
Thesis: Histological findings in the rat following sodium fluoride administration.
- William Thomas Olsen, Jr.....MetallurgyHouston, Texas
B.S. Baylor University 1944.
Thesis: Segregation of binary alloys as a function of the freezing rate.
- Roy Clifford Peterson.....Agricultural EconomicsBerkeley
B.S. University of Minnesota 1935.
- Raymond Wilson Pickering.....Comparative Pharmacology
B.S. 1947. and ToxicologySan Francisco
Thesis: The pharmacology of new antispasmodic agents.
- Eldon Lamar Pippen.....ChemistryNappanee, Indiana
A.B. Manchester College 1942.
Thesis: A new synthesis of 4-methylalkyl chlorides. Synthesis of 13-methylotadecanoic acid.
- Karl Stark Pister.....Civil EngineeringStockton
B.S. 1945.
Thesis: Critical escape gradient for a porous media with a free surface.
- Milos PolivkaCivil EngineeringBerkeley
B.S. 1944.
Thesis: Soil solidification by means of chemical injection.
- Edwin Lloyd Powell, Jr.....Civil Engineering
B.S. United States Military Academy 1941. Washington, District of Columbia
- Enrique Rios-VelazquezCivil Engineering.....Mexico, Distrito Federal
C.E. National University of Mexico 1945.
Thesis: Experimental investigation of plastic bending in steel beams.
- Robert Conrad Rock.....Agricultural EconomicsSan Diego
B.S. 1943.
- William Patrick Rodden.....Civil EngineeringSan Francisco
B.S. 1947.
- Barney RubinChemical EngineeringLos Angeles
B.S. University of California at Los Angeles 1946.
Thesis: Liquid-liquid extraction of metal-organic complexes.
- Hal Kay St.Clair.....Electrical EngineeringGlendale
B.S. 1946.
Thesis: Design of high-frequency counters.
- William Reinhard Scheffer.....Agricultural Technology ISan Pedro
B.S. 1947. (Food Technology)
Thesis: Characteristics of yeast causing clouding of dry white wines.
- Richard Rudolf Schindler.....Civil EngineeringBerkeley
B.S. University of Illinois 1946.
- Edward A Shay.....Mechanical EngineeringSunnyvale
B.S. State University of Iowa 1943.
Thesis: Study of turbulence in non-isotropic pipe flow.

- Pandaranadar SivalingamIrrigationMelur, India
B.E. University of Madras 1944.
Thesis: Construction of dams.
- Edson Walter SkiffElectrical EngineeringLos Angeles
B.S. 1946.
Thesis: Experimental study of an unstable servomechanism.
- Jesse Dave SkossAgronomyLos Angeles
B.S. 1941.
- Ellis Grant SlackMechanical EngineeringLong Beach
B.A.S. 1944.
Thesis: Turbulent heat transfer with high surface temperature: experimental investigation with cylindrical probe in axial air flow.
- Robert Mack TarboxCivil EngineeringRochester, New York
B.S. United States Military Academy 1941.
- Tze-Kuei TungMechanical EngineeringNew York, New York
B.S. Massachusetts Institute of Technology 1946.
Thesis: An analysis of crankshaft bending stress.
- John Benjamin Turner, Jr.Mechanical Engineering
B.S.M.E. University of Arkansas 1941. Silver Springs, Maryland
Thesis: The design and test of a meter for measuring the mass rate of flow of a variable density fluid.
- Bernard Anthony VallergeraCivil EngineeringOakland
B.S. 1943.
Thesis: Some aspects of limit design.
- Jack Morris VogelChemistrySan Diego
A.B. San Diego State College 1942.
- John Ernest WalkerCivil Engineering
B.S. Virginia Polytechnic Institute 1934. Washington, District of Columbia
- Arthur Joseph WalzEntomologyBerkeley
B.S. 1942.
Thesis: Some studies on the life history of the tomato pinworm, *Keiferia lycopersicella* (Busck).
- Shou-Chun WangMechanical EngineeringShanghai, China
B.S. National Southwest Associated University, China, 1943.
Thesis: A rational design procedure for radiant panel cooling.
- John William WeldonChemistryMilwaukee, Wisconsin
B.S. Marquette University 1946.
- Clara Edard WhiteHome EconomicsBerkeley
B.S. Southern University, Scotlandville, Louisiana, 1943.
Thesis: The utilization of carotene and vitamin A during pregnancy and hyperthyroidism in rats.
- Willard Forest WilliamsAgricultural EconomicsLarkspur
B.S. Oregon State College 1947.
- Walter Lloyd WinegarCivil EngineeringSalt Lake City, Utah
B.S. United States Military Academy 1939.
- John Eloi WiseSoil ScienceLos Angeles
B.S. 1943.
- Richard Duncan WolfeChemistrySeattle, Washington
B.S. United States Military Academy 1939.
Thesis: Radioactivities produced in the platinum group by bombardment of uranium with 400 million electron volt helium ions.
- Frederick Bernard WoodElectrical EngineeringBerkeley
B.S. 1941.
Thesis: Coupling of power from a resonant circuit to waveguide or load at microwave frequencies.
- Victor Francis ZackayMetallurgySan Francisco
B.S. 1947.
Thesis: Activities in liquid metallic solutions.

****The Degree of Master of Arts upon**

- Donald Putnam Abbott.....Zoölogy San Diego
A.B. University of Hawaii 1941.
- Henry Joseph Aigner.....English Glen Ellen
A.B. St. Joseph's College 1936.
- Edith Wetsel Ainsworth.....Mathematics Berkeley
A.B. 1946.
- Donald George Anderson.....Education Oakland
A.B. 1935.
- Loren Henry Angel.....Geology Berkeley
A.B. 1947.
Thesis: Geology of a portion of the St. Helena Quadrangle, California.
- Robert Pigott apRoberts.....English .. Vancouver, British Columbia, Canada
A.B. University of British Columbia 1940.
- Rodney Dale Arner.....Mathematics Pomona
A.B. University of California at Los Angeles 1945.
- Rosemary ArnoldFrench San Francisco
A.B. 1946.
- Betty AttwaterArt San Francisco
A.B. 1947.
- Stewart Barton Axtell.....Psychology Berkeley
A.B. University of California at Los Angeles 1940.
Thesis: Diagnostic profiles on the Minnesota Multiphasic Personality Inventory.
- Max BachFrench Berkeley
A.B. 1942.
- Helen Marie Beck.....Economics ... Washington, District of Columbia
A.B. 1947.
Thesis: The principle of representation in the legislature of California with special reference to labor.
- Frank Edward Belcher.....French San Francisco
A.B. 1947.
- Wilmer Kersey Benson, Jr.....Physics Wyoming, Delaware
B.Mech.Eng. University of Delaware 1937.
- Rudolph Carl Blitz.....Economics Berkeley
A.B. Earlham College 1940.
Thesis: The policy of the German Social Democrats during World War I.
- Barbara Joy Blume.....International Relations San Francisco
A.B. 1947.
Thesis: Withdrawal from the United Nations.
- Paul Magnus Blunk.....Mathematics Fair Oaks
A.B. 1941.
- Hudson James Bond.....Psychology Berkeley
A.B. 1941.
Thesis: Meaningful social dimensions from cluster analysis.
- Walter Raymond Borg.....Education Roseville
A.B. San Diego State College 1943.
- Lloyd Joseph Borstelmann.....Psychology Ventura
B.S. University of California at Los Angeles 1941.
Thesis: Voting behavior as an expression of social attitudes.
- Anthony Trawick Bouscaren.....Political Science San Francisco
A.B. Yale University 1946.
Thesis: The Christian Democrat Parties.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Elizabeth Ann Brett.....MathematicsSanta Barbara
A.B. Duke University 1944.
- James Coble Brice.....GeologyUnion City, Tennessee
B.S. University of Alabama 1942.
Thesis: Geology of a portion of the Lower Lake Quadrangle, California.
- John William Burfening.....PhysicsReno, Nevada
B.S. United States Military Academy 1940.
- Sherwood Denn Burgess.....HistoryOakland
A.B. 1940.
Thesis: Early history of the Oakland water supply, 1850-1876.
- Sandor Gershon Burstein.....PhysiologySan Francisco
A.B. 1947.
Thesis: Studies on the effects of potassium and of digitalis on the failing heart in the heart-lung preparation.
- Raymond Eugene Butler.....PhysicsOakland
A.B. 1946.
- Joseph Alexander Cain.....ArtOakland
A.B. 1947.
- Delia Doris Campbell.....SpanishBuenos Aires, Argentina
Grad. University of Buenos Aires 1942.
- Douglas Carroll Campbell.....EnglishVallejo
A.B. 1947.
- Teh-Show Cheng.....Political ScienceChekiang, China
A.B. 1947.
Thesis: Police systems in California.
- Chin Long Chiang.....StatisticsShanghai, China
Grad. National Tsing Hua University 1940.
Thesis: Statistical study of the problem of diagnosis.
- Robert Ira Cloos.....GermanTulsa, Oklahoma
A.B. Grove City College 1943.
- Rex A Collings, Jr.....Political ScienceSouth Pasadena
A.B. 1935.
Thesis: Administrative aspects of naval justice.
- Charles Cornelius Collins.....EducationCoalinga
A.B. 1940.
- Roslyn Reisel Cooperman.....HistoryBrooklyn, New York
A.B. New York University 1945.
Thesis: The free worker in colonial Massachusetts.
- James Fifield Crane.....Political Science
B.S. Harvard University 1944. Washington, District of Columbia
Thesis: Public opinion and the foreign aid program.
- Albert Croutch.....EconomicsBeverly Hills
A.B. Wayne University 1943.
Thesis: Housing migratory agricultural workers in California, 1913-1948.
- Emery Joseph Curtice.....EducationOakland
A.B. 1930.
- William Olmstead Damon.....ArtVentura
A.B. 1947.
- Maryann Danielson.....BiochemistrySan Pedro
A.B. 1946.
- Robert Philip Danielson.....ArchitectureEvanston, Illinois
A.B. Harvard University 1943.
- Paul Victor De Ford, Jr.....HistorySan Francisco
A.B. 1946.
Thesis: In defense of empire: the Southern Pacific *versus* the Texas and Pacific.

- Paul Augustus Dehnel Zoölogy San Diego
 A.B. San Diego State College 1943.
Thesis: Analysis of variation in some western races of the hairy woodpecker,
Dendrocopos villosus.
- George Sheridan Devany French Oakland
 A.B. 1947.
- Keith Lee Dixon Zoölogy La Mesa
 A.B. San Diego State College 1943.
Thesis: The behavior of the plain titmouse.
- Theodore Downs Zoölogy Emporia, Kansas
 B.S. Kansas State Teachers College, Emporia, 1941.
Thesis: Pleistocene birds from the Jones fauna of Kansas.
- Fred Pittman Ellison Spanish Denton, Texas
 A.B. University of Texas 1941.
- Henry Chase Ely English Lyme, Connecticut
 A.B. Williams College 1946.
- Beulah Waskow Englesberg Psychology Richmond
 A.B. 1947.
Thesis: Some social and economic factors in relation to voting participation.
- Ellis Englesberg Bacteriology Petaluma
 A.B. Brooklyn College 1945.
- Donald Hicks Ewing English Salem, Oregon
 A.B. Willamette University 1940.
- Gilbert Louis Fazio Political Science San Francisco
 A.B. 1943.
Thesis: The political ideas of Henry A. Wallace.
- William J Feole Italian Hemet
 A.B. 1938.
- William Howard Fink Economics Findlay, Ohio
 B.S. Ohio State University 1932.
Thesis: Copper, cartels, and prices: 1915-1947.
- Ralph Talcott Fisher, Jr. History Oakland
 A.B. 1942.
Thesis: The Comintern in Russian foreign policy, 1919-1923, with emphasis on
 its European aspect.
- Douglas M Frame Political Science Sacramento
 A.B. 1947.
Thesis: The Pacific Coast Federal Regional Council as an instrument for federal
 interagency coordination.
- Herman Bernard Fredman History Los Angeles
 A.B. University of California at Los Angeles 1943.
Thesis: The monetary theory of Arai Hakuseki.
- David Fruchtman Education Pacific Grove
 A.B. 1943.
- Joseph Francis Garcia Physiology Hayward
 A.B. 1947.
Thesis: The production of ketonemia by the injection of growth and adrenocortico-
 tropic hormone.
- Ernest Germano Art Berkeley
 A.B. 1948.
- Constantine Glaskides Physiology San Francisco
 A.B. 1947.
Thesis: Studies of the effects of adrenocorticotrophic hormone and of growth hor-
 mone on glucose tolerance and insulin sensitivity of normal rats.

- Gerald GoldsteinHistoryBronx, New York
A.B. Brooklyn College 1944.
Thesis: The economic basis of agrarian unrest in the progressive period.
- Gordon Reeve GouldArchitectureSan Diego
A.B. 1943.
- Colin David GrahamArtVictoria, British Columbia, Canada
A.B. University of Cambridge 1939.
- Louise Beyer GridleyEducationMarion, Iowa
B.S. Coe College 1915.
- Eugene Clinton HaderlieZoölogyAnaheim
A.B. 1943.
Thesis: A preliminary survey of the internal helminth parasites of some Clear Lake fishes.
- Cadet Hammond Hand, Jr.ZoölogyDanielson, Connecticut
B.S. University of Connecticut 1946.
- Esther Angela HartmanEducationLos Angeles
A.B. University of Nebraska 1937.
- Helen Blom HennikerHistoryBerkeley
A.B. University of Washington 1944.
Thesis: The beginnings of nativism in California, 1848–1852.
- Ruth Roth HerndonEducationSan Francisco
A.B. San Francisco State Teachers College 1931.
- John Wilbur Hicks, Jr.PhysicsGreenville, South Carolina
B.S. Furman University 1944.
- Milton Herbert HoehnMathematicsBerkeley
A.B. 1947.
- L Jane HohfeldMusicSan Francisco
A.B. Vassar College 1944.
Thesis: The use of the variation principle in instrumental music of the Early-Middle Baroque.
- Virgil Sydney HollisEducationOakland
A.B. Humboldt State College 1939.
- Stanley Maxfield HonerSociology and Social InstitutionsBerkeley
A.B. 1941.
- Valerie M HurstBacteriologyLa Grange, Illinois
B.S. University of Chicago 1943.
Thesis: Pleomorphism of the oral actinomycetes.
- William Hyde IrwinArtSan Francisco
A.B. Stanford University 1925.
- Arthur Leonard JacobsonArchitectureOntario
A.B. 1947.
- Alta Gordon JenkinsEducationDeer Lodge, Montana
B.S. Montana State College 1935.
- James Norman JensenHistoryOakland
A.B. San Francisco State College 1941.
Thesis: The Battle of Tannenberg, August 23–31, 1914.
- Bryan Theodore JohnsEconomicsClaremont
A.B. 1947.
Thesis: Field workers in California cotton.
- Daniel Emil JohnsonPsychologyBerkeley
A.B. Augustana College, Rock Island, Illinois 1943.
Thesis: An investigation of individual differences of speed in reading longhand as a possible dimension of clerical aptitude testing.
- Elizabeth Mau JonesEducationOakland
A.B. 1942.

- Margaret Ellen Kahn.....EnglishBerkeley
A.B. 1934.
- Edwin Henry Kaye.....HistoryNorth Hollywood
A.B. University of California at Los Angeles 1946.
Thesis: Beginnings of smallpox vaccination in Spanish South America.
- Thelma Dorothy M Kesseli.....HistorySanta Ana
A.B. 1931.
Thesis: The railroad as an agency of settlement in California, 1870-1890.
- John Kerry King.....Political ScienceSan Francisco
A.B. 1947.
Thesis: Compulsory jurisdiction under Article 36 of the Statute of the International Court of Justice.
- Annette Wollman Kleeman.....BiochemistryLos Angeles
B.S. University of California at Los Angeles 1945.
- Barton Harvey Knowles.....HistorySan Francisco
A.B. 1939.
Thesis: The early history of San Francisco's water supply, 1776-1858.
- June Marilyn Krahn.....EducationOakland
A.B. Mills College 1947.
- Mary KrigerSlavic Languages and Literatures....Berkeley
A.B. 1947.
- Anna Mae Larson.....BiochemistrySan Francisco
A.B. 1944.
- Barbara Isabel Landrie.....PhysiologySan Francisco
A.B. 1946.
Thesis: The effect of growth hormone and of adrenocorticotrophic hormone on diabetic rats maintained on a carbohydrate-free diet.
- Ruth MacCannon Lavare.....EnglishBerkeley
A.B. 1946.
- Po LeePhysicsChungking, China
B.S. La Universitato Utopia, China, 1932.
- Robert Greeley Lee.....Political ScienceBridgeport, Connecticut
A.B. Dartmouth College 1944.
Thesis: The Berkeley municipal election of 1947: a study in voting behavior.
- Edwin LieuwenHistoryHolland, Michigan
A.B. 1947.
Thesis: The early career of Pedro Menéndez de Avilés, 1519-1565.
- Al M Loeb.....International Relations ...Brainerd, Minnesota
B.S. University of Minnesota 1941.
Thesis: Political, economic, and social aspects of trusteeships under the Charter of the United Nations.
- Emmett Long, Jr.....EducationBerkeley
A.B. 1946.
- Sze Shing Luk.....Political ScienceHongkong, China
A.B. Lingnan University 1943.
Thesis: A study of the Nazi propaganda machine in Germany, 1933-1939.
- Martin George McAndrews.....GeologyBerkeley
A.B. 1941.
Thesis: Petrography of upper Miocene sandstones, southern Santa Cruz County, California.
- Lawrence Raymond McAneny.....PhysicsSeattle, Washington
B.S. University of Kansas 1946.
- Fred George McCombs.....EducationVallejo
A.B. Chico State College 1935.
- Mildred Campbell McCutcheon.....ArtPhiladelphia, Pennsylvania
A.B. University of Pennsylvania 1942.

- Edward Gorham McGrath.....HistorySacramento
A.B. 1939.
Thesis: California labor legislation concerning industrial disputes, 1941–1947,
with special reference to “hot cargo” and secondary boycott.
- William Clyde McKinney.....HistoryVisalia
A.B. St. Mary's College 1936.
Thesis: The Mussel Slough episode: a chapter in the settlement of the San Joaquin
Valley, 1865–1880.
- Virgil Standish Mallory.....PaleontologyEast Orange, New Jersey
A.B. Oberlin College 1946.
Thesis: Eocene Foraminifera from Media Agua Creek, Kern County, California.
- John Sayre Martin.....EnglishBerkeley
A.B. 1943.
- Oscar Maurits Matson.....GermanEscondido
A.B. 1946.
- John MetroPsychology .Victoria, British Columbia, Canada
A.B. University of British Columbia 1945.
Thesis: Development of a test for the investigation of conceptual behavior in
relation to intelligence and personality.
- Louis Richard Miller.....HistoryBurlingame
A.B. 1947.
Thesis: The history of the San Francisco and San Jose Railroad.
- William Delmer Miller.....EducationBerkeley
B.S. Brigham Young University 1940.
- Arthur Jack Misner.....Political ScienceBerkeley
A.B. 1942.
Thesis: Organization and administration of Region Five, United States Forest
Service.
- Robert Earl Morrill.....EducationBerkeley
B.S. 1938.
- Harry LeRoy Morrison, Jr.....Political ScienceOildale
A.B. 1947.
Thesis: Political aspects of the scientific management movement.
- Robert Merriman Morton.....MusicSan Francisco
A.B. 1946.
Thesis: Duo sonata for violin and piano.
- John Doc Motlow.....HistoryBerkeley
A.B. 1947.
Thesis: The “gigantic misunderstanding”: armored warfare and the French
Army, 1926–1940.
- Garth MurphyZoölogyDunsmuir
A.B. 1943.
Thesis: Distribution and variation of the roach (*Hesperoleucus*) in the coastal
region of California.
- Paul Lloyd Murphy.....HistoryCaldwell, Idaho
A.B. College of Idaho 1947.
Thesis: Irrigation in the Boise Valley, 1863–1903: a study in pre-federal irriga-
tion.
- Louis Philip Nash.....MusicLa Jolla
A.B. University of California at Los Angeles 1944.
Thesis: Stylistic aspects of the church music of William Byrd.
- Anita Rae Navon.....Slavic Languages and Literatures.....Modesto
A.B. 1946.
- Nels Buckhoff Nelson.....Political ScienceBerkeley
A.B. 1947.
Thesis: The Dominican Republic and the United States since 1930.

- I Irene Nordling History Burlingame
A.B. 1947.
Thesis: New England opposition to Jefferson on religious grounds.
- Mabel Claire O'Brien Education Sacramento
B.S. 1925.
- Kathleen Baxter O'Keefe Mathematics Berkeley
A.B. 1946.
- Robert Sheldon Oliver, Jr. Architecture San Francisco
A.B. 1943.
- Robert Adiel Olson Physical Education Oakland
A.B. San Francisco State College 1943.
Thesis: Attitudes concerning recreation with reference to socio-economic status,
children's participation, and other factors.
- Reinaldo Pagano Economics San Francisco
A.B. San Francisco State College 1936.
Thesis: History of the Building Service Employees' International Union in San
Francisco, 1902-1939.
- Clarence Winslow Page, Jr. Physiology Berkeley
A.B. 1946.
Thesis: A study of the metabolism of the alkaline earth metals as shown by radio-
active tracers.
- Helen Dunn Parker Education San Francisco
A.B. 1925.
- Virginia Mae Parker Economics Madison, Wisconsin
A.B. University of Wisconsin 1941.
Thesis: Investigation of a copper stock piling program for the United States.
- James Bunyan Parsons History Fresno
A.B. Fresno State College 1943.
Thesis: European concepts of Chinese Buddhism, 1550-1750.
- Donald Earle Pehlke Education Fairfax
B.S. Oregon State College 1941.
- Jasper Augustus Perino Education Chicago, Illinois
A.B. 1932.
- Gaynor Petrequin Political Science Portland, Oregon
A.B. 1945.
Thesis: France and the Viet-Nam Republic.
- John Leddy Phelan History Fall River, Massachusetts
A.B. Harvard University 1947.
Thesis: The philosophical and political thought of Francisco Clavigero, S.J.: a
study in *criollismo*.
- Elizabeth Hazel Pollak Psychology San Francisco
A.B. 1945.
Thesis: Aptitude testing for dental technicians.
- Joseph Cole Putnam Political Science Berkeley
A.B. 1943.
Thesis: James F Byrnes and the European peace settlement, July 1945-January
1947.
- Emil I Ramos Spanish Fairfield
A.B. 1937.
- Charles Hooper Reed Education Berkeley
A.B. University of California at Los Angeles 1945.
- William Nigel Reich Physiology Orinda
A.B. 1945.
Thesis: Studies on alloxan-diabetic rats maintained on carbohydrate-free diets.

- Virgil Archie Revie.....PsychologySan Francisco
A.B. 1947.
Thesis: The measurement of personal and interpersonal vagueness in the use of words.
- John Joseph Reynolds.....SpanishRedwood City
A.B. 1946.
- Eleanor Gertrude Robison.....EducationHercules
A.B. 1928.
- Mario RodríguezSpanishRichmond
A.B. 1946.
- Rafael Lucas Rodríguez.....Botany Berkeley
Grad. University of Costa Rica, 1947.
- Delia Rainey Roeder.....EducationRichmond
A.B. 1944.
- Hazel Louise Rogers.....EducationOakland
A.B. 1931.
- Benjamin George Rosenberg.....PsychologySan Francisco
A.B. 1947.
Thesis: Quantitative description of psychological homogeneity of social groups.
- Charles Roy Routsong.....EducationDayton, Ohio
B.S. Ohio State University 1926.
- Joseph David Rubinstein.....HistoryTucson, Arizona
A.B. University of Arizona 1947.
Thesis: Anacharsis Cloots (1755–1794), orator of the human race.
- George William Salt.....ZoölogySan Francisco
A.B. University of California at Los Angeles 1942.
- William Keyser Saunders.....MathematicsSan Francisco
B.S. Yale University 1937.
- Verna Marie Schmidt.....ArchitectureAlameda
A.B. 1947.
- Helen Dean Schnacke.....EnglishDayton, Ohio
A.B. Smith College 1945.
- Robert James Schweers.....PsychologySeattle, Washington
B.S. University of Washington 1944.
Thesis: Some personality correlates of essential hypertension.
- Theodore Eugene Seamans.....SpanishPeoria, Illinois
A.B. Bradley Polytechnic Institute 1934.
- Malcolm Pomfret Sharp.....EducationSelma
A.B. Pomona College 1929.
- Leroy Robert Shaw.....GermanPetaluma
A.B. 1946.
- Oliver Frederic Sigworth.....EnglishGlendale, Arizona
A.B. 1947.
- Saul Charles Skolnick.....EducationBrooklyn, New York
A.B. Brooklyn College 1941.
- Francis Wilson Smith.....HistoryBerkeley
A.B. Amherst College 1947.
Thesis: Herbert Hoover's *American Individualism* in the history of American thought.
- Frances Kite Smyrl.....EnglishSan Francisco
A.B. Mills College 1944.
- Hipólito Ibrahim Soltero.....EconomicsCaracas, Venezuela
B.S.A. University of Puerto Rico 1932.
Thesis: The agrarian problem in the Venezuelan economy.

- Elma Mae Steck Physical Education Columbus, Ohio
B.S. Ohio State University 1946.
Thesis: Competitive softball for girls: a survey of status and a study of participants.
- Francis Gilbert Stoffels Political Science Roseville
A.B. San Jose State College 1943.
Thesis: Public ownership of utilities in a small California community.
- Avrum Stroll Philosophy Oakland
A.B. 1943.
- George Luman Strong History Berkeley
A.B. Chico State College 1947.
Thesis: The United States and the Republic of Argentina, 1920–1932.
- Helen Elizabeth Supplee Biochemistry Berkeley
A.B. 1946.
- Donald Laverne Thistlethwaite Psychology Chicago, Illinois
B.S. Northwestern University 1946.
Thesis: Effect of attitudes and beliefs upon reasoning.
- Serena Elmira Thompson Zoölogy Menlo Park
A.B. San Jose State College 1947.
- Stephen David Thornton, Jr. Chemistry El Cajon
A.B. San Diego State College 1942.
- Edgar Lynn Turgeon Economics San Martin
A.B. 1942.
Thesis: The economic effects of World War II on the electronics industry.
- Seth Powers Ulman English Lemoore
A.B. 1942.
- Edith Roxana Varney French Berkeley
A.B. University of Saskatchewan 1921.
- William Richard Welty Physics Nogales, Arizona
B.S. University of New Mexico 1944.
- John Edward Whitney Physiology Piedmont
A.B. 1947.
Thesis: Studies on the effect of growth hormone on nitrogen metabolism in adult female rats.
- Eleanor Cleveland Williams Art Waterloo, Iowa
A.B. State University of Iowa 1937.
- Helen M Willson History Berkeley
A.B. Geneva College 1935.
Thesis: The development of the southerner's concept of the Yankee.
- Richard Barton Wilson Political Science Berkeley
A.B. 1943.
Thesis: The senatorial interpretation of the United Nations Charter.
- Donald DeVine Woodington Education Oakland
B.S. Wisconsin State Teachers College, Eau Claire, 1940.
- Dai Kyin Yin Physics Kashing, China
B.S. National Tsing Hua University 1933.

The Degree of Bachelor of Laws (School of Jurisprudence) upon

- Robert Gemmell Adams, Jr. (A.B. 1946) Oakland
Muriel Blanche Allen (A.B. University of California at Los Angeles 1944) Azusa
William Samuel Andrews, Jr. (A.B. 1940) Berkeley
Daniel Aronson, Jr. (A.B. 1941) San Francisco
Donald Parsons Barrett (A.B. 1941) Pasadena
St. John Barrett (A.B. Pomona College 1943) Santa Rosa

Cecil Joseph Bishop (A.B. 1942)	Sacramento
Martin Bordon (A.B. University of California at Los Angeles 1941)	Los Angeles
Samuel Bradbard (B.S. United States Naval Academy 1934)	Berkeley
Harry Raymond Carlton, Jr. (A.B. 1942)	Visalia
August Frank Cetti (A.B. Fresno State College 1941)	Fresno
Douglas Stewart Chase (A.B. 1940)	Oakland
Don Gilmore Christenson (A.B. Brigham Young University 1941)	Fayette, Utah
Barnet Morris Cooperman (A.B. 1943)	Los Angeles
Sam Mordo Dana (A.B. 1943)	San Francisco
Douglas Dolman Deaper (B.S. 1941)	San Francisco
Richard Hill Dunlap (A.B. 1943)	Los Angeles
Warren Harold Eckert (A.B. Park College 1940; B.S. University of Missouri 1941)	San Diego
Richard W Erskine (A.B. 1941)	Los Angeles
Gloria Jeanne Farquar (A.B. University of California at Los Angeles 1944)	South Gate
Isabelle Joyce Finlay (A.B. 1946)	Berkeley
Harry Gold (A.B. University of California at Los Angeles 1938)	San Fernando
Ernest Powers Goodman (A.B. 1942)	San Francisco
Westerdahl William Gudmundson (A.B. 1946)	Berkeley
Winston Edward Halley (A.B. 1943)	San Francisco
Clifton Gordon Harris, Jr. (A.B. 1940)	Oakland
Mary Ellen Hubbard (A.B. 1946)	Berkeley
Sam Kagel (A.B. 1929)	Oakland
Kenyon Carl Keller (A.B. University of California at Los Angeles 1939)	Glendale
Harold Thomas King (A.B. 1941)	Sacramento
William Hall Lally (A.B. 1941)	Berkeley
Alfred Jackson McCourtney (A.B. 1940)	Berkeley
Harold Delmar Mefford (A.B. University of Colorado 1938)	Tulare
Francis Joseph Muldoon (A.B. San Francisco State College 1939; M.A. Stanford University 1941)	San Francisco
Frances Mary Newell (A.B. 1945)	Berkeley
John Martin Price (A.B. 1940)	Natoma
Leland Floyd Reaves (A.B. Fresno State College 1944)	Bakersfield
Edgar Spurgeon Rothrock (A.B. 1940)	La Verne
Wallace Wright Scales (B.S. Agricultural and Mechanical College of Texas 1940)	San Antonio, Texas
Milton Lewis Schwartz (A.B. 1941)	Sacramento
Walter Glen Schwartz (A.B. San Francisco State College 1940)	San Francisco
Lyle Hilton Shattuck (A.B. 1937)	Lodi
Bernard Shevach (A.B. Reed College 1941)	Portland, Oregon
Francis Larry Sinclair (A.B. East Carolina Teachers College 1937; M.A. George Peabody College 1940)	Sacramento
Bob Vernon Smith (A.B. 1938)	Oakland
William Eppinger Sommer (A.B. 1940)	San Diego
Warren Karl Taylor (B.S. 1941)	Ventura
Robert Stewart Thaman (A.B. 1942)	Berkeley
Barbara Harris Thornton (A.B. 1945)	Visalia
Harold Joseph Thorsen (A.B. Stanford University 1938)	Oakland
James Lowell Tipton (A.B. Nebraska Wesleyan University 1941)	Los Angeles
Gary Jerome Torre (A.B. 1941)	Oakland
Ann Wansley (A.B. 1945)	San Diego
William Grant Watson, Jr. (A.B. 1940)	Berkeley
Howard William Wayne (A.B. 1945)	Berkeley
Clinton Wayne White (A.B. 1946)	Sacramento
Max Wilcox, Jr. (A.B. 1941)	San Francisco
Spencer Mortimer Williams (A.B. University of California at Los Angeles 1943)	San Fernando
Leonard Albert Wilson (A.B. 1941)	Bell
Philip Alwin Winter (B.S. 1940)	Oakland
Mary Ann Cassiday Winters (A.B. Rockford College 1943)	Des Moines, Iowa
Robert Kingston Winters (A.B. 1943)	Kenton, Ohio

The Degree of Doctor of Medicine (Medical School) upon

Lewis Clarke Aaronsen (B.S. University of Missouri 1946)	San Francisco
Richard L. Anderson	San Francisco
Grant Eugene Baro (A.B. 1945)	Modesto
Richard Fenn Barquist (A.B. 1945)	South Newton, Iowa
Virginia MacWethy Barrett (A.B. Rockford College 1943)	Dixon, Illinois
Glory Mildred Baxter (A.B. 1945)	Los Angeles
William Campbell Blair (A.B. 1946)	Berkeley
Erwin Howard Braff (A.B. 1945)	Brooklyn, New York
James Carrington Bramham, Jr. (A.B. Santa Barbara College 1943)	Ventura
Thomas Nathaniel Burgridge (A.B. Talladega College 1941)	New Orleans, Louisiana
John Vito Carbone (A.B. 1945)	Roseville
Emil Francis Cava (A.B. San Jose State College 1943)	San Jose
Lee Norman Clark (A.B. Fresno State College 1939)	Modesto
John Emerson Comstock (A.B. 1945)	Pocatello, Idaho
William Francis Crepps (A.B. 1945)	Wichita, Kansas
Robert Lee Driver (B.S. 1936 and M.S. 1937 University of Tennessee; Ph.D. University of Rochester 1940)	Humboldt, Tennessee
Floyd Merrill Estess (A.B. 1945)	Sacramento
Lawrence Zangwell Feigenbaum (A.B. 1945)	San Francisco
William Yan Fong (A.B. 1945)	Sacramento
John Joseph Fuery (A.B. 1945)	Berkeley
Waldron Raymon Gardiner, Jr. (A.B. 1945)	San Francisco
Ernest Krum Goodner	Berkeley
Gordon Wallace Grace (A.B. 1945)	Los Angeles
George David Guido, Jr. (A.B. 1945)	San Mateo
Alvin Sargent Hambly, Jr. (A.B. 1945)	Berkeley
Bernard Stanley Hellinger (A.B. 1945)	Brooklyn, New York
Raymond Conrad Herold	Los Angeles
Harrison Mason Hohl (A.B. 1945)	Hollywood
William Emil Iaconetti (A.B. 1945)	Berkeley
Albert Kalman (B.S. City College of New York 1942)	Berkeley
Charles Donald Kitch (A.B. 1945)	Glendale
Richard Allen Koons (A.B. 1944)	Belmont
Harry Kopman (A.B. 1945)	Los Angeles
Robert Weirich Leipold (A.B. 1945)	Mt. Union, Pennsylvania
Grant Winder Liddle (B.S. University of Utah 1943)	Salt Lake City, Utah
Thurid Behrens Lininger (A.B. 1944)	Berkeley
Joyce Loutzenheiser (A.B. 1945)	San Francisco
James McLaren Lyon (A.B. 1945)	Hanford
James Francis McKenna	New Haven, Connecticut
Adolfo Malo-Iglesias (Grad. University of Panama 1942)	Panama City, Panama
Alan Joel Margolis (A.B. 1945)	San Francisco
Talmage McKinley Martin, Jr. (A.B. 1945)	Elberton, Georgia
James Allen Merrill (A.B. 1945)	Long Beach
Bertram Milton Meyer (A.B. 1945)	Los Angeles
William John Morris	Sacramento
Jane Willits Owen (A.B. 1943)	San Francisco
Peter Packard (A.B. 1945)	Flushing, Michigan
Robert Neil Philip	Hamilton, Montana
Evaline West Plucknett (A.B. Peru State Teachers College 1938; M.S. Iowa State College 1942)	Long Beach
Walter Edwin Puddy, Jr. (A.B. 1945)	Los Angeles
Gordon Keith Pyles (A.B. 1945)	Washington, District of Columbia
Leon Rosen (A.B. 1945)	Bakersfield
Eugene Carl Sandberg (A.B. 1945)	Ashtabula, Ohio
Mary Gardner Schottstaedt (A.B. 1945)	Berkeley
William Walter Schottstaedt (A.B. 1937)	Fresno
Glenn Elmer Sheline (B.S. 1939; Ph.D., 1943)	Pomona
Bertram Clifford Solomon (A.B. 1945)	San Francisco

Carol Spaulding (A.B. Stanford University 1943) Belvedere
 Elliott Edmund Stearns, Jr. (A.B. 1945) Shaker Heights, Ohio
 George William Stevenson Salt Lake City, Utah
 Robert Jesse Stoller (A.B. 1945) Mt. Vernon, New York
 Herbert George Tearse Jamaica, New York
 Edward Eugene Tueller Mountain Home, Idaho
 Wilton Emile Vannier Sierra Madre
 Joseph Waterman (A.B. University of California at Los Angeles 1935) Venice
 Donald Andrew Weinberg Renton, Washington
 Gladys Russell Whipple (A.B. 1945) Bakersfield
 Barbara Eunice Williams (A.B. Mt. St. Mary's College 1937;
 M.A. Occidental College 1940) San Francisco

The Degree of Doctor of Education (School of Education) upon

Angela Louise Mensing Elementary Education . . . St. Paul, Minnesota
 B.S. 1929 and M.A. 1934 Teachers College, Columbia University.
Thesis: A critical evaluation of books used in basic courses in elementary education.
 Winston Counter Strong Vocational Education Berkeley
 A.B. Stanford University 1932; M.A. 1942.
Thesis: Federally aided agricultural education at the junior college level.

The Degree of Mechanical Engineer upon

Sital P Alira Mirpurkhas, India
 B.S. Benares Hindu University 1945.
Thesis: Machinability.
 El-sayed Abdel-Hamid Sorour Cairo, Egypt
 B.S. Fouad I University 1939.
Thesis: Energy loss at the intersection of two circular conduits with converging
 incompressible-fluid flow.

The Degree of Doctor of Philosophy upon

Henry Ward Alter Chemistry Berkeley
 A.B. 1943.
Thesis: The thermal isomerization of some substituted stilbenes.
 Oscar Gray Bacon Entomology Sanger
 A.B. Fresno State College 1941; M.S. 1944.
Thesis: The Catalina cherry moth, *Melissopus latiferreanus* (Walsingham): its
 biology in relation to walnuts in California.
 Walter Carlisle Barber Physics Logan, Utah
 B.S. Utah State Agricultural College 1940.
Thesis: East-west asymmetry of cosmic rays at 30,000 feet.
 Blair Ralph Bartlett Entomology Montebello
 B.S. 1936; M.S. 1938.
Thesis: Studies on the nature and causes of insecticide-resistant races of insects.
 Kurt Bergel German Deep Springs
Thesis: Der Briefwechsel von Georg Brandes und Arthur Schnitzler.
 Francis Howe Bird Animal Nutrition Berkeley
 B.S. University of Michigan 1936.
Thesis: Magnesium deficiency in the chick: a neuropathologic and biochemical
 study.
 Harold Eugene Boaz Chemistry Ottawa, Ohio
 A.B. Ohio State University 1942.
Thesis: The quenching of fluorescence in solution: A. Deviations from the Stern-
 Volmer Law. B. Mechanisms of the reaction.
 Kenneth Elliott Bock Social Institutions Modesto
 A.B. 1937; M.A. 1941.
Thesis: The comparative method.

- LeRoy Alton Bromley Chemistry Napa
 B.S. 1941; M.S. Illinois Institute of Technology 1943.
Thesis: Heat transfer in stable film boiling.
- Edward Charles Cantino Plant Physiology Oakland
 A.B. 1943.
Thesis: The nutrition and metabolism of the aquatic Phycomycete, *Blastocladia pringsheimii*.
- Vincent Phillip Carosso, Jr. History San Francisco
 A.B. 1943; M.A. 1944.
Thesis: The commercial development of California viniculture, 1830–1890.
- Floyd Dale Carroll Animal Nutrition Bostwick, Nebraska
 B.S. University of Nebraska 1937; M.S. University of Maryland 1939.
Thesis: The synthesis of B complex vitamins in the intestinal tract of the horse.
- Sidney Samuel Chernick Physiology Los Angeles
 A.B. University of California at Los Angeles 1943; M.A. 1945.
Thesis: Alteration of the enzyme content of the pancreas by dietary means.
- Louise Hoy Chin Mathematics San Francisco
 A.B. 1943; M.A. 1944.
Thesis: Distributive and modular laws in relation algebras.
- George William Creel English Denver, Colorado
 A.B. 1938 and M.A. 1939 University of Denver.
Thesis: The poetry of George Eliot.
- Evelyn Fix Statistics Berkeley
 A.B. 1924, B.S. 1925, and M.A. 1933 University of Minnesota.
Thesis: I. Distributions which lead to linear regressions. II. The effectiveness of several types of incendiary bombs in attacks on industrial buildings. III. The theory of bombing.
- Leslie Lawrence Foldy Physics Cleveland Heights, Ohio
 B.S. Case School of Applied Science 1941; Ph.M. University of Wisconsin 1942.
Thesis: Four studies in theoretical physics: I. The theory of the synchrotron. II. Theory of the synchro-cyclotron. III. On the meson theory of nuclear forces. IV. The energy-momentum relation for particles interacting with fields.
- Jacob Karl Frenkel Comparative Pathology Berkeley
 A.B. 1942.
Thesis: Experimental and clinical studies of toxoplasmosis.
- Carlo Luigi Golino Romance Literature Bronx, New York
 A.B. College of the City of New York 1936; M.A. Columbia University 1937.
Thesis: The life and works of Alfredo Panzini.
- Robert Lee Gulick, Jr. Education El Cerrito
 A.B. Chico State Teachers College 1933; M.A. 1941.
Thesis: Evaluation of pamphleteering techniques.
- Robert Mower Hagan Soil Science Oakland
 B.S. 1937; M.S. 1942.
Thesis: Aeration as a factor in plant-soil-water relations.
- George Howard Herbig Astronomy Los Angeles
 A.B. University of California at Los Angeles 1943.
Thesis: A study of variable stars in nebulosity.
- Edgar Joseph Hinkel Psychology San Francisco
 A.B. St. Mary's College 1926; M.A. 1928.
Thesis: Juvenile delinquency in peace and war: a study of male offenders appearing before the San Francisco Juvenile Court.
- Hilde E Zwirn Hirsch Botany Jerusalem, Palestine
 M.S. Hebrew University 1944.
Thesis: The cytogenetics of sex in *Hypomyces solani* f. *cucurbitae*.
- Elizabeth Rudisill Homann English Santa Rosa
 A.B. 1937; M.A. 1940.
Thesis: Kinesthetic imagery in Chaucer.

- Wendell A Horning.....PhysicsLeslie, Michigan
A.B. Oberlin College 1936; M.S. Michigan State College 1938.
Thesis: Nuclear reactions at high energies.
- Ruth DeMar House.....Romance LiteratureIowa City, Iowa
A.B. 1940 and M.A. 1941 State University of Iowa.
Thesis: A study of formulas and repetition in the Spanish ballad.
- Frank Matthew Huennekens, Jr.....ChemistrySan Diego
B.S. 1943.
Thesis: The photochemistry of the tetraphenylporphyrins.
- Henry HurtigEntomologyEdmonton, Alberta, Canada
B.S. University of Alberta 1941.
Thesis: Field and wind tunnel investigations of deposits obtained from insecticidal aerosol clouds.
- Helen Caroline Jackins.....MicrobiologyGlasgow, Montana
B.S. University of Washington 1941.
Thesis: The metabolism of the fusiform bacteria.
- Ralph Arthur James.....ChemistryRichmond
B.S. 1942.
Thesis: Isotopes of the new element, curium (atomic number 96).
- Barbara Brightfield Jelavich.....HistoryBerkeley
A.B. 1943; M.A. 1944.
Thesis: The German alliance system, 1939–1941.
- Harold Lester Johnson.....AstronomyDenver, Colorado
B.S. University of Denver 1942.
Thesis: The development of an electronic device for the measurement of stellar spectrograms for radial velocity.
- Alice James Kimball.....PsychologyPalo Alto
A.B. Stanford University 1940; M.A. Smith College 1941.
Thesis: Evaluation of form-level in the Rorschach.
- Arthur Knodel.....Romance LiteratureLos Angeles
A.B. University of Southern California 1938; M.A. 1941.
Thesis: Jules Renard, critique littéraire.
- Urless Norton Lanham.....EntomologyLongmont, Colorado
A.B. University of Colorado 1940.
Thesis: A subgeneric revision of the New World bees of the genus *Andrena*.
- Harold Warren Lewis.....PhysicsNew York, New York
A.B. New York University 1943; M.A. 1944.
Thesis: The reactive terms in quantum electrodynamics.
- George Arthur Lipsky.....Political ScienceSeattle, Washington
A.B. University of Washington 1938.
Thesis: The political and social theories of John Quincy Adams.
- James J Lynch.....EnglishFlagstaff, Arizona
A.B. Loras College 1931; M.A. State University of Iowa 1936.
Thesis: Drama in the theater during the mid-eighteenth century, 1737–1777.
- William Henry McVey.....ChemistryBerkeley
B.S. 1943.
Thesis: I. Oxydation potential of the Pu(III)–Pu(IV) couple in perchloric acid solution; heat content and entropy change. II. The aqueous chemistry of zirconium.
- Joe Truesdell Marshall, Jr.....ZoölogyAltadena
A.B. 1939.
Thesis: Ecologic races of song sparrows in the San Francisco Bay region.
- Benson MatesPhilosophyOakland
A.B. University of Oregon 1941.
Thesis: The logic of the Old Stoa.

- William Henry Mathews.....Geology .. Vancouver, British Columbia, Canada
B.A.S. 1940 and M.A.S. 1941 University of British Columbia.
Thesis: Geology of the Mount Garibaldi map-area, southwestern British Columbia.
- Andrew Peter Masurak..... Soil Science Deadwood, South Dakota
B.S. Michigan State College 1933; M.F. Yale University 1936.
Thesis: Effect of particle-size of minerals and replaceable cations on water-stable aggregates.
- Dorothy Riggs Pitelka.....ZoölogyDenver, Colorado
A.B. University of Colorado 1941.
Thesis: Observations of flagellum structure in Flagellata.
- Warren Kirkpatrick Pope.....GeneticsLakeport
B.S. 1940.
Thesis: Comparative cytology of colchicine-induced and open pollinated derivatives of hybrids of *Agropyron trichophorum* with *Triticum durum*, *T. timopheevi*, and *T. macha*.
- Nirankar Dwarkaprasad Prasad.... Plant Pathology Allahabad, India
B.S. 1934 and M.S. 1936 University of Allahabad.
Thesis: Variability of the fungus *Hypomyces solani* in respect to cultural characters and pathogenicity.
- Dewey John Raski.....Entomology Estes Park, Colorado
B.S. 1941.
Thesis: The biology and morphology of the sugar-beet nematode, *Heterodera schachtii* (Schmidt).
- George Snively Rents, Jr.....HistoryBerkeley
A.B. 1937; M.A. 1938.
Thesis: Muhammad ibn. 'Abd al-Wahhâb (1703/04-1792) and the beginnings of Unitarian Empire in Arabia.
- Paul McHenry Roberts.....EnglishSan Jose
A.B. San Jose State College 1940; M.A. 1941.
Thesis: The influence of Sir Walter Scott on the vocabulary of the modern English language.
- Julia Bowman Robinson.....MathematicsSan Diego
A.B. 1940; M.A. 1941.
Thesis: Definability and decision problems in arithmetic.
- William Albert Roecker.....GermanOakland
A.B. 1934; M.A. 1936.
Thesis: Georg Hager's *Zweites Liederbuch*: a sixteenth century anthology of Meistergesang.
- Lawrence Edgar Sacks.....MicrobiologyLos Angeles
A.B. University of California at Los Angeles 1941; M.S. University of Washington 1943.
Thesis: Metabolic studies on denitrification by *Pseudomonas denitrificans*.
- Ralph Alois Seban.....Mechanical EngineeringLos Angeles
B.S. 1938; M.S. 1940.
Thesis: Heat transfer to turbulent boundary layers in high velocity flow.
- Edward SilvermanMathematicsSan Francisco
A.B. 1938; M.A. 1939.
Thesis: Definitions of Lebesgue area for surfaces in metric spaces.
- William Tracy Simpson.....ChemistryBerkeley
A.B. 1943.
Thesis: Electronic states of organic molecules.
- William Lyons Stanley.....ChemistryBerkeley
A.B. Marietta College 1939.
Thesis: The synthesis of branched chain fatty acids with a symmetrical end group.
- William Richard Steinhoff.....EnglishBerkeley
A.B. 1938; M.A. 1940.
Thesis: Recurrent patterns in George Eliot's novels.

- Harry West Sundwall.....EducationFairview, Utah
 B.S. Brigham Young University 1934.
Thesis: The effect of goal-setting on achievement.
- Theodore Ossip Thatcher.....EntomologyLogan, Utah
 B.S. 1933 and M.S. 1935 Utah State Agricultural College.
Thesis: A taxonomic and biologic study of the genus *Ips* (Scolytidae: Coleoptera) in Western North America.
- David Gordon Tyndall.....EconomicsLeaside, Ontario, Canada
 B.Com. 1940 and M.A. 1941 University of Toronto.
Thesis: The interest rate and the problem of secular unemployment.
- Henry James Vaux.....Agricultural Economics
 B.S. Haverford College 1933; M.S. 1935. Bryn Mawr, Pennsylvania
Thesis: An economic-statistical analysis of lumber requirements for California housing.
- Robert Edward Ward.....Political ScienceSan Francisco
 A.B. Stanford University 1936; M.A. 1938.
Thesis: Party government in Japan: a preliminary survey of its development and electoral record, 1928–1937.
- Louis WassermanPolitical ScienceMill Valley
 A.B. University of California at Los Angeles 1936; M.A. 1939.
Thesis: The United States and New Zealand: political and commercial relations.
- Siegfried Adolf Wouthuysen.....PhysicsLeiden, Netherlands
 Doctorandus of Physics, University of Leiden 1939.
Thesis: Self-energy and relativistic covariance in field-theory.
- Donald Berthold Zilversmit.....PhysiologyOakland
 B.S. 1940.
Thesis: On the function of phospholipids in the metabolism of liver, plasma, and small intestine.

The Honorary Degree of Doctor of Laws upon

- Joseph Perkins Chamberlain.....New York, New York
 Monroe Emanuel Deutsch.....Berkeley, California
 Frank Baldwin Jewett.....New York, New York
 J Robert Oppenheimer.....Princeton, New Jersey
 Harry S Truman.....Washington, District of Columbia
⁴George Catlett Marshall.....Washington, District of Columbia

⁴ Degree conferred March 19, 1948.

HONORS WITH DEGREES

HONORABLE MENTION WITH THE DEGREE OF ASSOCIATE IN ARTS

JUNE, 1948

Donald Aaron Abel
Theresa Catherine Albertano
Stephanie Anne Alioto
Wilbur Coolidge Allen
Eugene Franklin Angell
Bernard Edward Apfelbaum
Harry Mountcastle Ardley, Jr.
Ruth Clem Aufhauser
Richard Harold Aulwurm
Mary Ball
Berton Etienne Ballard
Audrey Anita Bass
Carol Jean Baxter
Joan Alaire Beaulieu
Bruce Alan Becker
Beverly Helene Bender
Seymour Berek
Jessie Antoinette Berman
Stephen Herbert Bess
Elizabeth Joan Bowley
Harry Arthur Bishop
Norma Marie Blair
Foster Warren Blaisdell, Jr.
Bernard Blumberg
John Franklin Borum
Daniel Johnson Bouquet
Winifred Kaseberg Breuner
Virginia Carole Breyer
David Preston Brown
Barbara Jean Campbell
Mabel Norma Cardella
Frank Phillip Castro
Sebastian Charles Catalano
Dolores Clapp
Dorothy Laverne Clark
Diana Joan Clarkson
Charlotte Clarice Cowan
Phillip Amos Crane, Jr.
Gordon Edward Davis
Donald deFremery
George Pierre deTuncq
Kathryn Eleanor Dimmick
Awdry Anthony Dodson
Betty Marie Dunkel
Robert Eugene Dye
Mary Elizabeth Dyer
Charles James Eaton
Donald Andrew Edwards
Vernon Pierre Faillettaz
Norval Curtis Fairman, Jr.
Richard Neil Farmer
Anthony Edward Farnham
Bernard Samuel Feldman

Bernard Ross Felix
Jean Maurice Ferrini
Edwin Ritchie Field
Dolores Helen Fischer
Delbert Arthur Fischer
Beulah Wong Foo
Harold Thomas Frederick
Clarence Henry Freeman
Jane Freeman
Golda Lorena Frey
James Masao Fujimoto
Ruth Elizabeth Gallagher
Charles Robert Geiberper
Richard Emmett Genelly
Mary June Gilbert
F Charlotte Walton Gillard
Marc Gittelsohn
Elaine Mitzi Glasberg
Irene Janice Glasberg
Margaret Eleanor Gleason
Shirley Goldstein
Roderick Nay Grant
John Lawrence Griess
Phyllis Gertrud Haakh
Kenneth George Hanson
Frederic Lyle Harvey, Jr.
Nancy Reid Harvie
Clayton Hastings
Laura Christine Haymond
Donald Anton Henriksen
Eva Hansine Henriksen
Edward Elliot Hill
Margaret Hoover Hoffman
Alexander Peter Hoffmann
Anthony Davis Holland
John Merrill House
Juanita Hughes
Edward Soth Jackson
Carolyn AEnene Jacobson
Joyce Ann Jarvey
Janette Jean
Lois Marie Johnson
Jack Irwin Jonas
Patsy Ruth Jones
Barbara Josselyn
Robert Kasle
Marilyn Ruth Keisser
Joanne Marie Kelleher
Charles Edward Keyes
Te Piao King
Frances Marie Kirk
Nancy Lee Kitley
Elsa Carmen Kleinman

Herbert Lincoln Koenig
 George Daniel Kohler
 Rose-Marie Konings
 Robert Russell Kronos
 Ralph Edward Kunkee
 John Henry Larkins
 Vivian S Lee
 June Dolores Levitas
 A Saul Levine
 Albert Levy
 Grace Agnes Lindsay
 Alan Grant Livingston
 Betty Grey Lockett
 Glenn Meredith Loney
 Louis Wesley Lowd
 Harry James McAndrew
 Marion Elizabeth Macdonald
 Beverly R McElderry
 Edith Marie McEwing
 Donald Bernard McKean
 Miriam Malach
 Joyce Rosaneva Mancarti
 Glenn Adams Marburger
 Florrie Mary Martin
 John Willing Martsolf
 Malcolm Donald Merrill
 Donna MaRee Meuter
 Elizabeth Newton Meyer
 Miriam Mae Meyer
 Vincent Francis Monte
 Richard Herbert Morris
 Peter Hill Moulthrop
 Mary Claire Mulvany
 Timothy Edward Murphy
 Marilyn Ruth Murray
 Ruth Erma Namanny
 Donald Prescott Nelson
 Jacqueline Mae Niño
 Elly Orlanda Nolze
 Charles Donald Noonan
 Judith Marie O'Hara
 Eddie Noon O'Neil, Jr.
 *Lore Oppenheimer
 Marjorie Ann Peet

Alice Jane Perrin
 Alfred Verle Pratt
 Paul Wakefield Purdon
 Marvin Harold Quickert
 Phyllis-Joy Ransford
 Gordon Wayne Repp
 Eleanor Virginia Righetti
 Clayton Paul Roche
 Elizabeth Roemer
 Karin Holmburg Rolph
 Willie Mae Rose
 Rosa Frieda Rottger
 Howard Gene Rubin
 Leland Sapiro
 Bernard Abraham Schnaper
 Kathleen Ann Scollard
 Norman Shapiro
 Harold Joachim Simon
 Nancy Anne Slaven
 Audrey Jean Stevens
 George Stevens
 Bernie Ralph Susskind
 Renée Teich
 Roger Clark Thompson
 Leo Tinkler
 Jean Tracy
 Johanan Herbert Vigoda
 Alfred Edmond Villaire, Jr.
 Richard Arthur Waldo
 Thomas Francis Wauchope
 James Lew Weeks
 Raymond Lewis Weisberg
 E Louise White
 Nadine Lucile Williams
 Lee Roy Carl Winters
 Arnold Wolf
 Fred Wong
 Gordon Kendall Wood
 Wanda Jean Woodard
 Michiyuki Lincoln Yamaguchi
 Kimiko Marjorie Yoshizawa
 Milman Parry Youngjohn
 Harold Nathan Zemelman

HONORS WITH THE BACHELOR'S DEGREE

JUNE, 1948

IN THE SCHOOL OF ARCHITECTURE

James Coughlan Hirst

Henry Ernest Martens

Harold LeRoy Thiederman

IN THE SCHOOL OF BUSINESS ADMINISTRATION

John Vernon Aldridge

Constance Hartung

Sherman Lawrence Andelson

Jack Kallish

Kenneth James Ashcraft

Daniel Nickel

Harlan Claire Dupuis

Alfred Harold Nysten, Jr.

Shirley Tritle Field

John Lee Prichard

Theodore Wallace Finkbohner

Herbert Mark Rome

Howard French Fletcher, Jr.

Gladys Leone Schwatka

William Gross Gray

Robert Lohrke Smith

Robert Mitchell Stern

* As of February 5, 1948.

IN THE SCHOOL OF FORESTRY

Carl Henry Stoltenberg Paul Wealey Ward

Highest Honors

Bryce D Webater

IN THE SCHOOL OF NURSING

Ethel Trewren Pflaum

IN THE SCHOOL OF OPTOMETRY

Charles Edgar Seger

IN THE SCHOOL OF PUBLIC HEALTH

Howard Jules Toussaint

Highest Honors

Susan Joy Anderson

IN THE COLLEGE OF AGRICULTURE

Dorothy Catherine Coops

Matthew J Gilbert

Lois Elaine Isaac

George Orville Turner

Ramona Ingraham Williams

Highest Honors

James Burton Hassler

David Lincoln Williams

IN THE COLLEGE OF CHEMISTRY

Charles Freeman Allen

William Ball Boykin

Herbert Park Cantelow

Stanley Vernon Castner

Douglas Wilfred Chapman

Peter Coad

Harland Dumond Embree

Winifred Tarpey

Lawrence Wallcave

Highest Honors

Mohammed Alei

Leland Jew Chinn

Howard Alton Vaughn

IN THE COLLEGE OF ENGINEERING

Robert Cole Blake

Russell Joseph Bruzzone

James Clifford Croudace

Alvin Bernard Davidson

David Harold Dennis

James Howard Elliott

Francis Jeremiah Enright

Jack Foord Everenden

Charles Edward Hepner

Raymond Leon Hobbs

LaVerne Keith Houser

Jerome Sigmund Jaffe

Frank Joseph Kersnar

George Shewhon Lee

William Wayne LeFevre

Robert Alfred Martina

Forrest Dean Mikelson

Russell Jack Page

Victor Payse, Jr.

James Joseph Pickell

William Smith Pickrell

Richard Harrington Reed

Aldo John Test

Harold Franklin Whittaker, Jr.

Howard Gene Wilson

Felipe Tseng-Fei Woo

Highest Honors

Curtis Dreyer

Harold Frederick Erdley

Charles Raymond Faulders

William Robert Kraftt

Marshall Hawley Roe

Gene Wesley Zeoli

IN THE COLLEGE OF LETTERS AND SCIENCE

ANTHROPOLOGY

Leo Arthur Estel

ART

Roberta Hutchinson Oechsli

Highest Honors

Harold Edwin Spencer

BIOCHEMISTRY

Highest Honors

Leonie Logan Jenkins

Saul Kit

BOTANY

Highest Honors

Isabelle Irene Tavares

CLASSICS

Highest Honors

Elroy Lorraine Bundy

DECORATIVE ART

Beverly Elizabeth Conant

DRAMATIC ART

Kenneth William Sleeper

Hypatia N Teague

ECONOMICS

Highest Honors

Luigi Mario Laurenti

Shirley Brown Lichtenstein

ENGLISH

Jean Anderson Embree

Jean Elizabeth Maples

Arthur Maurice Louis Heller

Jack Glenn Pinneo

Helen Gressang Kangieser

David Gelvin Spencer

Mary Elinor Mansfield

George Stephen Troller

Highest Honors

Marian Lois Melrose

FRENCH

Henry Dennis Paroutaud

GENERAL CURRICULUM

Mary Spencer Clark

Martha Jane Graham Matthias

Francis Herbert Godec

Gerson Frederic Miller

Jacqueline Lucas Griffin

Audrey Hélène Reynolds

Highest Honors

Charles Emilio Beckwith

David Mardane Sansome

Margaret Jeanne Linton

Martha Tarpey

GEOGRAPHY

Highest Honors

Clyde Perry Patton

GEOLOGICAL SCIENCES

Peter Hotchkiss Masson

GERMAN

Alfred Walter Sentf

GREEK

Highest Honors

William Lee Holladay

HISTORY

Don Francis Buttrick
Robert Manitou Gibbs

James Edmund Jefferis
James LeRoy Lucas

Highest Honors

Herman Silvius III

INTERNATIONAL RELATIONS

Doris Louise Gere

James Edward Knott, Jr.

Louise Marie Schuets

Highest Honors

Margaret Bradshaw Fay

Cheryl Jean Petersen

Robert Trimmingham

ITALIAN

Elsie Kathleen Ferrando

JOURNALISM

Ulla Edwin Bauers, Jr.

Raymond Howard Coppock

Highest Honors

Marcia Ellen Gray

Gloria Winden Newquist

JURISPRUDENCE

Forrest Arthur Cobb, Jr.

Arthur Sassone

Highest Honors

John Scott Fleming

LATIN

Highest Honors

Charles Luther Babcock

MATHEMATICS

Dorothy Marie Soske

* Warren Bernard Stenberg

Highest Honors

Glenn Edwin Lewis

David Samuel Shwayder

Philip Starr Wolfe

MEDICAL SCIENCES

Robert Eugene Gasber

David Arthur Harris

Jerome Arthur Motto

* As of February 5, 1948.

*Honors—June**Highest Honors*

Stuart Carson Averill

Weldon George Thyberg

MUSIC

Virginia Merchant Morgan

Margaret Dale Stewart

PHILOSOPHY

Helen Tucker Linde

Highest Honors

David Samuel Shwayder

PHYSICAL EDUCATION

William Carew Blankenship

Highest Honors

Marian Louise Perry

PHYSICS

Silvio J Balestrini

William Spencer Gilbert

Otto Heinz

Edwin Laurence Iloff

Philip Grover Lichtenstein

Chester Joseph Mott, Jr.

Highest Honors

August Gehard Berger, Jr.

David Delano Clark

Frank Stevens Crawford, Jr.

Jack Pirnie Davidson, Jr.

Richard Harold Huddleston

Philip Starr Wolfe

Albert John Kirschbaum

Albert Warner Overhauser

Jack Whitehead Rose

George Saphir

M Lynn Stevenson

PHYSIOLOGY

Winthrop Fish

Frederick Lyle Gray

Alice Theresa Hribal

Eleanor Rosalie Greer

Robert William Hill

POLITICAL SCIENCE

William Elmer Bartley

Midori Hashimoto

Sarah Louise Shaw

John Joseph Madden, Jr.

Edward Leslie Merrill

Highest Honors

Robert Milton Desky

Janet Ann Freeman

Mildred Louise Wright

Daniel Ernest Kay

Gordon Leslie McAndrew

PSYCHOLOGY

William Robert Gaffey

Raymond Halvorsen Norheim

Joseph Henry Oakes Wentworth

Frederick Rounds Schweickhardt

Jean Lillagore Walker

Highest Honors

Joan Elizabeth Jaffa

George C Stone

PUBLIC RELATIONS*Highest Honors*

Norma Jean Eiben

SCULPTURE

Emerson Turner Wright

SLAVIC LANGUAGES

George Kreshka

SOCIAL WELFARE

Alice Louise Alter
Jean Dunham Helfer

Beatrice Hess
Shirley Shields Skow

SOCIOLOGY AND SOCIAL INSTITUTIONS

Barbara Jean Lance

Highest Honors

Herbert Raymond Woodruff

SPANISH AND PORTUGUESE

Lillian Irma Box

SPEECH

Highest Honors

Phillip Lewis Griggs

ZOOLOGY

Rainer George Arnhold
Phillip Brodsky
David Flamenbaum
Emanuel Friedman

Aaron H Jaffe
Stewart Crowell Lotz
Wilbur Waldo Mayhew
Thomas Edward Reed

William Thurmond

Highest Honors

Ezra Ted Clark
Esther Irene Eastvold

Nancy Jeanne Eaton
Harry Kier Fritchman II

Robert Calvin Goldberg

IN THE COLLEGE OF PHARMACY

Burton Vincent Doyle (A.B. 1938)

Virginia Sparrowe Hale

Alfred Charles Hexter

HONORS IN MILITARY SCIENCE

Richard George Barhite
Merrill Roger Cohn
Robert Willard Decker
William Thomas Farry
Jacques Heilfron

Herbert Frank Neller
Louis Raun-Linde
John Ellis Steinke
Stephen Wayne Stith
Timothy Goodrich Tapping

George P Wing

Distinguished Military Graduates

William Power Clancey, Jr.
George Ira Haney, Jr.
Thomas James Heller
Maurice James Hitchman
Dale Edwin Neilsen

Forrest Douglas Ream
Howard Truman Sagehorn
Frederick Nelson Schweitzer
Jacob Karl Theobald
Donald Frederick Whistler, Jr.

HONORS IN NAVAL SCIENCE

Paul Fair Brunner

William Allen Page

Robert Leonard Stein

Highest Honors

Gene Wesley Zeoli

UNIVERSITY MEDAL

FOUNDED BY FRIENDS OF THE UNIVERSITY AND AWARDED ANNUALLY TO THE MOST
DISTINGUISHED GRADUATE OF THE YEAR
Nancy Jeanne Eaton, of the College of Letters and Science.

PRIZES

ALBANY POST AMERICAN LEGION TROPHY IN MILITARY SCIENCE
GIVEN BY ALBANY POST NO. 292, AMERICAN LEGION
Francis Micheal Tomnovec, of the Class of 1949.

ALPHA RHO CHI MEDAL IN ARCHITECTURE
GIVEN BY ALPHA RHO CHI, NATIONAL ARCHITECTURE FRATERNITY
James Coughlan Hirst, of the Class of 1948.

ALPHA ZETA AWARD IN AGRICULTURE
GIVEN BY THE ALPHA ZETA FRATERNITY
Award to be announced later.

AMERICAN INSTITUTE OF ARCHITECTS AWARDS
GIVEN BY THE AMERICAN INSTITUTE OF ARCHITECTS
First Award: Verna Marie Schmidt, a Student in the Graduate Division.
Second Award: Jack Arthur Edson, a Student in the Graduate Division.

ANNUAL SEMINAR FOR STUDY OF DENTAL MEDICINE PRIZE
OFFERED BY THE ANNUAL SEMINAR FOR THE STUDY OF DENTAL MEDICINE
Award to be announced later.

ARCHITECTURAL ASSOCIATION PRIZE
ESTABLISHED BY THE ARCHITECTURAL ASSOCIATION OF THE UNIVERSITY OF CALIFORNIA
Henry Ernest Martens, of the Class of 1948.

ARMED FORCES COMMUNICATIONS ASSOCIATION AWARD
GIVEN BY THE ARMED FORCES COMMUNICATIONS ASSOCIATION
Richard George Barhite, of the Class of 1949.

ARMY ORDNANCE AWARD
GIVEN BY THE ARMY ORDNANCE ASSOCIATION
Robert Rowland Wilson, of the Class of 1950.

ARMY QUARTERMASTER ASSOCIATION AWARD
GIVEN BY THE ARMY QUARTERMASTER ASSOCIATION
Lejeune Cummins, of the Class of 1950.

ARMY TRANSPORTATION CORPS AWARD
GIVEN BY THE ARMY TRANSPORTATION ASSOCIATION
William Throop Purdy, of the Class of 1950.

BACON PRIZE IN PHARMACY
GIVEN BY THE WOMEN'S PHARMACEUTICAL ASSOCIATION OF THE PACIFIC COAST
Award to be announced later.

BENNETT PRIZE IN POLITICAL SCIENCE

ESTABLISHED BY THE LATE WILLIAM JENNINGS BRYAN AS TRUSTEE FOR THE
LATE PHILO SHEERMAN BENNETT

Prize divided equally between:

Thomas Ponce Gill, of the Class of 1948.
Reuel Hyatt Smitter, of the Class of 1948.

BORDEN UNDERGRADUATE AWARD IN MEDICINE

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION

No award.

FRED W. BRADLEY PRIZE IN MINING

ESTABLISHED BY THE LATE FRED W. BRADLEY, OF THE CLASS OF 1886

Jack Foord Evernden, of the Class of 1948.

ANNE BREMER PRIZE IN ART

ESTABLISHED BY THE LATE ALBERT M. BENDER

Florence Louise Bevis, a Student in the Graduate Division.

CALIFORNIA FARM BUREAU FEDERATION RURAL LEADERSHIP TROPHY

GIVEN BY THE CALIFORNIA FARM BUREAU FEDERATION

Walter Franklin Hughes, of the Class of 1948.

CALIFORNIA HISTORICAL SOCIETY PRIZE

ESTABLISHED BY THE CALIFORNIA HISTORICAL SOCIETY

Robert Trimmingham, of the Class of 1948.

HENRY HENLEY CHAPMAN MEMORIAL TROPHY IN MILITARY SCIENCE

GIVEN BY COLONEL WILLIAM MCC. CHAPMAN

Stephen Wayne Stith, Jr., of the Class of 1950.

CHI ALPHA KAPPA PRIZES IN ARCHITECTURE

GIVEN BY CHI ALPHA KAPPA, ARCHITECTURE FRATERNITY

Upper Division Award: Harold LeRoy Thiederman, of the Class of 1948.

Lower Division Award: Jack Douglas Ely, of the Class of 1950.

CHI OMEGA SORORITY PRIZE IN PSYCHOLOGY

GIVEN BY THE CHI OMEGA SORORITY

Joan Elizabeth Jaffa, of the Class of 1948.

HOWARD WALTON CLARK PRIZE IN PLANT BREEDING AND SOIL BUILDING

ESTABLISHED BY MRS. PRUDENCE L. CLARK IN MEMORY OF HER LATE HUSBAND

No award.

EMILY CHAMBERLAIN COOK PRIZE IN POETRY

ESTABLISHED BY PROFESSOR ALBERT S. COOK

George Edward McDonough, of the Class of 1948.

INA COOLBRITH MEMORIAL POETRY PRIZE

ESTABLISHED BY FRIENDS OF THE LATE INA COOLBRITH

Prize divided equally among:

Victor Maximilian di Suvero, of the Class of 1949.
James Leland Spencer, Jr., of the Class of 1949.
Clare Auroidine Weber, of the Class of 1948.

ELIZABETH MILLS CROTHERS PRIZES IN LITERARY COMPOSITION

ESTABLISHED BY JUDGE GEORGE E. CROTHERS

First Prize: James Rowland Lucas, of the Class of 1949.

Second Prize: Judith Barbara Davis, a Student in the Graduate Division.

DELTA SIGMA CHI PRIZE IN ARCHITECTURE

GIVEN BY DELTA SIGMA CHI ARCHITECTURE HONORARY SOCIETY

Don Masayuki Hisaka, of the Class of 1950.

HELMUT WILLIAM FESCA PRIZE IN SURGERY

ESTABLISHED BY VARIOUS DONORS

No award.

MILTON F. AND MARY L. GABBS PRIZE IN DENTISTRY

ESTABLISHED BY THE REQUEST OF MILTON F. GABBS

John Francis Meklas, 4th year, College of Dentistry.

MARY JEANNE GILHOOLEY MEMORIAL AWARD

ESTABLISHED BY THE ASSOCIATED STUDENTS AT DAVIS

Diane Chaney, of the Class of 1948.

JOHN W. GILMORE FOREIGN STUDENT AWARD

GIVEN BY MR. L. N. IRWIN

Felipe Jorge Madariaga, a Student in the Graduate Division.

**GIMBEL PRIZE AND MEDAL IN SCHOLARSHIP AND
ATHLETIC ACHIEVEMENT**

ESTABLISHED BY THE LATE JAKE GIMBEL

Charles Ernest Hanger, of the Class of 1948.

GOLD-HEADED CANE IN MEDICINE

GIVEN BY FRIENDS AND PATIENTS OF THE DEPARTMENT OF MEDICINE

John Vito Carbone, 4th year, Medical School.

O. C. HANSEN MEMORIAL PLAQUE IN PHARMACY

**GIVEN BY BEAR PHOTO SERVICE IN MEMORY OF MR. O. C. HANSEN, THE FOUNDER
Award to be announced later.**

IRVING PRIZE FOR AMERICAN WIT AND HUMOR

ESTABLISHED BY THE LATE S. C. IRVING, OF THE CLASS OF 1879

William Frederick Wolff, of the Class of 1949.

EDNA KINARD PRIZE IN JOURNALISM

ESTABLISHED BY THE OAKLAND COUNCIL OF PARENTS AND TEACHERS

Marcia Ellen Gray, of the Class of 1948.

EDWARD FRANK KRAFT SCHOLARSHIP PRIZES FOR FRESHMEN

ESTABLISHED BY THE WILL OF THE LATE EDWARD FRANK KRAFT

Walter Watson Alberts, of the Class of 1951.

Miriam Helen Armstrong, of the Class of 1951.

John Arnold Baldwin, Jr., of the Class of 1951.

James Walter Callis, of the Class of 1951.

Courtney Stafford Coleman, of the Class of 1951.

David Garfinkel, of the Class of 1951.

William Hunter Grasberger, of the Class of 1950.

John William Hampton, of the Class of 1951.

Lora Wendy Heims, of the Class of 1951.
 William Lowell Imhoff, of the Class of 1951.
 Robert Reed Johnston, of the Class of 1950.
 Chen Ying Lee, of the Class of 1951.
 Kenneth Sue Lee, of the Class of 1951.
 Patricia Ann McCoy, of the Class of 1951.
 Elinor Anne Myerly, of the Class of 1951.
 Stanley Arnold Ring, of the Class of 1951.
 Lynn Redmon Sarles, of the Class of 1951.
 George Baird Whaley, of the Class of 1951.

LEHN AND FINK GOLD MEDAL IN PHARMACY
 MAINTAINED BY THE LEHN AND FINK PRODUCTS CORPORATION
 Award to be announced later.

W. P. LINDLEY TROPHY FOR SCHOLASTIC AND ATHLETIC ACHIEVEMENT
 DONATED BY MR. W. P. LINDLEY
 John Henry Nedderman, of the Class of 1949.

MERCK AWARDS IN PHARMACY
 ESTABLISHED BY MERCK AND COMPANY, RAHWAY, NEW JERSEY
 Awards to be announced later.

FLORENCE NIGHTINGALE AWARDS FOR EXCELLENCE IN
 CLINICAL NURSING
 ESTABLISHED BY FRIENDS OF THE SCHOOL OF NURSING
 Lois Aileen Pierini, of the Class of 1948.
 Betty Kline McInnes, of the Class of 1948.

OAKLAND RIFLE CLUB PERPETUAL TROPHY IN MILITARY SCIENCE
 GIVEN BY THE OAKLAND RIFLE CLUB
 Franklin Ames Packard, of the Class of 1952.

HUGH O'CONNOR MEMORIAL PRIZE IN PHARMACY
 ESTABLISHED BY THE FRIENDS OF THE LATE HUGH O'CONNOR
 Award to be announced later.

CHARLES LATHROP PACK PRIZES IN FORESTRY
 FOUNDED BY THE LATE CHARLES LATHROP PACK
 First Prize: Richard James Austin, of the Class of 1949.
 Second Prize: Harvey Alfred Striplin, Jr., of the Class of 1948.

PHI DELTA CHI CUP IN PHARMACY
 SPONSORED BY THE PHI DELTA CHI FRATERNITY
 Award to be announced later.

RICHARDSON LATIN TRANSLATION PRIZE
 ESTABLISHED UNDER THE WILL OF THE LATE PROFESSOR GEORGE MOREY RICHARDSON
 Prize divided equally between:
 Milman Parry, of the Class of 1949.
 Richard LaPrentice Trapp, of the Class of 1950.

DOROTHEA KLUMPKE ROBERTS PRIZE IN ASTRONOMY
 ESTABLISHED BY MRS. DOROTHEA KLUMPKE ROBERTS
 Albert Victor Stern, a Student in the Graduate Division.

DOROTHEA KLUMPKE ROBERTS PRIZE IN MATHEMATICS

ESTABLISHED BY MRS. DOROTHEA KLUMPKE ROBERTS

Philip Starr Wolfe, of the Class of 1948.

F. C. S. SCHILLER ESSAY PRIZE IN PHILOSOPHY

ESTABLISHED BY MRS. LOUISE S. SCHILLER

John William Yolton, a Student in the Graduate Division.

SCHOOL OF ARCHITECTURE MEDALS

GIVEN BY THE SCHOOL OF ARCHITECTURE

Louis Murray Naidorf, of the Class of 1950.

Fredrick William Lombard, of the Class of 1948.

Henry Ernest Martens, of the Class of 1948.

Warkentin Schroeter, of the Class of 1949.

David Torvestad Johnson, of the Class of 1949.

John Wong, of the Class of 1948.

Harold LeRoy Thiederman, of the Class of 1948.

James Coughlan Hirst, of the Class of 1948.

Verna Marie Schmidt, a Student in the Graduate Division.

Mentions for Lower Division Students:

Louis Murray Naidorf, of the Class of 1950.

George Christian Larsen, of the Class of 1950.

Durevol Boynton Quitsow, of the Class of 1950.

Bob Alan Rowe, of the Class of 1950.

Cornelius Carl Schnell, of the Class of 1950.

Robert Braswell Mathews, of the Class of 1950.

Nathan J Kuper, of the Class of 1950.

Avner Naggat, of the Class of 1950.

John Nels Anderson, of the Class of 1950.

Jack Douglas Ely, of the Class of 1950.

Wayburn Yuen, of the Class of 1951.

SOCIETY OF AMERICAN MILITARY ENGINEERS AWARD

GIVEN BY THE SAN FRANCISCO POST, SOCIETY OF AMERICAN MILITARY ENGINEERS

Gerald Francis Borrmann, of the Class of 1950.

SOCIETY OF AMERICAN MILITARY ENGINEERS GOLD MEDAL

GIVEN BY THE NATIONAL SOCIETY OF AMERICAN MILITARY ENGINEERS

Robert Willard Decker, of the Class of 1949.

**CERTIFICATE FROM THE SOCIETY FOR THE PROMOTION OF
DENTISTRY FOR CHILDREN**

GIVEN BY THE SOCIETY FOR THE PROMOTION OF DENTISTRY FOR CHILDREN

Award to be announced later.

TAU BETA PI ENGINEERING FRESHMAN SCHOLARSHIP PRIZE

ESTABLISHED BY THE CALIFORNIA ALPHA OF TAU BETA PI

Richard Isamu Tanaka, of the Class of 1950.

EDMUND AND FANNY THELEN PRIZE

ESTABLISHED BY MR. MAX THELEN IN MEMORY OF HIS FATHER AND MOTHER

Carol Marilyn Noderer, of the Class of 1951.

THIRTIETH INFANTRY PERPETUAL MEMORIAL TROPHY
 GIVEN BY FORMER MEMBERS OF THE THIRTIETH UNITED STATES INFANTRY REGIMENT
 Stephen Wayne Stith, Jr., of the Class of 1950.

UNITED STATES COAST ARTILLERY ASSOCIATION MEDAL
 GIVEN ANNUALLY BY THE UNITED STATES COAST ARTILLERY ASSOCIATION
 Charles Donald Noonan, of the Class of 1950.

VETERANS OF FOREIGN WARS MEDAL
 GIVEN BY INDUSTRIAL POST No. 1010, EMERYVILLE, CALIFORNIA
 Robert Willard Decker, of the Class of 1949.

WARDEN PRIZE IN DAIRY INDUSTRY
 ESTABLISHED BY THE WARDEN BROTHERS OF AUSTRALIA
 Award to be announced later.

IRWIN J. WIEL TROPHY IN MILITARY SCIENCE
 GIVEN BY MR. IRWIN J. WIEL
 William Morton Cole, of the Class of 1949.

EDWARD THOMAS WILLIAMS PRIZE OF THE COLLOQUIUM
 ORIENTOLOGICUM
 GIVEN BY THE COLLOQUIUM ORIENTOLOGICUM
 No award.

OWEN D. YOUNG PRIZE IN INTERNATIONAL RELATIONS
 ESTABLISHED BY DR. OWEN D. YOUNG
 No award.

MILITARY COMMISSIONS

UNIVERSITY CADETS

Infantry Unit

• Thomas J Heller	Colonel
• Herbert F Neller, Jr.	Colonel
Stephen W Stith	Colonel
Gerald R Bocciardi	Lieutenant Colonel
• William D Connor	Lieutenant Colonel
• Howard T Sagehorn	Lieutenant Colonel
• Frederick N Schweitzer	Lieutenant Colonel
Neale E Buchanan	Major
• Warren C Coffey	Major
• Hugo F Littig	Major
• Robert Rodiack	Major
• George Stimmel, Jr.	Major
• Erwin G Wallenbrock	Major
• Norman E Wykoff	Major
• William P Clancey	Captain
Harold C Compton	Captain
William M Enright	Captain
John G Jelatis	Captain
Noel F McCarthy	Captain
Louis Raun-Linde	Captain
George P Wing	Captain
Alfred L Chu	First Lieutenant
Horace H Crow, Jr.	First Lieutenant
Henri N Heller	First Lieutenant
Harry Kronrod	First Lieutenant
John H Ricks	First Lieutenant

Corps of Engineers Unit

Merrill R Cohn	Lieutenant Colonel
Robert W Decker	Lieutenant Colonel
• Ralph H K Cramer	Major
Karl A F May	Captain
Norman L Fox	First Lieutenant
Maurice J Hitchman	First Lieutenant

Signal Corps Unit

Richard G Barhite	Colonel
• Dale E Nielsen	Colonel
• Philip W P Kermott	Major
Edwin R Hawkins, Jr.	Captain
John E Steinke	Captain
Jack Heilfron	First Lieutenant
Murray B Petersen	First Lieutenant
Francis M Tomnovec	First Lieutenant

Coast Artillery Corps Unit

• Victor C Bull	Lieutenant Colonel
George I Haney, Jr.	Lieutenant Colonel
• Francis J Baron	Major
William R Coleman	Major
• Jorgen Hildebrandt	Major
• Eric P Schnurmacher	Major
Phillip H Stevens	Major
• Donald F Whistler, Jr.	Major

Ralph E Curtis	Captain
Robert L Cuttle	Captain
Robert E McCormack	Captain
Timothy G Tapping	Captain
Bruce H Cumming	First Lieutenant
William T Farry	First Lieutenant

Ordnance Department Unit

Robert E Bancroft	Lieutenant Colonel
Jacob K Theobald	Lieutenant Colonel
³ Edward F Blunt	Major
³ Joel P Martin	Major
Eugene T Ares	First Lieutenant
Forrest D Ream	First Lieutenant

OFFICERS' RESERVE CORPS, ARMY OF THE UNITED STATES

INFANTRY

Gerald R Bocciardi	Second Lieutenant
Neale E Buchanan	Second Lieutenant
Alfred L Chu	Second Lieutenant
³ William P Clancey	Second Lieutenant
³ Warren C Coffey	Second Lieutenant
³ William D Connor	Second Lieutenant
Horace H Crow, Jr.	Second Lieutenant
William M Enright	Second Lieutenant
³ Thomas J Heller	Second Lieutenant
John G Jelatis	Second Lieutenant
Harry Kronrod	Second Lieutenant
Noel F McCarthy	Second Lieutenant
³ Herbert F Neller, Jr.	Second Lieutenant
Louis Raun-Linde	Second Lieutenant
³ Robert Rodiack	Second Lieutenant
³ Howard T Sagehorn	Second Lieutenant
³ Frederick N Schweitzer	Second Lieutenant
³ George Stimmel, Jr.	Second Lieutenant
Stephen W Stith, Jr.	Second Lieutenant
³ Erwin G Wallenbrock	Second Lieutenant
George P Wing	Second Lieutenant
³ Norman E Wykoff	Second Lieutenant

COAST ARTILLERY CORPS

³ Francis J Baron	Second Lieutenant
³ Victor C Bull	Second Lieutenant
William R Coleman	Second Lieutenant
Bruce H Cumming	Second Lieutenant
Ralph E Curtis	Second Lieutenant
Robert L Cuttle	Second Lieutenant
William T Farry	Second Lieutenant
George I Haney, Jr.	Second Lieutenant
³ Jorgen Hildebrandt	Second Lieutenant
Robert E McCormack	Second Lieutenant
³ Eric P Schnurmacher	Second Lieutenant
Phillip H Stevens	Second Lieutenant
Timothy G Tapping	Second Lieutenant
³ Donald F Whistler, Jr.	Second Lieutenant

ORDNANCE DEPARTMENT

Eugene T Ares	Second Lieutenant
Robert E Bancroft	Second Lieutenant
³ Edward F Blunt	Second Lieutenant

• Joel P Martin	Second Lieutenant
Forrest D Ream	Second Lieutenant
Jacob K Theobald	Second Lieutenant

SIGNAL CORPS

Richard G Barhite	Second Lieutenant
• Philip W P Kermott	Second Lieutenant
• Dale E Nielsen	Second Lieutenant
John E Steinke	Second Lieutenant
Francis M Tomnovec	Second Lieutenant

CORPS OF ENGINEERS

Merrill R Cohn	Second Lieutenant
• Ralph H K Cramer	Second Lieutenant
Robert W Decker	Second Lieutenant
Norman L Fox	Second Lieutenant
Maurice J Hitchman	Second Lieutenant
Karl A F May	Second Lieutenant

NAVAL COMMISSIONS

U. S. NAVY (CIVIL ENGINEERING CORPS)

Ray W Foreaker	Ensign
Charles W Gulick, Jr.	Ensign

U. S. NAVAL RESERVE (CIVIL ENGINEERING CORPS)

Harold E Babcock	Ensign
Delmar Alexander Bartley	Ensign
Eugene F Dubil	Ensign
John R Emerson	Ensign
Lewis C Guthrie, Jr.	Ensign
Sanford I Heisler	Ensign
Jack I Johnson	Ensign
Robert K Johnson	Ensign
Robert L McDonell	Ensign
Donald Penprase	Ensign
James J Pickell	Ensign
Robert S Powell	Ensign
Gordon L Roskam	Ensign
Robert L Stein	Ensign

U. S. NAVAL RESERVE (SUPPLY CORPS)

Thomas W Borden	Ensign
William B Shafer	Ensign

U. S. NAVAL RESERVE (LINE)

Donald K Atwater	Ensign
Robert W Barclay	Ensign
Dow P Barnes	Ensign
Eugene W Bayol	Ensign
Paul F Brunner	Ensign
Roland B Chambers	Ensign
Robert J Freeman	Ensign
Donald S Haymond	Ensign
William A Page	Ensign
Francis F Parker	Ensign
Thomas C Parrish	Ensign
DeWayne B Peterson	Ensign
John J Quigley	Ensign

Robert E Randolph.....	Ensign
Robert J Rose.....	Ensign
Cramer W Schultz.....	Ensign
James G Seiler.....	Ensign
John J Serr.....	Ensign
Gene W Zeoli.....	Ensign

U. S. MARINE CORPS RESERVE

Thomas Donald Geary.....	Second Lieutenant
Gene K Rouse.....	Second Lieutenant

UNIVERSITY CADETS

Donald K Atwater.....	Commander
Harold E Babcock.....	Lieutenant Commander
Robert W Barclay.....	Commander
Dow P Barnes.....	Lieutenant Commander
Delmar Alexander Bartley.....	Ensign
Eugene W Bayol.....	Lieutenant (Navy)
Thomas W Borden.....	Ensign
Paul F Brunner.....	Lieutenant (junior grade)
Roland B Chambers.....	Lieutenant Commander
Eugene F Dubil.....	Ensign
John R Emerson.....	Lieutenant (junior grade)
Ray W Foreaker.....	Commander
Robert J Freeman.....	Ensign
Thomas Donald Geary.....	Lieutenant Colonel (USMC)
Charles W Gulick, Jr.....	Ensign
Lewis C Guthrie, Jr.....	Ensign
Donald S Haymond.....	Lieutenant (Navy)
Sanford I Heisler.....	Lieutenant Commander
Jack I Johnson.....	Ensign
Robert K Johnson.....	Lieutenant (junior grade)
Robert L McDonell.....	Lieutenant Commander
William A Page.....	Ensign
Francis F Parker.....	Lieutenant (Navy)
Thomas C Parrish.....	Lieutenant Commander
Donald Penprase.....	Ensign
DeWayne B Peterson.....	Ensign
James J Pickell.....	Ensign
Robert S Powell.....	Ensign
John J Quigley.....	Ensign
Robert E Randolph.....	Captain (Navy)
Robert J Rose.....	Lieutenant (junior grade)
Gordon L Roskam.....	Lieutenant (Navy)
Gene K Rouse.....	Major (USMC)
Cramer W Schultz.....	Lieutenant (junior grade)
James G Seiler.....	Ensign
John J Serr.....	Lieutenant Commander
William B Shafer.....	Ensign
Robert L Stein.....	Lieutenant Commander
Gene W Zeoli.....	Lieutenant Commander

**FELLOWSHIPS AND GRADUATE SCHOLARSHIPS
FOR 1948-1949**

**AGGELER & MUSSER SEED COMPANY RESEARCH FELLOWSHIP
IN GENETICS AND PLANT BREEDING**

ESTABLISHED BY THE AGGELER & MUSSER SEED COMPANY

Appointment deferred.

AGRICULTURE FELLOWSHIP

ESTABLISHED BY AN ANONYMOUS DONOR

Appointment deferred.

ALLIED CHEMICAL & DYE CORPORATION FELLOWSHIPS

ESTABLISHED BY THE ALLIED CHEMICAL & DYE CORPORATION

Loyd Dola Fraashier (Chemistry).....Pampa, Texas
B.S. Harding College 1940.

Further appointment deferred.

JOHN CECIL ALTMAN SCHOLARSHIPS IN JURISPRUDENCE

**ESTABLISHED BY THE LATE JOHN CECIL ALTMAN
OF THE CLASS OF 1913**

John Herbert Wallace.....Berkeley
A.B. Reed College 1941.

Max Weingarten.....Berkeley
J.D. University of Vienna 1936.

RESEARCH FELLOWSHIP IN ANIMAL HUSBANDRY

**ESTABLISHED BY PROFESSORS GEORGE H. HART, HAROLD H. COLE,
AND HAROLD GOSS**

Appointment deferred.

JOHN WOODMAN AYER FELLOWSHIP IN JURISPRUDENCE

**ESTABLISHED BY MR. AND MRS. R. B. AYER IN MEMORY OF THEIR SON,
JOHN WOODMAN AYER**

Neil Eugene Falconer.....Berkeley
A.B. 1943.

BAKER RESEARCH FELLOWSHIP IN FORESTRY

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Bruce John Zobel.....Watsonville
B.S. 1943.

BASE HOSPITAL NO. 30 SCHOLARSHIP IN MEDICINE

GIVEN BY FRIENDS OF THE MEDICAL SCHOOL

Hope Hribal Corey.....Berkeley
A.B. 1947.

BIDWELL RESEARCH FELLOWSHIP IN FORESTRY

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Harold Lawrence Baker.....Ogden, Utah
B.S. Utah State Agricultural College 1939; M.S. 1942.

Fellowships and Graduate Scholarships

NEWTON BOOTH FELLOWSHIP IN ECONOMICS

FOUNDED UNDER THE WILL OF THE LATE MRS. JULIA E. DUNN

Raymond Park Powell.....Ontario
A.B. 1942.

BORDEN GRADUATE AWARD IN PHARMACEUTICAL CHEMISTRY

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION, INC.

Appointment deferred.

DAVID BOUVERIE SCHOLARSHIP

ESTABLISHED BY MR. DAVID PLEYDELL BOUVERIE

Ning Chien (Irrigation).....Nanking, China
B.S. National Central University, China, 1943; Cand. M.S. State University of Iowa.

JOHN WESLEY BRITTAN FELLOWSHIP IN CLASSICS

FOUNDED BY THE LATE MARY BURT BRITTAN IN MEMORY OF
HER FATHER, JOHN WESLEY BRITTAN

Appointment deferred.

DR. E. E. BROWNELL MEMORIAL FELLOWSHIP IN ANIMAL HUSBANDRY

ESTABLISHED BY MRS. SOPHIA P. BROWNELL IN MEMORY OF HER HUSBAND

Carroll Warren Fox.....Colorado Springs, Colorado
B.S. Colorado State College 1943.

ALICE BUSH SCHOLARSHIP IN HOMEOPATHY

FOUNDED UNDER THE WILL OF THE LATE ALICE BUSH

Alonzo Monk.....Camarillo
A.B. 1947.CALIFORNIA ASSOCIATED SOCIETIES FOR THE CONSERVATION OF
WILDLIFE SCHOLARSHIPESTABLISHED BY THE CALIFORNIA ASSOCIATED SOCIETIES FOR THE
CONSERVATION OF WILDLIFEPaul Herbert Baldwin (Zoölogy).....Berkeley
A.B. 1936; M.S. University of Hawaii 1939; Cand. Ph.D.

CALIFORNIA STATE EMPLOYEES' ASSOCIATION SCHOLARSHIP

ESTABLISHED BY THE CALIFORNIA STATE EMPLOYEES' ASSOCIATION

Joseph David Lubin (Political Science).....San Francisco
B.S. 1948.

JESSE D. CARR FELLOWSHIP IN AGRICULTURE

FOUNDED UNDER THE WILL OF THE LATE MRS. HENRY W. SEALE IN MEMORY
OF HER FATHER, JESSE D. CARRNorman Zellner (Agricultural Economics).....Deal, New Jersey
B.S. 1947.

CLASS OF 1883 FELLOWSHIP

ESTABLISHED BY MEMBERS OF THE CLASS OF 1883

Marvin Mudrick (English).....Philadelphia, Pennsylvania
A.B. Temple University 1942; M.A. 1947.

EDITH CLAYPOLE MEMORIAL RESEARCH FELLOWSHIPS IN PATHOLOGY

FOUNDED IN MEMORY OF THE LATE DR. EDITH CLAYPOLE

Appointments deferred.

COMMONWEALTH FUND FELLOWSHIPS IN SOCIAL WELFARE

ESTABLISHED BY THE COMMONWEALTH FUND OF NEW YORK

- Muriel Hoffman Brotsky Los Angeles
 A.B. University of Wisconsin 1947.
- Arthur Eaton Berkeley
 A.B. 1940.
- David Kevin Berkeley
 A.B. 1947.
- Margaret Ann Nail Oakland
 A.B. State College of Washington 1940.
- Louise Reinholts Vallejo
 A.B. 1941.
- Marian Squire Burlingame
 A.B. 1947.

CONSOLIDATED VULTEE AIRCRAFT CORPORATION FELLOWSHIPS

ESTABLISHED BY THE CONSOLIDATED VULTEE AIRCRAFT CORPORATION

Appointments deferred.

HARRY STUART DERBY AND ALICE URQUHART DERBY SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE ALICE U. DERBY

Appointment deferred.

ERNESTINE DOYCHERT SCHOLARSHIP IN MEDICINE

FOUNDED UNDER THE WILL OF THE LATE ERNESTINE DOYCHERT

- Herta Silzer San Francisco
 A.B. 1947.

FRANK G. DRUM SCHOLARSHIP

**FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN HONOR
 OF THE LATE FRANK G. DRUM**

Appointment deferred.

DUPONT POSTGRADUATE FELLOWSHIP IN CHEMISTRY

ESTABLISHED BY E. I. DU PONT DE NEMOURS AND COMPANY

- Harold Walba Berkeley
 B.S. Massachusetts State College 1946.

FLOOD FELLOWSHIP IN BUSINESS ADMINISTRATION

FOUNDED BY THE LATE MISS CORA JANE FLOOD

- Nancy Kulper Beauchamp Berkeley
 Cand. B.S.

CHARLES MILLS GAYLEY FELLOWSHIP

FOUNDED BY FRIENDS OF THE LATE PROFESSOR CHARLES MILLS GAYLEY

Appointment deferred.

**GERMAIN SEED AND PLANT COMPANY RESEARCH FELLOWSHIP IN
 GENETICS AND PLANT BREEDING**

ESTABLISHED BY THE GERMAIN SEED AND PLANT COMPANY

Appointment deferred.

JAMES M. GOEWEY FELLOWSHIP

FOUNDED BY THE FAMILY OF THE LATE JAMES M. GOEWEY

- Carl Buckingham Koford (Zoölogy) Piedmont
 B.S. 1937.

WILLIAM SCOTT GOODFELLOW SCHOLARSHIP IN JURISPRUDENCE

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN MEMORY
OF THE LATE WILLIAM SCOTT GOODFELLOW

Mayer Leib Lieberman Berkeley
Ph.D. University of Vienna 1937.

GREAT WESTERN DOW FELLOWSHIP IN CHEMISTRY

ESTABLISHED BY THE GREAT WESTERN DIVISION OF THE
DOW CHEMICAL COMPANY

Arnold Allen Comstock Kent, New York
B.S. University of Rochester 1946.

EMANUEL S. HELLER MEMORIAL SCHOLARSHIP

ESTABLISHED BY MR. AND MRS. SIDNEY M. EHRMAN

Lynn Mah (Economics) Berkeley
A.B. 1947; Cand. M.A.

SAMUEL W. HELLER MEMORIAL FELLOWSHIP IN LANDSCAPE DESIGN

ESTABLISHED BY MR. WALTER S. HELLER

Appointment deferred.

SIGMUND MARTIN HELLER TRAVELING FELLOWSHIP

ESTABLISHED BY THE HEIRS OF THE LATE SIGMUND MARTIN HELLER

Herschel Browning Chipp (Art) Richmond
A.B. 1947.

HARRY H. HILP FELLOWSHIPS IN ENGINEERING

ESTABLISHED BY MR. HARRY H. HILP

Cameron Bruce Forrest (Electrical Engineering) Uniontown, Alabama
B.S. University of Alabama 1943.

Frederick Bernard Wood (Electrical Engineering) Berkeley
B.S. 1941.

INTERNATIONAL NICKEL FELLOWSHIP IN METALLURGY

ESTABLISHED BY THE INTERNATIONAL NICKEL COMPANY, INC.

Alfred Goldberg Berkeley
B.Eng. McGill University 1946; M.S. Carnegie Institute of Technology 1947.

AMY BOWLES JOHNSON MEMORIAL FELLOWSHIP

FOUNDED IN MEMORY OF THE LATE MRS. HIRAM JOHNSON, JR.

Charles Jelavich (History) Berkeley
A.B. 1944; M.A. 1947.

WILLIAM CAREY JONES SCHOLARSHIP IN JURISPRUDENCE

FOUNDED BY FRIENDS OF THE LATE PROFESSOR WILLIAM CAREY JONES

Appointment deferred.

ALFRED B. JORDAN FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE ALFRED B. JORDAN

Stefan Sebastian Brecht (Philosophy) Cambridge, Massachusetts
A.B. University of California at Los Angeles 1946; Cand. M.A. Harvard University.

Elizabeth Eleanor von Selle (Social Welfare) Cambridge, Massachusetts
A.B. Radcliffe College 1945; M.A. 1947.

MARTIN KELLOGG FELLOWSHIP IN ASTRONOMY

FOUNDED UNDER THE WILL OF THE LATE MRS. MARTIN KELLOGG

Appointment deferred.

KOREAN-AMERICAN CULTURAL ASSOCIATION SCHOLARSHIP

ESTABLISHED BY THE KOREAN-AMERICAN CULTURAL ASSOCIATION

Appointment deferred.

HERBERT KRAFT SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE GEORGE H. KRAFT
IN MEMORY OF HIS FATHER, HERBERT KRAFT

Appointments deferred.

LECONTE MEMORIAL FELLOWSHIP

FOUNDED BY THE ALUMNI ASSOCIATION IN MEMORY OF THE LATE
PROFESSORS JOHN AND JOSEPH LECONTE

Jack Foord Evernden (Geophysics).....Berkeley
Cand. A.B.

LICK OBSERVATORY FELLOWSHIPS IN ASTRONOMY

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Victor Manuel Blanco.....Ponce, Puerto Rico
B.S. University of Chicago 1942; M.A. 1947.

Aden Baker Meinel.....Berkeley
A.B. 1947.

WALTER LOEWY SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE WALTER LOEWY

Hannah Estermann (Romance Languages).....Pittsburgh, Pennsylvania
B.S. Carnegie Institute of Technology 1946; M.A. Smith College 1947.

GENEVIEVE MCENERNEY FELLOWSHIP

FOUNDED UNDER THE WILL OF THE LATE REGENT GARRET W. MCENERNEY
IN MEMORY OF HIS WIFE, THE LATE GENEVIEVE MCENERNEY

Appointment deferred.

SAMUEL BELL MCKEE MEMORIAL FELLOWSHIP IN JURISPRUDENCE

ESTABLISHED BY MRS. SALLY MCKEE SPENS-BLACK IN MEMORY OF
HER FATHER, THE LATE SAMUEL BELL MCKEE

Walter Gilbert Olson.....Oakland
B.S. 1947.

MAY J. MCLEAN FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Arthur Rice Kruckeberg (Botany).....Los Angeles
A.B. Occidental College 1941.

JOHN BELL MHOON SCHOLARSHIPS IN LAW

FOUNDED BY THE LATE MRS. JOHN BELL MHOON

Charles Files Gray, Jr. (School of Jurisprudence).....Sacramento
A.B. 1947.

Further appointment deferred.

WILLIAM HARRISON MILLS FELLOWSHIPS IN INTERNATIONAL RELATIONS
FOUNDED UNDER THE WILL OF THE LATE MRS. MARIA ELIZABETH MILLS

Francis Hilary Conroy (History) Bloomington, Illinois
B.S. Northwestern University 1941; M.A. 1942.

Theodore Edward Nichols (History) Oakland
A.B. 1944; M.A. 1946.

ELIZABETH LIVINGSTONE MURISON SCHOLARSHIP

FOUNDED BY THE TRUSTEES OF THE ELIZABETH MURISON SCHOOL ASSOCIATION

Jean Dunham Helfer (Social Welfare) Monrovia
Cand. A.B.

NATIVE SONS OF THE GOLDEN WEST FELLOWSHIP IN
PACIFIC COAST HISTORY

ESTABLISHED BY THE GRAND PARLOR OF THE NATIVE SONS OF THE GOLDEN WEST

Joseph Aloysius McGowan Berkeley
A.B. St. Patrick's Seminary 1934; M.A. 1939.

WARREN OLNEY, JR., MEMORIAL SCHOLARSHIP IN THE
HASTINGS COLLEGE OF THE LAW

ESTABLISHED IN MEMORY OF THE LATE WARREN OLNEY, JR., BY THE YOUNGER
LAWYERS OF THE FIRM OF WHICH HE WAS A SENIOR MEMBER

Appointment deferred.

ORIENTAL INSTITUTE SCHOLARSHIP

ESTABLISHED BY THE ORIENTAL INSTITUTE

Chin Long Chiang (Statistics) Shanghai, China
Grad. National Tsing Hua University 1940.

PANAMA-PACIFIC INTERNATIONAL EXPOSITION MEMORIAL
FELLOWSHIP IN PACIFIC COAST HISTORY

ESTABLISHED BY THE SAN FRANCISCO WAR MEMORIAL TRUSTEES WITH A GIFT
MADE TO THEM BY THE FORMER TRUSTEES OF THE PANAMA-
PACIFIC INTERNATIONAL EXPOSITION

Appointment deferred.

PANHELLENIC ALUMNAE ASSOCIATION OF SAN FRANCISCO
SCHOLARSHIP FOR LATIN AMERICA

ESTABLISHED BY THE PANHELLENIC ALUMNAE ASSOCIATION OF SAN FRANCISCO

Appointment deferred.

GOVERNOR PARDEE SCHOLARSHIP IN MEDICINE

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN HONOR OF THE LATE
GEORGE COOPER PARDEE, FORMER GOVERNOR OF CALIFORNIA

Saul William Levy San Francisco
B.S. 1943.

EDWIN W. PAULEY FELLOWSHIP IN FORESTRY

ESTABLISHED BY EDWIN W. PAULEY

Appointment deferred.

JAMES PHELAN SCHOLARSHIP IN ART

FOUNDED UNDER THE WILL OF THE LATE JAMES D. PHELAN IN MEMORY
OF HIS FATHER, JAMES PHELAN

Harold Edwin Spencer Orange, New Jersey
Cand. A.B.

FRANK M. PIXLEY SCHOLARSHIP IN LAW

FOUNDED UNDER THE WILL OF THE LATE MRS. AMELIA V. R. PIXLEY

Forrest Arthur Cobb, Jr. San Francisco
M.B.A. Harvard University 1946.

**GEORGE FREDERICK REINHARDT MEMORIAL—CLASS OF 1915
SCHOLARSHIP IN MEDICINE**

FOUNDED BY THE CLASS OF 1915

David H. Reeder Fresno
A.B. 1946.

ARCHBISHOP RIORDAN SCHOLARSHIP IN AMERICAN HISTORY

FOUNDED BY THE LATE REGENT GARRET W. McENERNEY IN MEMORY OF THE
LATE ARCHBISHOP PATRICK WILLIAM RIORDAN

Willa Dorothea Klug Ramona
A.B. Whittier College 1947; Cand. M.A. Mills College.

ABRAHAM ROSENBERG RESEARCH FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE ABRAHAM ROSENBERG

Alice Dickinson Awtrey (Chemistry) Bluffton, South Carolina
A.B. Radcliffe College 1947.
Henry Garrett Curme (Chemistry) Clarksburg, West Virginia
B.S. 1945 and M.S. 1947 Northwestern University.
John Ise, Jr. (Physics) Altadena
A.B. University of Kansas 1940; M.S. California Institute of Technology 1943.
Doris I. Jones (Bacteriology) Oradell, New Jersey
B.S. New Jersey College for Women 1943; M.S. Rutgers University 1945.
Sydney Courtenay Wright (Physics) Vancouver, British Columbia, Canada
A.B. University of British Columbia 1943.

ALICE J. ROSENBERG FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE ALICE J. ROSENBERG

Robert Garland Colodny (History) San Francisco
A.B. 1947; M.A. 1948.
Henry Pierre Noyes (Physics) Urbana, Illinois
A.B. Harvard University 1943.

JAMES ROSENBERG MEMORIAL SCHOLARSHIP IN AGRICULTURE

FOUNDED BY LINDA AND JOSEPH ROSENBERG

Herman Zaiman (Entomology) San Pablo
A.B. 1938 and M.S. 1941 State University of Iowa.

WALTER ROTHCHILD SCHOLARSHIP IN JURISPRUDENCE

FOUNDED BY THE LATE REGENT GARRET W. McENERNEY IN HONOR
OF THE LATE WALTER ROTHCHILD

William McCubbin Costley, Jr. Pasadena
A.B. University of California at Los Angeles 1947.

SHEFFIELD SANBORN SCHOLARSHIPS

FOUNDED BY MRS. FRANCES B. SANBORN

Eugene Eisenberg (Medicine) Los Angeles
A.B. 1947.
Miriam Gould (Medicine) Los Angeles
A.B. 1947.
Adolphus Moskovitz (School of Jurisprudence) Los Angeles
A.B. 1947.

Further appointment deferred.

Fellowships and Graduate Scholarships

SAN BRUNO COMMUNITY HOUSE SCHOLARSHIP IN MEDICINE
FOUNDED BY THE BOARD OF DIRECTORS OF SAN BRUNO COMMUNITY HOUSE,
SAN FRANCISCO

Irwin Henry Linden..... Los Angeles
B.S. University of California at Los Angeles 1945.

WERNER R. SCOTT SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE WERNER R. SCOTT

Appointment deferred.

JOSEPH E. SEAGRAM & SONS FELLOWSHIP

ESTABLISHED BY JOSEPH E. SEAGRAM & SONS, INC.

Govindbhai Ishwarbhai Patel..... Savli, Boroda, India
B.S. University of Bombay 1946; M.S. 1947.

SHELL FELLOWSHIPS

ESTABLISHED BY THE SHELL FELLOWSHIP COMMITTEE

David Middleton Huger Kern (Chemistry)..... Siasconset, Massachusetts
A.B. Harvard University 1946.

Further appointment deferred.

LOUIS AND SARAH SLOSS SCHOLARSHIP

FOUNDED BY THE FAMILY OF THE LATE LOUIS AND SARAH SLOSS

David Arthur Harris (Medicine)..... Santa Barbara
Cand. A.B.

WILLIAM SMITH MEMORIAL FELLOWSHIP

ESTABLISHED BY HAROLD AND JESSE SMITH IN MEMORY
OF THEIR FATHER, THE LATE WILLIAM SMITH

Appointment deferred.

SCHOLARSHIP IN SPANISH

ESTABLISHED BY AN ANONYMOUS DONOR

Lillian Irma Boz..... Alameda
Cand. A.B.

SALLY MCKEE SPENS-BLACK FELLOWSHIP IN MEDICINE

ESTABLISHED BY MRS. SALLY MCKEE SPENS-BLACK

Jacquelin Perry..... San Francisco
Ed.B. University of California at Los Angeles 1940.

JAMES SUTTON FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Robert Lawson Vaught (Mathematics)..... San Marino
A.B. 1945.

JAMES SUTTON MEMORIAL FELLOWSHIP IN PHILOSOPHY

FOUNDED BY THE FRIENDS OF THE LATE JAMES SUTTON

Arthur Jerome Benson..... Toronto, Canada
A.B. University of Toronto 1938; M.A. Columbia University 1940.

ARTHUR GOULD TASHEIRA FELLOWSHIPS IN JURISPRUDENCE

**ESTABLISHED UNDER THE WILL OF THE LATE MRS. HELEN G. TASHEIRA IN
MEMORY OF HER HUSBAND, THE LATE ARTHUR GOULD TASHEIRA**

- John Scott Fleming Reno, Nevada
David Hardy Los Angeles
Cand. B.S. University of California at Los Angeles.

TAUSSIG TRAVELING FELLOWSHIP

**ESTABLISHED BY THE REGENTS OF THE UNIVERSITY UNDER THE EMMA M.
AND RUDOLPH J. TAUSSIG MEMORIAL FUND**

- Leland Clayton Smith (Music) Oakland
A.B. 1948.

BERTHA HENICKE TAUSSIG MEMORIAL SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE HUGO A. TAUSSIG

- Eleanor Cleveland Williams (Art) Waterloo, Iowa
A.B. State University of Iowa 1937; Cand. M.A.

**UNITED STATES RUBBER COMPANY POSTGRADUATE FELLOWSHIP
IN CHEMISTRY**

ESTABLISHED BY THE UNITED STATES RUBBER COMPANY

- Henry David Baldrige, Jr. Memphis, Tennessee
B.S. Southwestern 1944.

UNIVERSITY FELLOWSHIPS

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

- Igor Nicholas Belousovitch (Slavic Languages) San Francisco
A.B. 1946.
Clide Isom Carr, Jr. (Chemistry) Kalispell, Montana
A.B. Montana State University 1942.
James Michael Gardner Fell (Mathematics) Vancouver, British Columbia, Canada
A.B. University of British Columbia 1943; M.A. 1945.
Donald Kalish (Philosophy) Berkeley
A.B. 1943; M.A. 1945.
Catharine McClellan (Anthropology) Spring Grove, Pennsylvania
A.B. Bryn Mawr College 1942.
Samuel Elmo Martin (Oriental Languages) Berkeley
A.B. 1947.
Albert Warner Overhauser (Physics) San Francisco
Cand. A.B.
Patricia Helen Panyity (Anthropology) Bradford, Pennsylvania
B.S. Northwestern University 1947.
Robert Rudolph Schutz (Economics) Roseville
B.S. 1939 and M.S. 1941 University of Minnesota.
Paul Claude Silva (Botany) Chula Vista
A.B. University of Southern California 1946.
Robert Kenneth Soost (Genetics) Sacramento
A.B. 1942.
Blanche Suzanne Sweet (Psychology) Brooklyn, New York
A.B. Barnard College 1945.

UNIVERSITY OF CALIFORNIA LAW SCHOOL ASSOCIATION SCHOLARSHIPS

ESTABLISHED BY THE UNIVERSITY OF CALIFORNIA LAW SCHOOL ASSOCIATION

John Robert Burton.....Sacramento
A.B. 1942.Joseph Almoth Woods, Jr.....Piedmont
A.B. 1947.

Further appointments deferred.

UPJOHN FELLOWSHIP IN CHEMISTRY

ESTABLISHED BY THE UPJOHN COMPANY

Appointment deferred.

DR. BENJAMIN P. WALL MEMORIAL SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE DR. BENJAMIN P. WALL

William Adair Dale (Classics).....Rockwood, Ontario, Canada
Cand. A.B. University of Toronto.Donald Stewart Taylor (English).....Berkeley
A.B. 1947.

WESTINGHOUSE FELLOWSHIP IN PHYSICS

ESTABLISHED BY THE WESTINGHOUSE EDUCATIONAL FOUNDATION

John Root Green.....San Francisco
B.S. 1941.

WHITING FELLOWSHIPS IN PHYSICS

FOUNDED UNDER THE WILL OF THE LATE HAROLD WHITING

Theodore Charles Merkle, Jr.....Toledo, Ohio
B.S. 1940 and M.S. 1941 University of Michigan.Robert Arthur Wijsman.....The Hague, Netherlands
Physical Engineer, Technische Hoogeschool, Delft 1945.

ALLEN D. WILSON MEMORIAL SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE AMELIA E. S. WILSON
IN MEMORY OF HER HUSBANDRobert Donald Whaley (Medicine).....Walnut Creek
A.B. 1942.Irwin Widen (Education).....Chicago, Illinois
B.S. 1945 and M.A. 1947 Northwestern University.

Further appointment deferred.

WILLARD DAWSON THOMPSON MEMORIAL SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE MRS. JENNIE D. THOMPSON

Everett L. Cooley (History).....Sandy, Utah
A.B. 1943 and M.A. 1947 University of Utah.Dello Grimmett Dayton (History).....Logan, Utah
B.S. Utah State Agricultural College 1938; M.A. 1939.Calvin McMillan (Botany).....Murray, Utah
B.S. 1947 and Cand. M.S. University of Utah.Maxine Manning.....Salt Lake City, Utah
Freshman student, University of California.

AWARDS OF UNDERGRADUATE SCHOLARSHIPS FOR 1948-1949

The scholarships here listed, with but few exceptions, are awarded upon the recommendation of the Committee on Undergraduate Scholarships. The awards made by the Committee are based on scholarship, need, and promise, and represent a real distinction, comparable in most cases with the attainment of honor status, excepting where the special conditions of the bequest are such as largely to eliminate competition.

ACE OF CLUBS SCHOLARSHIP GIVEN BY THE ACE OF CLUBS SOCIETY

Ruth Mary Kunkel, Senior, Letters and Science, Los Angeles

ALAMEDA COUNTY NURSES' ASSOCIATION SCHOLARSHIP ESTABLISHED BY THE ALAMEDA COUNTY NURSES' ASSOCIATION

Appointments deferred

ALLIED DRUG TRAVELERS OF CALIFORNIA, INC., SCHOLARSHIP GIVEN BY THE ALLIED DRUG TRAVELERS OF CALIFORNIA, INC.

Appointment deferred

ALUMNI SCHOLARSHIPS FOR ENTERING STUDENTS PROVIDED FROM THE UNIVERSITY'S GENERAL FUNDS AND FROM FUNDS CONTRIBUTED BY ALUMNI OF THE UNIVERSITY

- Mary Lou Anderson, Junior (Applicant), Letters and Science, Salinas
Pattie Anne Anderson, Freshman (Applicant), Letters and Science, Livermore
Francis Avila, Freshman (Applicant), Engineering, Hickman
Wilbur Stanley Bardin, Junior (Applicant), Business Administration, Salinas
*Richard Dene Barr, Freshman (Applicant), Santa Barbara
Roy Theron Beck, Freshman (Applicant), Engineering, Ukiah
Harry Glover Behrens, Freshman (Applicant), Letters and Science, Stockton
Angelica Benndorf, Freshman (Applicant), Letters and Science, San Francisco
Howard Bishop Bliss, Freshman (Applicant), Engineering, Ojai
Marilynn Meta Board, Freshman (Applicant), Letters and Science, South Pasadena
Leslie Marion Bolton, Freshman (Applicant), Chemistry, Santa Ana
Dorothy May Bonnifield, Freshman (Applicant), Letters and Science, Stockton
*Patricia Lorena Brackett, Freshman (Applicant), Santa Barbara
Howard Charles Brashers, Freshman (Applicant), Letters and Science, Maxwell
Marshall Brownfield, Freshman (Applicant), Letters and Science, Taft
Barbara Snow Brune, Freshman (Applicant), Letters and Science, South Pasadena
Susan Chakmakjian, Freshman (Applicant), Letters and Science, Fresno
Donald Gary Chaney, Freshman (Applicant), Letters and Science, Patterson
*Arthur Kennedy Chard, Freshman (Applicant), Santa Barbara
Ruth Chew, Freshman (Applicant), Letters and Science, Oakland
Yen Bak Chin, Freshman (Applicant), Letters and Science, San Francisco
Donald Dean Clausen, Freshman (Applicant), Letters and Science, Hollister
Meredith Owen Clement, Junior (Applicant), Engineering, Colusa
John Jerry Conde, Freshman (Applicant), Agriculture, San Gabriel
John Shepherd Cooper, Freshman (Applicant), Letters and Science, Berkeley
Robert Stirling Cunnison, Freshman (Applicant), Letters and Science, LaVerne
Dorothy Ann Dashner, Freshman (Applicant), Agriculture, Livermore
Page Ann Decker, Freshman (Applicant), Letters and Science, Pomona
Helen Ann Derrick, Freshman (Applicant), Letters and Science, San Francisco
Edwin Stewart Dethlefsen, Sophomore (Applicant), Agriculture, San Francisco
Kathryn Marie Di Mercurio, Freshman (Applicant), Letters and Science, Pittsburg

* At Santa Barbara.

- Sara Barbara Druliard, Junior (Applicant), Letters and Science, Taft
 Nancy Day Easley, Freshman (Applicant), Letters and Science, San Marino
 Fred Ellis, Freshman (Applicant), Letters and Science, San Bernardino
 John Carl Elmer, Freshman (Applicant), Letters and Science, El Verano
 Leland Scott Erickson, Freshman (Applicant), Letters and Science, Kingsburg
 John Vincent Freeman, Freshman (Applicant), Letters and Science, San Luis Obispo
 William Stephens Greer, Freshman (Applicant), Engineering, Red Bluff
 Irene Marguerite Gwinn, Freshman (Applicant), Letters and Science, San Francisco
 Richard Davidson Hare, Freshman (Applicant), Letters and Science, San Francisco
 Katherine Kimball Harriman, Freshman (Applicant), Letters and Science, San Francisco
- Charles Albert Harris, Freshman (Applicant), Letters and Science, Dunsmuir
 Helen June Harris, Freshman (Applicant), Letters and Science, Westminster
 Fred Don Harrison, Freshman (Applicant), Letters and Science, Oakland
- *Patricia Lou Hart, Freshman (Applicant), Santa Barbara
 Richard Forstner Huelskamp, Freshman (Applicant), Engineering, Fullerton
 Donna Jackson, Junior (Applicant), Chemistry, Fellows.
 Jess Stonestreet Jackson, Jr., Freshman (Applicant), Letters and Science, San Francisco
- Arlee Dell James, Freshman (Applicant), Letters and Science, Redding
 Mary Belle Jarrell, Freshman (Applicant), Letters and Science, Avenal
- *Richard William Johnson, Freshman (Applicant), Santa Barbara
 Vincent Wendel Jones, Freshman (Applicant), Letters and Science, Long Beach
 Robert Walker Karpe, Freshman (Applicant), Letters and Science, Bakersfield
 Robert C Kelly, Sophomore (Applicant), Chemistry, Vallejo.
 Prudence Fulling King, Freshman (Applicant), Letters and Science, Petaluma
 Karl Herman Koenig, Freshman (Applicant), Letters and Science, Inglewood
 Eugene Clarence Kozlowski, Freshman (Applicant), Chemistry, Long Beach
 Margary Jane Lilly, Freshman (Applicant), Letters and Science, San Francisco
 Arlene Tamma Lindenberger, Freshman (Applicant), Letters and Science, San Mateo
 Peter Lisca, Junior (Applicant), Letters and Science, Santa Barbara
 Anna Low, Freshman (Applicant), Letters and Science, Woodland
 Virginia Rose McCulley, Junior (Applicant), Letters and Science, Ceres
 Robert Henry McGuigan, Freshman (Applicant), Letters and Science, San Francisco
 Jay Ross MacMahon, Freshman (Applicant), Letters and Science, Mill Valley
 William Greenwell McNair, Freshman (Applicant), Engineering, Lakeport
 James Arthur McTighe, Freshman (Applicant), Engineering, San Francisco
 Joan Diane Mallory, Freshman (Applicant), Letters and Science, Alameda
- *Marian Joan March, Freshman (Applicant), Betteravia
 Anne Elizabeth Martin, Freshman (Applicant), Letters and Science, Vallejo
 Robert Fredrick Meldau, Junior (Applicant), Chemistry, Pasadena
 Elfriede Dorothea Meyer, Freshman (Applicant), Letters and Science, Calistoga
 Richard Bernard Moen, Freshman (Applicant), Letters and Science, Crescent City
 Philip Galen Morales, Junior (Applicant), Letters and Science, Daly City
 Louise Siebert Morgan, Freshman (Applicant), Letters and Science, Sonora
 Robert Warren Murch, Freshman (Applicant), Letters and Science, San Francisco
 Ruth Maria Murri, Freshman (Applicant), Letters and Science, Napa
 Eugene Murray Nelson, Freshman (Applicant), Letters and Science, Buellton
 Mary Jane Nolting, Freshman (Applicant), Letters and Science, Pasadena
 John D Ovradovich, Freshman (Applicant), Letters and Science, Fresno
 Helen Palomino, Freshman (Applicant), Letters and Science, Merced
 Sidney Raymond Petersen, Freshman (Applicant), Letters and Science, San Leandro
 Dolores Yvonne Phelps, Freshman (Applicant), Letters and Science, Lompoc
 Luther Stephen Price, Freshman (Applicant), Agriculture, San Leandro
 Vincent Ralph Price, Freshman (Applicant), Agriculture, San Leandro
- *Elenita May Quintero, Freshman (Applicant), Santa Barbara
 Gene Edward Rapp, Freshman (Applicant), Agriculture, San Francisco
 Roland Eugene Richter, Freshman (Applicant), Letters and Science, Corning
 Walter Rusanoff, Freshman (Applicant), Letters and Science, San Francisco
 Alvajeau Senzek, Freshman (Applicant), Letters and Science, South San Francisco

* At Santa Barbara.

Virginia Irene Shelley, Freshman (Applicant), Letters and Science, Concord
Barbara Anne Sheppard, Freshman (Applicant), Letters and Science, Santa Rosa
[Thurman Egbert Silvey, Second-Year Pharmacy (Applicant), Exeter
Patricia Ann Smith, Freshman (Applicant), Letters and Science, Weott
*Billie Carol Sparlin, Freshman (Applicant), Santa Barbara
David Lee Steinheimer, Sophomore (Applicant), Engineering, Tucson, Arizona
Cloyd Sheridan Sweigert, Freshman (Applicant), Letters and Science, Palo Alto
Olive Buck Townsend, Freshman (Applicant), Letters and Science, Maricopa
Marion June Tsuda, Freshman (Applicant), Pharmacy, Santa Barbara
Gerald Baptist Vanoni, Freshman (Applicant), Letters and Science, Camarillo
Tommie Hathaway Warren, Jr., Freshman (Applicant), Letters and Science, San Jose
*Florence Marie Willett, Freshman (Applicant), Santa Barbara
Beverly Ann Wilson, Freshman (Applicant), Letters and Science, Exeter
Larry Howell Wilson, Freshman (Applicant), Engineering, San Francisco
Burke Zane, Freshman (Applicant), Engineering, Riverside

AMERICAN SMELTING AND REFINING COMPANY SCHOLARSHIP

GIVEN BY THE AMERICAN SMELTING AND REFINING COMPANY

Robert Lee Fields, Senior, Engineering, Redlands

**AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION
SCHOLARSHIPS**

GIVEN BY THE AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION

Appointments deferred

AMERICAN SOCIETY OF WOMEN ACCOUNTANTS SCHOLARSHIP

**ESTABLISHED BY THE SAN FRANCISCO CHAPTER OF THE AMERICAN SOCIETY OF
WOMEN ACCOUNTANTS**

Appointment deferred

WILLIAM CLARE ANDERSON SCHOLARSHIP

ESTABLISHED BY THE WILL OF MRS. SUSIE E. ANDERSON IN MEMORY OF HER HUSBAND

Marie-Louise Anne di Suvero, Sophomore, Letters and Science, San Francisco

ARTHUR ARLETT MEMORIAL SCHOLARSHIP

ESTABLISHED BY FRIENDS OF THE LATE ARTHUR ARLETT

Robert Bishop Jackson, Senior, Letters and Science, Richmond

ASSOCIATED DENTAL STUDENTS' SCHOLARSHIPS

ESTABLISHED BY THE ASSOCIATED DENTAL STUDENTS

Appointments deferred

**ASSOCIATION OF PHARMACISTS' WIVES OF SAN FRANCISCO
SCHOLARSHIP**

GIVEN BY THE ASSOCIATION OF PHARMACISTS' WIVES OF SAN FRANCISCO

Appointment deferred

BEAR PHOTO SERVICE SCHOLARSHIP IN PHARMACY

MAINTAINED BY THE BEAR PHOTO SERVICE

Appointment deferred

BERKELEY PIANO CLUB SCHOLARSHIP

GIVEN BY THE BERKELEY PIANO CLUB

To be awarded in the spring of 1949

* At Santa Barbara.

[At San Francisco.

*Undergraduate Scholarships***BETA SIGMA PHI SCHOLARSHIP**

GIVEN BY THE NORTHERN CALIFORNIA AREA COUNCIL OF THE
BETA SIGMA PHI SORORITY

¶ Rosemary Nora Hallum, Senior, Letters and Science, Oakland

JOHN TREADWELL BIXBY SCHOLARSHIPS

ESTABLISHED BY MRS. FRED H. BIXBY IN MEMORY OF HER SON

Johnson T Prescott, Junior, Letters and Science, Berkeley
Marvin Harold Quickert, Junior, Letters and Science, Morgan Hill
Natalie Jean Webster, Senior, Letters and Science, Berkeley

JOSEPH BONNHEIM MEMORIAL SCHOLARSHIPS

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM OF SACRAMENTO

Suzanne Akey, Sophomore, Letters and Science, Oakland
Michael Edwin Browne, Freshman, Engineering, Long Beach
Bonnie Jean Close, Sophomore, Letters and Science, San Diego
LeRoy Harris Dart, Sophomore, Letters and Science, San Luis Obispo
Gordon Edward Davis, Junior, Letters and Science, Fresno
Vernon Pierre Faillettaz, Junior, Letters and Science, San Francisco
Virginia Claire Fisher, Sophomore, Letters and Science, San Francisco
Suzanne Howell, Sophomore, Letters and Science, Fresno
Elinor Mary Irish, Sophomore, Letters and Science, San Diego
Albert Cleveland Jones, Sophomore, Letters and Science, Petaluma
Isabelle Emma Clarissa Therese Kimber, Senior, Letters and Science, Sacramento
*Lyn Treat MacDonald, Freshman (Applicant), Agriculture, LaVerne
Gabriel Leon Plaa, Freshman, Letters and Science, San Francisco
Allan Marshall Rupprecht, Sophomore, Letters and Science, San Francisco

BORDEN AGRICULTURAL SCHOLARSHIP

ESTABLISHED BY THE BORDEN COMPANY, NEW YORK CITY

Appointment deferred

BORDEN HOME ECONOMICS SCHOLARSHIP

ESTABLISHED BY THE BORDEN COMPANY, NEW YORK CITY

Appointment deferred

DAVID BOUVERIE SCHOLARSHIP

ESTABLISHED BY DAVID P. BOUVERIE

Richard Isamu Tanaka, Junior, Engineering, Richmond

F. W. BRADLEY MEMORIAL SCHOLARSHIPS

FOUNDED BY VIRGINIA SHEARER BRADLEY FOR THE BENEFIT OF GRADUATES OF
NEVADA CITY HIGH SCHOOL IN MEMORY OF HER SON

Donald Steve Eden, Freshman (Applicant), Engineering, Nevada City
Genevieve Emma Ellis, Freshman (Applicant), Letters and Science, Nevada City
Lee Gilbert Miller, Freshman (Applicant), Letters and Science, Grass Valley

JAMES WILLIAM BYRNE SCHOLARSHIPS

ESTABLISHED BY THE WILL OF JAMES WILLIAM BYRNE, OF THE CLASS OF 1879

Mary Lee Fuhr, Sophomore, Letters and Science, Los Angeles
Bernice Iva Herger, Freshman (Applicant), Letters and Science, Vallejo
Elsa Louise Huber, Senior, Letters and Science, San Francisco
Marilyn Ruth Keiser, Junior, Letters and Science, Richmond

* At Davis.

¶ One semester only, candidate for graduation January, 1949.

STATE OF CALIFORNIA SCHOLARSHIPS

FOUNDED BY THE REGENTS OF THE UNIVERSITY OUT OF THE INCOME OF THE
UNIVERSITY

- Dianne Margaret Allen, Freshman (Applicant), Letters and Science, Loyalton
 * Donald Eugene Barr, Junior (Applicant), Agriculture, Pasadena
 Jack Odell Benson, Freshman (Applicant), Engineering, Oakland
 Nancy Jean Blair, Freshman (Applicant), Letters and Science, San Diego
 Elisabeth Louise Bonsack, Freshman (Applicant), Letters and Science, Oakland
 Ingeborg Marie Beate Breitner, Freshman (Applicant), Letters and Science,
 Claremont
 Adele Frances Brooks, Freshman (Applicant), Letters and Science, San Gabriel
 Donald Mordka Cahen, Freshman (Applicant), Letters and Science, San Francisco
 Sherwin John Carlquist, Freshman (Applicant), Letters and Science, San Marino
 James Milton Carroll, Freshman (Applicant), Letters and Science, Long Beach
 Barry Frank Cavaghan, Freshman (Applicant), Letters and Science, Fullerton
 Mary Leslie Coelho, Freshman (Applicant), Letters and Science, San Luis Obispo
 Virginia Grace Crombie, Freshman (Applicant), Letters and Science, San Francisco
 Robert Stephen Davis, Freshman (Applicant), Engineering, Roscoe
 Donald Fraser Donner, Freshman (Applicant), Engineering, Montebello
 Margaret Jeanette Edson, Freshman (Applicant), Letters and Science, San Diego
 Roma Louise Engstrand, Junior (Applicant), Letters and Science, Turlock
 * Jayne Elizabeth Feeley, Freshman (Applicant), Agriculture, Richmond
 David Lloyd Fischer, Junior (Applicant), Engineering, Upland
 Betty Jeanne Fogarty, Junior (Applicant), Letters and Science, Yuba City
 David Milton Fradkin, Freshman (Applicant), Letters and Science, Porterville
 Peggy Jean Gibbons, Freshman (Applicant), Letters and Science, Ripon
 Jeanne Dore Gifford, Freshman (Applicant), Letters and Science, Colusa
 Richard Eldon Glenn, Jr., Freshman (Applicant), Letters and Science, Chico
 Wataru Goishi, Junior (Applicant), Chemistry, Florin
 James Norman Guilhamet, Sophomore (Applicant), Chemistry, Hollister
 Anne LeConte Haines, Freshman (Applicant), Letters and Science, Visalia
 Harry Albert Hanson, Jr., Freshman (Applicant), Letters and Science, Red Bluff
 Phyllis Yeiko Hirata, Freshman (Applicant), Letters and Science, San Bernardino
 Maurice Eugene Holloway, Freshman (Applicant), Letters and Science, San Leandro
 Max Hoyt Hommersand, Freshman (Applicant), Letters and Science, San Diego
 Paul Hilmer Johanson, Junior (Applicant), Letters and Science, Kingsburg
 Janet Beatrice Johnson, Freshman (Applicant), Letters and Science, San Anselmo
 Robert T Johnson, Freshman (Applicant), Chemistry, Santa Ana
 Marjorie Ann Jones, Freshman (Applicant), Letters and Science, Pomona
 Annette Brinkman Kanode, Freshman (Applicant), Letters and Science, El Segundo
 Dorothy Shizuko Kawai, Freshman (Applicant), Letters and Science, Richmond
 Elisabeth Yuko Kikuchi, Freshman (Applicant), Letters and Science, San Diego
 Bruce Moody Kilgore, Freshman (Applicant), Letters and Science, Glendale
 Janice Marie King, Freshman (Applicant), Letters and Science, Oakland
 Vivian Georgene Knudsen, Freshman (Applicant), Letters and Science, Menlo Park
 Gladys Koley, Freshman (Applicant), Letters and Science, Balboa
 Jerrold Leon LaChance, Freshman (Applicant), Letters and Science, San Francisco
 Mareta Ann Lentz, Freshman (Applicant), Letters and Science, LaVerne
 Humberto Carrillo Lopez, Freshman (Applicant), Letters and Science, Pomona
 Wilda Mae McClung, Freshman (Applicant), Letters and Science, Kerman
 William Lloyd McDonald, Freshman (Applicant), Letters and Science, San Francisco
 Michael Geoffrey McKee, Freshman (Applicant), Letters and Science, Walnut Creek
 Elinore Grace Magee, Freshman (Applicant), Letters and Science, Sunnyvale
 Chris Steve Manitsa, Freshman (Applicant), Letters and Science, Richmond
 Phyllis Ann Means, Freshman (Applicant), Letters and Science, Long Beach
 Hideo Mori, Freshman (Applicant), Letters and Science, Clovis
 Theodore John Murphy, Freshman (Applicant), Letters and Science, Concord
 Marianne Otto, Junior (Applicant), Letters and Science, Pasadena
 Ethel Miriam Perry, Freshman (Applicant), Letters and Science, Los Angeles

* At Davis.

Marcia Elaine Purcifull, Freshman (Applicant), Letters and Science, Dunnigan
 Gloria Lucille Quan, Freshman (Applicant), Letters and Science, San Francisco
 Joan Harriet Raymer, Freshman (Applicant), Letters and Science, Piedmont
 Katherine Ream, Freshman (Applicant), Letters and Science, San Leandro
 Edmund Louis Regalia, Freshman (Applicant), Letters and Science, El Cerrito
 Donald Walter Robinson, Freshman (Applicant), Letters and Science, Puente
 Aldo Joseph Rossi, Freshman (Applicant), Letters and Science, Stockton
 Jack Orvil Rothe, Freshman (Applicant), Letters and Science, Fresno
 Charles Milton Savage, Jr., Freshman (Applicant), Chemistry, San Diego
 Donald David Schroeder, Junior (Applicant), Letters and Science, Visalia
 L Edward Scriven II, Freshman (Applicant), Chemistry, San Mateo
 George V Shalimoff, Freshman (Applicant), Chemistry, San Francisco
 Ronald Dean Smith, Freshman (Applicant), Chemistry, Oakland
 Katherine Anne Spanyers, Freshman (Applicant), Letters and Science, Inglewood
 Gerald Charles Stack, Junior (Applicant), Engineering, Fullerton
 Robert Edward Stanton, Freshman (Applicant), Letters and Science, Thousand Oaks
 Suzanne Marie Strueben, Freshman (Applicant), Letters and Science, Huntington
 Beach
 John Merrill Thomas, Freshman (Applicant), Chemistry, Hollister
 Ina Belle Tucker, Freshman (Applicant), Letters and Science, Hemet
 John Henry Ullman, Freshman (Applicant), Engineering, San Francisco
 Helen Ann Von Gunten, Freshman (Applicant), Letters and Science, Oakland
 Gordon Joseph Vosti, Junior (Applicant), Letters and Science, Modesto
 Roy Sherwood Wagner, Freshman (Applicant), Letters and Science, San Dimas
 Carl Durant Wells, Junior (Applicant), Letters and Science, Modesto
 James Frederick Wheeler, Freshman (Applicant), Letters and Science, Fort Bragg
 Laura June Williams, Freshman (Applicant), Letters and Science, San Francisco
 Shirley Ann Winklemen, Freshman (Applicant), Letters and Science, Wilmar
 Mortimer Alden Yelton, Freshman (Applicant), Letters and Science, San Bernardino
 Dolores Phyllis Zerda, Freshman (Applicant), Letters and Science, San Francisco

HENRY BENJAMIN CAREY SCHOLARSHIP

GIVEN BY THE CUTTER LABORATORIES IN MEMORY OF THE LATE
 ACTING DEAN OF THE COLLEGE OF PHARMACY

Appointment deferred

THOMAS WILLIAM CARLSON MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE PARENTS OF THOMAS WILLIAM CARLSON, KILLED IN ACTION
 ON LEYTE, NOVEMBER 18, 1944

Don L Robison, Freshman (Applicant), Letters and Science, Martinez

JESSE D. CARR SCHOLARSHIPS

ESTABLISHED FROM THE ESTATE OF JESSIE CARR SEALE IN MEMORY OF HER
 FATHER, JESSE D. CARR

*Lionel Holton Brazil, Junior, Agriculture, Tulare
 Lisa Johanna Kraus, Senior, Agriculture, San Francisco

LOUIS AND EMMA CAVALIER SCHOLARSHIPS

ESTABLISHED BY THE WILL OF WILLIAM CAVALIER

Lester Paul Broliar, Senior, Letters and Science, Berkeley
 Price Ellsworth Charlson, Senior, Letters and Science, Pasadena
 ¶Elizabeth Buttler Reed, Senior, Letters and Science, San Francisco
 ¶Dorothy Francis Throckmorton, Senior, Agriculture, Richmond

* At Davis.

¶ One semester only, candidate for graduation January, 1949.

CHAPIN-HERRON SCHOLARSHIPS

**ESTABLISHED BY THE BEQUEST OF ETHEL CHAPIN CYRUS IN MEMORY OF HER FATHER,
HERBERT F. CHAPIN, AND OF HER FIRST HUSBAND, JOSEPH H. HERRON**
Dolores Clapp, Junior, Letters and Science, Oakland
Nancy Ruth Shiddell, Sophomore, Letters and Science, Concord

CHI OMEGA MOTHERS' CLUB SCHOLARSHIP

PROVIDED BY THE CHI OMEGA MOTHERS' CLUB
Jane Christine Wilcox, Sophomore, Letters and Science, Pasadena

CHI PSI FRATERNITY SCHOLARSHIP

PROVIDED BY THE CHI PSI EDUCATIONAL TRUST OF THE CHI PSI FRATERNITY
To be awarded in the spring of 1949

CLASS OF 1906 SCHOLARSHIP

ESTABLISHED BY THE CLASS OF 1906
Barbara Lee Park, Sophomore, Letters and Science, Alhambra

CAROLINE J. CLOW SCHOLARSHIPS

ESTABLISHED BY A BEQUEST OF THE LATE ELIZABETH W. CLOW
Charles Steve Marinovich, Freshman (Applicant), Letters and Science, Watsonville
Dorothy Louise Seibert, Freshman (Applicant), Letters and Science, Watsonville
Bernice Marion Stampfli, Freshman (Applicant), Letters and Science, Watsonville
Additional appointments deferred

JAMES W. COFFROTH SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF THE LATE JAMES W. COFFROTH
Not offered 1948-1949

P. CHARLES COLE SCHOLARSHIP

ESTABLISHED BY A BEQUEST OF THE LATE P. CHARLES COLE
Frank Diaz, Senior, Chemistry, Richmond

COLLEGE WOMEN'S CLUB OF BERKELEY SCHOLARSHIP

ESTABLISHED IN 1921 BY A GIFT FROM THE COLLEGE WOMEN'S CLUB OF BERKELEY
Dale Stewart Walker, Senior, Letters and Science, Altadena

CONSOLIDATED VULTEE AIRCRAFT CORPORATION SCHOLARSHIPS
GIVEN BY THE CONSOLIDATED VULTEE AIRCRAFT CORPORATION FOR EMPLOYEES OF
THAT CORPORATION

Appointments deferred

JOHN AND MAY ALICE COOPER SCHOLARSHIP

ESTABLISHED BY THE WILL OF SALLIE FRANCES DE VINE
Blanche Gelders Hartman, Senior, Chemistry, Berkeley

WIGGINTON E. CREED MEMORIAL SCHOLARSHIP

FOUNDED BY MRS. WIGGINTON E. CREED
Margaret Lee Ellis, Senior, Business Administration, San Bruno
James Patrick Mower, Junior, Business Administration, Oakland

*Undergraduate Scholarships***ANDREW DALZIEL SCHOLARSHIP**

GIVEN BY MR. ANDREW DALZIEL FOR BLIND STUDENTS

Appointment deferred

MRS. EMMA S. DAVIS SCHOLARSHIP

ESTABLISHED BY THE BEQUEST OF MRS. EMMA S. DAVIS

Not offered 1948-1949

WILLIAM R. DAVIS SCHOLARSHIPS

FOUNDED BY THE LATE WILLIAM R. DAVIS

Anthony Faustino de la Pena, Senior, Letters and Science, Berkeley
 †Keith Bernard Kenny, Senior, Letters and Science, Sacramento
 †Roger Fremont Wilcox, Senior, Engineering, Richmond

JAMES DENMAN SCHOLARSHIPS

ESTABLISHED BY THE LATE JAMES DENMAN

Shirlee Balaban Cherniss, Senior, Letters and Science, Berkeley
 Betty Mary Graham, Junior, Letters and Science, San Francisco

THE HARRY STUART AND ALICE URQUHART DERBY SCHOLARSHIP

ESTABLISHED BY THE WILL OF ALICE U. DERBY, A RESIDENT OF SANTA CLARA COUNTY

Not offered 1948-1949

BERTHA DOLBEER SCHOLARSHIPS

FOUNDED BY MISS E. MARION WARREN OF SAN FRANCISCO

Miriam Helen Armstrong, Sophomore, Letters and Science, San Jose
 Elizabeth Roemer, Junior, Letters and Science, Alameda

JOHN DOLBEER SCHOLARSHIPS

FOUNDED BY MISS E. MARION WARREN OF SAN FRANCISCO

Richard Harold Aulwurm, Junior, Letters and Science, Stockton
 Norman Ernest Skarsten, Junior, Business Administration, Richmond

THE RUTH NORTON DONNELLY SCHOLARSHIPGIVEN BY THE WOMEN'S DORMITORY ASSOCIATION OF THE BERKELEY CAMPUS OF
THE UNIVERSITY

Gloria Nathalie Cuadra, Junior, Letters and Science, Berkeley

DOUGLAS AIRCRAFT COMPANY SCHOLARSHIPFOUNDED BY DONALD W. DOUGLAS, PRESIDENT OF THE DOUGLAS AIRCRAFT COMPANY
Franki Van der Wal, Senior, Engineering, San Francisco**GEORGE A. DOUGLASS SCHOLARSHIPS**

PROVIDED IN THE WILL OF THE LATE GEORGE A. DOUGLASS

Harry Clifford Bertuccelli, Senior, Letters and Science, San Francisco
 James William Braghetta, Junior, Letters and Science, Eureka
 David Preston Brown, Junior, Letters and Science, Concord
 Carlos Albert Cuadra, Senior, Letters and Science, Berkeley
 Everett Vernon Haddick, Jr., Senior, Letters and Science, Palermo
 Donald Anton Henriksen, Junior, Letters and Science, Menlo Park
 Harold Alfred Jonsson, Junior, Letters and Science, Richmond
 David Paris Mandeville, Senior, Letters and Science, Sacramento

† One semester only, candidate for graduation January, 1949.

HELEN JAY DUBOIS SCHOLARSHIP

FOUNDED BY THE WILL OF MISS HELEN JAY DUBOIS
Rose-Marie Konigs, Junior, Letters and Science, San Francisco

CHARLES MALLORY DUTTON SCHOLARSHIP

ESTABLISHED IN MEMORY OF CHARLES MALLORY DUTTON BY HIS FRIENDS FOR THE
BENEFIT OF STUDENTS IN THE DEPARTMENT OF MUSIC
Albert William McKinney III, Sophomore, Letters and Science, Cool

GEORGE SEXTON EDWARDS SCHOLARSHIP

ESTABLISHED BY THE WILL OF GEORGE SEXTON EDWARDS, OF THE CLASS OF 1879
Roger Louis Walters, Freshman (Applicant), Letters and Science, Vallejo

HIRAM W. EDWARDS SCHOLARSHIP IN PHYSICS

GIVEN BY THE CALIFORNIA ASSOCIATION OF INDEPENDENT SECONDARY SCHOOLS
Richard Herbert Morris, Junior, Letters and Science, Oakland

SIDNEY HELLMAN EHRMAN SCHOLARSHIP

ESTABLISHED FROM FUNDS BEQUEATHED UNDER THE WILL OF FREDRICKA EHRMAN
IN MEMORY OF REGENT SIDNEY M. EHRMAN'S SON, SIDNEY HELLMAN EHRMAN
Clarace Plumb Bock, Senior, Letters and Science, Berkeley

THE SIDNEY M. EHRMAN SCHOLARSHIP

FOUNDED BY MR. AND MRS. BERTHOLD GUGGENHIME IN HONOR OF
REGENT SIDNEY M. EHRMAN
Stephen Howard Sosnick, Sophomore, Letters and Science, San Francisco

MEYER ELSASSER SCHOLARSHIP

ESTABLISHED BY CHARLOTTE CREEP ELSASSER IN MEMORY OF HER HUSBAND
John Thomas March, Junior, Chemistry, Yuba City

FRED T. ELSEY SCHOLARSHIP

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN HONOR OF THE LATE
FRED T. ELSEY
Appointment deferred

EPSILON PHI SIGMA MEMORIAL SCHOLARSHIPS

ESTABLISHED BY EPSILON PHI SIGMA, THE HELLENIC STUDENTS SOCIETY OF THE
UNIVERSITY OF CALIFORNIA AT BERKELEY, IN MEMORY OF ITS MEMBERS WHO
FELL IN THE LINE OF MILITARY DUTY IN THE SECOND WORLD WAR
Andrew George Jamexon, Senior, Letters and Science, San Francisco
George James Stathakis, Sophomore, Engineering, Vallejo

FARM HOME DEPARTMENT HOME ECONOMICS SCHOLARSHIP

GIVEN BY THE FARM HOME DEPARTMENT OF THE CALIFORNIA
FARM BUREAU FEDERATION

*Catherine Christina Schleer, Senior, Agriculture, Hollister

* At Davis.

RICHARD D. AND KATE FAULKNER SCHOLARSHIP

ESTABLISHED BY THE WILL OF RICHARD D. FAULKNER

Billie Ann Taulman, Sophomore, Letters and Science, Colfax

MINNIE FECHHEIMER MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE TRUSTEES OF THE MINNIE FECHHEIMER MEMORIAL FUND

Eva Petronella Andersen, Senior, Nursing, Oakland

BELLA G. FLEISHHACKER SCHOLARSHIPS

ESTABLISHED BY MRS. BELLA G. FLEISHHACKER IN HONOR OF HER HUSBAND,

MR. MORTIMER FLEISHHACKER

Helen McKee, Senior, Chemistry, Sacramento

Gerald Sheldon Silberman, Sophomore, Letters and Science, Los Angeles

A FRIEND OF THE UNIVERSITY SCHOLARSHIP

GIVEN BY AN ANONYMOUS DONOR FOR THE BENEFIT OF A WORLD WAR II VETERAN

Wallace Ralph Lampshire, Senior, Letters and Science, Richmond

GAMMA PHI BETA SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO ALUMNAE CHAPTER OF GAMMA PHI BETA

AND ETA CHAPTER OF THE UNIVERSITY OF CALIFORNIA

Not offered 1948-1949

THE CHARLES B. GLEASON SCHOLARSHIP

ESTABLISHED BY THE SCHOLARSHIP COMMITTEE OF SAN JOSE HIGH SCHOOL

FOR GRADUATES OF THE SAN JOSE HIGH SCHOOL

Appointment deferred

GRAND ARMY OF THE REPUBLIC SCHOLARSHIP

FOUNDED BY THE WOMEN'S RELIEF CORPS, DEPARTMENT OF CALIFORNIA AND NEVADA,

AUXILIARY OF THE GRAND ARMY OF THE REPUBLIC

Richard Neil Farmer, Junior, Letters and Science, San Leandro

Earl Cecil Lendrum, Senior, Letters and Science, Fresno

LOUISA GREENEWALD SCHOLARSHIPS

FOUNDED BY THE LATE OTTO HENRY GREENEWALD OF SAN FRANCISCO FOR THE

BENEFIT OF RESIDENTS OF THE CITY AND COUNTY OF SAN FRANCISCO

Catherine Margaret Chapman, Sophomore, Letters and Science, San Francisco

Patricia Shizuko Ichioka, Freshman, Letters and Science, San Francisco

Jayne Marden Oldfield, Sophomore, Letters and Science, San Francisco

OTTO HENRY GREENEWALD MEMORIAL SCHOLARSHIPS

FOUNDED BY THE LATE OTTO HENRY GREENEWALD OF SAN FRANCISCO FOR THE

BENEFIT OF RESIDENTS OF THE CITY AND COUNTY OF SAN FRANCISCO

Warren Eugene Clifford, Junior, Chemistry, San Francisco

¶Edwin Oliver Elliott, Senior, Letters and Science, San Francisco

Frederic Lyle Harvey, Junior, Letters and Science, San Francisco

JARED HILL GROSSMITH SCHOLARSHIPS

FOUNDED BY MR. AND MRS. L. B. GROSSMITH AND MR. AND MRS. J. P. HILL IN

MEMORY OF THEIR SON AND NEPHEW

John Howell Hoffman, Sophomore, Engineering, San Francisco

Renee Mary Elizabeth Kimber, Senior, Letters and Science, Sacramento

¶ One semester only, candidate for graduation January, 1949.

WALTER A. HAAS SCHOLARSHIP

ESTABLISHED BY MRS. WALTER A. HAAS AND MEMBERS OF HER FAMILY

Samuel William French, Senior, Letters and Science, Los Angeles

NORMAN V. HAYES MEMORIAL SCHOLARSHIP

GIVEN BY THE NATIONAL RESEARCH CORPORATION

Appointment deferred

PHOEBE A. HEARST SCHOLARSHIPS

FOUNDED BY THE LATE REGENT PHOEBE A. HEARST

‡ Elizabeth Jeanne Allen, Senior, Letters and Science, Oakland
‡ Jean Ellen Becket, Senior, Letters and Science, Woodland
Ruth Sachi Hase, Junior, Letters and Science, Lemoore
Rosamond Thornton Hathaway, Junior, Letters and Science, Berkeley
Sarita Kay Johnson, Sophomore, Letters and Science, San Francisco
Alice Thompson Keast, Senior, Letters and Science, Berkeley
Lois Jean Miller, Senior, Letters and Science, Northridge
Bonita Jeanne Peterson, Junior, Letters and Science, Turlock
‡ Mary Jane Satterfield, Senior, Letters and Science, Oakland

ISAIAS W. HELLMAN SCHOLARSHIPS

FOUNDED BY THE LATE REGENT ISAIAS W. HELLMAN

Francis Harry Bauer, Senior, Letters and Science, Oakland
Stephen Herbert Bass, Junior, Letters and Science, Alameda
Robert Stanley Brodkey, Junior, Chemistry, San Francisco
Donovan Fredrick Cartwright, Junior, Chemistry, Tulare
‡ Maury Engel, Senior, Letters and Science, Oakland
Daniel Harris Goodman, Senior, Engineering, Berkeley
Frederick Worthman Hebbard, Senior, Optometry, Vallejo
Charles Kenneth Jackson, Junior, Letters and Science, Oakland
Benjamin John Lucow, Senior, Letters and Science, Los Angeles
Milton Magid, Senior, Engineering, New York
Abraham Joseph Malerstein, Senior, Letters and Science, Los Angeles
Donald Gabriel Miller, Senior, Chemistry, Oakland
Milton August Orowitz, Junior, Letters and Science, Berkeley
‡ Asa Stephen Pickett, Jr., Senior, Letters and Science, Richmond
Donald Theodore Porter, Jr., Senior, Engineering, Berkeley
Robert Louis Rogers, Senior, Letters and Science, Gilroy
Rolland Williams Rollins, Senior, Engineering, Berkeley
Jerry Stollar, Junior, Letters and Science, Berkeley
John Eugene Turpin, Senior, Letters and Science, Avenal

**HIGH SCHOOL OF COMMERCE SCHOLARSHIP IN MEMORY OF
CHARLES H. MURPHY**

**ESTABLISHED BY THE SAN FRANCISCO BOARD OF EDUCATION FOR THE BENEFIT
OF GRADUATES OF THE HIGH SCHOOL OF COMMERCE**

Appointment deferred

THE BARNARD HOBSON SCHOLARSHIP

**ESTABLISHED BY GRACE HOBSON SMITH (MRS. FRED W. SMITH) IN MEMORY OF
HER AUNT, GRACE BARNARD**

Not offered 1948-1949

HENRY M. HOLBROOK SCHOLARSHIP IN MUSIC

FOUNDED BY MARY HOLBROOK KNIGHT IN MEMORY OF HER BROTHER

Not offered 1948-1949

‡ One semester only, candidate for graduation January, 1949.

*Undergraduate Scholarships***HENRY MORGAN HOLBROOK SCHOLARSHIP**

FOUNDED BY MRS. OLIVE H. PALMER IN MEMORY OF HER BROTHER
George Richard Moore, Junior, Chemistry, Fresno

HOWARD C. HOLMES SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MRS. JOSEPHINE E. HOLMES FOR THE BENEFIT OF
STUDENTS IN CIVIL ENGINEERING

Robert Glen Mackenzie, Senior, Engineering, Berkeley
Edward Thomas Phillips, Senior, Engineering, San Diego
Nian Stevenson Roberts, Junior, Engineering, Sacramento
Richard Heilbron Roberts, Senior, Engineering, Sacramento
Charles Stuart Williamson, Sophomore, Engineering, Oakland

MARY GORDON HOLWAY SCHOLARSHIP

ESTABLISHED BY THE PANHELLENIC ORGANIZATION IN
MEMORY OF MRS. HOLWAY

Shirley Elizabeth Gaebler, Senior, Letters and Science, Berkeley

HONORARY SCHOLARSHIPS WITHOUT STIPEND

ESTABLISHED BY THE UNIVERSITY TO HONOR OUTSTANDING ENTRANTS

Charles William Bass, Freshman (Applicant), Letters and Science, Piedmont
Marilyn Elizabeth Bruns, Freshman (Applicant), Letters and Science, Tracy
Melvin Emerson Cavanaugh, Freshman (Applicant), Letters and Science, Ceres
Allen Nowell Croft, Freshman (Applicant), Letters and Science, Stockton
Diana Crossman, Freshman (Applicant), Letters and Science, Niles
Phyllis Ann Easley, Freshman (Applicant), Letters and Science, Albany
Marily Farnsworth, Freshman (Applicant), Letters and Science, Grimes
Susan Grotheer, Freshman (Applicant), Letters and Science, Suisun
Dorothy Irene Oden, Freshman (Applicant), Letters and Science, Brentwood
Donald Edward Pearson, Freshman (Applicant), Letters and Science, San Marino
Elizabeth Caroline Potter, Freshman (Applicant), Letters and Science, Napa
Evelyn Catherine Rodrigues, Freshman (Applicant), Letters and Science, Riverdale
Nettie Margaret Schermerhorn, Freshman (Applicant), Letters and Science, San
Francisco
Ernest Phillip Soderstrom, Freshman (Applicant), Letters and Science, Modesto
Carolyn Lee Stay, Freshman (Applicant), Letters and Science, Reedley

CORNELIUS B. HOUGHTON SCHOLARSHIP

FOUNDED BY MRS. CORNELIUS B. HOUGHTON IN MEMORY OF HER HUSBAND
Not offered 1948-1949

BRUCE HOWARD MEMORIAL SCHOLARSHIP

ESTABLISHED BY MRS. HELEN HOWARD OF OAKLAND, IN MEMORY OF HER SON,
FOR THE BENEFIT OF STUDENTS IN CHEMISTRY
Appointment deferred

WALTER J. HUND MEMORIAL SCHOLARSHIP

FOUNDED BY FELLOW EMPLOYEES OF THE SHELL DEVELOPMENT COMPANY
Alice Quirin Roemer, Sophomore, Letters and Science, Alameda

IDA HENRIETTA HYDE SCHOLARSHIP FOR WOMEN

ESTABLISHED BY MRS. IDA H. HYDE
Not offered 1948-1949

THE GERTRUDE HAZEL HYMAN MEMORIAL SCHOLARSHIP

**ESTABLISHED BY MR. WILLIAM M. HYMAN, CLASS OF 1896, IN MEMORY OF HIS WIFE
Patsy Jean Fields, Freshman (Applicant), Letters and Science, Woodland**

IOTA SIGMA PI SCHOLARSHIP

GIVEN BY THE HYDROGEN CHAPTER OF IOTA SIGMA PI

Appointment deferred

FRANK H. AND MARION S. JOHNSON SCHOLARSHIPS

ESTABLISHED BY THE BEQUEST OF MARION S. JOHNSON

**Rosemary Clark, Junior, Letters and Science, Los Angeles
Thomas Robert Eliason, Senior, Letters and Science, San Gabriel**

ALBERT SIDNEY JOHNSTON MEMORIAL SCHOLARSHIP

FOUNDED BY THE UNITED DAUGHTERS OF THE CONFEDERACY, CHAPTER 79

Elizabeth Jocelyn Le Mieux, Junior, Letters and Science, Berkeley

CARRIE M. JONES SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. CARRIE M. JONES

**Carl Lyndon Abarr, Sophomore, Agriculture, Crescent City
Phillip Anthony Adama, Sophomore, Agriculture, Los Angeles
Thomas Harry Arkley, Sophomore, Agriculture, Ramona
Dale Dodge Baldrige, Jr., Sophomore, Letters and Science, Columbia
Raymond Einar Berg, Sophomore, Letters and Science, San Francisco
Dean Burson Carl, Junior, Engineering, Redding
†Stanley Vernon Castner, Senior, Chemistry, Berkeley
Courtney Stafford Coleman, Sophomore, Letters and Science, Hollister
†Richard Allen Fagetti, Senior, Letters and Science, San Francisco
James Edgar Froeschle, Sophomore, Letters and Science, Santa Ana
Walter Edgar Harris, Senior, Engineering, Pomona
Charles Robert Keppel, Sophomore, Chemistry, Stockton
Ramon Edgar Moore, Sophomore, Letters and Science, Sacramento
David Robert Nethaway, Sophomore, Chemistry, San Diego
Gordon Wade Pusser, Sophomore, Letters and Science, Santa Ana
Ernest Donald Reichert, Junior, Engineering, Berkeley
Norman Carl Rose, Junior, Chemistry, Hayward
George Roseme, Sophomore, Letters and Science, Glen Ellen
William Eugene Rowley, Jr., Junior, Agriculture, Oakdale
Gerard Edward Silberstein, Sophomore, Letters and Science, Berkeley
†Kiyoto Uriu, Senior, Agriculture, Sunnyvale**

ALFRED B. JORDAN SCHOLARSHIPS

FOUNDED BY THE WILL OF THE LATE ALFRED B. JORDAN

**Marion Ellen Mankin, Sophomore, Letters and Science, Los Angeles
Norbert Muller, Senior, Chemistry, Berkeley**

EVA AUGUSTA JOSEPHI MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF CORALIE NOYES KENFIELD

Appointment deferred

KAPPA KAPPA GAMMA SCHOLARSHIP

ESTABLISHED BY THE ALUMNAE OF KAPPA KAPPA GAMMA

Harriette Norma Tyre, Senior, Letters and Science, Los Angeles

† One semester only, candidate for graduation January, 1949.

*Undergraduate Scholarships***ANNA BELL KARR SCHOLARSHIP**

ESTABLISHED BY THE WILL OF ANNA BELL KARR FOR THE BENEFIT OF RESIDENTS
OF YUBA COUNTY

Charles Walter Bloom, Graduate, English, Marysville
Robert Otis Boies, Jr., Senior, Business Administration, Marysville
Elizabeth Mary Elbert, Senior, Letters and Science, Marysville
Joe Nakamura, Junior (Applicant), Chemistry, Marysville
Lloyd Colby Street, Junior (Applicant), Letters and Science, Marysville
†Yutaka Toyoda, Junior (Applicant), Dentistry, Marysville
Johnny Yee, Junior (Applicant), Letters and Science, Marysville

CHARLES HUNT KILPATRICK MEMORIAL SCHOLARSHIP

ESTABLISHED BY MR. AND MRS. W. S. KILPATRICK OF SAN MARINO, CALIFORNIA,
IN MEMORY OF THEIR SON

Arnold Eddie Larson, Freshman (Applicant), Engineering, Los Angeles

JAMES M. KOFORD SCHOLARSHIPS

ESTABLISHED BY THE WILL OF JAMES M. KOFORD

Milton Charles Adams, Freshman (Applicant), Engineering, Biggs

KOREAN LANGUAGE AND CULTURE SCHOLARSHIP

DONATED FOR THE STUDY OF THE KOREAN LANGUAGE AND CULTURE

Appointment deferred

EDWARD FRANK KRAFT SCHOLARSHIPS

ESTABLISHED BY THE WILL OF THE LATE EDWARD FRANK KRAFT FOR THE
BENEFIT OF RESIDENTS OF TEHAMA COUNTY

Louise Brooks, Junior, Letters and Science, Red Bluff
Gwen Harriet Hanson, Junior, Letters and Science, Red Bluff
Margaret Irene Varney, Junior, Chemistry, Red Bluff

HERBERT KRAFT SCHOLARSHIPS

FOUNDED BY THE WILL OF THE LATE GEORGE KRAFT IN HONOR OF HIS FATHER, FOR THE
BENEFIT OF RESIDENTS OF TEHAMA COUNTY

Kathleen Isabelle Bulkeley, Freshman (Applicant), Agriculture, Red Bluff
Audrey Ann Dale, Junior, Agriculture, Red Bluff
*Richard Lilburn Eggers, Sophomore, Agriculture, Flournoy
*Glen Preston Eidman, Senior, Agriculture, Corning
John Francis Gilmore, Jr., Freshman (Applicant), Agriculture, Red Bluff
Dolores Elizabeth Peter, Junior, Agriculture, Los Molinos
*Ralph Thomas Siemens, Junior (Applicant), Agriculture, Corning

LABELL SCHOLARSHIP

ESTABLISHED BY MISS ESTELLE LABELL IN MEMORY OF HYMAN AND
HATTIE LABELL AND GENEVIEVE AND LILLIAN LABELL

Nancy Ruth Hurd, Sophomore, Letters and Science, Berkeley

**LADIES' AUXILIARY OF THE STATE PHARMACEUTICAL ASSOCIATION
SCHOLARSHIP**

GIVEN BY THE LADIES' AUXILIARY OF THE STATE PHARMACEUTICAL ASSOCIATION

Appointment deferred

† San Francisco or Berkeley.

* At Davis.

LANAGAN MEMORIAL SCHOLARSHIP

ESTABLISHED BY FRIENDS OF THE LATE JAMES F. LANAGAN

Edward Allen Aitken, Junior, Chemistry, Ontario

JOSEPH LeCONTE SCHOLARSHIP

**ESTABLISHED BY THE JOSEPH LeCONTE CHAPTER OF THE UNITED DAUGHTERS
OF THE CONFEDERACY**

Appointment deferred

ELSIE LESLIE SCHOLARSHIP FOR WIDOWS' SONS

ESTABLISHED BY THE WILL OF GEORGE DARRY LESLIE

Paul Edward Baender, Senior, Letters and Science, Alameda

James Herbert Foote, Freshman (Applicant), Letters and Science, Santa Paula

Malcolm Ralph Hersko, Senior, Letters and Science, San Francisco

EDWARD A. LESSER UNIVERSITY OF CALIFORNIA SCHOLARSHIP

GIVEN BY EDWARD A. LESSER

Daniel Harris Goodman, Senior, Engineering, Berkeley

LIBERTY SCHOLARSHIPS

**PROVIDED BY MEMBERS OF THE FACULTY, STUDENTS, ALUMNI AND FRIENDS
OF THE UNIVERSITY**

JACK M. EMERY LIBERTY SCHOLARSHIP

Established in Memory of Ensign Jack Mandeville Emery of the Class of 1939, Killed
in Action December 7, 1941 at Pearl Harbor

Larry Ward Quate, Senior, Agriculture, Richmond

ROBERT TAYLOR HANSON LIBERTY SCHOLARSHIPS

Established by Lieutenant Colonel Grant Mahoney of the Class of 1939, Himself Killed
in Action in World War II, and Others in Memory of Lieutenant Robert Taylor
Hanson of the Class of 1938, Killed in Aerial Combat in the Philippine Islands
on December 13, 1941

Stanley Morris Jencks, Junior, Letters and Science, Burney

John Edward Nyberg, Junior, Architecture, Pasadena

DONALD SAGE MACKAY, JR. LIBERTY SCHOLARSHIP

Established in Memory of Lieutenant Donald S. Mackay, Jr., Army Air Corps, X-'42,
Killed in Action in Java in March 1942

Robert Abramson, Junior, Letters and Science, San Francisco

WILLIAM KEITH McLARTY LIBERTY SCHOLARSHIP

Established in Memory of William Keith McLarty, X-'43, Killed on Duty in Egypt with
the California Volunteer Ambulance Corps in July 1942

Gerald Bassett Porter, Junior, Chemistry, El Segundo

CORNELIUS DION O'SULLIVAN LIBERTY SCHOLARSHIP

Established in Memory of Lieutenant Cornelius Dion O'Sullivan, USN, X-'40, Reported
Lost with the Submarine Triton in 1943

Harry Robert Hahn, Senior, Letters and Science, Berkeley

DAVID DOAK RICE LIBERTY SCHOLARSHIP

Established in Memory of Captain David Doak Rice, USA, of the Class of 1941, Killed
at Leyte on October 12, 1944

Daniel Taylor Seamount, Junior, Agriculture, Fort Bragg

JAMES W. ROUTH, JR. LIBERTY SCHOLARSHIP

Established in Memory of Lieutenant James W. Routh, Jr., USA, of the Class of 1941,
Killed in Action April 9, 1942 at Corregidor

Robert McAlpine Worth, Junior, Letters and Science, Berkeley

GAIL SHADINGER LIBERTY SCHOLARSHIP

Established in Memory of Lieutenant (jg) Gail Shadinger of the Class of 1938, Killed
in Action when the USS Jacob Jones Was Torpedoed on February 28, 1942 off
Cape May, New Jersey.

Kenneth Lloyd Kolb, Junior, Letters and Science, Portland, Oregon

JOHN FRANCIS SULLIVAN LIBERTY SCHOLARSHIP

Established for Students in Jurisprudence in Memory of Captain John Francis Sullivan,
AAF, of the Class of 1938, Who Lost His Life in a Plane Accident in July 1943

Appointment deferred

NED A. THOMAS LIBERTY SCHOLARSHIP

Established in Memory of Ensign Edward A. Thomas of the Class of 1939, Reported Lost
at Sea While Flying for the Navy Air Corps on Atlantic Convoy Duty in December
1941

Gordon Crosfield George, Junior, Engineering, Los Angeles

THEODORE P. WITTSCHEN, JR. LIBERTY SCHOLARSHIP

Established in Memory of Ensign Theodore Peter Wittschen, Jr., of the Class of 1941,
Killed in Action in the South Pacific in December 1942

Robert Lewis Tromp, Junior, Chemistry, Berkeley

WALTER LOEWY SCHOLARSHIPS

ESTABLISHED BY THE WILL OF WALTER LOEWY

Ruth Clem Aufhauser, Junior, Letters and Science, San Francisco

LOUGHRIDGE SCHOLARSHIP

ESTABLISHED BY THE WILL OF THE LATE PROFESSOR R. H. LOUGHRIDGE

Not offered 1948-1949

CARL D. LOVOTTI SCHOLARSHIP IN THE COLLEGE OF PHARMACY

GIVEN BY CARL D. LOVOTTI

Appointment deferred

LOWELL HIGH SCHOOL ALUMNI ASSOCIATION SCHOLARSHIP

ESTABLISHED BY THE ALUMNI ASSOCIATION OF LOWELL HIGH SCHOOL OF SAN
FRANCISCO FOR THE BENEFIT OF A GRADUATE OF LOWELL HIGH SCHOOL

Norma Marie Blair, Junior, Letters and Science, San Francisco
George Stevens, Junior, Letters and Science, San Francisco

FRED L. LOWENGART SCHOLARSHIP

ESTABLISHED BY THE WILL OF FRED L. LOWENGART

Virginia Carole Breyer, Junior, Letters and Science, Burlingame

EDMUND LYNCH SCHOLARSHIPS

ESTABLISHED BY THE WILL OF EDMUND LYNCH FOR THE BENEFIT OF RESIDENTS OF
FRESNO COUNTY

Evelyn Mae Goodnight, Freshman (Applicant), Letters and Science, Laton

ELEANOR LYONS SCHOLARSHIP

**GIVEN BY MISS ELEANOR LYONS FOR THE BENEFIT OF THE CHILDREN OF
SERVICEMEN WHO DIED IN WORLD WAR II**

Henry Alexander Leighton, Sophomore, Letters and Science, Pacific Grove

JAMES MONROE McDONALD SCHOLARSHIPS

**ESTABLISHED BY THE LATE MRS. MARY J. L. McDONALD OF SAN FRANCISCO
IN MEMORY OF HER HUSBAND**

- Perry Edward Byerly, Senior, Letters and Science, Berkeley
* Charles E. Cornelius, Senior, Agriculture, Altadena
Malcolm R. Currie, Senior, Letters and Science, Albany
Will Carleton Griffin, Senior, Engineering, San Gabriel
Russell Lindsay Hodgson, Senior, Chemistry, Ventura
* Alexander N. Jack, Senior, Agriculture, Brawley
Merrill Arthur Muha, Senior, Chemistry, San Francisco
Martin George Redlich, Senior, Letters and Science, Berkeley
* Kay Ryugo, Senior, Agriculture, Davis
Additional appointments deferred

THE GENEVIEVE McENERNEY SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE REGENT GARRET W. McENERNEY

- Carolyn Aenene Jacobson, Junior, Letters and Science, Redding
Rosa Frieda Rottger, Junior, Letters and Science, Oakland
Betty Lou Sanders, Junior, Letters and Science, San Bernardino

WILLIAM J. MCGEE SCHOLARSHIP

ESTABLISHED FOR THE BENEFIT OF A RESIDENT OF AMADOR COUNTY

Appointment deferred

MAY J. McLEAN SCHOLARSHIPS

**CREATED FROM FUNDS BEQUEATHED TO THE UNIVERSITY UNDER THE WILL
OF MAY J. McLEAN OF SAN FRANCISCO**

- Gloria Minella DeMartini, Senior, Letters and Science, San Francisco
George Baxter Humphreys, Junior, Engineering, Martinez

ALICE M. MARRIOTT SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF ALICE M. MARRIOTT

Not offered 1948-1949

ELLEN ELLSWORTH MARTIN DORMITORY SCHOLARSHIP

ESTABLISHED BY THE WOMEN'S DORMITORY ASSOCIATION MOTHERS' CLUB

- Jean Elizabeth FitzSimmons, Junior, Letters and Science, Stockton

MARIETTA C. MASTICK SCHOLARSHIPS

ESTABLISHED BY THE BEQUEST OF MARIETTA C. MASTICK

- Raymond Keith Bartholomew, Sophomore, Letters and Science, Long Beach
Glenn Meredith Loney, Junior, Letters and Science, Grass Valley
Leo Anthony Wagner, Senior, Letters and Science, Berkeley

STEPHEN TYNG MATHER SCHOLARSHIP

ESTABLISHED BY THE WILL OF STEPHEN TYNG MATHER OF THE CLASS OF 1887

- Henry Marquis Kline, Jr., Freshman (Applicant), Letters and Science, Ceres

* At Davis.

*Undergraduate Scholarships***DR. S. T. MICHAEL SCHOLARSHIP FOR VETERINARY STUDENT****ESTABLISHED BY MR. AND MRS. BERTHOLD GUGGENHIME**

Appointment deferred

PAULINE FORE MOFFITT SCHOLARSHIP**ESTABLISHED IN MEMORY OF PAULINE FORE MOFFITT FOR THE BENEFIT OF GRADUATES OF ST. HELENA HIGH SCHOOL**

Elizabeth Foster Cole, Freshman (Applicant), Letters and Science, St. Helena

MONTEAGLE SCHOLARSHIPS**FOUNDED BY THE WILL OF MRS. LYDIA PAIGE MONTEAGLE**

Richard Dale Oehler, Junior, Letters and Science, Richmond

William John Thompson, Senior, Engineering, Berkeley

Patrick Garland Wilson, Senior, Letters and Science, Berkeley

WILLIAM O. MORGAN SCHOLARSHIP**ESTABLISHED BY MRS. APPHIA VANCE MORGAN IN HONOR OF HER HUSBAND**

Irl R Robinson, Jr., Senior, Business Administration, Berkeley

MAY T. MORRISON SCHOLARSHIPS**ESTABLISHED BY THE WILL OF THE LATE MAY T. MORRISON**

Carolyn Lee Berbower, Junior, Letters and Science, Long Beach

Kathryn Irene Shaeffer, Junior, Letters and Science, Berkeley

MORTAR BOARD SCHOLARSHIP**GIVEN BY THE MORTAR BOARD SOCIETY**

Not offered 1948-1949

BERNARD NATHAN SCHOLARSHIPS**FOUNDED BY THE WILL OF BERNARD NATHAN**

Charlotte Lorraine Green, Junior, Letters and Science, San Francisco

Albert Levy, Junior, Letters and Science, Los Angeles

RICHARD M. NEUSTADT SCHOLARSHIPS**GIVEN AS A MEMORIAL BY FRIENDS OF THE LATE RICHARD M. NEUSTADT**

Charles Donald Noonan, Junior, Letters and Science, San Francisco

Shirley Elaine Stewart, Senior, Letters and Science, Van Nuys

NON-RESIDENT SCHOLARSHIPS**FOUNDED BY THE REGENTS OF THE UNIVERSITY FROM INCOME OF THE UNIVERSITY**

¶ Ingrid Gunvor Bergstrom, Senior, Letters and Science, Sweden

Joan Cahail Bishop, Junior, Letters and Science, Richmond

Mary Agnes Blomgren, Senior, Letters and Science, Baltimore, Maryland

Nathan Buras, Junior, Agriculture, Tel-Aviv, Palestine

Diamantis Fautios Diamantopoulos, Senior, Business Administration, San Francisco

Marion Joyce Hutchings, Senior, Letters and Science, Las Vegas, New Mexico

Hunter McGuire Jones, Jr., Freshman (Applicant), Letters and Science, Charlotte, North Carolina

Ruth Mary Kunkel, Senior, Letters and Science, Los Angeles

Chen Ying Lee, Sophomore, Chemistry, Hong Kong, China

Geoffrey William Henry Leytham, Senior, Letters and Science, Southport, England

Ester Ossia, Junior, Letters and Science, Palestine

¶ One semester only, candidate for graduation January, 1949.

Billie Vernon Pangle, Senior, Business Administration, El Centro
Raymond William Rakow, Junior, Letters and Science, New York
Bahidj B Sabouni, Senior, Engineering, Aleppo, Syria
Margaret Louise Strassel, Senior, Letters and Science, Oakland
Virginia Elizabeth Vandegrift, Senior (Applicant), Letters and Science, Stillwater,
Oklahoma

NORWEGIAN STUDENTS SCHOLARSHIPS

**FOUNDED BY THE REGENTS OF THE UNIVERSITY FROM INCOME
OF THE UNIVERSITY**

Knut Kristian Dable, Senior, Architecture, Oslo, Norway
Finn Olav Enger, Senior, Chemistry, Bergen, Norway
Paul Juul-Olsen, Senior, Engineering, Tonsberg, Norway
Sigurd Johan Rosenlund, Senior, Chemistry, Bergen, Norway

LAVERNE NOYES SCHOLARSHIPS

ESTABLISHED BY THE WILL OF LAVERNE NOYES

Phillip Anthony Adams, Sophomore, Agriculture, Los Angeles
Andrew Frederick Aubin, Junior, Chemistry, Sonoma
Frank William Bachelor, Sophomore, Chemistry, Oakland
Robert Sherman Barker, Junior, Engineering, Bakersfield
Jean Ellen Becket, Senior, Letters and Science, Woodland
Wanda Lynn Behrens, Junior, Letters and Science, Stockton
Louis Hemenway Bell, Jr., Sophomore, Letters and Science, Santa Barbara
Mary Elizabeth Blair, Sophomore, Letters and Science, Imola
Norma Marie Blair, Junior, Letters and Science, San Francisco
Marion Agnes Buller, Sophomore, Letters and Science, Kentfield
Mark Monroe Bunge, Senior, Letters and Science, Tule Lake
Lois Mardelle Bunger, Junior, Letters and Science, Pomona
Barbara Jean Campbell, Junior, Letters and Science, Berkeley
David Dill Cudaback, Senior, Letters and Science, Napa
Renee Theresa De Pauli, Sophomore, Letters and Science, Grass Valley
Mary Elizabeth Dyer, Junior, Letters and Science, Richmond
Jean Elizabeth FitzSimmons, Junior, Letters and Science, Stockton
Edward Morris Ford, Jr., Junior, Letters and Science, Pasadena
Jane Freeman, Junior, Business Administration, San Francisco
Shirley Elizabeth Gaebler, Senior, Letters and Science, Berkeley
Betty Mary Graham, Junior, Letters and Science, San Francisco
Charlotte Lorraine Green, Junior, Letters and Science, San Francisco
Patricia Agnes Greene, Junior, Letters and Science, San Francisco
† Rosemary Nora Hallum, Senior, Letters and Science, Oakland
Edward Abram Hart, Jr., Sophomore, Letters and Science, Oakland
Charles Thomas Hathaway, Junior, Chemistry, Piedmont
Mary Jane Reid Kendall, Sophomore, Letters and Science, Richmond
† Kathryn Margaret Kennon, Senior, Letters and Science, Oakland
Henry Alexander Leighton, Sophomore, Letters and Science, Pacific Grove
Nancy Jean Lein, Junior, Letters and Science, Los Angeles
† Elsie Lothras, Senior, Letters and Science, Pasadena
William McBlair, Graduate, Zoölogy, San Diego
Douglas Yaney MacIver, Sophomore, Chemistry, Bishop
John Thomas March, Junior, Chemistry, Yuba City
James Samuel Marinos, Sophomore, Letters and Science, San Diego
Martin Keith Marsh, Sophomore, Letters and Science, Nevada City
Richard Herbert Morris, Junior, Letters and Science, Oakland
John Edwin Nettell, Senior, Letters and Science, Grass Valley
Charles Donald Noonan, Junior, Letters and Science, San Francisco
* Elmer Irwin Pfaffenberger, Sophomore, Agriculture, Antioch

† One semester only, candidate for graduation January, 1949.

* At Davis.

Undergraduate Scholarships

Walter Eugene Pease, Sophomore, Agriculture, Berkeley
 Diana Pregerson, Graduate, Jurisprudence, Los Angeles
 † Elizabeth Buttler Reed, Senior, Letters and Science, San Francisco
 Jacqueline Jean Riley, Sophomore, Letters and Science, Long Beach
 Norman Carl Rose, Junior, Chemistry, Hayward
 Betty Lou Sanders, Junior, Letters and Science, San Bernardino
 Gloria Jean Schultz, Junior, Letters and Science, Oakland
 Calvin Horne Simons, Senior, Letters and Science, Pittsburg
 Shirley Mae Smith, Senior, Letters and Science, Vallejo
 Richard Kalin Snow, Sophomore, Letters and Science, Santa Ana
 Thomas Brevard Steel, Jr., Junior, Letters and Science, Berkeley
 Henry Herbert Steinmetz, Jr., Sophomore, Letters and Science, Danville
 Nellie May Sten, Senior, Letters and Science, Reseda
 Phyllis Dorothy Stickland, Senior, Letters and Science, Berkeley
 Mark Carlton Stiver, Jr., Junior, Letters and Science, Los Altos
 H Randall Stoke, Junior, Letters and Science, Riverside
 Dan Test, Sophomore, Letters and Science, Dos Palos
 Dale Stewart Walker, Junior, Letters and Science, Altadena
 Peggy Glenn Warner, Senior, Agriculture, Davis
 Carol Virginia Wood, Senior, Letters and Science, Los Gatos
 Jeanne Gayle Zander, Junior, Chemistry, San Leandro
 Additional appointments deferred

**IVY DOUGLAS OSTROM SCHOLARSHIP OF THE CALIFORNIA DIVISION,
 UNITED DAUGHTERS OF THE CONFEDERACY**

ESTABLISHED BY THE CALIFORNIA DIVISION, UNITED DAUGHTERS OF THE CONFEDERACY

Appointment deferred

PROFESSOR F. V. PAGET SCHOLARSHIP IN FRENCH

FOUNDED UNDER THE WILL OF THE LATE MADAME EMMANUEL MARIE PAGET

Not offered 1948-1949

PANHELLENIC SCHOLARSHIPS

ESTABLISHED BY THE PANHELLENIC ALUMNAE ASSOCIATION OF THE
 SAN FRANCISCO BAY DISTRICT

Not offered 1948-1949

PHARMACEUTICAL AND PHYSICAL CHEMISTRY SCHOLARSHIP

MAINTAINED BY MR. KENNETH B. BOWERMAN

Appointment deferred

PHARMACY SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO RETAIL DRUGGISTS ASSOCIATION
 AND THE ALAMEDA PHARMACEUTICAL ASSOCIATION

Appointment deferred

PHI BETA KAPPA SCHOLARSHIPS

ESTABLISHED BY ALPHA CHAPTER OF PHI BETA KAPPA

Jessie Antoinette Berman, Junior, Letters and Science, Sacramento
 James Rowland Lucas, Senior, Letters and Science, Berkeley
 Phyllis Dorothy Stickland, Senior, Letters and Science, Berkeley

EDNA L. PIERCE SCHOLARSHIP

GIVEN BY FRIENDS AND FORMER STUDENTS OF EDNA LEONA PIERCE, CLASS OF 1926,
 AND BY THE TOWNSPEOPLE OF ANTIOCH, CALIFORNIA

William Charles Stiles, Freshman (Applicant), Engineering, Antioch

† One semester only, candidate for graduation January, 1949.

MARY PILLOT SCHOLARSHIPS

**FOUNDED BY THE SCHOLARSHIP COMMITTEE OF THE SAN JOSE HIGH SCHOOL
FOR GRADUATES OF THAT SCHOOL**

Bethene Louise Patton, Freshman (Applicant), Letters and Science, San Jose

POLYTECHNIC HIGH SCHOOL SCHOLARSHIP

**ESTABLISHED BY THE STUDENTS OF POLYTECHNIC HIGH SCHOOL OF SAN FRANCISCO,
FOR THE BENEFIT OF GRADUATES OF THAT SCHOOL.**

Fred Isackson, Freshman (Applicant), Engineering, San Francisco

PRYTANEAN SCHOLARSHIP

**GIVEN BY THE PRYTANEAN SOCIETY OF THE UNIVERSITY OF CALIFORNIA
Nadine Lucile Williams, Junior, Letters and Science, Los Banos**

IRENE PURINGTON SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MRS. HENRIETTA ELIZABETH PURINGTON

**Jacqueline Marie Drian, Sophomore, Letters and Science, Oakland
Grace Mary Hubbard, Junior, Letters and Science, Richmond
Joan McNeilly, Sophomore, Letters and Science, Whittier
Amy Brownley Nicolson, Junior, Letters and Science, Berkeley
Iris Yvonne Parnell, Sophomore, Letters and Science, Millbrae
Willie Beckham Rose, Junior, Letters and Science, Richmond
Betty Jeanne Stewart, Sophomore, Letters and Science, Merced
Ingrid LaVaughn Surges, Sophomore, Letters and Science, Martinez
Jeanne Madeleine Treyer, Senior, Letters and Science, San Mateo
Fudeko Tsuji, Sophomore, Letters and Science, Sanger
Betty Ann Yater, Sophomore, Letters and Science, Farmington**

FRIEND W. RICHARDSON SCHOLARSHIP

**ESTABLISHED BY THE CALIFORNIA PRESS ASSOCIATION FOR STUDENTS IN THE
FIELD OF JOURNALISM**

David Barclay Kirby, Senior, Letters and Science, San Anselmo

SAN FRANCISCO GIRLS' UNION SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO GIRLS' UNION

Not offered 1948-1949.

SANTA PAULA HIGH SCHOOL SCHOLARSHIP

ESTABLISHED BY ALBERT J. THILLE

Cecil Harold Agee, Junior, Letters and Science, Santa Paula

D. A. SARGENT & COMPANY SCHOLARSHIP

PROVIDED BY D. A. AND GLADYS W. SARGENT

**Fay Herron Blair, Senior, Business Administration, Richmond
†Robert Arthur Cowden, Senior, Business Administration, Berkeley**

WERNER R. SCOTT SCHOLARSHIP

ESTABLISHED FROM THE ESTATE OF WERNER R. SCOTT

Appointment deferred

† One semester only, candidate for graduation January, 1949.

*Undergraduate Scholarships***HENRY W. SEALE SCHOLARSHIP**

ESTABLISHED BY THE WILL OF JESSIE D. CARR SEALE

Dale Gross, Junior, Chemistry, Richmond
 *Elmer Irwin Pfaffenberger, Sophomore, Agriculture, Antioch
 Charles Thomas Hathaway, Junior, Chemistry, Piedmont

PETER J. SHIELDS SCHOLARSHIP

ESTABLISHED FOR THE BENEFIT OF STUDENTS IN AGRICULTURE AT DAVIS

BY THE LATE REGENT GARRET W. MCENERNEY

*Elmer Bostwick Harvey, Senior, Agriculture, Stockton
 *Ralph Leo Hosker, Junior, Agriculture, Altamont

JOE SHOONG SCHOLARSHIPS

ESTABLISHED BY MR. JOE SHOONG OF SAN FRANCISCO

Clarence K. Chan, Freshman, Engineering, San Francisco
 Henry Cheung, Junior (Applicant), Chemistry, Walnut Grove
 Dorothy June Chin, Junior, Letters and Science, San Francisco
 Lawrence Fore, Freshman (Applicant), Letters and Science, Grass Valley
 James Jiu, Freshman, Letters and Science, Oakland
 Richard Jiu, Junior, Engineering, Oakland
 Shirley Joe, Freshman (Applicant), Letters and Science, San Francisco
 Florence Ngum Jue, Freshman (Applicant), Letters and Science, San Francisco
 Vivian S. Lee, Junior, Letters and Science, San Francisco
 Jane Leong, Freshman (Applicant), Letters and Science, San Francisco
 Dan Wing Lew, Freshman, Engineering, San Francisco
 Edna Low, Freshman (Applicant), Letters and Science, San Francisco
 Ruth Low, Junior, Agriculture, San Francisco
 Fred Wong, Junior, Letters and Science, Alameda
 Mabel Wong, Sophomore, Letters and Science, Oakland

THE JOSEPH SLOSS SCHOLARSHIPS

GIVEN BY MRS. JOSEPH SLOSS OF PALO ALTO, CALIFORNIA

Henry Durward Rodeen, Junior, Chemistry, Berkeley

ANDREW LATHAM SMITH MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF ANDREW LATHAM SMITH

Robert Anthony Dal Porto, Senior, Engineering, Oakley

NORMAN E. SMITH 1900 SCIENCE SCHOLARSHIPS

ESTABLISHED BY MRS. ELIZABETH BURNELL SMITH IN MEMORY OF HER HUSBAND

Robert Ehreke Spenger, Senior, Letters and Science, Berkeley

SNELL SEMINARY ALUMNAE ASSOCIATION SCHOLARSHIP

ESTABLISHED BY THE SNELL SEMINARY ALUMNAE ASSOCIATION

Patricia Ruth Workman, Senior, Letters and Science, Oakland

SPECIAL LOWELL HIGH SCHOOL SCHOLARSHIPGIVEN BY AN ANONYMOUS FORMER SCHOLARSHIP HOLDER, A
GRADUATE OF LOWELL HIGH SCHOOL

Patricia Lillian Walker, Freshman (Applicant), Letters and Science, San Francisco

HORATIO STEBBINS SCHOLARSHIPS

FOUNDED IN MEMORY OF THE LATE REGENT HORATIO STEBBINS

Barbara Wilson Child, Senior, Letters and Science, Sacramento

* At Davis.

WILLIAM BENSON STOREY SCHOLARSHIPS

**ESTABLISHED BY THE WILL OF THE LATE WILLIAM BENSON STOREY OF
CHICAGO, ILLINOIS**

Jayne Elizabeth Feeley, Freshman (Applicant), Agriculture, Richmond
Margaret Marie Riker, Freshman (Applicant), Letters and Science, Carmel

LEVI STRAUSS SCHOLARSHIPS

**FOUNDED BY MR. LEVI STRAUSS AND CONTINUED SINCE THE DEATH OF MR. STRAUSS
BY THE LEVI STRAUSS COMPANY**

Patricia Ann Adams, Senior, Letters and Science, Stockton
Walter Watson Alberts, Sophomore, Letters and Science, Santa Cruz
Carl Feldman, Junior, Chemistry, Palo Alto
Francis Charles Gilbert, Junior, Engineering, Richmond
Ruth Helen Haller, Sophomore, Letters and Science, San Francisco
Ronald Mancil Murren, Junior (Applicant), Letters and Science, South Pasadena
Lucille Marie Paris, Junior, Letters and Science, Claremont
Geraldine Puerta, Senior, Letters and Science, Berkeley
* Brunetta Fay Reid, Freshman (Applicant), Letters and Science, Hollywood
William John Samarin, Sophomore, Letters and Science, Los Angeles
Nancy Amanda Watkins, Sophomore, Letters and Science, McCloud

TAFT JUNIOR COLLEGE SCHOLARSHIP

SPONSORED BY THE WEST SIDE ALUMNI OF THE UNIVERSITY OF CALIFORNIA

Appointment deferred

ARTHUR GOULD TASHEIRA SCHOLARSHIPS

ESTABLISHED BY HELEN G. TASHEIRA

Robert Bonner Andrews, Junior, Engineering, Santa Ana
Robert Sherman Barker, Junior, Engineering, Bakersfield
Henry Arno Schneider, Junior, Engineering, Burlingame

LEWIS TASHEIRA SCHOLARSHIP

FOUNDED BY THE LATE ARTHUR G. TASHEIRA IN MEMORY OF HIS FATHER

Not offered 1948-1949

GERTRUDE O. AND HARRY W. THOMAS SCHOLARSHIP

**ESTABLISHED BY THE WILL OF GERTRUDE O. THOMAS IN MEMORY OF
GERTRUDE O. AND HARRY W. THOMAS**

Not offered 1948-1949

TORCH AND SHIELD SCHOLARSHIP

GIVEN BY THE TORCH AND SHIELD SOCIETY

Not offered 1948-1949

TWENTIETH CENTURY CLUB SCHOLARSHIP

ESTABLISHED BY A GIFT FROM THE TWENTIETH CENTURY CLUB OF BERKELEY

Not offered 1948-1949

**UNIVERSITY OF CALIFORNIA ALUMNI ASSOCIATION, PHARMACY
CHAPTER, SCHOLARSHIP**

**GIVEN BY THE PHARMACY CHAPTER OF THE UNIVERSITY OF CALIFORNIA
ALUMNI ASSOCIATION**

Appointment deferred

* For spring semester of 1949 only.

*Undergraduate Scholarships***W. W. VAN ARSDALE MEMORIAL SCHOLARSHIPS**

ESTABLISHED BY THE GIFT OF NELLIE C. AND M. A. HARRIS, IN MEMORY OF
W. W. VAN ARSDALE, CLASS OF 1874

¶ James Schnack Bigelow, Senior, Engineering, Riverside
Harry Milford Brown, Jr., Junior, Engineering, San Francisco
Donald Arthur Lammers, Junior, Engineering, Chico
¶ Jack Washburn, Senior, Engineering, Berkeley
Kenneth Vernon Zerda, Sophomore, Engineering, San Francisco

SUSIE VOORHIES MEMORIAL SCHOLARSHIP

ESTABLISHED BY PROFESSOR E. C. VOORHIES IN MEMORY OF HIS MOTHER
Appointment deferred

"VOX POP" SCHOLARSHIP

GIVEN BY THE THE AMERICAN EXPRESS COMPANY AT THE "VOX POP" RADIO
BROADCAST IN BERKELEY ON NOVEMBER 12, 1947
Calvin Edward Mehlert, Sophomore, Engineering, Fresno

AARON N. WACHS AND ANNIE N. WACHS SCHOLARSHIP

ESTABLISHED BY THE WACHS REALTY COMPANY OF OAKLAND FOR THE BENEFIT
OF RESIDENTS OF ALAMEDA COUNTY
Appointments deferred

DR. B. P. WALL MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF DR. BENJAMIN P. WALL
Not offered 1948-1949

ISIDOR WEINSTEIN MEMORIAL SCHOLARSHIPS

ESTABLISHED IN HONOR OF THE LATE ISIDOR WEINSTEIN
Marvin Howard Lewis, Sophomore, Letters and Science, San Francisco

ALLAN D. WILSON MEMORIAL SCHOLARSHIPS

ESTABLISHED BY A BEQUEST OF AMELIA E. S. WILSON IN MEMORY OF HER HUSBAND
Harry Clark Higgins, Senior, Engineering, Santa Monica
Kenneth Lewis Rubardt, Senior, Engineering, Altadena

JEAN C. WITTER, JR. LIBERTY SCHOLARSHIPS

ESTABLISHED BY THE PARENTS, RELATIVES AND FRIENDS OF JEAN C. WITTER, JR.,
KILLED IN ACTION ON THE U.S.S. SAN FRANCISCO, NOVEMBER 13, 1942
Robert Walter Barry, Freshman (Applicant), Engineering, Carmel
Charles Peter Cords, Senior, Engineering, Oakland
William Frazer McColl, Jr., Freshman (Applicant), Letters and Science, San Diego
Victor Carl Peterson, Freshman (Applicant), Letters and Science, South Pasadena

LEOPOLD EDWARD WRASSE SCHOLARSHIPS

ESTABLISHED BY MR. LEOPOLD EDWARD WRASSE

* James Beckham Bosley, Junior, Agriculture, Davis
* Charles Isaac Butts, Senior, Agriculture, Davis
* William Cary Smart, Junior, Agriculture, Brookdale
¶ * Gerald Gordon Williams, Senior, Agriculture, Davis
Additional appointments deferred

* At Davis.

¶ One semester only, candidate for graduation January, 1949.

UNIVERSITY OF CALIFORNIA
LOS ANGELES

THE TWENTY-NINTH
COMMENCEMENT
EXERCISES



JUNE 20, 1948

THE OPEN AIR THEATER
LOS ANGELES

PROGRAM



PROCESSIONAL

The Triumphal March from Aida *Verdi*

THE NATIONAL ANTHEM—The Star-Spangled Banner

INVOCATION

THE REVEREND JOHN M. KRUMM
Dean and Rector, St. Paul's Cathedral

SENIOR ADDRESSES

MARIAN MARIE MOSER
JOHN DANIEL EHRLICHMAN

NAVAL CANDIDATE OBSERVANCE

CAPTAIN GEORGE G. CRISSMAN, U.S.N.

THE UNIVERSITY A CAPPELLA CHOIR

Summer Evening (Old Finnish Folk Song) *Palmgren*
GLORIA YABERG, *Contralto*

Light Celestial *Tchaikovsky*

ADDRESS TO THE CLASS

CLARENCE ADDISON DYKSTRA
Provost of the University

ORCHESTRAL SELECTION

Melody *Roy Harris*

UNIVERSITY SYMPHONY ORCHESTRA
JOHN VINCENT, *Director, Conducting*

CONFERRING OF UNDERGRADUATE DEGREES

CONFERRING OF GRADUATE AND HONORARY DEGREES

RESPONSE

GENERAL OMAR N. BRADLEY

HAIL, BLUE AND GOLD!

BENEDICTION

RECESSIONAL

The Audience is requested to remain seated at the end of the Exercises until the Faculty has left the Theater

UNIVERSITY OF CALIFORNIA
LOS ANGELES, 1947-1948

CERTIFICATES, DEGREES,
AND HONORS

In this list the superior figure ¹ denotes awards of August 2, 1947; ² denotes awards of September 13, 1947; ³ denotes awards of February 5, 1948; all other awards were made June 17, 1948.

CERTIFICATES AWARDED
CURRICULUM IN PUBLIC HEALTH NURSING

Certificate of Completion to

Jane Ellen Ables	Anaheim
² Anna Marie Dahlem Allard	Culver City
² Janice Eulayla Brooks	Los Angeles
¹ Esther Byberg	La Canada
Fay Cohen	Los Angeles
¹ Carolyn Frances Collins	Pomona
Florence Eileen Blickenstaff Cowden	Pasadena
² Elestia Ethelyne Cox	Los Angeles
Nellie Marie Delp	Pasadena
² Dorothy Iris Dodd	Detroit, Michigan
Dorothy Adelia Douglas	Pasadena
² Lucille Lavina Downs	Montour, Iowa
² Myrna Spahr Drovis	North Hollywood
Helen Lindsay Elrod	Los Angeles
² Elizabeth Mae Farrier	Los Angeles
Bertha Agnes Hegele	Los Angeles
² Hollis May Hunter	Venice
Bernice Ruth Inman	North Sacramento
Vera Johnson	San Bernardino
² Margaret Anna Kaiser	Los Angeles
² Marion Dorothy Kashner	Mt. Vernon, New York
Doris Alleene Kiger	Phoenix, Arizona
Kathryn Elizabeth Kurts	Springfield, Ohio
Sylvia Lessin	Los Angeles
² Naomi Ruth Lindley	Los Angeles
² Edith Josephine Lloyd	Norwalk
Marilyn Jean McGonigal	Youngstown, Ohio
Sara Louise Manaugh	Pacific Palisades
Inez Anarkali Mann	La Habra
Margaret Neva Mazman	Fresno
Stella Dorothea Metzger	Los Angeles
² Vivian Eleanor Pacini	Los Angeles
Marie Paik	Glendale
² Margaret Janet Petersen	San Diego
¹ Florence Jennie Peterson	San Bernardino
² Kathleen Thomas Post	Bell
² Dorothy Powell	Los Angeles
² Eileen Patterson Pullen	Garvey
Olive Pearl Ramsey	Los Angeles

³ Irene Flecknoe Ross	Los Angeles
Mary Catherine Sacksteder	Cincinnati, Ohio
Ruth Marie Schwarzwalder	Los Angeles
Helen Frances Tamulinas	Whittier
Lorraine Delphia Thorson	Riverside
³ Julia Steinerman Tobin	Long Beach
Dorothy Lucille Toon	San Fernando
Pauline Emily Trapp	Pomona
Lydia Odessa Vance	Los Angeles
³ Grace Helen Waxel	Cicero, Illinois
³ Gail Thurber Williams	Van Nuys
Elinor Yellott Worthington	Los Angeles

DEGREES CONFERRED

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Arts upon

³ Viola Errickson Abercrombie	General	Boulder City, Nevada
² Jack Edward Acker	Economics	Los Angeles
Sibyl Adlen	General	Los Angeles
¹ Suzanne Regina Agay	General	Los Angeles
Herman Ainis	Psychology	Los Angeles
¹ Dolores Eleanor Aitken	General	Monterey Park
Joseph Edmund Akesson	English	Santa Monica
Carol Yule Aldrich	General	Los Angeles
¹ Arthur Alef	Zoölogy	Los Angeles
³ Idamae Elizabeth Alexander	General Elementary	Los Angeles
³ Ilene Bertha Alexander	French	Los Angeles
¹ Ashael Lester Allen	Meteorology	Los Angeles
³ Faye Gardner Allen	Sociology	Los Angeles
Mary Lucia Allison	History	Waynesville, North Carolina
² Bill Chester Ames	Physics	Long Beach
¹ Carol Sigrid Amundsen	Bacteriology	North Hollywood
³ Andrew William Anderson, Jr.	English	Los Angeles
³ Dorothy Vivien Anderson	Psychology	North Hollywood
³ Homer Scott Anderson	Psychology	San Gabriel
³ Kenneth Ralph Anderson	English	Los Angeles
³ Marjorie Adele Anderson	Sociology	Chisholm, Minnesota
Nellie Elaine Anderson	Psychology	Ogden, Iowa
² Roy Losey Anderson	Meteorology	Lander, Wyoming
William Anderson	Economics	Glendale
¹ William Darwin Anderson	Economics	Calexico
³ Marie Louise Andresen	Bacteriology	Vancouver, Washington
John Joseph Andrews, Jr.	History	Vallejo
Helen Anker	General	Beverly Hills
Hilda Charlotte Anker	International Relations	Van Nuys
Robert Daniel Anneberg, Jr.	Physics	Pasadena
³ Carlton Reaver Appleby	English	Ontario
Richard Angelo Ariano	Geography	Alhambra
³ Helen Nakako Arikawa	General	Los Angeles
³ Eva V Arnhein	Sociology	Beverly Hills
³ Bette Feuer Arntzen	General	Long Beach
Doris Elida Arosemena	International Relations	Los Angeles
³ Joseph Franklin Arthaud	Zoölogy	Los Angeles
William Arthur Arvola	Meteorology	Eureka
Rolland Sanford Asher	Psychology	Los Angeles
³ Suzanne Ayers	General	Beverly Hills
Marion Elizabeth Ayer	Mathematics	Sherman Oaks
¹ Rhoda Ann Ayres	Economics	Los Angeles

2	Marvin Ernest Backman	Physics	Los Angeles
2	Raymonde Caroline Helen Backus	Anthropology	Los Angeles
	William Wright Baird	Political Science	Los Angeles
2	Marion Ancel Baker	Philosophy	Beverly Hills
	William Bernard Baker	Psychology	Santa Monica
	Tamar Huguette Balassanian	English	Paris, France
	Nancy Blanche Balch	General	Los Angeles
	Burr Browning Baldwin	General	Bakersfield
	Audrey Ballard	English	Hurricane, Utah
	Harold Stanley Ballard	Zoölogy	Los Angeles
	Frank Klaus Bamberger	Political Science	Los Angeles
2	Elizabeth Josephine Banks	Sociology	Chula Vista
2	John Lawton Banks, Jr.	Geography	Los Angeles
	Raymond Eugene Banks	English	Los Angeles
	Lester Therman Bankston	Meteorology	Los Angeles
2	Richard Alyen Bardrick	Psychology	Los Angeles
2	Park Otto Barkan	Geography	San Francisco
1	Helen Thornton Barnard	General	Santa Monica
	Babette Brouard Barnes	Music	Los Angeles
	Marian Louise Barnes	General	Los Angeles
	Russell Allen Barnes	Psychology	Los Angeles
	Susan Louise Barr	Political Science	Los Angeles
2	Carol Elizabeth Barrett	Psychology	Los Angeles
	Hilton Bertrand Barry	Zoölogy	Los Angeles
	Margaret Lillian Barth	Psychology	Los Angeles
2	Arthur Emanuel Bart	Economics	Los Angeles
	Jeanne Fletcher Bartlett	General	Pasadena
	Stanley Louis Bauer	General	Santa Ana
2	Marilyn Leves Bauman	General	Los Angeles
	Martha Jeanne Bayer	Psychology	Fort Logan, Colorado
	Alan Robin Beals	Anthropology	Santa Monica
	William Harvey Beard	Greek	Compton
2	Donald Glenn Beck	Political Science	Riverside
	Sonya Zelda Beck	Bacteriology	Nantasket Beach, Massachusetts
2	Joseph Becker	Political Science	Los Angeles
2	Margaret Eileen Beggs	General	Los Angeles
2	Barbara Marrian Bell	History	Colton
	Joseph Louis Bellin	Economics	Los Angeles
	Nina Bello	General	Wilmar
	Ruth Rochelle Bender	General	Los Angeles
2	James Benjamin	General	Bakersfield
2	John McCoid Bennett	Political Science	Los Angeles
	George Foley Benson	Sociology	St. Louis, Missouri
	Clem Virgil Berberet	Mathematics	Long Beach
	Lee Henry Beresford	Political Science	Los Angeles
	Lynette Barbara Berg	Zoölogy	Los Angeles
2	Hilda Marjorie Berger	Bacteriology	Los Angeles
2	Gerard Delmar Bergh	General	Los Angeles
2	Nathan William Berinstein	English	Los Angeles
	Jack Harold Berkowitz	Political Science	Los Angeles
	Herman Berlin	Zoölogy	Los Angeles
2	Ann Lou Berman	Spanish	Los Angeles
	Raymond Edward Bernberg	Psychology	Chicago, Illinois
1	Eleanor Edna Berneger	Political Science	Los Angeles
2	Pauline Louise Berndt	History	Los Angeles
2	Morris Bernstein	Psychology	Los Angeles
2	Robert Stanley Bernstein	Economics	Los Angeles
2	Jean Esther Berry	Geography	Los Angeles
	Barbara Jean Beveridge	General	Los Angeles
1	Mary Jane Beyer	General	Los Angeles
2	Amesha Viola Beznar	Psychology	Los Angeles

	Cecil Bianchi	Psychology	Los Angeles
³	Harry Robert Biederman	Economics	Los Angeles
	David Alan Bies	Physics	Los Angeles
³	Flora May Bigelow	International Relations	Los Angeles
³	Alma Irene Bingham	English	Portland, Oregon
²	Leigh Forstner Birkeland	Physics	Los Angeles
³	Grace Elizabeth Blackmore	Sociology	Los Angeles
³	Albert Theodore Blanford	Political Science	Los Angeles
	Florence Blaustein	Political Science	Los Angeles
²	William James Blinn	Physics	Long Beach
¹	Barbara Elizabeth Bliss	Political Science	Denver, Colorado
	Robert David Bloch	Zoölogy	Los Angeles
	Joseph Robert Bloomfield	Zoölogy	Los Angeles
³	Florence Havard Blozan	Sociology	Pasadena
²	Alfred Francis Blume	General	Los Angeles
³	Ida Bodin	Spanish	Los Angeles
	Barbara Jean Bodley	Sociology	Alameda
²	Robert Roy Boggess	General	Boulder City, Nevada
	Carol Grace Boghosian	General	Pasadena
²	Bruce Bogue	General	Los Angeles
	Bette Margaret Bolger	English	Los Angeles
	Mary Reves Bolling	General	Whittier
	John Parish Bonelli	Meteorology	Carmi, Illinois
	Betty Marie Booker	General	Burbank
	Michael Boone	English	Los Angeles
³	Beverly Booth	English	Salt Lake City, Utah
¹	Reda Anne Kay Mackey Borbridge	English	Altadena
	Harold Borko	Psychology	New York, New York
³	James Watson Boudwin	Psychology	Los Angeles
	John Eagan Boulet	History	Milwaukee, Wisconsin
¹	Ben Burgess Bowen	Mathematics	Los Angeles
	Ruth Evelyn Bowler	Psychology	Los Angeles
	Mary Jean Boyd	General	Los Angeles
³	John Quinten Brack	Psychology	Great Bend, Kansas
²	Don Herndon Bradford	History	Paso Robles
	Jacqueline Estelle Bradford	Psychology	Los Angeles
	Harry Rolen Bradley	Economics	Glendale
¹	Shirley Anne Bradley	General	Bell
	Mary Ann Bradshaw	Psychology	Oakland
³	David Kilbourne Brady	English	Pasadena
	Elliott LaMont Brainard	General	Los Angeles
²	Ernestine Alice Brandstatter	Philosophy	Los Angeles
¹	Edward Louis Braun	Physics	Los Angeles
³	Fred Hans Braun	Psychology	Los Angeles
²	Richard Glenn Brewer	General	San Gabriel
	Evelyn Mary Brice	English	Taft
²	Seymour Murray Bricker	Political Science	Los Angeles
	Donald Mervin Briggs	General	Glendale
	Mary Cecelia Wightman Briggs	Philosophy	Beverly Hills
	Norman Paul Brintnall	English	Garden Grove
	Richard Philip Brissenden	Psychology	Imperial
³	Robert Brockman	Psychology	Los Angeles
²	Harold Leonard Brode	Physics	Santa Monica
³	Lionel Robert Bromberger	Political Science	Los Angeles
	Sidney William Brossman	English	Los Angeles
³	Betty Brostrom	Geography	Los Angeles
	Jeanne Brothers	Psychology	Santa Monica
³	Howard Jefferson Brower, Jr.	General	Glendale
³	Bonnie Rae Brown	Zoölogy	Los Angeles
	Charmion Brown	General	Los Angeles
¹	Donald Baer Brown	General	Los Angeles

2	Donovan Harvey Brown	English	Salisbury, Southern Rhodesia, South Africa
1	Joyce Alleen Brown	Bacteriology	Alhambra
	June Brown	Spanish	Los Angeles
2	Wayne Lee Brown	General	Porterville
	Barbara Gertrude Browner	English	Great Neck, New York
	Helen Louise Broyles	General	Los Angeles
	Arleen Frances Bruce	Psychology	San Bernardino
	Henry Wolfgang Bruck	International Relations	Beverly Hills
2	Jane Lewels Brun	General	Los Angeles
1	Robert Brunish	Zoology	Los Angeles
	William Slocum Bryan	Psychology	Roselle, New Jersey
	Ernest Max Buchholz	Economics	Los Angeles
2	Elaine Marjorie Budin	Sociology	Los Angeles
2	Philip Andrew Bulot	Political Science	Los Angeles
	Gerald Bulmash	English	Los Angeles
	George Guy Bundy III	Physics	Santa Monica
	Beverly Anne Burbridge	English	Taft
2	Ronny Burg	Sociology	Los Angeles
2	Albert Edward Burke	Geography	Los Angeles
	Robert Garretson Burke	Physics	Salem, Oregon
2	Paul Lee Burkhardt	Mathematics	Los Angeles
	Ben George Burnett	Political Science	San Diego
1	Raymond Thomas Burns	General	Los Angeles
1	Robert Edward Burns	General	Santa Monica
	Carol Virginia Burton	Kindergarten Primary	San Luis Obispo
	Patricia Burton	Mathematics	Salt Lake City, Utah
2	Gloria Ivaleen Bustamante	Spanish	Los Angeles
	William Glenn Byron	Geography	Los Angeles
2	Linda Keyes Callaway	Psychology	Beverly Hills
	Barbara Elizabeth Campazie	English	Los Angeles
	Dominador Calalang Canlas	Meteorology	Los Angeles
	Beverly Lorraine Cannon	History	Los Angeles
2	Richard Guerry Capera	English	Los Angeles
	Isidro Dimaranan Carifio	Meteorology	Binan, Laguna, Philippines
2	Roberta Jean Carlquist	History	Los Angeles
2	Dorothy Eileen Carney	English	Burbank
	Barbara Dean Carr	Sociology	Los Angeles
	Dorothy Anne Carr	English	Sterling, Colorado
	William Barnes Carruth	Psychology	Sumrall, Mississippi
	Jane Carver	General	Pasadena
	Roderick James Casper	English	Los Angeles
	Jane Dorothy Catlin	English	Pasadena
2	Seymour Walter Chad	Psychology	Bronx, New York
2	William Joseph Chambers	General	Los Angeles
2	Jacqueline Annette Chandler	English	Los Angeles
	George Irl Chansler	Psychology	Brea
	Zaye Viola Chapin	Psychology	Palo Alto
	Leland Dale Chapman	French	Los Angeles
	Leonore Charnofsky	Spanish	Los Angeles
	Leon Henry Chasson	Physics	Los Angeles
	Jeanne Anne Chattelle	Italian	Long Beach
	Richard Carvel Chenoweth	Economics	Los Angeles
2	Harold Chertock	Political Science	Niagara Falls, New York
	Peter M Childress	Geography	Los Angeles
	Darvel Van Choate	Economics	Burbank
1	Alexander Harry Chorney	English	Los Angeles
	Albert Abraham Chudler	History	Los Angeles
	Joseph Lee Clancy	Spanish	Huntington Beach
	Ada Lucille Clark	History	Pasadena
2	Dorothy Virginia Clark	General	Sherman Oaks

¹ Robert Lee Clark	General	Inglewood
Gerrienne Katherine Clarke	History	Los Angeles
David Richards Clay	Economics	Los Angeles
³ Lida Clementi	French	Los Angeles
Thomas John Cline	Zoölogy	Los Angeles
Stanley Thomas Clough	Political Science	San Gabriel
¹ Janice Hendricks Clucas	General	Great Neck, New York
Betty Jean Cluley	General	Long Beach
Edith Mary Coffey	English	Los Angeles
² Eugene Abraham Cogan	Psychology	Reseda
Lois Fern Coggan	General	Detroit, Michigan
³ Aileen Rose Cohen	General	Los Angeles
Audrey Elaine Cohen	Psychology	Los Angeles
³ Bertha Tina Cohen	History	Los Angeles
³ Lucille Cohen	Sociology	Los Angeles
Phyllis Justman Cohen	Bacteriology	El Centro
Russel Roland Cohen	Psychology	Los Angeles
² James Francis Coleman	General	Los Angeles
Patricia Mae Collard	General Elementary	Los Angeles
Anthony Wayne Colver	Philosophy	Los Angeles
Beverly Clare Conger	Philosophy and Psychology	Santa Monica
¹ Corinne Betty Conklin	Psychology	Los Angeles
³ Jeanne Celia Conklin	Music	Venice
Thomas Bonar Conn	Political Science	Pasadena
Margery Louise Cook	Bacteriology	Los Angeles
Pauline Marian Cook	Psychology	Vista
² William Howard Cook	General	Kansas City, Missouri
³ Edwin David Cooke, Jr.	General	Los Angeles
Patricia Alice Cooke	English	Los Angeles
Margaret Alice Corkle	Sociology	Hot Springs, Arkansas
Frederick Douglas Cornett	Zoölogy	Altadena
Raymond B. Corob	Psychology	Los Angeles
¹ Ruth Belle Coropoff	General	San Pedro
³ Vincent Ira Correll, Jr.	Economics	Long Beach
Susan Leigh Coulter	General	Los Angeles
George Mintern Cox	Economics	Westmorland
Robert Gerald Cox	General	Selah, Washington
Charlotte Antoinette Crabtree	History	Los Angeles
Edward Leo Cragen	Economics	Los Angeles
Bernd Crasemann	Physics	Valparaiso, Chile
² Ruth Villemain Crittenden	General	Porterville
² Edith Eccleston Crouse	Zoölogy	New York, New York
Whitney Irving Crum	International Relations	Los Angeles
¹ Robert Bruce Cumming	Political Science	Ontario
² Nancy Louise Curran	Music	Pomona
Helen Louise Curren	Economics	Los Angeles
Jean Frances Cutler	English	Los Angeles
² Fred William Daedlow	Mathematics	Rocky River, Ohio
Thomas Joseph Dailey	Zoölogy	Los Angeles
Grace Dorothy Dainow	General	Los Angeles
Sam Dalmont	Meteorology	Los Angeles
Gloria Mae D'Amico	Spanish	Glendale
Rex Dale Danneskiöld	General	Whittier
Dora Martha Darke	Geography	Bakersfield
³ James Arnold Davies	French	Beverly Hills
³ Sharon Linnea Davies	Sociology	Long Beach
Alan Edward Davis	General	San Pedro
³ Donald Arthur Davis	Spanish	Willowbrook
³ Grace Eliza Davis	Sociology	Los Angeles
Josephine Davis	Sociology	Los Angeles
³ Oliver Cromwell Davis	History	Big Pine

Patrick Davis	Political Science	Beverly Hills
² Robert Quinlan Davis	General	Los Angeles
¹ Virginia Dare Davis	Sociology	Miami Beach, Florida
² James Lawrence Davy	General	Santa Ana
Mildred Faye Dean	Psychology	Seal Beach
² Joseph DeAnda	General	Los Angeles
Dorece Mignonne DeBessonete	Bacteriology	Los Angeles
Ramona Ruth DeBra	Music	Torrance
² Henson Raymond DeBruler, Jr.	Political Science	Los Angeles
² Louis Kissam DeBus	Psychology	Cincinnati, Ohio
² Marjory Helen Deebel	Psychology	Los Angeles
² Mary Elta DeFalla	General	Los Angeles
Joan Demond	General	Los Angeles
² Rene Felix Dennemeyer	Mathematics	Los Angeles
² George Maximilian Dery, Jr.	Political Science	Los Angeles
Wilma Jean Dewey	Political Science	Glendale
² Elaine Diamond	English	Los Angeles
² Alfred Henry Dickhart	Political Science	Los Angeles
² Martin Bames Didra	Mathematics	Los Angeles
² Bernard Peauyairre Dillon	General	Huntington Beach
² Thomas Burdet Dillon	Anthropology	Los Angeles
Patricia Helen Dodds	Political Science	Los Angeles
² Janice Evelynne Dole	General	Sacramento
² Meyer Dolinsky	General	Los Angeles
Arthur Louis Domike, Jr.	General	Santa Monica
Blase Donadio	English	Los Angeles
Ruth Dong	Sociology	Los Angeles
David James Doran	Zoölogy	Los Angeles
Mildred Elmore Dorough	Zoölogy	San Bernardino
² Bruce Walter Dorsch	Meteorology	Pasadena
Helen Lucille Dorward	Political Science	Long Beach
William Blake Doub	Physics	Los Angeles
Constance Anne Douce	English	Los Angeles
Vera Frances Douglass	Psychology	Marshalltown, Iowa
² Flora Winifred Dow	Latin	Los Angeles
² Armstrong Manly Dowell, Jr.	Zoölogy	Torrance
¹ John Lewis Dowlin, Jr.	Mathematics	Compton
² Doris Elizabeth Downen	General	Glendale
¹ Jack Sidney Downum	General	Los Angeles
² Doris Helen Drazan	General	Los Angeles
² Jerome Maynard Drell	Zoölogy	Los Angeles
² Patricia Jacqueline Drew	General	Los Angeles
John Parke Driscoll	Political Science	Van Nuys
Estelle Dronge	Psychology	Los Angeles
George Joseph Dubow	English	Los Angeles
Peter Michael Duffy	Political Science	Los Angeles
² Jacqueline Ida Marie DuFort	Bacteriology	Los Angeles
² Wilma Lorene Dutton	History	Santa Monica
¹ Virginia Ann Dye	Physics	San Gabriel
Yvonne Joy Eckardt	General	Los Angeles
² Janet Russell Ecki	General	Los Angeles
Barbara Elizabeth Edens	Sociology	Artesia
Babette DeMoe Edinger	General	Santa Barbara
¹ George T Edmiston	History	Santa Monica
¹ Jeanne Margaret Edsall	Spanish	Glendale
Helen Mae Edwards	Spanish	Glendale
² Robert Maurice Edwards	General	Los Angeles
Ralph Gilbert Effner	English	Los Angeles
¹ Albert Eglash	Psychology	Los Angeles
² Henry Thomas Egliht	Economics	Martinez
Alberta Ehrenwerth	Psychology	Los Angeles

	John Daniel Ehrlichman	Political Science	Santa Monica
¹	Robert Cecil Eidt	Meteorology	Menominee, Michigan
	William Boone Eley	Anthropology	Arcadia
²	Josef Horblit Eifenbein	Mathematics	Los Angeles
	Pearl Nina Elia	Economics	Los Angeles
	Robert Densmore Elinor	Philosophy	Los Angeles
³	David Elkenbaum	Economics	Los Angeles
³	William Elkins, Jr.	Political Science	Los Angeles
	Anna Martha Ellis	General	Los Angeles
³	Peter David Ellis	Economics	Los Angeles
	Samuel Elmassian	General	New York, New York
³	George Carleton Elser	Spanish	Los Angeles
	Nancy May Elsner	Political Science	Los Angeles
¹	Silas James Ely	Political Science	Altadena
²	Nina Virginia Embrey	General	Escondido
	John Toshio Endo	Economics	Los Angeles
³	Robert Griffith Evans Epple	Mathematics	Los Angeles
	Richard Arnold Epstein	Physics	Los Angeles
	Rose Ellen Epstein	English	Los Angeles
	Richard Saltiel Erman	Sociology	Chicago, Illinois
	Donald Joseph Ertel	Psychology	Los Angeles
	Robert Alexander von Esch, Jr.	General	Monterey Park
	Belton O'Neal Evans	Meteorology	Van Nuys
¹	Lester Harold Evans	General	Lomita
³	Marjorie Alice Evans	History	Los Angeles
	Robert Dennis Ewen	English	Los Angeles
²	William Addison Fabrick	Political Science	Covina
¹	Ben Faden	Physics	Los Angeles
	Rosalind Fagan	General	Los Angeles
²	Richard Elia Faggioli	Geology	Glendale
	Ethel Aleson Fahnestock	General	Los Angeles
	Elizabeth Jeanne Falkenberg	General	Pasadena
	Yvette Marie Fallandy	French	Santa Monica
	Anona Shirley Farmer	International Relations	Elsinore
	Jeanne Farrell	English	San Diego
	Raymond Robert Farrell	Economics	Los Angeles
	Robert Charles Farrell	Anthropology	North Hollywood
¹	Mary Colleen Faust	International Relations	Anaheim
³	William Fawx	Psychology	San Carlos
³	Ernst Alexander Feblowicz	Psychology	San Diego
	Howard Mitchell Feder	Zoölogy	Los Angeles
¹	David Milton Fehling	Meteorology	Santa Monica
	Harold Feinberg	Zoölogy	Beverly Hills
¹	Shirley Feldzenfeld	General	Los Angeles
³	Carla Felsted	General	Los Angeles
³	Gloria Lorraine Fenning	English	Lynwood
	Anita Fenster	International Relations	Los Angeles
	Andrew Claude Ferguson	Political Science	San Bernardino
³	Jenniellen Wesley Ferguson	Political Science	Los Angeles
	Lura Ann Ferguson	Latin	Los Angeles
	Joseph Arthur Ferreira	Zoölogy	Los Angeles
	William Maxwell Fewell	Political Science	Tehachapi
³	William Fuller Fielder, Jr.	General	Berkeley
³	Mary Frances Finch	Geography	Los Angeles
	Frances Finger	Greek	Van Nuys
¹	Harriet Roslyn Fink	Sociology	Los Angeles
²	Richard Krieger Fink	Political Science	Miami Beach, Florida
³	Jerome Finklestein	English	Brooklyn, New York
³	David Firman	Geography	Los Angeles
¹	Jean Marilyn Fischer	Psychology	Los Angeles
	Paul Henry Fischer	Psychology	Pittsburgh, Pennsylvania

Arthur I Fisher	Political Science	Los Angeles
Gordon Alderson Flak	History	San Fernando
² Robert Maxfield Fisk	Political Science	Ontario
¹ Laura Elizabeth Fitzhugh	General	Van Nuys
David Clifford Flathers	French	Glendale
Idell Gertrude Flick	Sociology	Los Angeles
Elsie Catherin Flinkstrom	Psychology	Los Angeles
² Charles Neville Flitton II	General	Los Angeles
² Theodore Arthur Flynn	Economics	Glendale
² Robert Thor Follestad	English	San Diego
² Harry Parker Folts	Meteorology	Portland, Oregon
² William John Forbes	General	Los Angeles
² Ardis Margaret Ford	General	Los Angeles
² Barbara Ann Ford	History	Los Angeles
Sarah Eleanor Forster	Psychology	Pasadena
Betty Jane Fortune	General	South Gate
Orlene Jencks Foss	General	Fullerton
Robert Simeral Fox	Psychology	Los Angeles
Rosaline Henrietta Fox	Political Science	Los Angeles
Bruce Robert Frampton	English	Santa Monica
Dorothy Marion Franchere	General	Balboa Island
² Charlotte Davida Franchi	General	Los Angeles
Harry Cameron Francisco	Psychology	Bakersfield
Leona Miriam Frank	Music	Beverly Hills
Leonard Loring Franklin	Zoology	New York, New York
² Michael Harold Franklin	Economics	Los Angeles
² J Russell Franks	Mathematics	Los Angeles
Nathalie Joan Frazee	Geography	San Diego
Lorraine Henrietta Frederick	Spanish	Ithaca, New York
² Margie Elizabeth Freeberg	Psychology	Los Angeles
² Idell Freed	Sociology	Los Angeles
Eugene Lincoln Freeland	Political Science	San Diego
Joseph Elmer French	Meteorology	Elizabethtown, Kentucky
² Myrna Metzger Friedman	Bacteriology	Los Angeles
² Virginia Frances Frinell	Political Science	Los Angeles
Edwin Leavy Frischling	Psychology	Los Angeles
Florence Selvena Fritzen	Bacteriology	North Hollywood
² Sarah Fromm	German	Los Angeles
² Joseph Robert Fuller	French	Alhambra
¹ Doyle Gordon Fullmer	General	Los Angeles
Albert Lawrence Gabriel	Physica	Beverly Hills
Barbara Lee Gage	General	Los Angeles
Shirley Gage	General	Los Angeles
² Mary Blossom Galenson	Economics	Los Angeles
² Donald Moore Gales	Meteorology	Los Angeles
² Martha Jane Gallagher	Geology	Los Angeles
² Beverly Jean Galloway	Geography	Glendale
Godel Solomon Gandler	Zoology	Brooklyn, New York
Rheba Ganzweig	Sociology	Los Angeles
Naomi Ruth Sanchez Garcia	English	Los Angeles
² Anita Manel Garret	History	Burbank
Stephen George Gasiorowicz	Physica	Los Angeles
Evelyn Alice Gates	General	Los Angeles
² William Teague Gay, Jr.	Mathematics	Beverly Hills
Ralph Jules Geffen	Economics	New Bedford, Massachusetts
Robert Francis Gentzler	Meteorology	Rapid City, South Dakota
² Alice Elizabeth Gerson	Political Science	Los Angeles
² Elaine Louise Gerwig	Sociology	Huntington Park
² Louis Glass Gherardi	Spanish	Los Angeles
Virginia Anne Gibson	General	Los Angeles
² Robert Norman Gifford	Psychology	Compton

³ Ira Noma Gilbert, Jr.	Spanish	San Bernardino
³ Philip Gilhousen	Meteorology	Arcata
¹ Herman Gillman	Psychology	Los Angeles
Edith Helen Gilmore	General	Los Angeles
Ruth Schaar Giovanniello	Psychology	Santa Monica
³ Norma Jean Glick	General	Los Angeles
Seymour Glucksman	Sociology	Bronx, New York
³ Frank August Gohr	Zoölogy	Los Angeles
Billie Isabelle Gold	Political Science	Beverly Hills
Marcia Nadee Goldenberg	General	Duluth, Minnesota
Harry Maurice Goldstein, Jr.	Political Science	Los Angeles
Inette Lillian Cohen Goldstein	Psychology	Los Angeles
Sylvia Adicoff Goldstein	Bacteriology	Los Angeles
Solomon Gonshack	Bacteriology	Los Angeles
¹ Howard Jules Goodman	Psychology	Los Angeles
Josephine Gorden	Spanish	Los Angeles
Edward William Gordon, Jr.	Political Science	Santa Monica
Mitchell Gordon	Economics	Los Angeles
³ Norma Jean Gordon	Spanish	Los Angeles
³ Rose S. Gordon	History	Los Angeles
Molly Chernow Gorelick	Psychology	Los Angeles
Rosemary Claire Gorman	General	Long Beach
³ David Isadore Gorsky	Political Science	Los Angeles
Earl Everett Gossard	Meteorology	Eureka
Louis Edward Gottlieb	Music	Glendale
Muriel Kathleen Gottlieb	General	Santa Monica
¹ Stanley Norman Gottlieb	Psychology	Los Angeles
Donald Vaughan Grable	English	Albany, Texas
³ Justin Graf	Economics	Los Angeles
Doris Clensay Granger	French	Los Angeles
² James Grant	Political Science	Los Angeles
Judith Graver	Psychology	Los Angeles
Ysabel Beatrice Gray	Sociology	Los Angeles
³ Donald Paul Greaton	Psychology	Gardena
² Beverly G Grebe	History	Los Angeles
³ Betty Harriet Greeley	General	Los Angeles
Charlotte Green	History	Los Angeles
David Green	Physics	South Pasadena
Edith Opal Green	General	Newhall
Stanford Green	Psychology	New York, New York
Harriet Greenberg	English	Los Angeles
Morris S Greenberg	Sociology	Los Angeles
Kermit Quentin Greene	Sociology	Auburn, Washington
³ Weyler Frank Greene	Psychology	Riverside
³ Arnold Greenfield	Sociology	Chicago, Illinois
Greta Augusta Greenfield	English	Los Angeles
Powell March Greenland	History	Los Angeles
Evelyn Beatrice Greenwald	General	Los Angeles
Robert Granville Gregory	History	Puente
³ Joe Edward Grenzeback	General	Los Angeles
² Donald Wayne Gresser	Geology	Los Angeles
² Alice Hay Griffith	General	Sherman Oaks
Gloria Muriel Grimes	General	Glendale
² Robert William Grimes	Geology	Manhattan Beach
¹ Robert Emerson Grind	Meteorology	Pasadena
Bonnie Louise Gripp	General	Burbank
Fanchon Faith Gross	Political Science	Los Angeles
Bernard Samuel Grossman	History	Los Angeles
Jean Doris Grossman	Psychology	Corpus Christi, Texas
Joalyce Louise Gugliotta	Public Service	Inglewood
³ Harvey Bertram Guild	English	Brooklyn, New York

2	Ellsworth Kermit Gundersen	Psychology	San Gabriel
	John Cameron Gunn	Political Science	Canoga Park
2	Charles Gilbert Gunnerson	Geology	Los Angeles
	Rochelle Arline Gurvey	Spanish	Los Angeles
	John Maurice Gustafson	Mathematics	Fort Dodge, Iowa
	Henry Hastings Hale	General	Glendale
	Robert Michael Haley	Political Science	Los Angeles
1	Audrey Frisbie Hall	Zoology	Los Angeles
	Darwin D Hall	Sociology	Los Angeles
	Franklin Pierce Hall, Jr.	Meteorology	Dallas, Texas
2	James Walter Hall	Zoology	Los Angeles
2	Maurice Arthur Hall	Political Science	Beverly Hills
	Virginia Elizabeth Hall	Political Science	Banning
2	Ruth Marion Hamblin	Psychology	Santa Monica
	Lillian Melba Hamilton	Psychology	Los Angeles
	Frank William Hammar	General	Van Nuys
	Josephine Rebecca Hammett	English	Los Angeles
	William Ganta Hammond	Zoology	South Pasadena
2	Patrick Thomas Hancock	Economics and Meteorology	Bakersfield
	Henry Shigetaro Handa	International Relations	Los Angeles
	James Madison Hankins	Political Science	Los Angeles
2	Martha Ann Hansen	Spanish	Pasadena
2	Norman Hanunian	Economics	Manitowoc, Wisconsin
2	Raymond Wymbs Harder, Jr.	English	Long Beach
	Lucy Lenore Harding	General	Santa Ana
2	Mary Elizabeth Harding	Geography	Santa Ana
	Kenneth James Harker	Physics	Los Angeles
1	Richard Upson Harker	Economics	Los Angeles
	Fannie Harley	English	Los Angeles
	George Andrew Harmon, Jr.	General	Los Angeles
	John William Harper	Philosophy	Gardena
	Willamette Currie Harper	Sociology	Osceola, Arkansas
	Helen Marie Harriot	Psychology	Laguna Beach
2	Benjamin Maxwell Harris	Economics	Monrovia
	John Jefferson Harris	Economics	Glendale
2	Joyce Gloria Harris	Psychology	Los Angeles
	Gloria Harrison	Political Science	Encino
	Edward Dale Hart	English	Los Angeles
2	Betty Cecil Haskell	English	Carmel
2	Perry Hasson	Economics	Los Angeles
1	Marian Anne Hatch	General	Long Beach
	Robyn Hatch	General Elementary	Los Angeles
	John Palmer Hathaway, Jr.	History	Los Angeles
	June Helen Haubrich	General	Los Angeles
	Margie Jo Haught	General	Los Angeles
2	Norman Ferdinand Hauret	Bacteriology	Los Angeles
	Robert Haves	Political Science	Los Angeles
	Wilma Elizabeth Haweis	Psychology	Solana Beach
2	William Brevard Hawkins, Jr.	Psychology	Pixley
	George Warren Hay	General	Long Beach
	Marilyn Mae Hayes	General	Pasadena
	Sara Martha Hays	Psychology	Madera
2	William Edward Headford	International Relations	Los Angeles
1	Alice Healy	Mathematics	Los Angeles
	Sally Anne Heath	General	Beverly Hills
2	Ralph Maurice Hendrickson	Mathematics	Beverly Hills
	Constance Lita Henry	English	Los Angeles
	Leonora Doria Herendeen	International Relations	Los Angeles
	Evelyn Bernice Herman	General	Los Angeles
	Joseph Ehrlich Herman	Mathematics	Los Angeles

	George Louis Hern, Jr.	French	Los Angeles
³	Joaquín Hernández	History	Los Angeles
²	James Richard Heusdens	Zoölogy	Bellflower
³	Marjorie Ann Hewlett	Sociology	Los Angeles
²	Edward Bernard Hickey	Sociology	Council Bluffs, Iowa
	Forest Glen Hicks	Bacteriology	Los Angeles
³	Vincent Lee Hillyer	General	Los Banos
³	Eugene Robert Hinkston	History	Los Angeles
	Romeo David Hinkston	General	Culver City
	Alan Hirshfeld	English	Beverly Hills
	Thadeus Henry Hobbs	Political Science	Los Angeles
	Shay Hochman	English	Los Angeles
¹	Walter Hugo Hoecker, Jr.	Meteorology	Industrial City, Missouri
³	Ellen Sigman Hoffman	General	Los Angeles
¹	Fred Stanley Hoffman	Economics	Los Angeles
	Harold Jay Hofstar	Philosophy	Los Angeles
²	Allen Aitkin Hogle	Economics	Inglewood
	Gottfried Meyern Hohenberg	Political Science	Los Angeles
	George William Hohmann	Psychology	Van Nuys
³	Orline Colquhoun Holcomb	Psychology	Los Angeles
	Philip Ben Hollander	Zoölogy	Los Angeles
³	George Leonard Holloway	General	Los Angeles
¹	James Milburn Holt	Psychology	Los Angeles
	Sheila Halwyn Hope	International Relations	Los Angeles
³	Faye Jennie Hopkins	Sociology	Los Angeles
	Iva Lucyle Hoppe	Psychology	Paso Robles
³	Ruth Barbara Horgan	Mathematics	Los Angeles
	Philip Kevin Horrigan	Political Science	Culver City
	Florence Glazer Horwitz	Psychology	Los Angeles
	Mary Elizabeth Hosford	Sociology	Pasadena
	Clayton Wilbur Hotzell	History	Inglewood
²	Charles Neilan Hovden	General	Los Angeles
³	Robert Curtis Howard	General	Los Angeles
	Joseph Andre Howenstein	English	Westmorland
	John Stanley Hubbard, Jr.	English	Los Angeles
³	Lucille Sisk Hubbert	General	Los Angeles
³	Donald Reid Hughes	Political Science	San Gabriel
	Margery Miller Hughes	Sociology	Naugatuck, Connecticut
	Carlyle DeLloyd Hummel	Psychology	Los Angeles
³	John Joseph Hunt	History	Trenton, New Jersey
³	Barbara Jane Hunter	English	Santa Monica
³	Dorothy Ellen Hurlbut	Psychology	Montebello
³	Roland Dewey Hutchinson	Psychology	Alhambra
	John Clay Hutton	Latin American Studies	Los Angeles
³	Herman Hyatt	Mathematics	Los Angeles
	Charlotte Hyland	Spanish	Los Angeles
³	Billie Jean Irvin	History	Bellflower
³	David Deane Irwin	History	Hermosa Beach
	Ivanelle June Jackman	English	Los Angeles
	LaVerne Frances Jackson	History	Los Angeles
¹	Lynn Jackson	Sociology	Torrance
³	Martha Lee Jackson	Spanish	Glendale
	Mary Beth Jackson	General Elementary	San Pedro
³	Eugene Howard Jacobs	Mathematics	Chicago, Illinois
²	Marvin Vincent Jacobs	Mathematics	Los Angeles
¹	Leo Jacobsen	International Relations	Balboa
	Elinor Doris Jacobson	General	Los Angeles
³	Frank Bourne Jacobson	English	Huntington Park
	Shirley Arlouse Jacobson	Economics	North Hollywood
²	Irving Jaffe	Political Science	Brooklyn, New York

Ann Marie James	General	Gardena
Arthur Franklin James	Zoölogy	Van Nuys
² William Jasper	Psychology	New York, New York
² Douglas Fitzhugh Jenkins	General	Santa Ana
¹ Loray Jenkins	General	Los Angeles
² David Lewis Jerger	Political Science	Martins Ferry, Ohio
¹ Edward Kelly Jobes	English	Coronado
¹ Virginia Johns	English	LaCrescenta
Barbara Winnifred Johnson	General	Los Angeles
² Emory Montgomery Johnson	General	Glendale
² James Harvey Johnson	Mathematics	Somerton, Arizona
² Jane Carolyn Johnson	Spanish	Los Angeles
Murray Leon Johnson	Psychology	Venice
² Robert Alfred Johnson	History	Los Angeles
² Robert Craig Johnson	Economics	Los Angeles
¹ Frank Brown Johnston, Jr.	Meteorology	Gastonsburg, Alabama
² Mauvis Norida De Jonckheere	General	Riverside
² Harry Thomas Jones	Zoölogy	Los Angeles
Sally Hale Jones	Psychology	Los Angeles
Vernon Douglas Jones	English	Santa Monica
Yvonne Evelyn Jones	General	Los Angeles
Priscilla Mae Jordan	General	San Diego
David Charles Joseph	Zoölogy	Inglewood
¹ Marion Joseph	Political Science	Long Beach
Juliet Faye Judell	General	Los Angeles
Eric Julber	Political Science	Los Angeles
Hildegarde Mary Jurgens	General	Compton
Myrtle Margaret Jurgens	General	Compton
Edith Kadison	Sociology	Huntington Park
² Barbara Watson Kaeding	Music	Santa Paula
¹ Hadassah Donna Kahn	Sociology	Los Angeles
² Verne Joseph Kallejian	Psychology	Los Angeles
² Murray Morton Kamenetzky	Economics	Los Angeles
² Herbert Kapetansky	Sociology	Los Angeles
² Lewis Alvin Kaplan	Zoölogy	Los Angeles
² Lillian Kaplan	Psychology	Los Angeles
Ronald Jay Kaplan	Zoölogy	Los Angeles
Harvey Sidney Karasov	Political Science	Los Angeles
² Robert LeRoy Karen	Psychology	Los Angeles
² Alvin Howard Karp	Political Science	Los Angeles
Howard Maurice Kass	Zoölogy	Ocean Park
Jack Katz	Political Science	Alhambra
² Ruth Virginia Kauffman	Zoölogy	Victorville
¹ Peter Edward Kaus	Physics	Los Angeles
Gordon Ross Kean	History	El Monte
Beverly Camille Keene	Spanish	Glendale
Mary Alice Keene	English	Pasadena
² Robert Allen Keith	Psychology	Los Angeles
Mary Ann Keliher	General	Los Angeles
² Doris Jean Keller	English	Los Angeles
Howard Iris Keller	Physics	North Hollywood
James Harris Kenney	English	Los Angeles
² Joseph Owen Kern	Sociology	Los Angeles
June Natalie Keesselman	Political Science	Beverly Hills
² Evelyn Stone Kessler	Psychology	Los Angeles
² Martha Jean Ketterlin	General	Los Angeles
² Dorian Phillip Keyser	Physics	Los Angeles
² Barbara Ann Kibby	Spanish	Beverly Hills
¹ Pauline Sylvia Kidd	General	Baldwin Park
² William Loyd Kimball	Psychology	Los Angeles
Ernestine Consuella King	English	Santa Monica

² Irwin George King, Jr.	English	Glendale
² Jacqueline Jean King	Sociology	Los Angeles
John Stuart King	Political Science	Los Angeles
Marian Kinspel	General	Laguna Beach
¹ Conrad Gray Kinstad	History	Los Angeles
³ Melvin Henry Kirschner	Bacteriology	Los Angeles
³ Sol Kishlansky	Botany	Los Angeles
¹ Toyoko Kitajima	Bacteriology	Huntington Beach
Allen Klein	Political Science	East Palestine, Ohio
¹ Gloria Liane Klein	Political Science	Los Angeles
³ Bessie Kleinerman	Psychology	Los Angeles
³ Ira Kleinman	Philosophy	Los Angeles
Allen Klingensmith	Political Science	Riverside
Robert Morris Klipper	Political Science	Los Angeles
Kay Willard Knowles	Anthropology	Los Angeles
Kathryn Louise Koepke	English	Long Beach
Alice Andrea Koestner	Economics	Los Angeles
³ Jonathan Kohn	Political Science	Los Angeles
Barbara Lois Korengold	Psychology	San Bernardino
³ Sylvia Margaret Kovar	Spanish	Alhambra
Herbert Louis Kramer	Sociology	Los Angeles
³ Sarah Helene Kraus	Bacteriology	Los Angeles
¹ Arian Kraysler	Spanish	Long Beach
² Phyllis Irene Kreisman	Psychology	New York, New York
³ Ernest James Kubeck	Anthropology	Los Angeles
³ Ruben Fred Kugler	History	Long Beach
Joyce Beverly Kullgren	English	Pasadena
Saul Charles Kupferman	Psychology	Boston, Massachusetts
¹ William Arthur Kurlander	Political Science	Los Angeles
¹ Iris Mabel Kutschker	Psychology	Los Angeles
Thomas Roger Ladner	General	St. Cloud, Minnesota
³ Valentina Laffin	German	North Hollywood
³ Morton Abraham Lakretz	Psychology	Los Angeles
¹ Catharine D. Lamb	Bacteriology	Wauwatosa, Wisconsin
John Albert Lamb	Political Science	Pasadena
Marjorie Jeanette Lamb	English	Los Angeles
Frank Aloysius Lane, Jr.	History	Los Angeles
³ Roberta Scott Lane	Psychology	Glendale
³ William Archibald Lanford	Geography	Riverside
William Lange, Jr.	Public Service	Hot Springs, South Dakota
Lorraine Aletta Langworthy	Spanish	Shell Beach
Ruth Ellen Lanman	Sociology	Long Beach
³ Frederic Murray Lansing	Zoölogy	Los Angeles
Zelda Lansman	Political Science	Los Angeles
¹ Violet Gay Lantz	English	Arcadia
Barbara Louise Lapp	International Relations	Los Angeles
Jerrold Allan LaRue	Meteorology	Walla Walla, Washington
Edward Lee Lash	History	Chicago, Illinois
³ Joseph Jerry Lash	Bacteriology	Los Angeles
³ Alvin A Lasko	Psychology	Los Angeles
³ Nancy Lauer	Philosophy	Los Angeles
² Jean Elizabeth Laurance	Sociology	Riverside
Gloria Florence Lavene	General	Beverly Hills
³ Estelen Laws	Political Science	Riverside
² Tracy Earl Lay	General	Santa Monica
Harriet-Sue Layne	History	Los Angeles
³ Edward Leaf	Psychology	Los Angeles
Naomi Ruth Leaf	Psychology	Chicago, Illinois
Marjorie Leask	Sociology	Los Angeles
Baker Perkins Lee III	General	Beverly Hills
Margery Eloise Lee	Psychology	North Hollywood

² Mary Elizabeth Lee	English	Adelanto
Roma Adele Leffman	Psychology	Los Angeles
² Herbert Norman Leifer	Physics	Los Angeles
² Frederick Bent Leighton	English	Los Angeles
¹ Robert Ernest LeLevier	Physics	Los Angeles
Joan Ellen Leonhauer	General	Roscoe
Robert Mitchell Lesser	Meteorology	Los Angeles
² Edwin Harold Leuin	Psychology	Los Angeles
Richard Douglas Levee	Astronomy	Los Angeles
² Barbara Levinson	Psychology	Santa Monica
² Judith Natalie Levinson	Sociology	Los Angeles
² Burton David Lewis	Geography	Los Angeles
Seymour Lewis	Anthropology	Los Angeles
Shirley Lewis	Political Science	Baldwin Park
² Jose Lieberman	General	Los Angeles
² Dorothy Moss Liebes	Bacteriology	Los Angeles
Nancy Liljedahl	Zoology	Los Angeles
² Robert Gene Lindberg	Zoology	Van Nuys
Donal Charles Lindholm	Psychology	Altadena
Leighton Harley Lindman	Psychology	Los Angeles
Karl William Linnes	Physics	Los Angeles
Margaret Lorraine Linwood	General	Manhattan Beach
Suzanne Hildegard Lins	Sociology	Los Angeles
¹ Jeanne Doris Lipking	General	San Fernando
Mary Joyce Liscom	General	Beverly Hills
² Arthur Cameron Lisenden, Jr.	International Relations	Union, New Jersey
² Marshall Girson Litman	Psychology	Lynwood
² Merle Gerald Lloyd	Meteorology	Spokane, Washington
George Andrew Lockhart, Jr.	Meteorology	Boulder, Colorado
Clarence Mobley Longley, Jr.	Psychology	Orlando, Florida
Jean Sallie Lopin	Political Science	Los Angeles
² Anna-May Crooke Loughery	Bacteriology	Altadena
² Donald Lane Loughery, Jr.	Sociology	Pasadena
¹ Norman Worth Loveless	Economics	South Gate
Leo Wolf Lowenberger	Political Science	Brooklyn, New York
¹ Walter Alfred Loy	International Relations	Los Angeles
Albert Garfield Lucas, Jr.	Psychology	Lake Forest, Illinois
² Howard Ward Luchsinger	Mathematics	Los Angeles
² Joe Earl Luder	Public Service	San Fernando
² John Calvin Ludwick, Jr.	Geology	Los Angeles
² Daniel Michael Luevano	International Relations	Los Angeles
Barbara Helen Lund	History	Pasadena
Wilma Lester Lusardi	Psychology	Vista
Henry Myron Lyday, Jr.	Political Science	Los Angeles
Marvin Lee Lykins	Zoology	Los Angeles
² Louise Marilyn Lyons	General	Beverly Hills
¹ Elizabeth Ann McBride	Economics	Lindsay
² Mary-Stuart McCament	English	Pasadena
Zelda Kenney McCarthy	History	Los Angeles
Gladys McClendon	General	Pasadena
² Mary Genevieve McConnell	Zoology	Pasadena
David Coyle McCulloch	Psychology	Los Angeles
Ellis Elmer McCune, Jr.	Political Science	Los Angeles
² Harry Derwood McDannold, Jr.	Political Science	South Gate
² Daniel Venn Macdonald	International Relations	Los Angeles
² Harry George McDonald	Psychology	Los Angeles
Patricia Marie McFadden	Political Science	Van Nuys
² John Everet McGovern	General	Santa Monica
John Leroy McGowan	English	Lakewood, Ohio
² John McGregor	General	Los Angeles
Coral Parsons McGuire	Psychology	Long Beach

¹ John James McGuire	Anthropology	Los Angeles
Thomas Gregory McGuire	English	San Francisco
³ Virginia Mae McKelvie	General	Los Angeles
² Edward Malcolm MacKevett, Jr.	Geology	Los Angeles
² Nat Hay MacKevett	Geology	Los Angeles
³ Mina Christie McKinney	General	Pasadena
Faye McLatchie	Meteorology	Ogden, Utah
Stephen Bolles McNally	Political Science	Lake Geneva, Wisconsin
Nora McNerney	English	La Jolla
Susan Marie McVay	English	Van Nuys
³ Jenny Rose McVey	General	Los Angeles
² Irwin Mahler	Psychology	Montebello
Jeanne Margaret Mainwaring	American Culture and Institutions	Pasadena
Ruth Malarsky	Psychology	Los Angeles
Richard Taylor Mallon	Psychology	Presidio of Monterey
Donald Elvin Malmberg	General	Los Angeles
Paul Alexander Mankin	Political Science	Los Angeles
³ Robert Albert Mann	General	Los Angeles
¹ Shirley Jane Mann	General	Los Angeles
Roy Harper Mann	Meteorology	Glendale
Edmund Jerome Manning	Meteorology	Duluth, Minnesota
Charles Andrew Maple	Political Science	Temple City
Barbara Hagen Mapp	General	Los Angeles
Virginia Anne Markham	English	Beverly Hills
³ Darrell D Marks	Spanish	Santa Monica
George Bruce Marquard	Psychology	Santa Monica
Ida Marquez	Spanish	Los Angeles
George Eugene Marr	Political Science	Los Angeles
Eleanor Jane Mars	English	Glendale
Amelia Elizabeth Marsh	Bacteriology	Los Angeles
¹ Helen Elizabeth Marshall	Psychology	Naperville, Illinois
³ Ben H Marsten	Zoölogy	Los Angeles
Howard Arthur Martin	Sociology	Chino
³ Louis Ball Martin	Botany	Los Angeles
Basil William Martinez	History	Garden Grove
David Maryn	English	Los Angeles
³ Martin A Matheson	History	Los Angeles
³ James Ronald Mathis	Sociology	Los Angeles
Jack Russell Matlock	Psychology	Whittier
Carol Lily Matloff	Zoölogy	Los Angeles
Mary Tokiko Matsuzawa	Psychology	Pasadena
³ Shirley Gail Matthews	General	Los Angeles
¹ Aloys Bernard Mauch	Psychology	Maywood
³ Forrest Henry Maulsby	Economics	Sonoma
¹ Thomas James Maurer	Political Science	Santa Monica
³ Janet Maverick	General	Los Angeles
William Edward Maxey	Psychology	Los Angeles
³ Ernest Richard May	History	Wilmington
² Richard William Mayersohn	Psychology	New York, New York
¹ George Washington Mayle	Mathematics	Los Angeles
Mildred Joyce Maynard	Philosophy	Santa Monica
³ Lester Meckler	Philosophy	Los Angeles
Jean Sharon Medbery	History	Beverly Hills
Robert Fredrick Meiklejohn	Physics	Los Angeles
³ Betty Melavsky	Sociology	Hawthorne
¹ Edith Jean Mellen	General	South Pasadena
³ Edward I Menacker	General	Los Angeles
Werner Max Mendel	Psychology	Los Angeles
Maryalice Mentzer	General	Long Beach
Dorothy Kipp Mercer	General	Santa Monica
³ Ada Schreiber Mermer	General	Detroit, Michigan

³ Ruth Ringler Meyer	General	Los Angeles
³ Franklyn Jack Michaelson	General	Los Angeles
Tito Abella Mijares	Meteorology	Manila, Philippines
³ Marvin Edward Milkes	Political Science	Long Beach
Mary Jane Millard	Zoölogy	Riverside
³ Janet Elaine Miller	Sociology	Pasadena
Janice Aletha Miller	History	Los Angeles
³ Lowry Morton Miller	Economics	Santa Monica
³ Marilyn Miller	Sociology	Los Angeles
Robert Edson Miller	General	Barstow
² Troy Price Miller, Jr.	Meteorology	Glendale
³ Robert Eugene Mills	History	Redondo Beach
Harvey Mindess	Psychology	Los Angeles
² Vane Day Mingle	Psychology	Long Beach
Ronald Spencer Mintz	Psychology	Los Angeles
Donald Folk Mitchell	Zoölogy and Meteorology	Los Angeles
Meredith Burton Mitchell	Psychology	Los Angeles
Juanita Josephine Moffat	General	Long Beach
² Mary Elizabeth Montgomery	Psychology	Los Angeles
¹ John Phillips Monteverde	English	Los Angeles
³ Simone Schurch Monteverde	French	Los Angeles
³ Graciela Montoya	Spanish	Lima, Peru
Harold Charles Moore	Economics	Glendale
¹ Janet Hope Moore	History	El Centro
John MacKenzie Moore	Political Science	Los Angeles
William Burt Moreland	Meteorology	Glendale
² Martin Morhar	Economics	Los Angeles
¹ Alice Louise Morris	Public Service	Long Beach
Barbara Morris	Political Science	Los Angeles
Hugo Mendel Morris	Economics	Los Angeles
Jacqueline Morris	Political Science	Delano
Marian Marie Moser	Music	Pasadena
³ Irwin Melvin Moskowitz	Political Science	Los Angeles
Geraldine Katheryn Moyer	General	Los Angeles
³ Steven Muller	Political Science	Los Angeles
² Lois Eileen Murphy	General	Los Angeles
² Owen Francis Murphy	Psychology	Long Beach
Donal Lancaster Murray	Psychology	La Crescenta
Virginia Ella Myers	Psychology	San Marino
² Joyce Nagin	Psychology	Los Angeles
³ Sumio Nakamura	Bacteriology	Los Angeles
Albert Takeshi Nambu	Zoölogy	Redondo Beach
Shirley Finkel Namson	General	Los Angeles
Irwin Jaye Nebron	Political Science	Ventura
¹ Esther Needles	Psychology	Beverly Hills
Oliver Roscoe Nees, Jr.	Zoölogy	Long Beach
¹ Patricia Neffeler	General	Beverly Hills
³ Creighton Bayard Nelson	Meteorology	Fresno
³ Don Alden Nelson	Mathematics	Lakeside
² John William Nelson	Meteorology	St. Louis, Missouri
Beverly Elaine Neuner	General	San Diego
² William Lloyd Newcomb	Psychology	Los Angeles
Phyllis Gene Newcomer	Psychology	Altadena
¹ Reford Leith Newman	Meteorology	North Hollywood
³ George Jacob Nias	Public Service	New York, New York
John Wesley Nicks, Jr.	Mathematics	Inglewood
¹ Eileen Grace Nielsen	Psychology	San Fernando
³ Gloria Susanna Ninnis	General	Compton
Mary Regina Ninnis	English	Compton
³ David Rowland Nisall	Political Science	Los Angeles
Toshiko Nishihara	Zoölogy	Los Angeles

	James Curran Nofziger	Zoölogy	Canoga Park
	Marie Nolden	Psychology	Los Angeles
	Gil Poblete Nones	Meteorology	Manila, Philippines
³	John Robert Nordeen	Political Science	Los Angeles
	Kenneth Stafford Norris	Zoölogy	Van Nuys
³	Charles Anthony North	Geography	San Francisco
	Nanette Therese Notarius	English	Beverly Hills
³	Elizabeth Peterson Nuckolls	Zoölogy	San Gabriel
²	Richard John O'Connor	English	Los Angeles
³	Herman Ohme	French	Pittsburgh, Pennsylvania
	Gordon Lee Oliver	Psychology	Colton
³	John Robert Olloman	International Relations	Riverside
	Richard Young Olsen	Bacteriology	Venice
¹	Andrew William Olson	Economics	Altadena
	Helen Idella Olson	Political Science	Pasadena
	Jarvis Hugh O'Mara	Geology	Los Angeles
³	Virginia Janice Ong	General	Altadena
	Katheryne Margaret O'Kane O'Neill	General	Etiwanda
¹	Elmer Edwin Osborne	Mathematics	Los Angeles
	Richard Ernest Osgood	Psychology	Glendale
	Cecil Frank Osoff	Political Science	Los Angeles
	Charlotte Mae Osterman	Psychology	Burbank
¹	Joseph Ostrow	Political Science	Los Angeles
³	Robert Dunlap Pace, Jr.	General	Coronado
¹	John Nicholas Pagones	Bacteriology	North Hollywood
	Lillian Yetta Paigen	Political Science	Pasadena
	Arthur Lawrence Palace	Sociology	Northridge
	Nikolay Sergeevich Palchikoff	Psychology	Los Angeles
	Charlotte Yetta Palmer	English	Los Angeles
	Aaron George Parker	Psychology	Los Angeles
	Patsy Ruth Parkes	General	Los Angeles
	Ruth Emily Parsons	Mathematics	Los Angeles
³	David Drake Pascoe, Jr.	General	Santa Monica
	Lucille Gertrude Passolt	Psychology	Los Angeles
³	Robert Owen Patterson	Geology	Montebello
	Gloria Joyce Paul	General	Los Angeles
³	Patricia Paus	English	Glendale
	Wilferd Warner Peak	Geology	Los Angeles
²	Ralph Pearlman	Political Science	Los Angeles
	Jacqueline Alden Pearre	General	Huntington Park
²	Reuben Theodore Pearson	English	Huntington Park
³	Phyllis Elaine Pedersen	General	Los Angeles
³	Helen Jean Perlmutter	General	Chula Vista
¹	Charles Wesley Perkins	Physics	Venice
	Fern Hart Permutt	General	Los Angeles
	Francis Melvin Perry	Psychology	Los Angeles
	Margaret Ellen Peterkin	General	Los Angeles
	Margaret Faith Peterson	General	Exeter
	Raymond Irving Peterson	General	Santa Monica
	Richard P Petit	International Relations	Los Angeles
	Kathleen Helen Petley	Economics	Santa Monica
²	Francis Emery Phillips	Political Science	Boston, Massachusetts
	William Thomas Phillips	Political Science	Los Angeles
	Molly Jean Pierce	Spanish	Los Angeles
²	Charles Thomas Pierson	Geology	Los Angeles
	Eugene Loren Pike	General	Los Angeles
	Selman Mehmet Izzet Pinar	Economics	Istanbul, Turkey
²	Britomar Johnson Platt	Psychology	Los Angeles
	Harriet Frances Pliskow	Sociology	Los Angeles
³	Isidore Pliskow	Psychology	Los Angeles
	Beverly Rose Plotkin	Political Science	Los Angeles

David Plotkin	Bacteriology	Santa Monica
Jean Dorothy Pogrund	Bacteriology	Chicago, Illinois
Marcelle Hope Polglase	General	Huntington Park
Peggy Jean Polk	History	Los Angeles
³ Bernard Pollock	Economics	Los Angeles
Dale Alice Pollock	Anthropology	Los Angeles
³ Joseph Andrew Pomeroy	Spanish	Long Beach
² Gaston Arthur Porter	Sociology	Los Angeles
³ Helen Porton	General	Chicago, Illinois
Donna Ross Potter	French	San Gabriel
² Marie Cecelia Potts	General	Holtville
Doris Mildred Poverny	Spanish	Los Angeles
² Betty Jane Powars	Psychology	Compton
Keith Grimes Powers	Zoölogy	Phoenix, Arizona
² Kenneth James Pratt	History	Los Angeles
Donald Bruce Prell	Psychology	Los Angeles
Edmund James Prescott	Zoölogy	Los Angeles
³ Edward Warren Price	Mathematics and Physics	Pasadena
¹ Mary Frances Price	History	Santa Monica
¹ Eleanor Jeannette Prince	Psychology	Los Angeles
Eugene G. Prindle	General	Beverly Hills
Bruce Marion Pringle	Sociology	Los Angeles
³ Norbert Prins	International Relations	Los Angeles
Anabelle Marion Purtell	History	Burlingame
Bernard Puttler	Economics	Los Angeles
Bernice Puzarne	General	Los Angeles
¹ John Carman Quigg	General	Santa Monica
Henry Vernon Quinley, Jr.	Political Science	North Hollywood
Kathleen Ruth Quinn	General	Glendale
Frieda Louise Quint	English	Los Angeles
Paul Russell Rader	English	Los Angeles
² Edward Radlauer	Psychology	Berkeley
¹ Janice Madge Ragan	General	Los Angeles
Anita Ragins	History	Beverly Hills
Laura Jean Rainey	International Relations and History	Los Angeles
³ Arthur Jimenez Ramirez	Spanish	Los Angeles
³ Margaret Jane Ramsey	General	Los Angeles
Lyle Rutledge Randolph	Political Science	Beverly Hills
² Paul Herbert Rapp	General	St. Louis, Missouri
Sharon June Rash	Political Science	Los Angeles
Leland John Rath	Meteorology	Almond, Wisconsin
Madelyn Phyllis Rattner	General	Los Angeles
³ Herbert Wolfe Ravetch	English	Long Beach
Don Brandon Ray	Music	Los Angeles
³ Everett Alvan Rea	Mathematics	Costa Mesa
Lorraine Yvonne Read	Political Science	Altadena
³ Alan David Redding	Economics	Los Angeles
¹ Jeanne Gertrude Reedy	Spanish	Los Angeles
² Walter Thomas Reeves III	Political Science	Glendale
Velma Awe Regan	General	Burbank
² John William Reid	Geology	Los Angeles
Clare Lucile Reineke	English	Fullerton
³ Lorraine Olive Remillard	General	Anaheim
¹ Genevieve Elizabeth Remke	General	Topeka, Kansas
³ Roslyn Reps	Mathematics	Los Angeles
³ David Raynor Ricards	Political Science	Ventura
² Charlene Rice	General	Glendale
³ Rosemary Janet Rice	Psychology	El Centro
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Arthur Francis Richard	International Relations	Los Angeles
¹ Malcolm Richland	Political Science	Glendale

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¹	John Thomas Riedel.....	Meteorology	Orange
³	Joan Annette Rissé.....	Spanish	Los Angeles
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	Murray William Rogowitz.....	English	Los Angeles
³	Barbara Stuart Rollins.....	Psychology	Pacific Palisades
¹	Gloria Frances Roman.....	Sociology	Los Angeles
³	Javier Manuel Romero.....	Spanish	Lima, Peru
³	Eileen Roma Rose.....	Psychology	Los Angeles
	Shirley Elizabeth Rose.....	Political Science	Los Angeles
	Geneva Orfa Rosemount.....	Psychology	Los Angeles
³	Paul Rosen	Psychology	Los Angeles
	David Rosenfeld	Physics	North Hollywood
	Esther Lillian Rosenthal.....	Political Science	Los Angeles
	Harvey Leslie Ross.....	Psychology	Toronto, Ontario, Canada
³	Philip Ross	General	New York, N.Y.
	Tom Rosser	History	Redondo Beach
³	Gerti Lilly Rothschild.....	French	Los Angeles
¹	Michel Marie Henri Paul Rougé.....	American Culture and Institutions.....	Neuville, St. Ambroix, Cher, France
³	Mary Jo de Roulhac.....	English	Phoenix, Arizona
	Jeanine Geneviève Thérèse Rousset.....	French	Menton (AM), France
	Jean Rousso	General	Los Angeles
	Anne Shirley Rubin.....	English	Los Angeles
³	Eugene Lloyd Rubin.....	Political Science	Los Angeles
³	Joan Ruby	General	Los Angeles
³	Alice Freeman Rudolph.....	Bacteriology	Los Angeles
	Gerald Allan Rudolph.....	Zoölogy	Portland, Oregon
²	Hinda Karz Rudolph.....	Sociology	Los Angeles
	Howard Mills Russell.....	Political Science	Inglewood
²	William Garland Ryals.....	Geology	New Orleans, Louisiana
	Sara Ballou Safford.....	English	Long Beach
	Dolores Lucile St. John.....	Spanish	Arcadia
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	Edward Samuels	Zoölogy	Los Angeles
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	James Wesley Sanderson.....	Psychology	Los Angeles
	Thomas Joseph Sanderson.....	History	Los Angeles
¹	Morris Sankary	Political Science	Fort Worth, Texas
	Allan Justin Sanker.....	Psychology	Cincinnati, Ohio
	Jessie Elizabeth Sansome.....	History	San Bernardino
	Roma Joy Sarno.....	General	Los Angeles
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	David Gabriel Saville.....	General	Beverly Hills
	Barbara Joyce Savory.....	Psychology	Pasadena
³	Edward McAneney Sayles.....	Astronomy	El Paso, Texas
³	Robert Joseph Schaaf.....	Public Service	Willard, New York
²	Burton Charles Schatz.....	Zoölogy	Los Angeles
³	Ole Arne Schjeide.....	Zoölogy	Lynwood
¹	Glen Edward Schrank.....	Physics	Los Angeles
³	Byrnece Bryson Schreiner.....	General	Pasadena
	Bernard Raphael Schulhof.....	Economics	North Hollywood
	Alice Rolfe Schulte.....	General	Pasadena
	Lois Eileen Schultz.....	Psychology	Los Angeles
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Leon Schwartz	French	Los Angeles
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Dorothy Marion Schwarzenberg	General	Los Angeles
George Henry Schwenk	General	Los Angeles
Robert Thomas Scott	Zoölogy	San Gabriel
² Agnes Cleaver Scroggs	Astronomy	Los Angeles
Clay Hancock Seaman	Physics	Glendale
Robert Marc Segall	General	Los Angeles
Joseph Israel Seideman	English	Beverly Hills
Ann Louise Seitz	General	San Diego
Charlotte Sarah Seitz	General	Los Angeles
² Charlie Nikolaus Selig	Psychology	North Hollywood
² Dorothy Sellers	Psychology	Los Angeles
² Richard Edwin Servey	French	Pacoima
¹ Edward M Sevadjian	Meteorology	Pasadena
² Charlotte Melnick Shaffman	General	Los Angeles
Jacob Ellis Shamray	Economics	Los Angeles
Jeanette Claire Shannon	English	Baldwin Park
¹ Mary Anna Shannon	General	Alhambra
² Nehoma Shapiro	English	Los Angeles
¹ Clair Edwin Sharp	General	Riverside
² Thomas William Sharpe	History	Los Angeles
² John Clifford Shaw	Mathematics	Fullerton
² Elliott Davidson Sherman	Geology	San Marino
Evelyn Goren Sherman	General	Los Angeles
² Edgar Leo Shiffrin	Psychology	Beverly Hills
Joel Lewis Shiner	Anthropology	Santa Monica
² Ann Shlaudeman	General	Pasadena
Rush LaVern Shosted	Political Science	North Hollywood
² Myron Wesley Shomler	English	Glendale
Jean Shubin	Music	Bell
² Hyman Louis Shulman	Mathematics	Los Angeles
Maurice Harry Sidy	International Relations	Los Angeles
¹ Lola Lee Siegel	General	Beverly Hills
Samuel Ellia Siegel	Political Science	Newport News, Virginia
Leslie Almon Siewert	Bacteriology	Pasadena
Hans Albert Siewertsen	Meteorology	Bremerton, Washington
Jacques Silbertstein	French	Mexico City, Mexico
² Gene Lois Silverman	English	Los Angeles
Harry Silverstein	Political Science	Los Angeles
² Anita Arlene Simkins	Music	Los Angeles
Barbara Jean Simmons	Psychology	Santa Ana
² Cordia Norma Simmons	General	Riverside
Sheldon Lawrence Simmons	History	Los Angeles
² Samuel Theodore Singer	Political Science	Los Angeles
Myra Shirley Sivy	Sociology	Garden Grove
² Marilyn May Sischo	General	Santa Monica
¹ Margaret Arlene Slusher	Zoölogy	Hawthorne
Georgia Coulter Smith	Music	Los Angeles
Gertrude Eleanor Smith	Latin	Los Angeles
² Glenn Lee Smith	Political Science	Los Angeles
² Harold Wendell Smith	English	Santa Monica
¹ Ivan Eugene Smith	Psychology	Monterey Park
Lila Eleanor Smith	Psychology	Los Angeles
Shirley Jean Smith	History	Beverly Hills
Sybil Margaret Smith	General	Norwalk
David Cannon Snow	Economics	Los Angeles
² Doris Newton Snowden	English	Pine Bluff, Arkansas
Donald Myron Snyder	Economics	Oak Park, Illinois
² Alexander Sokoloff	Zoölogy	Pasadena
Arlyn Lorraine Soli	General	Eldora, Iowa

³ George Howard Somerindyke, Jr.	Sociology	Los Angeles
Richard Churchill Spangler	Psychology	Glendale
Jo Ellen Spaulding	Mathematics	El Cajon
Pagean Marie Spencer	Sociology	Beverly Hills
Joseph Marvin Spiegelman	Psychology	Los Angeles
³ Oswald Joaquin Spier	English	Los Angeles
³ Diane Renee Spilios	Zoölogy	Los Angeles
² John Frederick Spindler	General	Highland, Illinois
Albert Myron Spound	Political Science	Fitchburg, Massachusetts
³ James Patterson Sprigg	Economics	Los Angeles
¹ Donald Norrish Sproul	General	Glendale
¹ John Whitker Stafford	General	Los Angeles
Harold Keith Stager	Geology	Los Angeles
³ Douglas Stahl	General	Los Angeles
¹ Jorgine Wayne Stannard	French	Los Angeles
³ Gordon Everett Stanton	Sociology	Santa Monica
Patricia Cecilia Stanton	General	San Marino
Gladys Stark	General	Los Angeles
Marvin Michael Stark	Bacteriology	Los Angeles
Dale Marriott Steffensen	Botany	Los Angeles
³ George Arthur Steidle	History	Glendale
³ Frances Gertrude Steimel	Bacteriology	Anaheim
Anna Stein	Spanish	New York, New York
Beatrice Blass Steinberg	History	Los Angeles
Betty Jane Steineker	English	Santa Monica
Gamble Morris Stendel	History	Los Angeles
Bess Stern	Music	Los Angeles
² Theodore Fulton Stevens	Political Science	Manhattan Beach
Alice Linnea Stjernquist	General	Los Angeles
² David Samuel Stoller	Mathematics	Los Angeles
² Harold Stone	Psychology	Detroit, Michigan
² Helen Stone	Psychology	Los Angeles
³ William Joseph Storke	Economics	Van Nuys
³ Dudley Simeon Strasburg	English	Los Angeles
¹ Jeannie Harriet Streicher	General	San Diego
Bruce Elwood Strem	Psychology	Compton
³ Martin Strickler	Sociology	Los Angeles
³ John Duane Strock, Jr.	Political Science	Beverly Hills
³ Gloria Ann Stromseth	English	Santa Barbara
Janet Fay Struble	General	Los Angeles
Arnold Stuart	Economics	New York, New York
George Robert Stuart	Mathematics	Los Angeles
Barbara Adele Sturgis	General	Los Angeles
Dorothy Mae Sullivan	General Elementary	Los Angeles
Helen Anne Sullivan	General	Los Angeles
Lawrence Anthony Sullivan	Economics	New York, New York
³ Maj-Britt Sundberg	International Relations	Pasadena
David Wolfe Sussman	History	Los Angeles
Elwin Victor Svenson	Political Science	Simi
Eli Jack Sverdlhoff	Sociology	Los Angeles
Mary Agnes Sweeney	Economics	Los Angeles
Alice Joan Swindler	English	Indio
³ Lucille Jeanette Swonetz	Psychology	Los Angeles
¹ Robert David Syme	General	San Francisco
¹ Abraham Tabachnik	History	Tujunga
Eugene Talbot	Psychology	Bronx, New York
² Richard Warren Taylor	Physics	Los Angeles
Armine Marcelle Tchanguian	English	Ezanville S.O., France
³ Carl William Terwilliger, Jr.	Psychology	Venice
Sylvester Joseph Thomas	Philosophy	Los Angeles
¹ Marie Pauline Thometz	History	Boise, Idaho

Jack Coats Thompson	Meteorology	Glendale
² Margaret Blain Thompson	General	South Pasadena
Mary Estelle Thompson	General	Glendale
Patricia S Thompson	History	San Diego
Joan Marie Thorpe	Political Science	Pasadena
Sam John Tibbitts	Zoölogy	Glendale
¹ Humberto Tiburcio Fernandez	Meteorology	Vera Cruz, Mexico
² Barbara Kathleen Tillman	General	Covina
² Patricia Jane Tillman	General	Los Angeles
² Theodore Carl Tillmanns	Psychology	Los Angeles
Ria Johanna Timmerman	Psychology	Venice
Martha Jane Tinker	Bacteriology	Burbank
Carolyn Jane Todd	Geography	Altadena
² James Alvarez Toledo	Spanish	Azusa
Mary Jayne Tolton	Political Science	Los Angeles
John Quinn Tomkins	Geology	Los Angeles
Anne Tomlinson	History	Los Angeles
² Barbara Elizabeth Toney	General	Los Angeles
² William Carroll Townsend	General	Los Angeles
² Barbara Tracton	Economics	Los Angeles
James Vernon Traughber	General	Los Angeles
² LaFay Doughtie Tremaine	General	Los Angeles
² Richard Shirley Tremaine	Geology	Los Angeles
Clovenne Trigg	English	La Crescenta
Albert Raymond Trottier	French	Bellingham, Massachusetts
² Donalyn Irene Trumbull	Bacteriology	Long Beach
Noel Keiichi Tsunetshi	Bacteriology	Monrovia
Mary Jean Tudor	Mathematics	Altadena
James Eugene Turman	General	Los Angeles
Martha Jane Tyler	English	Riverside
Marion Chambers Ullrich	English	Santa Monica
Robert L. Ullrich	General	Los Angeles
Patricia Winston Updegraff	Psychology	Glendale
² Lillian Faye Upman	Spanish	Oxnard
Mary Louise VanAmburgh	History	Los Angeles
Barbara Anne VanDegrift	General	Los Angeles
² Doris Irene Van Lohn	Psychology	Alhambra
Frances May Van Mourik	General	Alhambra
Eleanor Blanche Vernon	Meteorology	Altadena
Lillian Carol Vidovich	Psychology	Los Angeles
Beverly Joy Vine	Sociology	Los Angeles
² Bill Lander Waddell	Mathematics	Los Angeles
Cassandra Mary Wade	General	San Bernardino
² Kathleen Kalani Wagner	Psychology	Los Angeles
² Ann Jean Walker	Zoölogy	Pasadena
² Jane Clark Walker	General	San Diego
² Richard Lee Wallace	Political Science	Glendale
Jean Marie Walling	General	North Hollywood
² Eugene LeRoy Walter, Jr.	Bacteriology	San Diego
Peter Boyd Walton	Philosophy	Los Angeles
Mary Margaret Wammack	General	Glendale
Eugene Vincent Wanless	Psychology	Springfield, Illinois
Robert Morse Ward	General	Van Nuys
Betty Jane Warter	French	Tacoma, Washington
² Simon Wasserman	General	Los Angeles
Yanaro Anna Watenabe	Zoölogy	Pasadena
² Harlan Russell Watkins	English	Santa Monica
John Nicholas Watry	Political Science	Los Angeles
Carolyn Anne Watts	Spanish	South Pasadena
Alex Wayman	Mathematics	Los Angeles
² Paul Valentino Weaver	Sociology	Los Angeles

Eugene Victor Weiner	Bacteriology	Santa Monica
² Gordon Whitney Weir	Geology	Los Angeles
John Rexall Weir	Psychology	Los Angeles
³ Twyla Yorkshire Weiss	General	Beverly Hills
² George Coleman Welch	Psychology	Los Angeles
² Sondra Wellins	General	Los Angeles
Paul Iselin Wellman, Jr.	English	Kansas
Kathryn Patricia Wells	Zoölogy	Bakersfield
Frederick Lage Wernstedt	Geography	Waldron Island, Washington
³ Harrison Norman West	English	Roanoke, Virginia
Marjorie Ellen West	General	Glendale
Winifred Ann West	English	Los Angeles
² Donald James Westlake	General	Los Angeles
Sheva Benedicta Wetstein	English	Los Angeles
³ Sidney Aaron Wexler	Political Science	Providence, Rhode Island
Barbara Ann Whelan	History	Santa Monica
Albina Portoghese White	History	Los Angeles
¹ Jess Whitehill	Political Science	Los Angeles
³ Margaret Elizabeth Whitman	Psychology	Lawndale
Ralph Edward Whitney, Jr.	Psychology	San Diego
Floyd Eugene Wiancko	General	Rosemead
Thomas Stanley Wides	Economics	Los Angeles
Robert William Wienpahl	Music	Los Angeles
³ Janet Maxwell Wilcox	Political Science	North Hollywood
Margaret Patricia Wiley	History	Los Angeles
² John Sherman Wilkens	Economics	Los Angeles
William Norman Willens	Political Science	New York, New York
Almarene Williams	Geography	Sherman Oaks
³ Dean Lewis Williams	Political Science	San Pedro
Eleanor Brooks Williams	English	Santa Monica
George Charles Williams	Economics	Los Angeles
³ Irving Knight Williams	Physics	Los Angeles
³ Leslie Walter Williams	Political Science	Twin Falls, Idaho
³ Will L Williamson	Political Science	Santa Monica
John Perry Willoughby	Political Science	Rockford, Illinois
³ Ramona M Winans	Geography	Los Angeles
Walter Leroy Winters	Psychology	Glendale
John LeRoy Witzleben	International Relations	Long Beach
Mary Wohlberg	Psychology	Los Angeles
³ Morton Kalmon Wolf	Psychology	Santa Monica
Ernest Ervin Wolfe, Jr.	Political Science	Los Angeles
Gerald Gordon Wolfson	Psychology	Los Angeles
² Gerald Lloyd Wondra	English	Los Angeles
³ Betty Ann Wood	History	Los Angeles
Helen Wood	Psychology	Inglewood
Kenneth Graham Wood	Sociology	Los Angeles
³ Janet Aileen Woods	Spanish	Los Angeles
² Robert Clayton Woolsey	General	Los Angeles
³ Albert Don Wortham	Sociology	Los Angeles
³ Nancy Lee Wright	General	Los Angeles
Beatrice Linsley Wyant	Political Science	Los Angeles
Donna Louise Wyatt	English	Los Angeles
² William John Wynn	General	Los Angeles
Frank Redmond Wynne	Political Science	Los Angeles
Miriam Ruth Yaffe	Sociology	Los Angeles
³ Mitsuko Yakura	Bacteriology	Los Angeles
Julia Radford Yanquell	General	Coronado
² Mary Joan Yates	French	Los Angeles
³ Doris Westenrider Young	Sociology	Long Beach
Leonard Weeks Young	General	St. Petersburg, Florida
Lorelle Zacky	English	Los Angeles

² Irene Elizabeth Zadourian	General	Los Angeles
Anna Antoinette Zaninovich	General	Porterville
³ Julia Barbara Zelenka	Sociology	Santa Monica
Betty Helene Zelkowitz	Psychology	Los Angeles
³ George Woodruff Zent, Jr.	Political Science	Los Angeles
¹ Gloria Gladys Zent	General	Los Angeles
David Grayson Zimmerman	Geography	Los Angeles
³ Charles Nathan Zussman	Psychology	Los Angeles
Adela vonBibra Zwart	Geography	Beverly Hills

COLLEGE OF LETTERS AND SCIENCE

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Robert Edmond Brooks	Applied Physics	Los Angeles
Crawford Henry Brown	Chemistry	Altadena
³ Robert Randolph Brown	Applied Physics	Pacific Palisades
³ Welton Robert Burney	Chemistry	Los Angeles
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Ronny H Cortes	Chemistry	Hawthorne
Frank William Cranz	Chemistry	Glendale
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Alfred Deutsch	Chemistry	Santa Monica
¹ Richard Martin Diamond	Chemistry	Los Angeles
Howard Marvin Dintzis	Chemistry	Los Angeles
Stanley Earl Doolittle	Chemistry	Compton
³ John Malcolm Dunham	Chemistry	Long Beach
³ Winfred Ferguson Dunn	Chemistry	Los Angeles
³ Frank E Dyer	Chemistry	Los Angeles
Robert Leslie Eichelberger	Chemistry	Los Angeles
² Sam Epstein	Chemistry	Los Angeles
James Lee Forstner	Chemistry	Canoga Park
Sydney Clark Furman	Chemistry	Los Angeles
Harold Golbin	Chemistry	Los Angeles
Dexter Stanley Goldman	Chemistry	Los Angeles
³ Robert Arthur Goodding	Chemistry	Pasadena
¹ Stanley Turner Gustin	Chemistry	Los Angeles
Tsuneo Hiyake	Chemistry	Los Angeles
Merle Gordon Hunt	Chemistry	Los Angeles
George Masao Ichien	Chemistry	Los Angeles
Edwin Joseph Johnston	Chemistry	Los Angeles
Robert Eugene Kay	Chemistry	Los Angeles
¹ William Hazard Kimberly	Chemistry	Pasadena
Robert Bruce Langford	Chemistry	Barstow
Albert Louis Limenes	Chemistry	Chicago, Illinois
³ Harold Wayne McBride	Chemistry	Bakersfield
William Armstrong McCormick	Chemistry	Glendale
Howard Robert McCreery	Chemistry	Los Angeles
John Kenneth Manhart	Applied Physics	Sacramento
Arnold Miller	Chemistry	Los Angeles
Dudley Grant Miller	Chemistry	Santa Barbara
Mary Louise Milman	Chemistry	Reseda
³ Frederick Phillip Minnich	Chemistry	Yuma, Arizona
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John Ernest Nevins, Jr.	Applied Physics	Los Angeles
³ Clyde Eugene Osborne, Jr.	Chemistry	Los Angeles

³ Senta Johanna Osoling.....	Chemistry	Los Angeles
Solomon Oziel	Chemistry	Pacoima
John Edvin Peterson.....	Applied Physics	Los Angeles
James Albin Pitton.....	Chemistry	Los Angeles
Richard Michael Roberts.....	Chemistry	Los Angeles
³ Bernard Francis Schmidt.....	Applied Physics	Los Angeles
Carleton Barker Shay.....	Chemistry	Burbank
³ Walter Irving Shevell.....	Applied Physics	New York, New York
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² Edgar Snow	Applied Physics	Los Angeles
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¹ Leonard Keith Sparks, Jr.....	Chemistry	Los Angeles
Harley Ward Stegman.....	Chemistry	Los Angeles
Gunther Steinberg	Chemistry	Los Angeles
² Donald Franklin Steiner.....	Chemistry	Glendale
James Constantine Sternberg.....	Chemistry	Long Beach
¹ Kazuo Horace Takemura.....	Chemistry	Los Angeles
Howard Allan Tewes.....	Chemistry	Glendale
James Fred Thomasson.....	Chemistry	Glendale
Ernest Richard Toon.....	Chemistry	San Fernando
³ Mary Althea Wanlass.....	Chemistry	Los Angeles
² William Jack Wasserman.....	Chemistry	Los Angeles
Hideo Watanabe	Chemistry	Glendale
Harold Gilbert Weiss.....	Chemistry	Santa Monica
Laurence Henri Withington.....	Chemistry	Altadena
³ Dean Arthur Young.....	Chemistry	Upland
Allan Zalkin.....	Chemistry	Los Angeles
³ Ernest Justin Zeilberger.....	Chemistry	Los Angeles
³ Paul Edmond Zigman.....	Chemistry	Los Angeles
³ Richard Zuckerman.....	Chemistry	Los Angeles

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Gordon Russell Archibald.....	Horticulture	Colton
Jacob Aronowicz	Horticulture	Tel-Aviv, Israel
³ David Roland Barnhart.....	Horticulture	Los Angeles
Charles Grant Baughn.....	Horticulture	North Hollywood
Alfred Wallace Bone, Jr.....	Horticulture	Glendale
³ Robert Arthur Bowen.....	Horticulture	Carpinteria
Leon Erlin	Agricultural Education	Los Angeles
Robert Barkham Garner.....	Horticulture	South Gate
Stanley Michael Gartler.....	Subtropical Horticulture	Los Angeles
Allen Crosby Hardison.....	Subtropical Horticulture	Fillmore
Harvey Hartley Hartwig.....	Horticulture	Burbank
³ Edward Gerald Herrmann.....	Horticulture	Los Angeles
Dehard Bruce Johnson.....	Horticulture	Turlock
Halford Earle Kelsey.....	Horticulture	Santa Paula
William Burdick Mulholland.....	Horticulture	Van Nuys
Donald E Pierotti.....	Horticulture	Placentia
³ Harold Theodore Pyfrom.....	Horticulture	Van Nuys
Fred George Rosenbaum, Jr.....	Horticulture	Santa Ana
Jack Noel Stevens.....	Horticulture	Alhambra
Theodore Jameson Todd.....	Subtropical Horticulture	Corona
³ Bruce Wingfield Van Dyke.....	Horticulture	Fallbrook

COLLEGE OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

Nancy Elizabeth Abbott	Accounting	Redlands
Arlyn Loraine Adams	General Business	Montebello
Alice Adelhanof	Office Management	Van Nuys
² Donald Alexander	Management and Industry	North Hollywood
² Harold Fred Allen, Jr.	Marketing	Phoenix, Arizona
David Alpert	Accounting	Los Angeles
Robert Hjalmar Anderson	Accounting	Redlands
¹ Charles Richard Anthony	Management and Industry	San Diego
² Donald Philip Ashley	Accounting	Long Beach
² Norbert Theo Auerbach	General Business	New York, New York
Burt Simm Avedon	Management and Industry	Los Angeles
Marlow Baar	Accounting	Los Angeles
Philemon John Baddeley, Jr.	Accounting	Los Angeles
² Harvey Bruce Bagley, Jr.	General Business	Santa Monica
Bert Benjamin Baker	Marketing	Los Angeles
² Arthur Balensiefer	Marketing	Los Angeles
² Melbourne Naylor Banowitz	Accounting	Los Angeles
Louis Barak	Accounting	Los Angeles
² Norman Bradley Barker	Accounting	Los Angeles
Donald Bernard Baron	Marketing	Beverly Hills
² Sylvia Rubinstein Barrett	General Business	Los Angeles
Edward Arthur Basham	Management and Industry	Santa Barbara
Gordon O Baakin	Marketing	Albany, New York
¹ Alvin Kay Bates	Accounting	Nampa, Idaho
Frank Joseph Bates	Accounting	Los Angeles
² Thomas Joseph Baumbach	Marketing	Chicago, Illinois
Douglas Mellor Beamish, Jr.	Management and Industry	Los Angeles
Bertram Hancock Behrens	Accounting	Milwaukee, Wisconsin
² Paul Bernard Behm	Accounting	Los Angeles
² Alyn Braden Bell	Marketing	San Bernardino
² Eugene Weston Bell	Accounting	San Bernardino
² Lionel Bell	Marketing	Los Angeles
Robert Fleming Bernard	Accounting	Tarzana
Nathan Bessin	Accounting	Los Angeles
Robert Clinton Black	Accounting	Drew, Mississippi
² Lloyd Emery Blanpied, Jr.	Marketing	Los Angeles
Jean Edith Bloomberg	Accounting	Los Angeles
² William Blozan	Marketing	Los Angeles
Ruth Ann Bodine	Accounting	Buellton
Jack Harold Boggust	Banking and Finance	Brawley
² Norton Sterling Bolin	Marketing	Long Beach
² Virgil Wayne Bowman	Accounting	King City
Deigh David Boyd	Banking and Finance	Santa Monica
Joseph Romney Brain	Accounting	Van Nuys
² Frederick Warde Brand, Jr.	Banking and Finance	Whittier
John Frederick Brandt	Accounting	Los Angeles
² Harley Dale Brannan	Banking and Finance	Santa Barbara
George Edward Breeding	Marketing	Los Angeles
John Frederick Bridges	Banking and Finance	Dedham, Massachusetts
² Eugene Robert Bronstein	Marketing	Los Angeles
¹ Gerald Morton Bronstein	Accounting	Los Angeles
¹ Robert Franklin Brooks	Marketing	Sacramento
Irvin Milton Broudy	General Business	Long Beach
² Hirsh Abe Brown	Accounting	Santa Monica
² William Wagner Brown	Marketing	Beverly Hills
Lloyd Dean Brundage	Accounting	Los Angeles
Seymour Eugene Bruskoff	Accounting	Los Angeles
² William Henry Bryan	Marketing	Glendale

³ Irving Buchalter	Accounting	Los Angeles
Vern Robert Buelow	Office Management	Los Angeles
³ Keith Edwin Bulkley	Marketing	Los Angeles
² Howard Reeve Bullen, Jr.	General Business	Los Angeles
³ Marion Prosper Bullen	Management and Industry	Los Angeles
Alex Earl Burleigh	Accounting	Lincoln, Nebraska
³ Arley Thomas Butler	Management and Industry	Compton
Elmer Ellsworth Callen, Jr.	Banking and Finance	San Mateo
Alvin Calof	General Business	Winnipeg, Manitoba, Canada
William Camil	Accounting	Los Angeles
Sheldon Roland Caplow	Marketing	Los Angeles
Roger Ellsworth Carpenter	Accounting	Los Angeles
³ Edwin Lee Carter, Jr.	Accounting	Los Angeles
² Robert William Cary	Accounting	Inglewood
John Wallace Cassatt	Marketing	Los Angeles
William Lucius Casselman	Marketing	Glendale
³ Raymond Albert Cassidy	Accounting	Los Angeles
Betty Arlin Chaney	Management and Industry	Tulsa, Oklahoma
³ David Fairbrother Charles	Marketing	Los Angeles
³ Donald Norman Charleson	General Business	La Jolla
Adrian Emile Chavannes	Accounting	Los Angeles
Wendell Maurice Childs	Accounting	Glendale
Norman Christenholz	Accounting	Los Angeles
Richard Arthur Christensen	Accounting	Los Angeles
³ Roy Joseph Cibulk	Marketing	Los Angeles
² Arthur Leonard Clark	Marketing	Los Angeles
John Durward Clark	Management and Industry	Los Angeles
³ Quentin Lombard Clark	Marketing	Los Angeles
³ Orville Oliver Clarke	Banking and Finance	Los Angeles
Ralph Mark Clarke	Marketing	Los Angeles
¹ Edward Harrison Clement	Management and Industry	San Diego
³ Charles Lamont Clevenger	Management and Industry	What Cheer, Iowa
Lloyd Thiel Cobb	Marketing	Phoenix, Arizona
Harry Morris Cochran	Accounting	Los Angeles
³ Lynn Roy Cochran	Marketing	San Leandro
Daniel H Coffelt	Accounting	Los Angeles
³ Harvey Sidney Cohen	Accounting	Milwaukee, Wisconsin
Leonard Cohen	Accounting	Los Angeles
Marvin Cohen	Marketing	Los Angeles
² Alvin Irwin Cohn	Marketing	Wilmington
³ Maurice Jay Cohn	Marketing	Los Angeles
¹ George Landon Collier	Management and Industry	Upland
Edward Frank Collins	Accounting	Long Beach
³ Richard Commins	Marketing	Los Angeles
Donald Robert Conlee	Accounting	Santa Monica
³ John Hodson Connors	Marketing	Los Angeles
Lawrence Robert Cooper	General Business	Los Angeles
Robert Joseph Corey	Marketing	Los Angeles
Jack Courtney	General Business	San Diego
³ Stephen Patrick Cowie	Banking and Finance	Minneapolis, Minnesota
¹ Robert Loyal Cox	Marketing	Van Nuys
William Alexander Craig	Marketing	Los Angeles
³ Richard John Crescenti	General Business	Altadena
Bradley King Criley	Management and Industry	Los Angeles
² George Saunders Crommelin	Management and Industry	Santa Monica
³ Bernard Rebman Crowell	Management and Industry	La Crescenta
³ John Cole Curtin	Banking and Finance	Los Angeles
William Jarrett Cutbirth, Jr.	General Business	Inglewood
Robert Harry Daley	Accounting	Van Nuys
Raymond Vern Darby, Jr.	Banking and Finance	Inglewood
Burton Eugene Davidson	Accounting	Los Angeles

¹ Jack Richard Davidson	General Business	Glendale
³ Russell Marion Davis	Accounting	Los Angeles
³ Stanley Dwight Davis	Accounting	Sherman Oaks
Stephen Derkach	Management and Industry	Lawndale
³ Harry Lee Dickinson, Jr.	Accounting	Los Angeles
Donna Mae Divine	Office Management	Monterey Park
Charles Edward Dixon, Jr.	Accounting	Verdugo City
² Ivan Donaldson	Accounting	Los Angeles
Oscar George Donoian	General Business	Los Angeles
³ Peter Doomanis	Banking and Finance	Los Angeles
³ Paul Alexander Dorff	Marketing	Los Angeles
³ Wilma Dornan	Office Management	Escondido
³ Joseph Drucker	Accounting	Los Angeles
³ Winthrop William Duarte	Marketing	Los Angeles
³ Thomas Albert Duddleson	Management and Industry	Los Angeles
James Gordon Duff	General Business	Los Angeles
Earl Kenneth Duke, Jr.	Accounting	Los Angeles
³ Garrettson Dulin	Banking and Finance	Pasadena
Paul Whitney Dundore	Marketing	Riverside
William Wright Dundore	Accounting	Santa Monica
Eugene James Dunn	Management and Industry	Santa Ana
³ Robert Charles Edmunds	Accounting	Santa Monica
³ Joseph Lloyd Eichenberg	Marketing	San Bernardino
³ David Einsiedler	Accounting	Los Angeles
³ Alfred Cadman Elliott	Management and Industry	Los Angeles
¹ William McLeod Emery	General Business	Pomona
Morris Engel	Accounting	Los Angeles
² Joseph Sigfried Engler	Accounting	Los Angeles
Robert Bruce Errett	Management and Industry	Los Angeles
Lester Dean Estrin	Marketing	Los Angeles
Raymond Edward Eudy	Management and Industry	Burbank
James Suddath Evans	General Business	Santa Monica
² David Charles Ewing	Accounting	Los Angeles
¹ William Henry Eyer, Jr.	Management and Industry	Encino
Constance Lucille Farnham	Marketing	Los Angeles
³ Thomas Jesse Fears	Marketing	Los Angeles
³ Henrich Erwin Fikse	Accounting	Bellflower
Albert Edgar Fink	Accounting	Cleveland, Ohio
² Alvin Fink	Marketing	Culver City
² Mendel E. Fink	General Business	Los Angeles
Jane Clarke Firminger	General Business	Beverly Hills
² Jack Benedict Fischer	Marketing	Houston, Texas
¹ Albert Fisher	General Business	New York, New York
³ James Edward Fitzgibbon	Accounting	Menasha, Wisconsin
³ Frank Foellmer	General Business	Los Angeles
George Tempest Foote	Accounting	Van Nuys
Donald Robert Foppiano	Management and Industry	San Mateo
² Gordon Harrison Forshner	Management and Industry	Los Angeles
³ Robert Snyder Foster	Marketing	Los Angeles
³ Beryl Cleo Fowler	Marketing	Los Angeles
Lawrence Philip Fraiberg	Marketing	Harrisburg, Pennsylvania
Peter Frank	Marketing	Beverly Hills
¹ Charles Henry Franklin, Jr.	Accounting	Fresno
³ Donald Jean Frary	Banking and Finance	Los Angeles
Frank K Freriks	Marketing	Altadena
¹ Albert Friedman	Accounting	Los Angeles
³ Alvin Donald Friedman	Marketing	Los Angeles
³ Ruth Nacman Friedman	Marketing	Los Angeles
² Robert Bliss Friedson	Marketing	Los Angeles
John Ridgeley Fullerton	Marketing	Glendale
³ John Henderson Fulton, Jr.	Accounting	Long Beach

Eleanor Fung	Accounting	Los Angeles
Norman Raymond Gabor	Accounting	Los Angeles
¹ Paul Gader	Accounting	Brooklyn, New York
Kenneth Harold Gallagher	Banking and Finance	San Diego
Morton Neuman Gelpman	Banking and Finance	Los Angeles
³ Neal Morrison Gertz	Banking and Finance	Chicago, Illinois
³ Robert Dale Gibson	Marketing	Los Angeles
¹ Paul Nathaniel Gilbert	Accounting	Los Angeles
³ Robert H Glick	General Business	Los Angeles
Richard Alan Goddard	Accounting	Pasadena
³ Harold Lawrence Goldman	Accounting	Los Angeles
Ralph Norman Goldwyn	Accounting	Los Angeles
³ Howard Harold Good	Marketing	Saugus
¹ Richard Melvin Gorow	Marketing	Richmond
Seymour Louis Gossman	Marketing	St. Louis, Missouri
³ Howard Maurice Gough	Management and Industry	Pasadena
³ Paul Irving Gould	Accounting	Los Angeles
Edward Dutton Graf	Marketing	Los Angeles
Manly August Grafund	Accounting	Moline, Illinois
Donald Frederick Grannis	Banking and Finance	San Francisco
³ Rudy Greer	Marketing	Los Angeles
Samuel Gordon Gregg	Banking and Finance	Los Angeles
³ William Weston Gregory	Accounting	Glendale
Robert Daniel Griswold	Marketing	Los Angeles
Franklin James Groman	Marketing	Santa Monica
Lowell Howard Gronich	Marketing	Los Angeles
³ Gersen Leon Grosmark	Accounting	St. Paul, Minnesota
Earl Bernard Gross	Accounting	Los Angeles
² Allen Irwin Grossman	Marketing	Los Angeles
Clarence Charles Haack	Marketing	St. Louis, Missouri
³ Florence Lane Hackett	General Business	Santa Monica
Lyle Chester Hall	Accounting	Lincoln, Nebraska
William Upshur Handy, Jr.	Management and Industry	Los Angeles
Walter Buckner Hanner	Marketing	Beverly Hills
John Nebeling Hansen	Marketing	San Francisco
¹ Shirley Lee Hardy	Marketing	Bell
² Stanley Frank Harkins	General Business	Los Angeles
³ Thomas Steele Harms	Marketing	Beverly Hills
Ray Irwin Harris	Management and Industry	Los Angeles
Richard Miles Harris	Accounting	San Gabriel
³ James Arthur Hart	Accounting	Los Angeles
³ Louie Joseph Hasson	Accounting	Los Angeles
³ Stephen Cleaves Hatch	Accounting	Northridge
³ Donald Floyd Hawkins	Marketing	Tustin
³ Willard Joseph Hayes	Management and Industry	Los Angeles
Richard Walters Haynes	Management and Industry	Glendale
³ George William Henderson	Marketing	Beverly Hills
² James Edward Herrin III	Accounting	Los Angeles
¹ Ernest William Herrmann, Jr.	Management and Industry	San Marino
Stephen House Herron	Banking and Finance	Los Angeles
Norman Joseph Herzberg	Management and Industry	Los Angeles
Gerald Herzig	Accounting	Los Angeles
³ Theresa Heyman	Accounting	Van Nuys
² Lloyd George Hild	Marketing	Brady, Nebraska
¹ Fred Millard Hilker	Management and Industry	Beverly Hills
³ Robert Arthur Hilton	Accounting	Glendale
³ Gerald Lawrence Himmelstein	Marketing	Los Angeles
Henry Lee Hinman	General Business	Van Nuys
² Paul Elliott Hissey	Marketing	Wilmington
Gloria Hochsinger	Office Management	Chicago, Illinois
³ Clyde Stansfield Hodder	Accounting	Glendale

Kenneth Carlton Hogan	Accounting	Los Angeles
Clare Lincoln Hoke	General Business	Redondo Beach
Francis Veeder Holmes	General Business	Berkeley
William Leigh Holmes	Office Management	Los Angeles
Gerald Frederick Holt	Accounting	Bell
• Charles Guy Honnell, Jr.	Accounting	Visalia
Orville Lee Horn	General Business	Tucson, Arizona
• Sidney Horowitz	Accounting	Jersey City, New Jersey
• William Lee Horter	Accounting	Los Angeles
• Lawrence Ernest Houk	Accounting	Los Angeles
Norman Benjamin Houston	Banking and Finance	Los Angeles
• Henry Lester Howard	Marketing	Los Angeles
• Joseph Leon Howard	Marketing	Bakersfield
• James Menefee Huber	Marketing	Los Angeles
Cleland Noble Hughes, Jr.	Banking and Finance	Kansas City, Missouri
• Edgar Harrison Hughson	Banking and Finance	Los Angeles
Solon Arnold Humble	Accounting	Los Angeles
• James Risque Hutter	Accounting	Los Angeles
Joseph Hyman	Accounting	Los Angeles
• Sydney Milton Irmas, Jr.	General Business	Los Angeles
Joseph David Ivans	General Business	Tucson, Arizona
• Cyril Jean Ivory, Jr.	Banking and Finance	Mt. Lebanon, Pennsylvania
• Naomi Iwasaki	Marketing	Los Angeles
Jasper Peter Jacques	Management and Industry	San Francisco
Edward James Janos	Accounting	Los Angeles
Marie Ann Jauch	Marketing	San Francisco
James Edward Jewett	Marketing	Los Angeles
• Warren LeRoy Johansen	Banking and Finance	Loleta
Art Laroy Johnson	General Business	Santa Monica
Bernard James Johnson	Banking and Finance	Pomona
Laurence Taylor Johnson	General Business	Detroit Lakes, Minnesota
Garth Barksdale Jones	Marketing	Los Angeles
• Kenneth Kahn	Management and Industry	Los Angeles
Meyer Kaizer	Accounting	Los Angeles
Herbert George Kaplan	Marketing	Trenton, New Jersey
• Aaron David Kay	General Business	Los Angeles
• Alexander Burton Keel	Accounting	Hawthorne
Lee Walter Kelso, Jr.	Marketing	Panama City, Panama
Margie Lou Kerr	Office Management	Preston, Kansas
• Fagie King	Marketing	San Fernando
• Paul Edwin Kittleston	Management and Industry	Temple City
Leonard Nick Klassen	General Business	Los Angeles
Orlin Edward Klaus	Accounting	Breda, Iowa
Sidney Klein	Management and Industry	New York, New York
• James Herbert Knecht, Jr.	Banking and Finance	Beverly Hills
• Herbert Arnold Kraft	Accounting	Los Angeles
William Dean Kreile	Accounting	Huntington Park
Frances Ardelia Kreiling	Accounting	Milwaukee, Wisconsin
Thomas Butler Kresge	Banking and Finance	Butler, Pennsylvania
Grover Gilbert Krieger, Jr.	Accounting	Long Beach
• Alvin Moe Kurtzman	Accounting	Los Angeles
• Raymond Kurtzman	Marketing	Los Angeles
• Dean Pattison LaField	Marketing	Beverly Hills
Robert Charles LaFrance	Office Management	Los Angeles
Cassey Oran Landon	Accounting	Taft
• Holly Sylvester Langer	General Business	Great Bend, Kansas
Gordon Raymond Larson	Marketing	North Hollywood
Glenn Maxwell Lashbrook	Accounting	Los Angeles
Donald Robertson Lawrenz	General Business	Burbank
• Raymond Edgar Leake	Marketing	Torrance
James Norman Leaken	Marketing	Los Angeles

³ Milton Eugene Lee	Accounting	Lynwood
³ James Shaffer Leiby	Accounting	Tiffin, Ohio
Robert Leonard, Jr.	General Business	Los Angeles
² Yvette Kaden Lerner	Office Management	Los Angeles
Joan de Leveille	Office Management	Pasadena
Richard Marvin Levin	Accounting	Los Angeles
Edwin Levy	Accounting	Los Angeles
Israel Aaron Levy	Accounting	Los Angeles
³ Herman Lewin	Accounting	San Francisco
¹ Arthur Alexander Lewis	Accounting	Los Angeles
³ James Lewis	Marketing	Los Angeles
Dorothy May Lexau	Accounting	Los Angeles
Homer Blix Lind	Management and Industry	Los Angeles
³ James Daryl Lippincott	General Business	Bell
³ Frederick Charles Loewy	Marketing	Los Angeles
³ Robert Fae Loffer	Management and Industry	North Hollywood
Jack Lopin	Accounting	Los Angeles
John Edwin Lotspiech	Marketing	Los Angeles
Richard Forest Lovejoy	General Business	Glendale
Alvin Willard Low	Accounting	Los Angeles
Walter Benjamin Lower, Jr.	Banking and Finance	Glendale
³ Paul Clement Lukens	Accounting	Los Angeles
³ Arthur David Lyen, Jr.	Accounting	Los Angeles
³ Corey Ellwood Lyon	Accounting	Burbank
³ Barbara Pearl McAllister	Office Management	Glendale
¹ Lemmie Levarn McClain	Accounting	Taft
Richard Lawrence McClain	Accounting	Los Angeles
³ William Laurence McCoy	Accounting	Venice
Robert H McElwain	Accounting	Santa Barbara
Paul Milton McEwan	Marketing	Colton
Oliver David McIntire	Marketing	Los Angeles
³ Charles George Maggi, Jr.	General Business	Live Oak
Emil Magliocco	Banking and Finance	Glendale
Harold Alexander Malmborg	Marketing	St. Paul, Minnesota
¹ Frank John Manaut	Accounting	Alhambra
³ Leona Mandelbaum	Accounting	Los Angeles
³ Farley Gillis Mann	Marketing	Los Angeles
Robert Gordon Mann	Accounting	Los Angeles
³ Murray Marks	Accounting	Los Angeles
Eugene D Marquart	Marketing	Lompoc
Jimmie Wayne Marrs	Marketing	Los Angeles
³ Thomas Joseph Marshall	Management and Industry	Little Rock, Arkansas
Glenn Howell Martin	General Business	Long Beach
² Robert Haskell Martin	Marketing	Hermosa Beach
³ Roberta Yvonne Martin	Office Management	Los Angeles
Yvette Rita Martineau	Accounting	Long Beach
Gerald Herbert Maschan	Marketing	Los Angeles
³ Raymond Joseph Mason	Accounting	Los Angeles
David Massoth	Accounting	Los Angeles
³ Albert George Matalany	Marketing	Davis
³ John Thomas Matthews	Marketing	Pasadena
³ Roland Edward Mattson	Marketing	Downey
Albert Leland Maxwell	Accounting	Long Beach
² Mitchell Arthur Mekjian	Marketing	Fresno
³ David Menkes	Accounting	Los Angeles
² Wilford Jonsson Merrill	Accounting	Beverly Hills
³ Leon Jacob Meyer	General Business	Waukegan, Illinois
Marjorie Ruth Meyer	Marketing	Washington, Pennsylvania
³ Seymour Leonard Meyer	Marketing	Los Angeles
James Mihos	Marketing	Los Angeles
¹ Adolf Philip Miller	Marketing	San Bernardino

¹ Alwin Vermar Miller	Office Management	Los Angeles
² Byron Rykoff Miller	Accounting	Beverly Hills
Harold John Miller	Marketing	Waterloo, Iowa
James Alton Miller	Marketing	Los Angeles
James Jackson Millett, Jr.	Marketing	Culver City
² Lee Roy Milton, Jr.	Marketing	Los Angeles
² Leicester Holmes Mingins	Marketing	Los Angeles
² Alice Ione Mitchel	Office Management	Van Nuys
² James Henry Mitchell III	Marketing	Beverly Hills
² Lee Mitchell	Marketing	Los Angeles
² Hugh Montgomery, Jr.	Management and Industry	Los Angeles
Elmer Duncan Moore	Accounting	Los Angeles
Erwin Mooradian	Marketing	Los Angeles
Marian Virginia Moore	Marketing	Los Angeles
² Vernon Earl Morris	Banking and Finance	Los Angeles
Robert Lewis Mott	Marketing	Arcadia
² Moritaka Nakashima	Marketing	Los Angeles
¹ Patricia Lucille Nale	Accounting	Glendale
Justin Paul Nathan	Management and Industry	Los Angeles
Sigurd Harold Ness	Marketing	Los Angeles
² Donnell Wheeler Newman	Marketing	San Pedro
¹ Patricia Jean Noonan	General Business	Glendale
¹ Stuart Philip Norby	Accounting	Los Angeles
Leslie Woodrow Nordgren	General Business	Los Angeles
² Theodore Norton	Management and Industry	Los Angeles
² William Lyle Nowak	Accounting	La Crosse, Wisconsin
² Roy Theodore Nylander	Marketing	Los Angeles
Orval Owen Oliver	General Business	Glendale
² William Ray Olmsted	Marketing	Los Angeles
² Richard Winch Olson	General Business	Altadena
Royal Hargrave Osterhout	Accounting	Huntington Park
June Mae Othmer	Marketing	Los Angeles
² Robert Arthur Otto	General Business	Riverside
² Thomas Oughton	Marketing	Los Angeles
² Robert Earl Overtree	Marketing	Los Angeles
Robert Lee Owens	Marketing	Bartlesville, Oklahoma
Melvin Arthur Pachter	Marketing	Los Angeles
² Don Paul	Marketing	Los Angeles
Charles C Pearson	Banking and Finance	Los Angeles
Mac Marion Pedersen	Management and Industry	Beverly Hills
Natalia Priske Peery	Office Management	Glendale
Ronald Shelmerdine Perkins	General Business	Santa Monica
² Richard Stoddard Perry	Management and Industry	Los Angeles
² Dorothy Jane Peterson	Office Management	Los Angeles
¹ Ruth Jane Pettingill	Office Management	Seal Beach
Gordon William Phillips	Management and Industry	Olean, New York
Herbert Myer Piltzer	Management and Industry	Los Angeles
² Genevieve E Pirrung	Accounting	Los Angeles
Norman Plotkin	Accounting	Brooklyn, New York
¹ Jacqueline Kathryn Plummer	Marketing	Randsburg
² Norman Polsky	General Business	Los Angeles
² Richard Malcolm Potts	Accounting	Glendale
Lawrence Michael Powell	Marketing	Los Angeles
² Frank Dean Price	Marketing	Pasadena
² James Price	Accounting	Westminster
John Priest	Management and Industry	Los Angeles
Milton Scott Pruyn	Management and Industry	Los Angeles
² Harvey Daniel Pulvers	Accounting	Los Angeles
James Richard Purvis	Marketing	Beverly Hills
Warren Lee Pyne	Marketing	Los Angeles
Doris Evelyn Raef	Management and Industry	Dallas, Texas

³ Paul Anthony Randolph	Management and Industry	Los Angeles
Martin Elliot Reals	Marketing	Brooklyn, New York
Carl Max Reed	Marketing	Long Beach
³ Edward Jack Reichler	Accounting	Los Angeles
Benjamin Robert Reitzes	Accounting	Los Angeles
Joseph Renkow	Marketing	Los Angeles
³ Joseph Anthony Reres	Marketing	Kansas City, Missouri
³ William Walter Reynolds	General Business	Glendale
³ Robert James Rhea	General Business	Los Angeles
³ Ray Alan Rhoads	Accounting	Los Angeles
Richard Walden Rhodes	Marketing	San Diego
Jared Hobbs Richter	General Business	Santa Barbara
Elbert Leo Riddle	Marketing	Santa Monica
³ Donald Lewis Riggs	Accounting	Los Angeles
² Eugene Alexander Rittenhouse	Management and Industry	Los Angeles
Don Luckey Robertson	Marketing	Los Angeles
³ Sherman Monte Robinson	Accounting	San Fernando
Arthur Leonard Rockoff	Accounting	Chicago, Illinois
² Leon Rodman	Accounting	Los Angeles
John Adams Roesch	Marketing	Beverly Hills
Burt Newman Rogers	Marketing	Beverly Hills
³ Rhoda Edith Roman	Marketing	Beverly Hills
³ Jack Irwin Rosen	Accounting	Los Angeles
Oscar Rosen	Accounting	Los Angeles
³ Gerald Max Rosenberg	Accounting	Los Angeles
Nancy Lou Rosenberg	Marketing	San Luis Obispo
Elliot Rosman	Accounting	Los Angeles
³ Joseph Charles Ross, Jr.	Management and Industry	Los Angeles
³ Calvin Joseph Rossi	General Business	Santa Barbara
³ Curtis Eugene Rossiter	Marketing	Los Angeles
² Robert Edward Rouault	Banking and Finance	Los Angeles
Harold David Rouse	Management and Industry	Los Angeles
³ William James Rowland	Marketing	Los Angeles
² Myles Stanton Rudolph	Accounting	Los Angeles
³ William Donald Sachau	Accounting	Azusa
Loren Paul Sagon	Marketing	Los Angeles
Sandie Sumie Saito	General Business	Los Angeles
Arnold Cedric Salisbury, Jr.	Accounting	El Monte
James Mabry Salisbury	Banking and Finance	Los Angeles
³ Dario Robert Sanchez, Jr.	General Business	Los Angeles
Donald Arthur Sandison	Accounting	Glendale
³ James Bernard Saunders	Accounting	Los Angeles
Richard Merrill Scamman	Accounting	Los Angeles
³ Helen Jeanne Schaafsma	Marketing	Pasadena
Robert Alexander Schlesinger	Accounting	Beverly Hills
³ Raymond Stanley Schmidt	Banking and Finance	Lorraine, Kansas
Warren Edward Schmielt	Marketing	North Hollywood
Semon Schneider	Accounting	South Gate
Alan Berman Schnitzer	Management and Industry	Beverly Hills
² Herman Louis Schreiner	Management and Industry	Santa Monica
³ Charles Alexander Schulman	Marketing	Los Angeles
Lenard Ferdinand Schweitzer	Marketing	San Bernardino
³ Clyde Franklyn Seek	Accounting	Long Beach
³ Henry Shahan	Management and Industry	Glendale
³ Sumner Lee Sharfman	Marketing	Worcester, Massachusetts
Burton Arthur Shaw	Management and Industry	Santa Barbara
³ Henry Merle Sheller, Jr.	Management and Industry	Hynes
Jean Louise Shervik	Accounting	Montrose
¹ Bertram James Sherwood	Marketing	Bellaire, Ohio
³ George Moulton Shettko	Marketing	Los Angeles
³ Hideo Shigekawa	Marketing	Anaheim

² Clare Franklin Short, Jr.	Management and Industry	Los Angeles
William John Simms, Jr.	Office Management	Gardena
² Henry Buhl Simpson, Jr.	Management and Industry	Monrovia
² John Alexander Simpson	General Business	Lone Pine
² Earle Clifford Smith	Accounting	Burbank
² Gordon Allen Smith	Banking and Finance	Los Angeles
² James Harrison Smith	Management and Industry	Stockton
Lawrence Wade Smith	Accounting	Santa Monica
² Robert Glenn Smith	Management and Industry	Los Angeles
Stuart Wilton Smith	Marketing	Beverly Hills
Theodore Joseph Smith	Banking and Finance	Los Angeles
¹ Bernard Charles Solomon	Accounting	Los Angeles
Norton Allen Soraby	Marketing	Mexico City, Mexico
Benjamin Lawrence Spain	Marketing	Fillmore
Simon Spero	Accounting	Los Angeles
² Rodney Searle Sprigg, Jr.	General Business	Los Angeles
Joseph Stabler	Accounting	Los Angeles
² Harold H Starr	Marketing	Los Angeles
Jesse Eldred Stay	Management and Industry	Huntington Park
² Nathan Isidore Stein	Accounting	Los Angeles
² Howard Cyril Steinberg	Accounting	Los Angeles
² Roy David Sternberg	Accounting	Los Angeles
Bernard Stock	Accounting	Venice
Irving Stoller	Marketing	Beverly Hills
¹ Samuel Louis Stone	Accounting	Beverly Hills
Robert Francis Stott	Marketing	Jackson, Michigan
Thomas Campbell Stowe	Marketing	Fullerton
Charlotte Mae Strong	Office Management	South Gate
Charles Robert Sturgis	General Business	San Diego
² Ben Tsutomu Sumi	General Business	Compton
Raymond Phillip Swartz	Accounting	Los Angeles
² William Ralph Switzer	Accounting	South Pasadena
Alice Patricia Sydow	Office Management	Los Angeles
Arnott Fraser Tait	Banking and Finance	Ann Harbor, Michigan
² Maurice Rollin Tanner	Accounting	Beverly Hills
² Robert Lowe Taube	Banking and Finance	Los Angeles
James Norris Thayer, Jr.	Accounting	Beverly Hills
Susanne E Thornburgh	Banking and Finance	San Diego
Charles Hampton Thornton	Accounting	Huntington Park
² Wesley Roderick Tilden	General Business	St. Joseph, Missouri
Earl Willis Timmons, Jr.	General Business	Los Angeles
Sylvia Tockerman	Accounting	Los Angeles
² Cecil Gillman Toftness	Marketing	Glasgow, Montana
Howard Tomlinson, Jr.	General Business	Los Angeles
Russell Alexander Torrey, Jr.	Banking and Finance	San Fernando
William Floyd Tritt	General Business	Glendale
Richard Dean Tuchscherer	Management and Industry	San Gabriel
² James Ellis Tucker	Marketing	Santa Monica
¹ Richard Robert Turk	General Business	Milwaukee, Wisconsin
² Phillip Stewart Turner	Banking and Finance	Van Nuys
² Kei Uchima	General Business	Los Angeles
Kenzo Uyeno	Marketing	San Pedro
William Bushrod Vanderhoof	General Business	San Marino
Thomas Samuel Van Hemert	Management and Industry	Chula Vista
² William Evan Van Lohn	Marketing	Alhambra
John Franklin Verner	Management and Industry	Huntington Park
James Vincent Vitale	Marketing	Los Angeles
John Edward Voss	Marketing	Los Angeles
¹ Leo Lawrence Wacker	Accounting	Chicago, Illinois
Marvin Sumner Wager	Banking and Finance	Beverly Hills
² Bernard Wallerstein	Accounting	Los Angeles

² Stuart Bernerd Walzer	Marketing	Chicago, Illinois
Irwin Ward	Marketing	Los Angeles
Charles F Warren	Management and Industry	Lawrenceville, Illinois
Philip Eugene Watson	Accounting	Culver City
John Joseph Webb	Accounting	Los Angeles
² Martin Harold Weil	Accounting	Los Angeles
Albert Henry Wellman	General Business	Kellogg, Idaho
² William Clayton Welter	Management and Industry	Huntington Park
Alfred Lorimer Werner	Accounting	Hillside, New Jersey
Bernard Smith West	Management and Industry	Los Angeles
Richard Lee West	Marketing	Long Beach
Richard Dean Wheeler	Marketing	Webb City, Missouri
Malcolm de Brousse White	Management and Industry	Los Angeles
² Robert Melvin White	Management and Industry	Duluth, Minnesota
Ray Leon Whitney, Jr.	Accounting	Los Angeles
² James Vernon Wiederrecht, Jr.	Management and Industry	Wapello, Iowa
¹ Stuart Lewis Wien	Marketing	Los Angeles
² Richard Edward Willson	Management and Industry	Santa Monica
Jack Dale Wilson	Accounting	Piqua, Ohio
Dean Everett Witt	Marketing	Los Angeles
² Glen Nelson Wold	Management and Industry	Van Nuys
Robert Newton Wright	Marketing	Los Angeles
Jack Conner Wylie	Accounting	Wilmington
Tobias Meyer Yelman	Accounting	Los Angeles
Morton Harold Yoffee	Marketing	Los Angeles
Don Jackson York	Accounting	Glendale
¹ Curtis Clinton Young	General Business	Beverly Hills
² Eugene Morgan Young	Accounting	South Pasadena
Gordon Charles Young	Marketing	Los Angeles
¹ John Bailey Young	General Business	Arcadia
¹ Doris Elaine Zehnpfennig	Office Management	Fullerton
Dolores Lorraine Zeller	Marketing	Gardena
James Robert Zeller	Accounting	Long Beach
² Ervin Zlotnik	Accounting	Los Angeles

COLLEGE OF APPLIED ARTS

The Degree of Bachelor of Arts upon

² Frances Lucille Abbe	Art	Los Angeles
Juan Diaz Acevedo	Art	Los Angeles
Rita Corinne Altman	Art	San Pedro
Lupe Geraldine Amador	Theater Arts	Burbank
Jeanne Harriet Arnold	Art	Temple City
Theodore Arlen Baird	Art	Santa Monica
Patricia Jean Benjamin	Art	Santa Monica
Mary Vernetta Bickley	Art	Los Angeles
Orrilla Ann Blanpied	Art	Pasadena
Marc Risser Breslow	Art	Los Angeles
Rebecca Jane Bridges	Art	San Marino
Lenore Bright	Art	Los Angeles
² Dorothy Woodhead Brown	Art	Los Angeles
Emma Louise Brown	Art	Pasadena
¹ Ann Alden Bunyan	Art	New Rochelle, New York
Catherine Marie Burger	Art	Glendale
Carol Butler	Art	Los Angeles
Margaret Virginia Carvel	Art	Kingsville, Texas
Barbara Jean Casselman	Art	Los Angeles
² Rita Anne Chambers	Art	Los Angeles
² Alyne Haun Clanton	Drama	North Hollywood

² Yvonne Olivia Cole	Art	Los Angeles
¹ Audree Mae Covington	Music	Los Angeles
² Mary Frances Cox	Art	Madera
Sally Marshall Cox	Art	Los Angeles
Catherine Joy Crunk	Music	Cameron, Missouri
Mary-Abbott Curran	Art	Los Angeles
Nancy McCaskill Dahl	Art	Los Angeles
Bernardine Daskoff	Music	Los Angeles
² Gustine Talkington Duggan	Drama	Venice
² Patricia Lou Dunklee	Art	San Luis Obispo
Beryl Jeanne Fielding	Art	Los Angeles
² Jeannette Elizabeth Findlay	Art	San Bernardino
Arthur Henry Fine	Art	San Gabriel
Gordon Edward Fine	Art	San Jose
² Lorraine Joyce Fougner	Art	Northridge
Adele French	Art	Phoenix, Arizona
Ada Friedman	Drama	Los Angeles
² Margaret Vernice Friedman	Art	Los Angeles
Sylvia Garon	Art	Los Angeles
² Geraldine Geringer	Art	Brooklyn, New York
² Trude Therese Gerst	Art	Los Angeles
Eugenia Lucille Glaser	Drama	Santa Monica
Roberta Lois Goldman	Music	Beverly Hills
Jean Lynette Grether	Music	Fort Collins, Colorado
John David Hadley	Music	Los Angeles
Virginia Adelain Haldeman	Art	Santa Monica
Marie LaDell Hansen	Art	Oroville
Hazel Irene Harper	Art	Los Angeles
² Gay Ann Hart	Drama	Venice
Darcy Sanger Hayman	Art	Garden Grove
Frances Hegeman	Art	Los Angeles
Frank Grant Hobart, Jr.	Art	Los Angeles
LuElla May Hull	Art	Los Angeles
Ella Louise Huntsman	Art	Los Angeles
² Iris Ilene Iverson	Art	Santa Ana
² Kathryn Jane Joseph	Art	Los Angeles
² Lloyd Marvin Juhnke	Music	North Hollywood
¹ Patricia Corinne Justiniani	Art	Los Angeles
Pauline Eleanor Khuri	Art	Los Angeles
Barbara Jane Kilpatrick	Drama	San Gabriel
¹ Ross Kearns Knighton, Jr.	Art	Beverly Hills
² Roma Virginia Larson	Music	Los Angeles
² Jo Anne Louise Lawrence	Drama	Salt Lake City, Utah
Patricia Lee	Art	Pasadena
² Mary Ann Le Page	Drama	Los Angeles
Elsie Louise Lindemann	Art	San Jose
Phyllis Meryl McKinley	Art	Los Angeles
² Shirley McWilliams	Drama	Los Angeles
Dwight Luke Martin	Music	Reseda
Velva Dene Marvin	Art	Columbia, Missouri
² John Gray Merideth, Jr.	Art	Montrose
Anne Bowen Merklng	Art	Los Angeles
Delores Christina Metzger	Art	Los Angeles
¹ Judith Barbara Mirsky	Drama	New York, New York
² Maxine Caroline Morton	Music	Los Angeles
² James Leonard Nicholson, Jr.	Art	Mentone
² Rosemary Ann Nielsen	Art	Puente
Virginia Grace Oakley	Art	Los Angeles
Esther Linda Olsen	Art	Fontana
² Barbara Elaine Palmer	Art	Whittier
Mary Virginia Palmer	Art	Los Angeles

² Warren David Pressler.....	Art	Los Angeles
³ Richard Neil Proffitt.....	Art	Maryville, Tennessee
Roger Stephen Riddick.....	Art	Los Angeles
Gloria Margarita Riedel.....	Music	Los Angeles
Sue Robinson.....	Drama	Los Angeles
¹ Violet Hickey Rockney.....	Music	Los Angeles
Frances Virginia Sackett.....	Art	Pasadena
² Louis Ted Safer.....	Art	Los Angeles
Bobbette Jean Salat.....	Art	Los Angeles
Lois Pauline Sanders.....	Drama	Phoenix, Arizona
³ Durette Scott.....	Art	Los Angeles
Bernice Shahbazian.....	Art	Los Angeles
Major Conklin Short.....	Music	Soledad
Emil George Sitkei.....	Music	Los Angeles
¹ Evelyn Buehla Snow.....	Drama	Glendale
Edward Wyman Spalding.....	Drama	Los Angeles
Norma Sporn.....	Art	Los Angeles
Lois Marjorie Stearns.....	Art	Los Angeles
³ Virginia Ann Stewart.....	Art	Santa Barbara
Mary Opal Swetnam.....	Art	Bakersfield
Phyllis Joyce Teton.....	Drama	Los Angeles
³ Frances Wylmoth Kelsey Thompson.....	Art	Cathedral City
¹ Ann Georgina Trautwein.....	Art	Glendale
³ Sherley Theresa Tuffli.....	Art	Palo Alto
Jean Beverly Turner.....	Drama	Long Beach
³ Glen Kimbel Twiford.....	Art	Los Angeles
Betty Jane Underwood.....	Music	Bakersfield
³ Elizabeth Van Winkle.....	Art	San Diego
³ Kathleen Louise Varcoe.....	Art	Covina
³ Elizabeth Jean Veline.....	Art	Eldora, Iowa
Elizabeth May Vognild.....	Drama	Glendale
Barbara Jane Wade.....	Art	Los Angeles
Mayme Joyce Watson.....	Drama	Compton
Georgianne Watts.....	Music	Los Angeles
Colleen Rose Weber.....	Art	Lodi
² Frances Harding Wheelock.....	Art	Glendale
³ Nordstrom Cain Whited.....	Drama	San Diego
³ Lawrence Joseph Wierzbicki.....	Art	Detroit, Michigan
³ Suzanne Frances Wilhelm.....	Drama	Los Angeles
³ Jess Edwin Williamson.....	Drama	Riverdale
Thomas Arthur Woods.....	Art	Whittier

COLLEGE OF APPLIED ARTS

The Degree of Bachelor of Science upon

Jane Ellen Ables.....	Nursing	Anaheim
³ Anna Marie Dahlem Allard.....	Nursing	Culver City
¹ Enide Allison.....	Physical Education	Long Beach
Lenora Green Anderson.....	Nursing	Los Angeles
Eileen Daggett Appleby.....	Apparel Design	Santa Monica
Elizabeth Ann Arrants.....	Apparel Design	Selma
Marilyn Lou Austin.....	Home Economics	Los Angeles
² Lyonel Del Avance.....	Physical Education	Los Angeles
Joan Adele Baines.....	Home Economics	Van Nuys
³ Joan Clairetta Barber.....	Physical Education	Los Angeles
Marguerite Bartlett.....	Home Economics	Scituate, Massachusetts
Anne Elizabeth Bell.....	Home Economics	Glendale
³ Carl Webber Benton.....	Physical Education	Mobile, Alabama
Consuelo Salvante Blanco.....	Physical Education	Paoay, Ilocos Norte, Philippines

Kathryn Elizabeth Blankenship	Apparel Merchandising	Tulsa, Oklahoma
Charles Rueben Blum	Physical Education	Los Angeles
Priscilla Livezey Boardman	Dance	La Grange, Illinois
Eleanor Alice Bocarsky	Physical Education	Los Angeles
² Jean Eleanor Bowman	Home Economics	Orange
Mildred Mollie Bramer	Physical Education	Beverly Hills
² Bobette Ellen Brand	Home Economics	Manteca
Lois Mabel Briggs	Physical Education	Ocean Park
Janice Marjorie Broberg	Apparel Merchandising	Altadena
¹ Thomas Anderson Brown	Physical Education	Altadena
Joyce LaVerne Buehler	Apparel Merchandising	Los Angeles
Lillian Burns	Home Economics	Los Angeles
Marjorie Ann Buss	Home Economics	Los Angeles
Esther Byberg	Nursing	La Canada
¹ Norman Robert Cahn	Apparel Merchandising	Brooklyn, New York
Olinda Chang	Apparel Design	Dinuba
Herbert Charles Clitheroe	Physical Education	Glendale
Fay Cohen	Nursing	Los Angeles
² Gertrude Alice Cooke	Home Economics	Imperial
Florence Eileen Blickenstaff Cowden	Nursing	Pasadena
² Elestia Ethelyne Cox	Nursing	Los Angeles
James Beharrell Cozens	Physical Education	Los Angeles
² James Arvil Daniel	Physical Education	Torrance
² David Henry Davis	Physical Education	Los Angeles
Nellie Marie Delp	Nursing	Pasadena
Helen McSweeney DeSantis	Home Economics	Los Angeles
Esperanza Evangelista Diaz	Home Economics	Paoay, Ilocos Norte, Philippines
² Dorothy Iris Dodd	Nursing	Detroit, Michigan
Dorothy Adelia Douglas	Nursing	Pasadena
² Lucille Lavina Downs	Nursing	Montour, Iowa
² Myrna Spahr Droviss	Nursing	North Hollywood
² Neal Curtis Dundas	Mechanic Arts	Los Angeles
Shirley Miley Elliott	Physical Education	Glendale
Helen Lindsay Elrod	Nursing	Los Angeles
² Dorothea Katherine Emerson	Physical Education	Pasadena
² Jean Mackey Ertwine	Physical Education	Los Angeles
² Elizabeth Mae Farrier	Nursing	Los Angeles
² Clara Buchanan Fentress	Apparel Design	Los Angeles
Frank Stanley Fletcher	Physical Education	Santa Monica
Iris Elizabeth Fodor	Home Economics	Oberlin, Ohio
Esther Christensen Folst	Home Economics	Los Angeles
Janice Harriet Freis	Apparel Merchandising	San Francisco
Shirley Field Gillman	Physical Education	Los Angeles
Jacqueline Doree Goetz	Physical Education	Los Angeles
¹ Glen Harrison Grant	Physical Education	Los Angeles
Seaton Milburn Grant	Physical Education	Riverside
Mark Andrew Greer, Jr.	Physical Education	Long Beach
² Audrey Louise Harrington	Nursing	Los Angeles
Dorothy Hartley	Home Economics	Pico
² Grace Sachiko Hayami	Apparel Design	San Gabriel
Arline Lavon Heckerson	Physical Education	Burbank
Bertha Agnes Hegele	Nursing	Los Angeles
Ida Mae Hensley	Apparel Design	Long Beach
Margaret Jayne Herwig	Physical Education	Los Angeles
Dorothy Cornell Hicks	Physical Education	Los Angeles
Joe Thompson Hicks	Physical Education	Wilmington
Janis Lorraine Hill	Physical Education	Van Nuys
Leona Eleanor Holderness	Physical Education	Gold Hill, Oregon
Ethelyn Brackett Hosley	Home Economics	New Haven, Connecticut
William Harold Hoyt	Physical Education	Los Angeles

	Florence Lorraine Hughes.....	Physical Education	Los Angeles
²	Suzanne Montgomery Irving.....	Apparel Design	Los Angeles
	Joyce Marcella Jordan.....	Dance	Pasadena
³	Marion Dorothy Kashner.....	Nursing	Mt. Vernon, New York
	Robert Edward Keefer.....	Physical Education	Los Angeles
	Caroline Ida Kehl.....	Apparel Merchandising	Van Nuys
¹	Rosie Servart Khatchadourian.....	Physical Education	Selma
²	Kenneth Mitchell Kiefer.....	Physical Education	Coronado
	Doris Alleene Kiger.....	Nursing	Phoenix, Arizona
	Nina Louise Kipf.....	Dance	Santa Ana
	Walter Edgar Kuhl.....	Physical Education	Los Angeles
	Kathryn Elizabeth Kurtz.....	Nursing	Springfield, Ohio
¹	Louie Karl Kyzivat.....	Mechanic Arts	Los Angeles
	Geraldine Lamson.....	Home Economics	Burlingame
	LaVonne Eloise Land.....	Home Economics	Los Angeles
²	George Stanley Langston.....	Physical Education	Los Angeles
	Joyce Margaret Laurence.....	Apparel Merchandising	Los Angeles
³	Marvin Alonzo Lee.....	Physical Education	Torrance
	Sylvia Lessin.....	Nursing	Los Angeles
³	Maurice Levin.....	Mechanic Arts	Los Angeles
	Ben McGill Lewis.....	Physical Education	Los Angeles
	Helen Arline Leyrer.....	Apparel Design	Compton
³	Peter Andrew Lilledahl.....	Mechanic Arts	Canoga Park
³	Naomi Ruth Lindley.....	Nursing	Los Angeles
	Lillian Lisiecki.....	Physical Education	Los Angeles
²	Edith Josephine Lloyd.....	Nursing	Norwalk
¹	David Dudley McBride.....	Physical Education	Pasadena
	James Fredrick McConaughy.....	Physical Education	Los Angeles
²	Kerneda Agnes McDonald.....	Nursing	Long Beach
	Mary Teresa MacIntosh.....	Home Economics	Indio
	Mary Agnes McKay.....	Apparel Design	Fontana
³	Raymond Irving Maggard.....	Physical Education	Los Angeles
	Margaret Neva Mazman.....	Nursing	Fresno
	Barbara Meeker.....	Physical Education	Los Angeles
	Joyce Edith Meyer.....	Home Economics	Compton
	Barbara Newell Middleton.....	Apparel Design	Oakland
³	Mary Ann Morris.....	Home Economics	Los Angeles
	Daniel Rees Nelson.....	Physical Education	Glendale
	Alvina Luna Ng.....	Home Economics	Culver City
³	Norman Newton Nicholson.....	Physical Education	Los Angeles
	Shirley Mae Nish.....	Physical Education	San Bernardino
	Gloria Irene Noble.....	Physical Education	Los Angeles
³	George Hamilton Norstrand.....	Physical Education	Los Angeles
²	Donald Francis O'Connor.....	Mechanic Arts	Los Angeles
	Joyce Ohliger.....	Physical Education	San Mateo
	Charles Mitchell Page.....	Physical Education	Garden Grove
	Marie Paik.....	Nursing	Los Angeles
	Shirley Loraine Pairo.....	Physical Education	Brea
³	Mickey Joseph Panovich.....	Physical Education	San Pedro
	Helen Mary Pariseau.....	Home Economics	Los Angeles
²	Elaine Alley Park.....	Home Economics	Denver, Colorado
	Patricia Pearl.....	Physical Education	Los Angeles
¹	Marilyn Rosalie Perkins.....	Physical Education	Beverly Hills
³	Clifford Louis Peterson.....	Apparel Merchandising	Oakland
³	Rose Irene Pfaff.....	Home Economics	Los Angeles
	Beverly Gertrude Phillips.....	Home Economics	Compton
	Dora Dean Paul Phinney.....	Home Economics	Los Angeles
	Ethel Elizabeth Pierce.....	Home Economics	Los Angeles
³	William Arnold Platt.....	Mechanic Arts	Trenton, New Jersey
	Jeanne Poehlmann.....	Home Economics	Los Angeles
³	Dorothy Powell.....	Nursing	Los Angeles

• Eileen Patterson Pullen	Nursing	Garvey
• Susan Rabenold	Physical Education	Breinigsville, Pennsylvania
Clayton Allan Rakov	Physical Education	Los Angeles
Olive Pearl Ramsey	Nursing	Los Angeles
William Edward Rankin	Physical Education	Los Angeles
William Richard Redus	Apparel Design	Brookston, Texas
Elizabeth Ruth Reed	Apparel Design	Fullerton
• Virginia Redding Richardson	Apparel Design	Beverly Hills
• Ruth Amelia Risser	Physical Education	Pasadena
• Clara Elizabeth Robinson	Home Economics	Glendale
Flora Marcelina Butler Robson	Nursing	Venice
John Edward Rugg	Physical Education	Greeley, Colorado
Frances Ruth de Runtz	Apparel Design	Arcadia
• Robert Douglaas Russell	Physical Education	Long Beach
Marjorie Mae Sagehorn	Physical Education	Long Beach
Marillyn Ann Schmidt	Physical Education	Santa Monica
Gloria Ruth Schroeder	Apparel Merchandising	Minneapolis, Minnesota
Mollie Milliken Schwantz	Apparel Merchandising	San Marino
Austin Roy Sellery	Physical Education	Los Angeles
Dorothy Lorraine Shoemaker	Apparel Merchandising	Tulare
Halcyon Stagner Slingerland	Apparel Design	Santa Monica
Shirley Gene Snyder	Physical Education	San Diego
• Charles Joseph Staley	Physical Education	Los Angeles
Virginia Gail Stearns	Apparel Merchandising	Santa Ana
• Lucretia Anne Stephens	Home Economics	Los Angeles
• Annette Mahoney Stewart	Physical Education	Guadalupe
Dorothy Winifred Storms	Home Economics	San Diego
• Grace Ethel Tappy	Nursing	Willard, Colorado
Patricia Louise Thompson	Apparel Merchandising	Van Nuys
Lorraine Delphia Thorson	Nursing	Riverside
• Julia Steinnerman Tobin	Nursing	Long Beach
Margaret Louise Tolson	Physical Education	Gardena
Dorothy Lucille Toon	Nursing	San Fernando
Pauline Emily Trapp	Nursing	Pomona
Barbara Treiman	Apparel Merchandising	Los Angeles
Doris Irene Truss	Physical Education	Altadena
• Alice Marilyn Van Gorp	Apparel Design	Marshalltown, Iowa
Inez Elizabeth Waite	Home Economics	Lynwood
Charlotte Elizabeth Watson	Apparel Merchandising	Los Angeles
• Grace Helen Waxel	Nursing	Cicero, Illinois
Bronwen Olga Williams	Physical Education	North Hollywood
• Gail Thurber Williams	Nursing	Van Nuys
Patricia Lewis Wintermute	Home Economics	Beverly Hills
Lillian Lue Womack	Physical Education	Los Angeles
William Lewis Woods, Jr.	Physical Education	Tehachapi
Wilma York	Nursing	San Diego
Helen Marguerite Yoast	Dance	Pasadena
Robert Burton Zusman	Physical Education	Los Angeles

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

Theodore Giacomo Ambrosio	Electrical Engineering	Long Beach
• Albert Auerbach	Electrical Engineering	Coronado
Charles Clemens Bailey	Electrical Engineering	San Fernando
Lawrence Eugene Bishop	Electrical Engineering	Los Angeles
Robert Evans Bomeisler	Electrical Engineering	Santa Monica
Stewart William Bowie	Mechanical Engineering	Los Angeles
Nissen Norman Cahan	Mechanical Engineering	Los Angeles
Raymond Edward Ceccarini	Electrical Engineering	Beverly Hills

³ Alvin Chlavin	Electrical Engineering	Los Angeles
Gordon Eugene Click	Mechanical Engineering	North Hollywood
Harry Allen Cline	Electrical Engineering	San Bernardino
Robert Randolph Cole	Mechanical Engineering	Whittier
John Angelo Cordano, Jr.	Mechanical Engineering	Los Angeles
Charles Mathias Corwin	Agricultural Engineering	Manhattan Beach
Clifford Douglas Coulbert	Mechanical Engineering	Los Angeles
William Samuel Craig	Mechanical Engineering	Youngstown, Ohio
Eugene Frank Dubil	Mechanical Engineering	Turlock
John Richard Emerson	Mechanical Engineering	Gardena
Saul Epstein	Electrical Engineering	Los Angeles
Sherman Richard Farrell	Mechanical Engineering	
	Hastings on Hudson, New York	
Howard Dale Gatewood	Mechanical Engineering	Bell
Richard Bruce Glickman	Mechanical Engineering	Los Angeles
Solomon Goldberg	Civil Engineering	Los Angeles
Bernerd Richard Granich	Mechanical Engineering	Los Angeles
Lynn Gray	Mechanical Engineering	Los Angeles
Anthony Storm Greene	Mechanical Engineering	Aurora, Illinois
³ Henry David Greif	Electrical Engineering	Los Angeles
Jacques Griset	Agricultural Engineering	Tustin
John Dee Gum	Electrical Engineering	Long Beach
Leslie Clare Guthrie, Jr.	Mechanical Engineering	Los Angeles
³ Richard Edward Hamilton	Electrical Engineering	North Hollywood
John Eugene Hawks	Mechanical Engineering	Los Angeles
Herbert Lawrence Herman	Electrical Engineering	Los Angeles
Hugh Mulloy Herrick	Mechanical Engineering	Los Angeles
E B Hilton	Mechanical Engineering	Van Nuys
James Richard Hoffman	Electrical Engineering	Whittier
Jerome Solomon Hollander	Mechanical Engineering	Los Angeles
³ Joseph Roger Hoover	Electrical Engineering	Los Angeles
Robert Kay Johnson	Mechanical Engineering	Los Angeles
³ Roy Marvelle Knox	Electrical Engineering	Los Angeles
³ Spencer Masao Kono	Electrical Engineering	Los Angeles
³ Walter Dunning Larrick	Electrical Engineering	Solana Beach
Philip Mason Lawhead	Mechanical Engineering	Los Angeles
David Perry MacCulloch	Electrical Engineering	Van Nuys
Warren Clark McMillan	Electrical Engineering	San Fernando
Lauren Benjamin Marks	Mechanical Engineering	Los Angeles
Loyd Leon Marshall	Mechanical Engineering	Santa Cruz
Myron Martin Martin	Mechanical Engineering	North Hollywood
William Dale Mitchell	Mechanical Engineering	Glendale
Jack Newlove	Mechanical Engineering	Santa Ana
Allan Edward Pickford	Mechanical Engineering	Santa Barbara
Ralph Earl Pooler	Mechanical Engineering	El Monte
³ Robert George Prell	Electrical Engineering	Los Angeles
Leo Cosmos Press	Electrical Engineering	Los Angeles
James Ninian Riley	Mechanical Engineering	Roscoe
³ Sol Richard Rocklin	Electrical Engineering	Venice
Gordon Louis Roskam	Electrical Engineering	Burbank
Wilburn Otis Shepherd	Mechanical Engineering	Los Angeles
Raymond Arthur Sholes	Civil Engineering	Los Angeles
Oscar Eugene Sipe, Jr.	Mechanical Engineering	Inglewood
Hans Herbert Sonderling	Mechanical Engineering	Los Angeles
Robert Tobi	Mechanical Engineering	Los Angeles
Robert Clinton Twomey	Electrical Engineering	Los Angeles
Thomas Stanford Varney	Electrical Engineering	South Gate
William Bruce Wallace	Electrical Engineering	Long Beach
William Howard Watts	Mechanical Engineering	Los Angeles
Robert Rutledge Weber	Electrical Engineering	Los Angeles
Johnstone Whitley	Mechanical Engineering	Los Angeles

Arthur Julian Winter.....	Electrical Engineering	Los Angeles
James William Wisda, Jr.....	Civil Engineering	Richmond
Barbara Ruth Wynn.....	Mechanical Engineering	Los Angeles
Bruce Campbell Young.....	Mechanical Engineering	Los Angeles
Robert Leonard Zimmerman.....	Electrical Engineering	Los Angeles

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

Vance Carlyle Fleming	Public Health	Los Angeles
Lester Arnold Meis	Public Health	Los Angeles
Robert Eugene Mytinger	Public Health	San Francisco

GRADUATE DIVISION, SOUTHERN SECTION

CERTIFICATES AWARDED

CURRICULUM IN SOCIAL WELFARE

Certificate of Completion to

Russell Earl Berkley (A.B. 1947)	Santa Monica
Ruth Shaw Bradbury (B.S., Simmons College, 1935)	Los Angeles
Jane Munn Craig (B.B.A., University of Washington, 1927)	Los Angeles
Robert Elkin (B.S., New York University, 1945)	North Hollywood
Harriet Fink Feinberg (A.B. 1947)	Los Angeles
Shirley Feldman Galat (A.B. 1942)	Los Angeles
Kathleen Greenlaw (A.B., University of California, Berkeley, 1946)	Los Angeles
Mary Guggenheim (A.B., University of Chicago, 1936)	Los Angeles
Marion Walton Heffernan (A.B., University of Southern California, 1934)	Santa Monica
Bessie Lee McIntyre Henderson (B.S. 1934 and M.A. 1939, Columbia University)	Evansville, Indiana
Leon Horovitz (B.S., California Institute of Technology, 1937)	Los Angeles
Mildred French Iorns (A.B., University of California, Berkeley, 1925)	Los Angeles
Benjamin Daniel Leeds (B.S., College of the City of New York, 1937)	Los Angeles
Frances Clark Miller (A.B. 1944)	Santa Monica
Morton Leon Robbin (A.B. 1947)	Los Angeles
Louise Felicia Roesies (A.B. 1946)	Los Angeles
Jeanne Christie Ruffner (A.B., Miami University, 1946)	Dayton, Ohio
Edith Shapiro (A.B., University of Southern California, 1939)	Los Angeles
Bette Rae Sprung (B.S., New York University, 1945)	Los Angeles
Sophia Ann Stone (A.B., University of California, Berkeley, 1939)	Beverly Hills
Sue Tribus (A.B. 1947)	Los Angeles
Maude E Withers (B.S., University of Oregon, 1938)	Newberg, Oregon

DEGREES CONFERRED

**The Degree of Master of Business Administration upon*

Robert Davidson Bradt	Newton, Iowa
B.S., Iowa State College of Agriculture and Mechanic Arts, 1945;	
B.S., University of Maryland, 1947.	
Dewey William Cruise, Jr.	Los Angeles
B.S. 1947.	
Allen Harvuot Davis	Los Angeles
B.S. 1946.	
¹ Edwin Oliver Dwyer	Santa Monica
A.B., State Teachers College, Valley City, North Dakota, 1939.	
Irma V Franklin	Long Beach
B.S. 1946.	
¹ Thomas L Gallagher, Jr.	Cleveland Heights, Ohio
B.B.A., John Carroll University, Ohio, 1940.	
² Charles Burnett Hardinghaus	Los Angeles
B.S. 1943.	
Edna Josephine Hollar	Milford, Indiana
B.S., Indiana University, 1944.	
Robert Lowell Lambert	Los Angeles
B.S. 1947.	
² Kenneth John Rhoads	Venice
A.B., University of Redlands, 1943.	

* A candidate who does not present a thesis has elected to qualify for the degree in a department which requires a comprehensive final examination in the major subject in lieu of a thesis.

- * Richard DeSales Roberts Los Angeles
 B.S. 1946.
 Richard William Rudy Los Angeles
 B.S. 1943.
 John Trester Schneider Pacific Palisades
 B.S., University of Southern California, 1940.
 Charles William Seitz Los Angeles
 B.S., Case School of Applied Science, 1943.
 * Robert George Suder Glendale
 B.S., Iowa State College of Agriculture and Mechanic Arts, 1934.
 * Robert DeWitt Tucker Los Angeles
 A.B., Colorado College, 1931.

***The Degree of Master of Education upon**

- Virginia Elizabeth Armfield Forest Grove, Oregon
 A.B., Western Washington College of Education, 1941.
 Beatrice Armstrong Seattle, Washington
 A.B., Western Washington College of Education, 1940.
 Joyce Rosaline Clarke Van Nuys
 A.B. 1942.
 * Ronald Kyle Esgate Riverside
 A.B. 1926.
 Marjorie Moore Harrison Los Angeles
 Ed.B. 1931.
 Arline M McBride Los Angeles
 Ed.B. 1937.
 Alwin Vermar Miller Los Angeles
 B.S. 1947.
 * Helene Elizabeth Parker Berwyn, Illinois
 B.S., University of Illinois, 1932.
 George Polovina Aliquippa, Pennsylvania
 A.B., Muskingum College, Ohio, 1932.
 * Edwin Wandt Los Angeles
 A.B. 1946.
 Donald Elmo Wilson Wilmington
 B.S. Central Missouri State Teachers College, 1947.

***The Degree of Master of Science upon**

- Lorenzo Dow Adams Applied Physics Hortense, Georgia
 B.S., United States Military Academy, 1938.
 * Ernest Robert Anderson Oceanography Great Falls, Montana
 A.B., Montana State University, 1939.
 * Don Carlos Atkins, Jr. Chemistry Los Angeles
 A.B. 1943.
Thesis: Exchange reaction studies of organo-zinc complexes.
 * George Edward Austin Applied Physics Beverly Hills
 A.B. 1946.
 * Alfred Charles Blaschke Engineering New York, New York
 B.E.E., College of the City of New York, 1944.
Thesis: A method for studying the lateral response of an aircraft.
 * Wayne Vincent Burt Oceanography Eugene, Oregon
 B.S., Pacific College, Oregon, 1939.
 Edmund James Carberry Applied Physics San Francisco
 B.S., United States Military Academy, 1943.
 * Harry Hart Carter Oceanography Chippewa Falls, Wisconsin
 B.S., United States Coast Guard Academy, 1943.

* A candidate who does not present a thesis has elected to qualify for the degree in a department which requires a comprehensive final examination in the major subject in lieu of a thesis.

- ¹ Leroy Allen Cheney Oceanography Alexandria, Virginia
B.S., United States Coast Guard Academy, 1942.
- William Cheorvas Chemistry Flora, Illinois
A.B., University of Illinois, 1937.
Thesis: Reactions of 4-methylcinnoline.
- Edward Hawthorne Clark Applied Physics Rochester, New York
B.S., University of Rochester, 1943.
- ² Henry Gaylord Cleaveland Physical Education Studio City
B.S., Ohio State University, 1940.
Thesis: An instructional film on fundamental approach techniques of springboard diving.
- ³ John Douglas Cochrane Oceanography Los Angeles
A.B. 1943.
- ³ Robert George Cooper Chemistry La Canada
B.S., California Institute of Technology, 1941.
Thesis: A study of the equilibrium in the isomerization of 1-pentyne.
- Butler King Couper Oceanography Tryon, North Carolina
B.S., Massachusetts Institute of Technology, 1929.
- ³ Gifford Cochran Ewing Oceanography La Jolla
A.B., Yale University, 1926.
- ² Joseph Otis Fletcher Applied Physics Los Angeles
B.S., University of Oklahoma, 1941.
- ³ Alexander Reyburn Gordon, Jr. Oceanography Richmond Heights, Missouri
A.B., Washington University, 1939.
- James Oscar Green Applied Physics Washington, D.C.
B.S., United States Military Academy, 1941.
- ³ Estil Lee Hamill Oceanography Orange
B.S., University of Chicago, 1943.
- Blythe Ione Hedge Physical Education Los Angeles
Ed.B., 1933.
Thesis: The importance of the bulletin board as a teaching aid in physical education.
- Howard Hathaway Holmes Engineering Los Angeles
B.S., University of Texas, 1941.
Thesis: Structural models.
- ² Joseph Ralph Homler Chemistry Los Angeles
A.B., University of California, Berkeley, 1938.
Thesis: Estimation of water in alcohol by use of critical solution temperature.
- ³ Paul Luther Horrer Oceanography Jacksonville, Illinois
B.S., California Institute of Technology, 1945.
- Walter Carl Hurty Engineering North Hollywood
B.S., University of Wichita, 1933.
Thesis: Dynamics of airplane landing gear.
- ² Edwin John Istvan Applied Physics Cleveland, Ohio
B.S., Fenn College, Ohio, 1946.
- ³ Leon Leventhal Chemistry Los Angeles
B. S., University of California, Berkeley, 1942;
B.S.C.E., Virginia Polytechnic Institute, 1944.
Thesis: Exchange reactions of some zinc complex compounds.
- ³ Mohamed Zaki Mahdi Horticultural Science Cairo, Egypt
B.Sc., Fouad I University, Cairo, Egypt, 1938.
- ³ Herman Medwin Applied Physics Los Angeles
B.S., Worcester Polytechnic Institute, 1941.
- ³ Esther Elizabeth Pease Physical Education Los Angeles
Ed.B. 1931.
Thesis: Construction of a test of ability to reproduce rhythmic patterns.
- ³ Donald William Pritchard Oceanography Santa Ana
A.B. 1946.
- ³ Robert Osborne Reid Oceanography Los Angeles
B.Engr., University of Southern California, 1946.

- * Jesse Francis Theodore Saur, Jr. Oceanography Pasadena
B.S., Parsons College, 1942.
- * Elvera Skubic Physical Education Chicago, Illinois
B.S., University of Illinois, 1940.
Thesis: A study in acquaintanceship and social status in physical education classes.
- * Warren Charles Thompson Oceanography Los Angeles
A.B. 1943.
Alphonso Axel Topp, Jr. Applied Physics Indianapolis, Indiana
B.S., Purdue University, 1942.
- * Leon Wendell Wright Chemistry North Hollywood
B.S. 1946.
Thesis: Kinetics of the oxidation of iodide ion by oxygen in acid solution; catalysis
by peroxy-forming substances.
- John Newton Yeatman Horticultural Science Washington, D.C.
B.S., University of Maryland, 1944.

**The Degree of Master of Arts upon*

- June Marie Adams Spanish Los Angeles
A.B., University of California, Berkeley, 1943.
- * Sylvia Smythe Agulia Latin Los Angeles
A.B. 1945.
- * Orlando Joseph Aliberti Education Los Angeles
B.S., State Normal School, Gorham, Maine, 1942.
Thesis: A survey of the follow-up programs within the senior high schools of Los
Angeles County.
- * Homer Galebert Anderson Geography Stanton, Nebraska
A.B., Nebraska Wesleyan University, 1940.
Thesis: The Sunland-La Crescenta area, Los Angeles County, California: a geo-
graphical study of land use types.
- * Nina Faye Anderson Education Billings, Montana
B.S., Billings Polytechnic Institute, 1943.
Thesis: History of elementary education in Billings, Montana.
- James Kennedy Angell Meteorology Ann Arbor, Michigan
A.B., University of Michigan, 1945.
- Thomas Maurice Asher Microbiology Los Angeles
A.B. 1947.
Thesis: Studies on the mode of action and molecular structure of subtilin, an anti-
biotic produced by *Bacillus subtilis*.
- William George Bade Mathematics San Diego
B.S., California Institute of Technology, 1945.
- * Woodrow Wilson Baldwin Education Amarillo, Texas
B.S., University of Oklahoma, 1942.
Thesis: History of shorthand instruction in the public high schools of the United
States.
- Henry George Baron, Jr. French Taft
A.B. 1939.
- * Elizabeth Althea Beale Psychology Los Angeles
A.B. 1946.
- * Marian Louise Becker English Los Angeles
A.B. 1945.
Robert Dorwin Bedwell Economics Los Angeles
A.B. 1946.
- * Louis Bertoni Meteorology Buckner, Illinois
Ed.B., Southern Illinois Normal University, 1935.
- * Jeane Sylvia Blair Anthropology and Sociology Los Angeles
A.B. 1946.

* A candidate who does not present a thesis has elected to qualify for the degree in a department which requires a comprehensive final examination in the major subject in lieu of a thesis.

- ³ Burton Russell Brazil Political Science Los Angeles
A.B. 1941.
Thesis: Voting in California, 1920-1946.
- Syril Estelle Bruskin Botanical Science. . New Brunswick, New Jersey
B.S., New Jersey College for Women, 1943.
Thesis: A preliminary investigation of the soil fungi of Southern California.
- Jack Whipple Burkig Physics Weed
A.B., University of Redlands, 1943.
- ² Pamela Hilda Byatt Microbiology Santa Monica
A.B. 1943.
Thesis: Biological characteristics of *Staphylococcus aureus*.
- ³ Eldon James Cairns Zoology South Gate
A.B. 1946.
Thesis: Surface relationships and penetration by plant parasitic nematodes.
- ³ Jeannette Campiglia Spanish La Canada
A.B. 1944.
Alfred Benjamin Carlip Economics Brooklyn, New York
A.B., Brooklyn College, 1947.
- ³ Robert Wendell Cartwright Psychology Los Angeles
A.B. 1946.
- ² Lillian Dorothy Cates Education Los Angeles
A.B. 1943.
Thesis: Youth movements of Germany and Russia: their educational implications.
- ³ Barbara Glayzer Claussenius Psychology Santa Monica
A.B. 1945.
- ³ George Francis Crane English Los Angeles
A.B., Stanford University, 1945.
- ² Gordon Allan Dean Geography Fountain City, Tennessee
B.S., University of Tennessee, 1945.
Thesis: The climate of the Los Angeles area according to the Köppen classification.
- ¹ Oliver Edmund Dews Meteorology Ashland, Oregon
A.B., Stanford University, 1943.
- ¹ Edward Andrew Doty Meteorology San Fernando
A.B. 1943.
- ³ Lewis Arnold Dralle History Miami, Florida
A.B., University of Chicago, 1939.
- ¹ George Harlan Duncan Meteorology Los Angeles
A.B. 1946.
Gerhard Ernest Ehmann Education Los Angeles
A.B., Occidental College, 1936.
Thesis: Teacher evaluation of selected aspects of the Long Beach Schools curriculum development plan.
- ³ Jack Gordon Elam Geology Los Angeles
A.B. 1943.
Thesis: Geology of Seminole Quadrangle, Los Angeles County, California.
- Heinz Eberhard Ellersieck History Los Angeles
A.B. 1942.
- Nathan Entner Microbiology Los Angeles
A.B. 1946.
Thesis: Bacterial respiration: theory and techniques.
- Howard Carter Fenton Art Los Angeles
A.B. 1947.
- ² Pamela Sue Finley Political Science Los Angeles
B.S., Washington University, 1944.
Thesis: Diplomatic relations between the United States and the Arab States of the Near East (1920-1947).
- Helen Hilda Fisher Education Washington, D.C.
B.S., Wilson Teachers College, Washington, D.C., 1943.
Thesis: Family life in children's literature.
- Guy Scott Freutel Economics Los Angeles
A.B. 1947.

- Bernard Friedman Mathematics Los Angeles
B.S., Central YMCA College, Chicago, 1941.
- ² Ernest Furchtgott Psychology Santa Monica
A.B. 1946.
- Rolando Victor Garcia Meteorology Buenos Aires, Argentina
Graduate, Escuela Normal de Profesores, Buenos Aires, 1939.
- John Dresser Garrison Physics Los Angeles
A.B. 1947.
- ¹ Stephen Mellotte Godfrey Meteorology Niagara Falls, New York
A.B., New York State College for Teachers at Albany, 1941.
- Eleanor Marjorie Gold Economics Beverly Hills
A.B. 1945.
- Dorothy Erica Goldman Zoology Los Angeles
A.B. 1946.
- ¹ Richard Melandres Gonzales French Los Angeles
A.B. 1940.
- T William Goodman Political Science Los Angeles
B.S., Brigham Young University, 1936;
M.A., University of Southern California, 1938.
Thesis: Culbert L. Olson and California politics, 1933-1943.
- ² William Joseph Grandoschek Spanish Los Angeles
A.B. 1945.
- ¹ Lucienne Geraldine Grenier French Culver City
A.B. 1946.
- ² Martha May Griffiths Education Los Angeles
A.B., Florida State College for Women, 1943.
Thesis: An evaluation of research on the motivation of learning.
- ¹ Arthur Fredrick Gustafson Meteorology Los Angeles
A.B. 1940.
- ¹ George Anderson Guy, Jr. Meteorology Memphis, Tennessee
B.S., Memphis State College, 1936.
- Eugene Vincent Haake Physics Cleveland, Ohio
B.S., Western Reserve University, 1943.
- Norma Corinne Hagen Art Los Angeles
A.B. 1945.
- John Walter Handin Geology Los Angeles
A.B. 1942.
- ² Helen Harvey Heavenrich Art Los Angeles
A.B., Radcliffe College, 1924.
Thesis: The modern house: a study of the development of the International School house plan.
- Richard Hendricks History Los Angeles
A.B. 1946.
- ² Robert Russell Hertel English Fairport, New York
A.B., New York State College for Teachers at Albany, 1941.
- John Charles Hogan Political Science Los Angeles
A.B. 1942.
Thesis: The role of the Dred Scott Case in American political and social history.
- Edward Leonard Hubbard Physics Glendale
A.B. 1943.
- Frank Kenneth Hurd Physics Hemet
A.B., University of Redlands, 1945.
- ¹ Shih-Sung Hwang Meteorology Kinhwa, Chekiang, China
B.S., National Central University, Chungking, China, 1942.
- ² Marjorie Lembark Jackson Education Beverly Hills
Ed.B. 1941.
Thesis: Influence of lay groups on education.
- Donald Woodrow Johnson Education Pine River, Minnesota
A.B., Beloit College, 1936.
Thesis: A study of the factors in the exodus of permanent teachers from the Los Angeles city schools during the period 1935 to 1947.

- Irene Nita Jolivet. German Portland, Oregon
A.B., University of Oregon, 1946.
- ³ Shih-Kung Kao Meteorology Foochow, China
B.S., National Tsing Hua University, Kunming, China, 1939.
- ³ Tahsin Kâzım Kefeli. Political Science Samsun, Turkey
A.B., University of Southern California, 1943.
Thesis: The foreign relations of the Turkish Republic since the death of Kemal Atatürk.
- Joel Mitchell Kibbee. Physics Los Angeles
A.B. 1942.
- Charles Belmont Kinzek. Mathematics Compton
A.B., University of California, Berkeley, 1941.
- James Ervin Knauer. Education Jackson
A.B. 1936.
Thesis: Some aspects of the problem of rebuilding education in the American zone of Germany.
- Noel Korn English Los Angeles
A.B., New York University, 1944.
- ³ Sol Henry Krasner. Physics Los Angeles
A.B. 1947.
- ³ Florence Rubinfier Kroll. Spanish Los Angeles
A.B. 1946.
- ¹ Eugene Leo Lazare. Political Science Los Angeles
A.B. 1936.
Thesis: An analysis of the food and agriculture organization of the United Nations.
- Owen C Lease. History Alhambra
A.B., Santa Barbara College, University of California, 1947.
- Dwight Van Deusen Lee. Education San Diego
A.B., Princeton University, 1938.
Thesis: The counseling resources of San Diego, California—a survey.
- Robert Ernest LeLevier. Physics Los Angeles
A.B. 1947.
- ³ Conrad Henry Lester. German Los Angeles
Thesis: Zur literarischen Bedeutung Oswalds von Wolkenstein. (On the literary importance of Oswald von Wolkenstein.)
- ² Donald Joseph Lewis. Psychology Inglewood
A.B. 1946.
- ³ Harold Luxenberg Mathematics Los Angeles
A.B. 1943.
- ² Duncan Kenneth MacDonald. Political Science Los Angeles
A.B. 1940.
Thesis: A decade of Canadian-American relations: 1935 to 1945.
- John Thomas McGill. Geology Los Angeles
A.B. 1943.
Thesis: Geology of a portion of the Las Flores and Dry Canyon quadrangles, Los Angeles County, California.
- Oliver Krause Malcolmson, Jr. English Los Angeles
A.B., University of California, Berkeley, 1941.
- George Leslie Marrah. Economics Clarksville, Tennessee
B.S., Boston University, 1937.
- ³ Fred Massarik Anthropology and Sociology. Los Angeles
A.B. 1945.
- ³ Robert Graham Maynard. Geology Santa Monica
A.B. 1941.
Thesis: Geology of the Tropico Mine, Rosamond, California.
- ³ Myron Jerome Mendelson. Mathematics Los Angeles
A.B. 1946.
- Theresa Welch Merrick. Art Los Angeles
A.B. 1946.
- Donald Edwin Moore. Education Los Angeles
A.B. 1940.
Thesis: The development of public primary education in Uruguay.

- 2 Douglas Houston Moore.....Mathematics.....La Canada
 A.B., University of California, Berkeley, 1942.
- 2 Olga E Mordvin.....Microbiology.....Los Angeles
 A.B., Hunter College of the City of New York, 1938.
Thesis: Studies on lysogenesis and phage typing of staphylococci.
- Francis William Murray.....Meteorology.....San Antonio, Texas
 A.B., University of Texas, 1941.
- 2 George William Nace.....Zoology.....St. Louis, Missouri
 A.B., Reed College, 1943.
Thesis: Development of nonviteloid substances in the chick embryo.
- 2 Hisako Nishihara.....Zoology.....Los Angeles
 A.B., 1946.
Thesis: The effects of carcinogenic and nonspecific chemical irritants on amphibian epithelium.
- 1 Gordon Maxwell Nunes.....Art.....Los Angeles
 A.B. 1946.
- 2 Reginald Gordon Orme.....Education.....Los Angeles
 A.B. 1942.
Thesis: Role playing as an educational technique.
- Eugene Robert Orwig, Jr.....Geology.....Los Angeles
 A.B. 1946.
- Rudolph Ottenbacher.....German.....Los Angeles
 B.S., University of Wisconsin, 1942.
- 2 Phillip Burns Petersen.....Spanish.....Pasadena
 A.B. 1942.
- Guy Harry Peterson, Jr.....English.....Morgantown, West Virginia
 A.B., West Virginia University, 1943.
- Raymond Paul Peterson, Jr.....Mathematics.....Arcadia
 A.B. 1947.
- 2 Arthur Elisee Phelan.....Education.....Los Angeles
 A.B. 1938.
Thesis: An analytical bibliography of elementary school administration textbooks published in the United States from 1829 to 1945.
- Thomas Dennis Pitta.....Zoölogy.....San Diego
 B.S., Rutgers University, 1934.
Thesis: The hatching of the eggs of *Ascaris suum*.
- Sven Helge Reher.....Music.....Los Angeles
 A.B. 1940.
Thesis: Recent advances in string instruments and string instrumentation.
- John Lincoln Reiter.....Education.....Los Angeles
 A.B., Occidental College, 1937.
Thesis: An enriched program of supervised teaching in Physical Education.
- 2 Eva Rivas.....Spanish.....Los Angeles
 A.B. 1944.
- 2 Sanford Rothman.....History.....Los Angeles
 A.B. 1940.
- 1 James Calvin Sadler.....Meteorology.....Silver Point, Tennessee
 B.S., Tennessee Polytechnic Institute, 1941.
- Eugene S Sage.....Political Science.....Chicago, Illinois
 B.S., Northwestern University, 1946.
Thesis: The Sherman Act and the Clayton Act applied to labor unions, 1933 to 1947.
- 1 Lois Levine Shapiro.....Economics.....Los Angeles
 A.B. 1940.
- Morris Singer.....Economics.....Los Angeles
 A.B., University of Chicago, 1942.
- 2 Richard Sinsheimer.....Political Science.....Los Angeles
 A.B. 1943.
Thesis: French Second Chambers.

- Douglas Sidney Sjoberg Physics Los Angeles
A.B. 1940.
- ¹ Richard Ernest Speagle Economics Los Angeles
A.B. 1946.
- Sterlyn Blaine Steele English Long Beach
A.B. 1945.
- ³ Robert Everett Stevenson Geology Fullerton
A.B. 1946.
Thesis: The Cretaceous stratigraphy of the southern Santa Ana Mountains.
- ² Mavis Jane Stewart Education Lincoln, Nebraska
B.S., University of Nebraska, 1944.
Thesis: A study of the failures in a Los Angeles civil service clerk-typist examination.
- Richard David Stowell Meteorology Los Angeles
A.B. 1940.
- ¹ Ralph Goodrick Suggs Meteorology Goodman, Missouri
Ed.B., Western Illinois State Teachers College, 1941.
- Josephine Elizabeth Tarbet Microbiology Santa Monica
A.B. 1947.
Thesis: Phases of the metabolism of the dermatophytes.
- Virginia Warren Tebbetts Political Science Los Angeles
A.B. 1945.
Thesis: The development of international aerial regulation.
- ³ William LeRoy Thomas, Jr. Geography South Gate
A.B. 1941.
Thesis: Geographical land classification in Las Posas Valley, Ventura County, California.
- Aylmer Henry Thompson Meteorology Los Angeles
A.B. 1947.
- ³ Ervin Dayle Thorson Meteorology San Dimas
A.B. 1946.
- ¹ Wilmar Noah Tognazzini Education Greenfield
A.B., San Jose State College, 1939.
Thesis: A study and analysis of California county report cards.
- J. Douglas Traxler Geology Fillmore
A.B. 1942.
Thesis: Geology of the East Central Santa Monica Mountains.
- Clement Jay Van Vliet Mathematics Rialto
A.B. 1943.
- Doris Marie Vetter German Los Angeles
A.B., Occidental College, 1946.
- ² Stanley Harwood Wallace Spanish Long Beach
A.B. 1941.
- Isadore Weinstein Sociology Los Angeles
A.B., Wayne University, 1946.
- Oscar Bryan Wilson, Jr. Physics Los Angeles
B.S., University of Texas, 1944.
- ¹ Helen Cowan Wood Education Fresno
A.B., Fresno State College, 1927.
Thesis: Utilizing community resources in elementary schools of Lassen County.
- Shogo Yamaguchi Botanical Science Westminster
A.B. 1940.
Thesis: Host-parasite relations of the mistletoe.
- Sister Mercia Louise Zerwekh Education Los Angeles
A.B., Mount Saint Mary's College, Los Angeles, 1937.
Thesis: An annotated bibliography of plane geometry textbooks published in the United States from 1847 to 1943.
- ² Iris Emily Zimmerman Psychology Los Angeles
A.B. 1944.

The Degree of Doctor of Education (School of Education) upon

- Aubrey Lee Berry..... Los Angeles
 A.B. 1931 and M.A. 1947.
Thesis: An eight-year study of teacher guidance and placement by the Office of Teacher Placement, University of California, Los Angeles.
- Napoleon Harry Camp, Jr..... Des Moines, Iowa
 A.B. 1940 and M.A. 1941, University of Chicago.
Thesis: A semantic approach to guidance.
- Vincent Booth Claypool..... Barstow
 B.S., University of California, Berkeley, 1924;
 M.A., Claremont Graduate School, 1935
Thesis: John Amherst Sexson, Educator.
- Stanley LeQuatte Combs..... Los Angeles
 A.B., University of Colorado, 1932;
 M.S., University of Southern California, 1937.
Thesis: A study of terminal vocational students in three California public junior colleges: implications for general education.
- Thomas Clifford Gallagher..... Pomona
 A.B., New Mexico Normal University, 1929;
 M.A., University of New Mexico, 1934
Thesis: Evaluation of college courses in the preparation of elementary teachers.
- William Frana Holtrop..... Los Angeles
 B.S., Nebraska State Teachers College at Kearney, 1936;
 M.Ed., University of Missouri, 1938
Thesis: The development and present status of vocational education in the Netherlands.
- Clyde Sanford Johnson..... Riverbank
 A.B., University of California, Berkeley, 1932; M.A. 1946.
Thesis: Student self government: A preliminary survey of the background and development of extra class activities at the University of California, Los Angeles.
- John Calvin Lauderbach..... Chula Vista
 A.B. 1920 and M.A. 1931, University of Southern California.
Thesis: In-service training of elementary school principals.
- Edwin Wolcott Olmstead..... Los Angeles
 A.B., San Jose State College, 1935; M.A. 1945.
Thesis: Education of youth during a period of national prosperity.
- Eugene Fred Olson..... Los Angeles
 Ed.B. 1935 and M.A. 1940
Thesis: An analytic study of ninth grade guidance in the Los Angeles city junior high schools.
- Philip Wilbur Perdew..... Los Angeles
 A.B. 1937; M.S., University of Southern California, 1943.
Thesis: A critical analysis of research in the history of secondary education in America.
- Stefan Wilhelm Steinson..... Yorkton, Saskatchewan, Canada
 A.B., University of Saskatchewan 1922; M.A. 1942.
Thesis: The training of mentally superior pupils in an urban senior high school.
- ³ Harry George Thompson..... Perris
 A.B. 1926 and M.A. 1934, Colorado State College of Education.
Thesis: A history of certain phases of secondary school administration in Riverside County, California.
- William Paterson Wilson..... Chicago, Illinois
 A.B., University of Illinois, 1919; M.A. 1946.
Thesis: The history and development of the public adult education program in Chicago.

The Degree of Doctor of Philosophy upon

- ¹ Richard Isidore Akawie.....ChemistryLos Angeles
A.B. 1942 and M.A. 1943.
Thesis: Part I. The reactions of halohydrins and oxides with Grignard reagents.
Part II. Synthesis of α -dialkylaminomethyl-2-methoxy-1-naphthalene-methanols.
- Arnold Benton.....PhysicsLos Angeles
B.S., Massachusetts Institute of Technology, 1940; M.A. 1943.
Thesis: The absorption spectrum of neodymium bromate using polarized light.
- Howard Alan Bern.....ZoölogyLos Angeles
A.B. 1941 and M.A. 1942.
Thesis: The experimental production of sex accessory pathologies in the male Dutch rabbit, and their relation to urinary phosphatase levels.
- Robert Kenneth Brinton.....ChemistryLos Angeles
A.B. 1936 and M.A. 1938.
Thesis: The vapor phase photolysis of 1-deuteroacetaldehyde.
- Melvin David Brockie.....EconomicsHemet
A.B. 1942 and M.A. 1944.
Thesis: The rally, crisis, and depression, 1935-1938.
- Ruth Cutter Burke.....MicrobiologyHermosa Beach
A.B. 1943 and M.A. 1944.
Thesis: Superficial mycoses of veterans.
- Merrill Nelson Camien.....MicrobiologyInglewood
A.B. 1943 and M.A. 1945.
Thesis: The determination of amino acids by microbiological methods.
- ² John Chambers Crowell.....GeologyClaremont
A.B., University of Texas, 1939; M.A. 1946.
Thesis: Geology of the Tejon Pass region, California.
- David Baxter Dunn.....Botanical Science.....South Gate
A.B. 1940 and M.A. 1943.
Thesis: The breeding systems of *Lupinus*, section *Micranthi*.
- Wade Errett, Jr.....PsychologyLos Angeles
A.B. 1942.
Thesis: An experimental study of fixation in rats.
- Allan Priest Fawley.....GeologyPeachland, B.C., Canada
B.A.Sc., University of British Columbia, 1937; M.Sc., Queens University, 1946.
Thesis: Geology and iron-formation of the Petitsikapau area, Labrador.
- Warner H Florsheim.....ChemistryVan Nuys
A.B. 1943 and M.A. 1944.
Thesis: Steric hindrance in alicyclic acids.
- ³ Seymour Louis Friess.....ChemistryLos Angeles
A.B. 1943 and M.A. 1944.
Thesis: Polarography of flavone derivatives.
- ³ Wilbur Robert Jacobs.....HistoryPasadena
A.B. 1940 and M.A. 1942.
Thesis: Presents to the Indians along the Ohio and Northwest Frontiers, 1748-1763.
- Woodrow Cooper Jacobs.....OceanographyPomona
A.B. 1930; M.S., University of Southern California, 1934.
Thesis: The energy exchange between sea and atmosphere and some of its consequences.
- Harrison Walter Jones.....ChemistrySanta Monica
B.S. 1944.
Thesis: Nucleophilic displacement reactions.
- James Lloyd Keller.....ChemistrySouth Charleston, West Virginia
B.S., Pennsylvania State College, 1939;
M.S., Emory University, 1940.
Thesis: Electrophilic displacements on carbon; cleavage of the C-Hg bond in organomercuric salts.

- ² Donald Jerome Kimeldorf Zoölogy Eugene, Oregon
 A.B., Reed College, 1942; M.A., University of Oregon, 1944.
Thesis: The assay of Urinary 17-ketosteroids of the male rabbit in normal and
 experimental conditions.
- George Adelbert Livingston Botanical Science Los Angeles
 A.B., Colorado College, 1940.
Thesis: Contributions to the knowledge of leaf abscission in the Valencia orange.
- Pietro Valdo Marchetti Psychology Richmond, Virginia
 A.B., University of Richmond, 1939;
 M.S., Rutgers University, 1941.
Thesis: A study of preferences of nonamputees for prostheses for the hand.
- ² Richard Kenneth Murdoch History Santa Monica
 A.B., Harvard University, 1936; M.A. 1940.
Thesis: French intrigue on the Georgia-Florida frontier, 1793-1796.
- John David Newburgh Mathematics Ann Arbor, Michigan
 B.S. 1944 and M.S. 1945, University of Michigan.
Thesis: The variation of operator spectra.
- Robert Eldon Reeser History Beverly Hills
 A.B., University of Southern California, 1942; M.A. 1944.
Thesis: Rufus King and the Federalist Party.
- Louis B Rockland Physical-Biological Science Los Angeles
 A.B. 1940 and M.A. 1947.
Thesis: The microbiological analysis of proteins.
- Percy Winifred Rohrbaugh Botanical Science Upland
 A.B., Nebraska Wesleyan University, 1927;
 M.S., Iowa State College of Agriculture and Mechanic Arts, 1929.
Thesis: The relationship of water content of protoplasm to the rate of respiration.
- Raymond August Rydell History Beverly Hills
 A.B. 1937 and M.A. 1947.
Thesis: The Cape Horn Route to the Pacific, with special reference to the United
 States in the nineteenth century.
- ² Frank Henry Seubold, Jr. Chemistry Berkeley
 B.S., Northwestern University, 1943.
Thesis: Neighboring groups in free radicals.
- Harold Shniad Mathematics Santa Monica
 A.B. 1941 and M.A. 1942.
Thesis: Convexity properties of means of moduli of analytic functions.
- ² David Maule Updegraff Microbiology La Jolla
 A.B. 1941.
Thesis: Microbial protein degradation and oleogenesis.
- ² Philip Raymond Wikelund English Inglewood
 A.B. 1937 and M.A. 1939.
Thesis: The Fettered Muse: Aspects of the theory of verse translation in Augustan
 England, 1640-1750.
- Katherine Woods Wilson Chemistry San Diego
 B.S. 1944 and M.S. 1945, University of California, Berkeley.
Thesis: Reactions of the butenyl Grignard reagent.

The Honorary Degree of Doctor of Laws upon

Omar Nelson Bradley

Lee Alvin DuBridge

William Emmanuel Rappard

**HONORS WITH THE BACHELOR'S DEGREE
IN THE COLLEGE OF LETTERS AND SCIENCE**

AMERICAN CULTURE AND INSTITUTIONS

Michel Marie Henri Paul Rougé

ANTHROPOLOGY

Thomas Burdet Dillon

Seymour Lewis

BACTERIOLOGY

Hilda Marjorie Berger

Dorece DeBessonete

Amelia Elizabeth Marsh

CHEMISTRY

Clyde Eugene Osborne

ECONOMICS

Harry Rolen Bradley

Ernest Max Buchholz

Richard Carvel Chenoweth

Helen Louise Curren

Mitchell Gordon

Lawrence Anthony Sullivan

ENGLISH

Carlton Reaver Appleby

Raymond Eugene Banks

Nathan William Berinstein

David Kilbourne Brady

Gerald Bulmash

Fannie Harley

Joseph Andre Howenstein

Frank Bourne Jacobson

Doris Jean Keller

Thomas Gregory McGuire

John Phillips Monteverde

Nanette Therese Notarius

Reuben Theodore Pearson

Herbert Wolfe Ravetch

Dudley Simeon Strasburg

Sheva Benedicta Wetstein

FRENCH

Yvette Marie Fallandy

Herman Ohme

Donna Ross Potter

Leon Schwartz

Richard Edwin Servey

Jacques Silberstein

GENERAL

Helen Thornton Barnard

Ruth Rochelle Bender

Bruce Bogue

Janet Russell Ecki

Evelyn Beatrice Greenwald

Ann Shlaudeman

James Vernon Traugher

GEOGRAPHY

Richard Angelo Ariano

Albert Edward Burke

Dora Martha Darke

Burton David Lewis

Adele Zwart

GEOLOGY

John William Reid

Gordon Whitney Weir

GREEK

William Harvey Beard

HISTORY

Roberta Jean Carlquist	Robert Eugene Mills
Albert Abraham Chudler	Laura Jean Rainey
Charlotte Antoinette Crabtree	Phyllis Arlene Rockwell
Oliver Cromwell Davis	Thomas William Sharpe
Gordon Alderson Fisk	Gamble Morris Stendel
David Wolfe Sussman	

INTERNATIONAL RELATIONS

Doris Elida Arosemena	Maj-Britt Sundberg
-----------------------	--------------------

LATIN-AMERICAN STUDIES

John Clay Hutton

MATHEMATICS

Joseph Ehrlich Herman	Hyman Louis Schulman
Elmer Edwin Osborne	David Samuel Stoller

METEOROLOGY

Earl Everett Gossard	Edmund Jerome Manning
Eleanor Blanche Vernon	

MUSIC

Marian Marie Moser	Bess Stern
Robert William Wienpahl	

PHILOSOPHY

Mary Cecilia Wightman Briggs	Peter Boyd Walton
------------------------------	-------------------

PHYSICS

David Alan Bies	William Blake Doub
Harold Leonard Brode	Howard Iris Keller
Herbert Norman Leifer	

POLITICAL SCIENCE

Harry Maurice Goldstein	Jean Sallie Lopin
Maurice Arthur Hall	Irwin Jaye Nebron
Robert Hayes	Lillian Yetta Paigen

PSYCHOLOGY

Morris Bernstein	Lillian Kaplan
Harold Borko	Alvin A Lasko
Elsie Catherine Flinkstrom	Irwin Mahler
Sarah Eleanor Forster	Werner Max Mendel
Ruth Schaar Giovanniello	William Lloyd Newcomb
Molly Chernow Gorelick	Lois Eileen Schultz
Florence Glaser Horwitz	Lila Eleanor Smith
Verne Joseph Kallejian	Gerald Gordon Wolfson

SOCIOLOGY

Josephine Davis	Kermit Quentin Greene
Idell Freed	Bruce Marion Pringle
Rheba Ganzweig	Julia Barbara Zelenka

SPANISH

Norma Jean Gordon	Anna Stein
-------------------	------------

ZOÖLOGY

Lynette Barbara Berg
 Herman Berlin
 Joseph Robert Bloomfield

Harold Feinberg
 Ronald Jay Kaplan
 Howard Maurice Kass

Highest Honors

Dorothy Vivian Anderson, Psychology
 Mary Louise Anderson, Chemistry
 Rolland Sanford Asher, Psychology
 Harry Robert Biederman, Economics
 Alexander Harry Chorney, English
 Anthony Wayne Colver, Philosophy
 Bernd Craseman, Physics
 Joan Demond, General
 Richard Martin Diamond, Chemistry
 Howard Marvin Dintzis, Chemistry
 Flora Winifred Dow, Latin
 Albert Eglash, Psychology
 Raymond Robert Farrell, Economics
 Howard Mitchell Feder, Zoölogy
 Frances Finger, Greek
 Michael Harold Franklin, Economics
 Stephen George Gasiorowicz, Physics
 Kenneth James Harker, Physics
 Eugene Howard Jacobs, Mathematics
 Robert Ernest LeLevier, Physics
 Norman Worth Loveless, Economics
 Ellis Elmer McCune, Jr., Political Science
 Albert Takeshi Nambu, Zoölogy
 Britomar Johnson Platt, Psychology
 Kenneth James Pratt, History
 Alan David Redding, Economics
 Ray Lane Samsell, Economics
 Bernard Francis Schmidt, Applied Physics
 Glen Edward Schrank, Physics
 Carl William Terwilliger, Psychology
 Jack Coats Thompson, Meteorology
 John Rexall Weir, Psychology
 Mary Wohlberg, Psychology

**HONORS WITH THE BACHELOR'S DEGREE
 IN THE COLLEGE OF APPLIED ARTS**

ART

Marc Risser Breslow
 Arthur Henry Fine
 Trude Therese Gerst
 Darcy Sanger Hayman
 Frank Grant Hobart, Jr.

Pauline Eleanor Khuri
 Mary Virginia Palmer
 Lois Marjorie Stearns
 Ann Georgina Trautwein
 Barbara Jane Wade

Thomas Arthur Woods

HOME ECONOMICS

Joan Adele Baines
 Esther Christensen Folst
 LaVonne Eloise Land

Mary Ann Morris
 Jeanne Poehlmann
 Patricia Lewis Wintermute

MECHANIC ARTS

Maurice Levin

William Arnold Platt

MUSIC

Lloyd Marvin Juhnke
Dwight Luke Martin
Gloria Margarita Riedel

Violet Hickey Rockney
Major Conklin Short
Emil George Sitkei

NURSING

Lenora Green Anderson

Eather Byberg

Sylvia Lessin

PHYSICAL EDUCATION

Lyonel Del Avance
James Arvil Daniel
Shirley Miley Elliott
Leona Eleanor Holderness
Robert Edward Keefer

George Stanley Langston
Charles Mitchell Page
Patricia Pearl
Susan Rabenold
John Edward Rugg

Robert Douglass Russell

Highest Honors

James Beharrell Cozens, Physical Education
John Gray Merideth, Jr., Art
Dora Dean Paul Phinney, Home Economics

**HONORS WITH THE BACHELOR'S DEGREE
IN THE COLLEGE OF ENGINEERING**

MECHANICAL ENGINEERING

Clifford Douglas Coulbert

**HONORS WITH THE BACHELOR'S DEGREE
IN THE COLLEGE OF AGRICULTURE**

HORTICULTURE

David Roland Barnhart

Highest Honors

Harold Theodore Pyfrom, Horticulture

**HONORS WITH THE BACHELOR'S DEGREE
IN THE COLLEGE OF BUSINESS ADMINISTRATION**

ACCOUNTING

Robert Hjalmar Anderson
Norman Bradley Barker
Frank Joseph Bates
Nathan Bessin
Hirsh Abe Brown
Irving Buchalter
William Camil
Roger Ellsworth Carpenter
Edwin Lee Carter, Jr.
Robert Charles Edmunds
William Weston Gregory
Lyle Chester Hall

Clyde Stansfield Hodder
William Lee Horter
James Risque Hutter
Glenn Maxwell Lashbrook
Richard Marvin Levin
Jack Lopin
Paul Clement Lukens
Robert Gordon Mann
Norman Plotkin
Sherman Monte Robinson
Maurice Rollin Tanner
James Norris Thayer, Jr.

Don Jackson York

*Honors; Prize Awards***BANKING AND FINANCE**

Deigh David Boyd
 Cleland Noble Hughes, Jr.
 Gordon Allen Smith

MANAGEMENT AND INDUSTRY

Robert Fae Loffer
 Herman Louis Schreiner

MARKETING

Lloyd Emery Blanpied, Jr.
 Lawrence Philip Fraiberg
 Donnell Wheeler Newman
 Frank Dean Price
 Kenzo Uyeno

OFFICE MANAGEMENT

Wilma Dornan
 Alwin Vermar Miller

Highest Honors

Eugene Robert Bronstein, Marketing
 Harvey Sidney Cohen, Accounting
 George Landon Collier, Management and Industry
 Morris Engel, Accounting
 Earl Bernard Gross, Accounting
 Frank John Manaut, Accounting
 Farley Gillis Mann, Marketing
 Robert Arthur Otto, General Business
 John Priest, Management and Industry
 Doris Evelyn Raef, Management and Industry
 Eugene Alexander Rittenhouse, Management and Industry
 Sumner Lee Sharfman, Marketing
 John Alexander Simpson, General Business
 Nathan Isadore Stein, Accounting

PRIZE AWARDS FOR THE YEAR

1947-1948

ALPHA CHI DELTA AWARD

(Individual Silver Trophy)

Given by the Alpha Chi Delta Sorority to the junior women in Economics or Business Administration with the highest academic standing attained during their freshman and sophomore years.

Evelyn Von Haphen
 Kathryn Joyce Weber

ALPHA CHI DELTA ALUMNAE AWARD

(Name engraved on Silver Cup)

Given by the alumnae group of the Alpha Chi Delta Sorority to the graduating senior woman in Economics or Business Administration with the highest academic standing attained at the completion of her college course.

Wilma Dornan

DAVID K. BJORK

(Honor Medal)

Given on the basis of sportsmanship, scholarship, and service to the University.

James F McConaughy

BURPEE AWARD IN FLORICULTURE

(\$50.00)

Given by the W. Atlas Burpee Company, Seed Growers, Philadelphia, Pennsylvania, to an outstanding student in his junior year in the College of Agriculture on the basis of scholarship, practical experience, and interest in floriculture.

Frederick Ralph Cunningham

GIMBEL PRIZE

(\$25.00 and a gold medal)

Established by Mr. Jake Gimbel of Los Angeles for a graduating senior who has excelled in scholarship, character, and athletic endeavor.

Frank J Fletcher

MEDAL OF THE GOVERNMENT OF FRANCE

(Medal)

Established by the French Government for a student of superior achievement in the study of the French language and literature.

Herman Ohme

MU PHI EPSILON PRIZES IN MUSIC

(Two prizes—\$25.00 each)

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

Joanne Aylette Ennis (Flute) Eileen Schiff (Violin)

PHI CHI THETA NATIONAL KEY AWARD

(A Key)

Given by the local chapter of Phi Chi Theta to the woman student in Business Administration with the highest record in scholarship, leadership, and activities.

Joan de Leveille

PHI LAMBDA UPSILON PRIZE

(\$15.00)

Given by the Alpha Kappa Chapter of Phi Lambda Upsilon, national honorary chemical society, for the best comprehensive examination covering the four-year course in undergraduate chemistry.

Howard Marvin Dintzis

PHI SIGMA SOCIETY

(Silver Medallion)

Given by the Phi Sigma Society to a student for excellence in the biological sciences.

William R Dawson

PHYSICS ENDOWMENT PRIZE

(\$100.00)

Income from the Physics Endowment Fund, Los Angeles, is devoted to an annual prize to be awarded to a physics major who is beginning his senior year and who is of good character and scholarship.

William B Doub

*Prize Awards; Military Commissions***THORNE-RIDER DONATION**

(Government Bonds)

Established by Count and Countess Frederic Thorne-Rider in 1945. Presented to one man and one woman member of Campus Theater who show promise in acting during their sophomore year.

Pat Horrigan

William Pullen

NAVAL RESERVE OFFICERS TRAINING CORPS AWARDS**NAVAL ACADEMY ALUMNI AWARDS**

(Pen and pencil set: name engraved on plaque)

To the outstanding junior or senior student who has excelled in Naval Science.

William R Dawson

BEVERLY HILLS RESERVE OFFICERS ASSOCIATION AWARDS

(Gold watch)

To the outstanding graduating student who has excelled in Naval Science.

George I Chansler

To the outstanding students who excelled during the current year in Naval Science courses.

George I Chansler—gold medal

William R Dawson—silver medal

Sherwood L Simpson—bronze medal

Erhard Schaefer—bronze medal

SCABBARD AND BLADE AWARD

(Medal and ribbon)

To the outstanding student who has just completed his first two years work in Naval Science.

Alcie G Manning

PROFESSOR OF NAVAL SCIENCE LETTERS OF COMMENDATION

Romeo D Hinkston, Battalion Commander

Donald A McArthur, Jr., 2nd Company Commander

MILITARY COMMISSIONS**Officers' Reserve Corps, United States Air Force
Second Lieutenants, Air Force**

Joseph R Bolker

Thomas A Clark

Edward J Grastorf

John E Grauman

Wayne J Lawson

Baker P Lee

Donald R Moeller

Maurice D Plotnick

John B Tuttle

**Officers' Reserve Corps, United States Army
Second Lieutenants, Artillery**

Harry T Jones

John E Lotspiech

James V Traugher

Second Lieutenants, Infantry

Donald Bates

Neal M Gertz

John D Gressett

Second Lieutenant, Quartermaster Corps

David K Schumm

NAVAL COMMISSIONS

Ensigns, Naval Reserve, United States Navy

George Irl Chanler
Raymond B Corob

Royal Hargrave Osterhout
Robert Thomas Scott

Ensign, United States Navy

Lowry Morton Miller

Second Lieutenant, United States Marine Corps

Donald Reid Hughes

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

AWARDED FOR THE ACADEMIC YEAR

1948-1949

CONSOLIDATED VULTEE AIRCRAFT CORPORATION FELLOWSHIP IN PHYSICS

John Arthur Aseltine.....Physics
A.B., University of California, Los Angeles, 1947.

WILLIAM ANDREWS CLARK MEMORIAL LIBRARY GRADUATE FELLOWSHIP

Aubrey Stark.....History
A.B., 1929, and M.A., 1930, University of Michigan.

HATTIE HELLER GRADUATE SCHOLARSHIP

Roland Dewey Hutchinson.....Psychology
A.B., University of California, Los Angeles, 1948.

LATIN AMERICAN GRADUATE SCHOLARSHIP

Daniel Herrera Vascones.....Business Administration
B.S., Central University, Quito, Ecuador, 1948.

WALTER LOEWY SCHOLARSHIP

Peter Krafft Heussenstamm.....Philosophy
A.B., University of California, Los Angeles, 1942; M.S., University of Wisconsin,
1944.

LA VERNE NOYES SCHOLARSHIPS

Phyllis Lenore Hausman.....Music
A.B., University of California, Los Angeles, 1947.

Nancy Louise Robbins.....Mathematics
A.B., University of California, Los Angeles, 1948.

E. I. DU PONT DE NEMOURS AND COMPANY POSTGRADUATE FELLOWSHIP IN CHEMISTRY

James Ninde Pitts, Jr.....Chemistry
B.S., University of California, Los Angeles, 1945.

WILL ROGERS MEMORIAL FELLOWSHIPS

Alexander Harry Chorney.....English
A.B., University of California, Los Angeles, 1947.

Barton Charles Cooper.....Philosophy
A.B., University of California, Berkeley, 1941.

Wilbur Charles Radcliff.....Social Welfare
A.B., University of California, Los Angeles, 1946.

66 *Fellowships and Graduate Scholarships—Undergraduate Scholarships*

SIGNAL OIL AND GAS COMPANY FELLOWSHIP IN OCEANOGRAPHY

Warren Charles Thompson Oceanography
A.B., 1943, and M.S., 1948, University of California, Los Angeles.

STANDARD OIL OF CALIFORNIA FELLOWSHIP IN CHEMISTRY

David Lowell Hagmann Chemistry
A.B., University of California, Los Angeles, 1942.

UNITED STATES RUBBER COMPANY POSTGRADUATE FELLOWSHIP
IN CHEMISTRY

Lloyd L Ingraham Chemistry
B.S., University of California, Berkeley, 1942.

UNIVERSITY FELLOWSHIPS

Shih-Kung Kao Meteorology
B.S., National Tsing Hua University, China, 1939.
Julian L Kavanau Mathematics
B.S., University of Michigan, 1943.
Franklin M Dickey English
A.B., University of Wisconsin, 1942.
George M Zizicas Engineering
Diploma, Civil Engineering, Athens Engineering University, Greece, 1940.
Bernard Earl Bobb History
A.B., 1939, and M.A., 1941, University of California, Los Angeles.
Shih-Sung Hwang Meteorology
B.S., National Central University, China, 1942; M.A., University of California,
Los Angeles, 1947.
Judah Bierman English
A.B., University of Washington, 1939.

AWARDS OF UNDERGRADUATE SCHOLARSHIPS

FOR THE ACADEMIC YEAR 1948-1949

THE STATE OF CALIFORNIA SCHOLARSHIPS

*Given by the Regents of the University of California out of the
income of the University*

Zoila Rose Acosta
Teruko Ellen Akiyama
Charles Aronberg
Ruth Aspiz
Vera Mary Auer
Marcelline Mary Barry
Robert F Benbrooks
Robert O Berdahl
Karl Bernstein
Barbara Preston Briggs
Mary Ellen Briningner
Donna Lee Burch
Arthur Blaine Burriss
Rosemond Irene Busby
Rhoda Cagan
Janis Caldwell
Beverly Ann Carpenter
Marion Mildred Clausen
Jeanne Carole Collins
Marshall Edward Coursen

Eileen Margaret Cox
Frederick Moreland Cox
Dorothy Louise Crawford
Hampton Davis
Ramona Teresa Davis
William Ryan Dawson
Richard David DeLuce
Sally Diane Deutchman
Samuel Joseph Draper
Norman Merle Essman
Bertha Jean Farrow
Virginia W Fenn
Frances Dorothy Frost
Thomas Vaughn Fuller
Lisa Glaser
Harvey Cecil Gonick
Charlotte Mary Graf
Arthur N Greenberg
Marjorie Lou Hall
Ellen Holland Halopoff

Jacquelyn Gray Harrold
 Alice Sjoberg Hill
 Isamu Clarence Hisatsune
 Lloyd Clayton Hubbard
 Elizabeth Roselle Humble
 Nicholas Kasimatis, Jr.
 Erica Mariann Kis
 Aiko Ellen Kubo
 Ruth Delaine LaLonde
 Eugene Levin
 Dorothy Marion Locke
 Frances Mary McAuliffe
 Thelma Irene Marcus
 Dorothy Madelyn Mathews
 Gerald Henry Meaker
 Sarah Ann Mobley
 Lloyd K Moss
 Elizabeth Jane Nagel
 Fannie Elizabeth Nichols
 Ikuko Ruth Oiye
 Kimiko Okanishi
 Gaby Esther Onderwyzer
 Ruth Jean Oreckovsky
 Charles Ethan Owens

Jane Margaret Phillips
 Cynthia Joyce Pont
 Harrison Paul Porter
 Lenora Beth Preston
 Ronald M Reisaner
 Myrtle Irene Robertson
 Lois Dawn Rosenberg
 Ernest Rosencrans
 Barbara Lee Ruth
 Babette Rose Salaberg
 Helen Armstrong Schreider
 Mariel Ruth Shuman
 Carol LaVerne Stover
 Elizabeth Marcia Surace
 Lydia Miyako Takeshita
 Donald Glenn Thomas
 Catherine Joyce Weber
 Mardys Whiteman
 Barbara Marian Winston
 Betty Jean Wofford
 Lillian Shamsky Worthing
 Tamara Yohanan
 Aileen Grace Yonover
 Henry Yoshimoto

THE NONRESIDENT SCHOLARSHIPS

Given by the Regents of the University of California out of the income of the University

Aris Anagnostopoulos
 Josephine Patricia Burns
 Mary Frances Burns
 Salomon Kenner
 Rolf Oeding

John Homer Schaar
 Haiyim Schwarz
 Clifford E B Severn
 John Ellison Wing, Jr.
 Jacquelin Woodward

A GENERAL SCHOLARSHIP

Given anonymously

Anne Whitehouse

THE JESSIE D. CARR SCHOLARSHIP

Established by the Will of Mrs. Henry W. Seale

Jerome Siegel

THE LENA DE GROFF SCHOLARSHIP

Founded by the Will of Lena de Groff

Ted Ronald Frame

Herbert Paul Shyer

THE J. O. DOWNING SCHOLARSHIP

Founded by the Will of J. O. Downing

Agnes Louise Bollin
 Alma Ching Corn
 Daniel Egger, Jr.
 Mary Josephine Gaines
 Rosemary Kathleen Henry
 Sidney Albert Joelson
 Melvin Paul Lesser
 Alice Frances Liberman
 Cosette Juleanne Lodge

James Gordon Lowe
 Carol Talbot Mellin
 Ted Louis Nichols
 Dorsey Ragland
 Mary Elizabeth Renner
 Helen Clara Rohlfen
 Eileen Miriam Schiff
 Manuel Schultz
 Shigehiro Carl Takeshita

Renee E Zucker

Undergraduate Scholarships

THE CHARLES N. AND JENNIE W. FLINT SCHOLARSHIPS

Established by Mr. and Mrs. C. N. Flint

Doris Jean Baird	Eleanor Morris Knecht
Ruth Newton Browning	Oscar Clinton Kolar, Jr.
Patricia Marie Collins	Joyce Yvonne Maynard
Robert Louis Eckert	Louise Wason
Marilyn Hall Elias	Kenji Yamaguma

Joe Aguirre Zavala

THE GOVERNOR GAGE SCHOLARSHIP

Given by the late Regent Garret William McEnerney

Beverly Joan Keller

THE CHARLES B. GLEASON SCHOLARSHIP

Given by the San Jose High School

Clifford Earl Hagle

THE DAVID LIPOW MEMORIAL SCHOLARSHIP

Established by the Chi Chapter of Tau Delta Phi Fraternity

James B Cross

THE WALTER LOEWY SCHOLARSHIP

Established by the Will of Walter Loewy

Hanna Herzberg	Emma Viola Weiss
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THE GOVERNOR MERRIAM SCHOLARSHIP

Given by the late Regent Garret William McEnerney

Janice Foy Taylor

THE O. F. MUNSON MEMORIAL SCHOLARSHIP

Established by the Will of Nellie A. Munson

Nancy Ann Graham	Jewel Bottger
Carole Jeane Hughes	Jane Miller Faison
Bette Eleonore Bottger	Walter Joseph Jadeson

Charles J Yoder

THE NATIONAL BROADCASTING COMPANY SCHOLARSHIPS

Established by the National Broadcasting Company

Virginia Marie Barnette	Paul Hahn
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THE LA VERNE NOYES SCHOLARSHIP

Established by the Will of La Verne Noyes

Charles Aronberg	Carole Jeane Hughes
Mary Ellen Brininger	Oscar Clinton Kolar, Jr.
Janis Caldwell	Charlotte Cecile Krieger
Patricia Marie Collins	Tom Alan Magness
Joan Connelly	Lenora Beth Preston
Ann Elizabeth Douglas	Barbara Lee Ruth
Robert Louis Eckert	Gerald Arthur Shimer
Sonya Myrza Gambera	Ann Elizabeth Stillman
Nancy Ann Graham	Louise Wason

John Ellison Wing, Jr.

THE WILL ROGERS MEMORIAL SCHOLARSHIPS

Established by the Will Rogers Memorial Commission

Patricia Ann Akin	Harriette Goodman
LaRae Cheney Anderson	Elizabeth May Hughes
Jane Elizabeth Baer	Charlotte Cecile Krieger
Harold H Barnett	Olive Bernice McIntosh
Eugenia Olga Chorney	Glen Edward Mayhew
Geraldine Elizabeth Curley	Herbert Morris
Shirley Jane Day	David Signer
Carman Wilder Frye	Inna K Tone
Anne Price Villard	

THE M. EFFIE SHAMBAUGH SCHOLARSHIP

Given by the Faculty Women's Club of the University of California at Los Angeles
Virginia Marie Barnelle

THE GOVERNOR STEPHENS SCHOLARSHIP

Given by the late Regent Garret William McEnerney
Agnes Louise Bollin

THE TOM TREANOR MEMORIAL SCHOLARSHIP

Established by the Los Angeles Times

Charles W Brittin	Peter Horace Graber
Donald W Brown	Shirley Orloff

THE VALLEJO HIGH SCHOOL SCHOLARSHIP

Established by the Vallejo High School
Diane Tiedemann



UNIVERSITY OF CALIFORNIA
COLLEGE OF AGRICULTURE

COMMENCEMENT

Official Program



June 17, 1948

SUNKEN GARDEN

DAVIS

ACADEMIC DRESS is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. In the early times of the universities at Oxford and Cambridge the English word for scholar was clerk, who was a man either in holy orders or presumably about to take them. Pictures in manuscripts of the 15th century show the clerk wore a gown and had the crown of his head shaved to form a tonsure.

The academic gown is closely related to the *cope*, a mantle of silk or other cloth worn by church dignitaries in processions, at solemn lauds, and on other similar occasions. In the famous Ellesmere MS Chaucer's clerk of Oxenford appears in a red skullcap, a furred tippet, and a hood; the hood falling somewhat back. These elements became conventionalized into the cap, gown, and hood of present academic usage.

Three types of gowns and three types of hoods are provided for bachelors, masters, and doctors, respectively. The square caps remain the same except that the doctor's may be of velvet and have a tassel of gold. The bachelor's gown is made of black material and may be distinguished by its pointed sleeves hanging nearly to the knee. The master's gown, made of silk, has closed sleeves (the arm coming through a slit at the elbow), which are square at the end, and extend well below the knee. The doctor's gown is also made of silk with full, round, open sleeves. It is faced with velvet and has three bars of velvet on each sleeve.

The hood, which hangs down the back, is the most significant part of the academic dress. It is of distinctive length, the shortest bachelor's and the longest doctor's. The trimming, or outside, of the hood is finished in the color of the degree which the wearer has earned, and, on the doctor, matches the velvet bars and facing in the front. The most prominent doctors' colors at Davis are blue for philosophy (Ph.D.) and gray for veterinary medicine (D.V.M.). Among the bachelors, maize, symbolizing agriculture, is most common.

The lining of the hood is in the colors of the university which granted the degree. For the University of California the lining is gold with a blue chevron. Other universities include Cornell, two white chevrons on red background; the University of Minnesota, gold with maroon chevron; and Iowa State University, gold above cardinal, no chevron.

This is the first Commencement on the Davis campus of the University of California. In previous years students who have completed the requirements for the Certificate of Graduation or the Bachelor of Science degree have been graduated at the regular exercises on the Berkeley campus.

PROGRAM



ACADEMIC PROCESSION

ENTRY OF CANDIDATES

PROCESSIONAL

California Aggie Orchestra

LAWRENCE E. McARDELL, Instructor in Music, Conductor

NATIONAL ANTHEM

INVOCATION

THE REVEREND FATHER JOSEPH M. MADDEN

St. James Church, Davis

CAMPUS LIFE AND WHAT IT SIGNIFIES

WILLIAM D. ZANKER

Candidate for the Certificate of Graduation in the Two-Year Curricula

TO WHAT USE SHALL WE PUT OUR EDUCATION?

ALBERT C. HANSEN

Candidate for the Degree of Bachelor of Science in Agriculture

FAREWELL REMARKS TO THE GRADUATES

KNOWLES A. RYERSON

Assistant Dean of the College of Agriculture

"HAIL TO CALIFORNIA"

GREETINGS TO THE CLASS OF 1948 AND PRESENTATION OF CANDIDATES

CLAUDE B. HUTCHISON

Vice-President of the University and Dean of the College of Agriculture

CONFERRING OF THE CERTIFICATE OF GRADUATION IN THE TWO-YEAR CURRICULA IN AGRICULTURE AND THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

ROBERT G. SPROUL

President of the University of California

AWARDING OF CERTIFICATES AND DIPLOMAS

ADDRESS TO THE CANDIDATES

The President of the University of California

"ALL HAIL"

BENEDICTION

THE REVEREND JOHN D. FURNAS

Community Church, Davis



MARSHAL: BEN A. MADSON, Professor of Agronomy

UNIVERSITY OF CALIFORNIA



CERTIFICATES, DEGREES, AND HONORS

JUNE 17, 1948

COLLEGE OF AGRICULTURE



CERTIFICATES AWARDED

CERTIFICATE OF GRADUATION IN THE TWO-YEAR CURRICULA IN AGRICULTURE

John Deruelle Alexander	Agronomy	Napa
John Melvin Amaral	Dairy Industry	Newark
Erich Ambort	Dairy Industry	El Centro
John William Anderson	Horticulture	Walnut Creek
Eldon Thomas Andrews	Animal Husbandry	Oakland
Richard Neil Asay	Horticulture	Lodi
Russell Gilbert Asay	Animal Husbandry	Lodi
Richard Darwin Bailey	Animal Husbandry	Arbuckle
Robert Taylor Bartlett	Dairy Industry	South San Francisco
Leland Veitch Bloxham	Animal Husbandry	Redwood City
Manuel Bernard Boals	Horticulture	Yuba City
Gilbert A Bourn	Agronomy	Woodland
James Whitehead Bowden	Dairy Industry	Hanford
Don Thomas Bradley	Animal Husbandry	Klamath Falls, Oregon
Stanley Otis Brown	Truck Crops	Downey
William Henry Brown	Animal Husbandry	Downieville
Robert Dave Burrows	Animal Husbandry	Oakland
Allan Bruce Campbell, Jr.	Animal Husbandry	Bakersfield
Atilio Cesar Capomassi	General	Isla de Maipu, Chile
Hazel Mary Carson	Landscape Gardening	Berkeley
Joseph Louis Celoni	Agronomy	Woodland
Willard Haines Chapman	Animal Husbandry	Yucaipa
Edouard Arthur Chevassus	Horticulture	Redwood City
Edward Anthony Chiappari	Truck Crops	San Francisco
Stanley Joseph Corda	Truck Crops	Salinas
Enrique Correa	General	Santiago, Chile
Caesar Louis Cuneo	Truck Crops	Petaluma
David Lawrence Cunningham	Agronomy	Bell
Earle Glen Cunnison	Animal Husbandry	San Bernardino
Yousif Sharif Dajani	General	Amman, Trans-Jordan
Daniel Joseph Daly	General	Cleveland, Ohio

A.B. John Carroll University 1924

LL.B. Harvard University 1927

Robert Royal Danner	Animal Husbandry	Lynwood
John Mabry Davidson	General	Sacramento
Robert Andrea deGrassi	Animal Husbandry	Willits
Thomas Gilbert Dillon	Agronomy	Yuba City
Lester Eldon Doty	Agronomy	Napa
Ruth Kathleen Ernst	Animal Husbandry	Paso Robles
Samuel Lorenzo Erwin	Horticulture	Visalia
Donald Robertson Falconer	Truck Crops	Porterville
James Edmund Ferguson	General	Porterville
John Spangler Fiddymont	Animal Husbandry	Berkeley
William Stanley Flesher	Agronomy	Fort Bragg
Gameliel George Freyberger	Dairy Industry	South Pasadena
Dayton Arthur Fritz	Dairy Industry	Waukesha, Wisconsin

Donald Braun Giorgi	Landscape Gardening	Ross
Harold Arthur Goehring	Horticulture	Lodi
Earl Alberton Gordon	Landscape Gardening	Pittsfield, Maine
John Hamilton Griffin	Animal Husbandry	Winters
Oscar Guardia	Dairy Industry	San Jose, Costa Rica, C. A.
Gordon Frederick Hansen	Agronomy	Tracy
Albert Ernest Harner	Animal Husbandry	Monterey
Roy Riichi Hatamiya	Horticulture	Marysville
Harry Allen Hays	Truck Crops	Camarillo
John David Henderson	General	San Francisco
William Edward Henderson	Truck Crops	El Centro
Jane Elizabeth Hinchliffe	Landscape Gardening	South Pasadena
Phillip Francis Hofer	Horticulture	San Antonio
Marvin Stanley Hollander	Animal Husbandry	Oakland
James Harvey Hollibaugh	Horticulture	Vallejo
Donald William Holmquist	Animal Husbandry	Redwood City
Charles Donald Huff, Jr.	Agronomy	Woodland
Henry Junzo Ishida	Landscape Gardening	Los Angeles
Emmert Clark Jensen	Dairy Industry	San Diego
Allan Warner Johnson	Truck Crops	Salinas
Stanley Aurand Kaber	Dairy Industry	Orland
Harry H. Kem, Jr.	Animal Husbandry	Los Angeles
Floyd Bernice Kemper	Dairy Industry	Sacramento
Lawrence Richard Kempker	Dairy Industry	Vallejo
Charles Worley Knowles	Animal Husbandry	Willows
John Yutaka Konno	Horticulture	Livingston
Harry John Krokus, Jr.	Animal Husbandry	Saint Albans, New York
Leona Eleanor LaBarge	Animal Husbandry	Napa
Mario Laborin	Dairy Industry	Hermosillo, Sonora, Mexico
Keith Huntington LaMoine	Animal Husbandry	Porterville
Winston Wing Lee	Animal Husbandry	San Francisco
Donald DeWerth Leethem	Animal Husbandry	La Canada
Robert Harvey Leveille	Truck Crops	San Bernardino
Ian Dwight Lockhart	Truck Crops	Santa Rosa
Harold Forrest Loomis	Animal Husbandry	Sacramento
Carlos Lopez y Lopez	Dairy Industry	Santa Ana, El Salvador, C.A.
Douglas Alexander MacCheesney	Animal Husbandry	Monterey
Joseph Gilbert Maurer	General	Porterville
Allen Wilson McAnlis	Animal Husbandry	Los Angeles
Edward Marcus McGough	Animal Husbandry	Roscoe
Dan Carl Menke	Truck Crops	Salinas
Eugene Allyn Moore	Animal Husbandry	Woodland
Richard Jack Morrow	Horticulture	Sanger
Stanley Barnett Murray	Animal Husbandry	Oroai
Robert Glen Norman	Animal Husbandry	Manteca
Charles Russell O'Donnell	Horticulture	Albany
Ann Ellen Oliver	Landscape Gardening	Mount Eden
Ernest George Oswald, Jr.	Animal Husbandry	Redding
James Caldwell Park	Animal Husbandry	Berkeley
Lydia Frances Parrott	Animal Husbandry	Huntington Park
Bertram Theodore Peterson	Dairy Industry	Tucson, Arizona
John Wesley Phillips	Agronomy	Tulare
Norvin Adrian Pinkerman	Horticulture	Wheatland
Emanuel Plafkin	Poultry Husbandry	Davis
Henry Bolton Post	Truck Crops	Palo Alto
William Houston Powell	Agronomy	Tulelake
Muth Moustafa Raslan	General	Homs, Syria
George Allen Richardson	General	Lindsay
Joseph Francis Robinson	Horticulture	San Francisco
Mark Budd Rose	Agronomy	Pittsburg
Raymond Henry Ruegg	Poultry Husbandry	San Francisco
John Joseph Ryan	Truck Crops	Salinas
Tommy Sakata	Truck Crops	Watsonville
Allen Augustus Sanborn	Horticulture	Porterville

David Christian Schmidt	Landscape Gardening	Los Angeles
Richard Karl Schmidt	Horticulture	Linden
Masashi Alvin Seno	Landscape Gardening	Florin
Eileen Claire Shelby	Animal Husbandry	Martinez
Doris Maie Siemens	Landscape Gardening	Pixley
John Simmen	Agronomy	Hayward
James Albert Sloan	Animal Husbandry	Lompoc
Richard Henry Storm	Animal Husbandry	Gridley
John Edward Stumbo	Agronomy	Temple City
Kenneth Edwin Sturgis	Dairy Industry	San Francisco
Leland W. Sullivan	Agronomy	Orland
Herbert Bradford Sumner	Animal Husbandry	
	Kapapala Ranch, Pahala, Kau, Hawaii, T.H.	
Akira Takahashi	Horticulture	Livingston
Mitsugi Larry Tanaka	Truck Crops	Sacramento
Frank Bowie Teague, Jr.	Animal Husbandry	Oildale
Kjeld Hakon Thomsen	Animal Husbandry	Santa Barbara
Irving Tier	Animal Husbandry	Brooklyn, New York
Wilber Donald Timm	Horticulture	Kelsey
Leslie Gordon Todd	Landscape Gardening	Lodi
Daniel Elvior Train	Agronomy	Stockton
Philip Richard Trask	Animal Husbandry	Hayfork
William Grey Tregoning	General	Fort Bragg
Robert Allen Van Buren	Truck Crops	Brentwood
David Van Hook	Horticulture	Pitman, New Jersey
Joseph Charles Violetti, Jr.	Agronomy	San Francisco
Carl Bernard Visman	Horticulture	Placerville
David Owen Walker	Horticulture	Washington, Georgia
Bruce Albert Wallace	Truck Crops	Brawley
James Frederick Weik	Animal Husbandry	Temple City
Paul Westh	Landscape Gardening	Oakland
John Edward Whisler	Horticulture	Coon Rapids, Iowa
Adolph Paul Wingo	Horticulture	San Diego
William Delbert Zanker	Horticulture	San Jose

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THE DEGREE BACHELOR OF SCIENCE IN AGRICULTURE

Robert Arthur Abbott	General Agriculture	Davis
Joe Antognini	Plant Science	Inverness
Moshe Tenenbaum Arzee	Plant Science	Davis
Elizabeth Elsie Berry	Home Economics	Bellflower
Arthur Leo Black	Animal Science	La Crescenta
John Simpson Blackard	Animal Science	Richmond
James Marvin Boda	Animal Science	Jenner
Harry Proctor Bolton, Jr.	Animal Science	Albany
Henry Purden Boyd	Animal Science	Mill Valley
George-Ann Browne	Home Economics	Dinuba
Charles Harold Burger	Animal Science	Ocean Park
Albin Edwin Buswell, Jr.	Animal Science	Watsonville
Frank John Campbell, Jr.	Animal Science	San Francisco
James R. Carter	Animal Science	Phoenix, Arizona
Roland Bogue Chambers	General Agriculture	Gridley
Diane Chaney	Animal Science	Portland, Oregon
Mahlon Dickerson Cooley	Animal Science	El Paso, Texas
Harold Edwin Cott	Entomology and Parasitology	Martinez
James Edward DeTar	Plant Science	Suisun
Francis Arthur Donnelly	Plant Science	Oakland
Melvin Edick	Animal Science	Fullerton
Myrita Beecher Fleming	Home Economics	Stockton
John Francis Gilmore	Agricultural Economics	Oakland
Hyman Gurman	Animal Science	San Francisco
Albert Christian Hansen	Animal Science	Salinas

Howard Herman Harding	Animal Science	Fowler
Robert Everett Harris	Animal Science	Vallejo
Joseph Edwin Heitz	Plant Science	North Long Beach
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Walter Franklin Hughes	Animal Science	Santa Barbara
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Knox McDaniel	Animal Science	Piedmont
Henry Melendy, Jr.	Animal Science	Paicines
Maxine Marie Moeller	Plant Science	Pasadena
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George Ichiro Nemoto	Plant Science	Newark
Franklin Harvey Newhall	Agricultural Education	Atwater
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A.B. Fenn College 1941		
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Don Dean Hudson	Gordon Bruce Stringer
Sidney Eleanor Marx	Laurence Elton Warren

HIGHEST HONORS:

Arthur Leo Black	Orville Dale Page
Dov Nir	Kiyoto Uriu
William Smiley Ware	

AWARDS OF UNDERGRADUATE SCHOLARSHIPS AND PRIZES AT DAVIS FOR 1948-1949

SCHOLARSHIPS

The scholarships here listed, with but few exceptions, are awarded upon the recommendation of the Committee on Undergraduate Scholarships. The awards made by the Committee are based on scholarship, need, and promise, and represent a real distinction, comparable in most cases with the attainment of honor status, excepting where the special conditions of the bequest are such as largely to eliminate competition.

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STATE OF CALIFORNIA SCHOLARSHIPS

FOUNDED BY THE REGENTS OF THE UNIVERSITY OUT OF THE INCOME OF THE UNIVERSITY

Donald Eugene Barr, Junior (Applicant), Pasadena

Jayne Elizabeth Feeley, Freshman (Applicant), Richmond

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GIVEN BY THE FARM HOME DEPARTMENT OF THE CALIFORNIA
FARM BUREAU FEDERATION

Catherine Christina Schleer, Senior, Hollister

HERBERT KRAFT SCHOLARSHIPS

FOUNDED BY THE WILL OF THE LATE GEORGE KRAFT IN HONOR OF HIS FATHER, FOR
THE BENEFIT OF RESIDENTS OF TEHAMA COUNTY

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Glen Preston Eidman, Senior, Corning

Ralph Thomas Siemens, Junior (Applicant), Corning

JAMES MONROE McDONALD SCHOLARSHIPS

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IN MEMORY OF HER HUSBAND

FOR A STUDENT SPECIALIZING IN THE CATTLE INDUSTRY AND GRAZING

Charles E. Cornelius, Senior, Altadena

FOR A STUDENT WITH MAJOR WORK IN HORTICULTURE

Kay Ryugo, Senior, Davis

FOR A STUDENT IN THE COLLEGE OF AGRICULTURE

Alexander N. Jack, Senior, Brawley

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ESTABLISHED BY THE WILL OF LAVERNE NOYES

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HENRY W. SEALE SCHOLARSHIPS

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PETER J. SHIELDS SCHOLARSHIPS

**ESTABLISHED FOR THE BENEFITS OF STUDENTS IN AGRICULTURE AT DAVIS BY THE LATE
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PRIZES

CALIFORNIA FARM BUREAU FEDERATION RURAL LEADERSHIP TROPHY

GIVEN BY THE CALIFORNIA FARM BUREAU FEDERATION

Walter F. Hughes, Class of 1948, Animal Husbandry

HAIL TO CALIFORNIA

Hail to California, Alma Mater dear—
Sing the joyful chorus,
Sound it far and near,
Rallying 'round her banner—
We will never fail—
California, Alma Mater, Hail! Hail! Hail!

Hail to California, queen in whom we're blest,
Spreading light and goodness over all the West
Fighting 'neath her standard—
We shall sure prevail—
California, Alma Mater, Hail! Hail! Hail!

ALL HAIL

All hail! Blue and Gold, thy colors unfold,
O'er loyal Californians, whose hearts are strong
and bold.

All hail! Blue and Gold, thy strength ne'er
shall fail;
For thee we'll die, All hail! All hail!

All hail! Blue and Gold, to thee we shall cling;
O'er golden fields of poppies thy praises we will sing.
All hail! Blue and Gold, on breezes ye sail;
Thy sight we love, All hail! All hail!

UNIVERSITY OF CALIFORNIA

UNIVERSITY OF CALIFORNIA
DIRECTORY

1947 - 1948



UNIVERSITY OF CALIFORNIA DIRECTORY

For the Eight Campuses at

BERKELEY

LOS ANGELES

SAN FRANCISCO

SANTA BARBARA

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RIVERSIDE

MOUNT HAMILTON

LA JOLLA

January, 1948

Comprising the names, titles, office addresses, and home addresses of officers and assistants for the academic year 1947-1948 in all departments of the University, with exceptions as follows: officers and assistants who have served only during the summer sessions, and certain minor assistants whose connection with the University terminated before the spring semester, 1948. Included also are certain other personnel not employed by the University whose activities are closely related to those of the staff.

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BERKELEY AND LOS ANGELES

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KEY TO SYMBOLS AND ABBREVIATIONS

SYMBOLS

The dagger (†) marks the names of officers who are married; the asterisk (*) the names of those absent on leave throughout the year; the double dagger (‡) the names of those on sabbatical leave in residence throughout the year; the superior figure ¹ means in residence fall semester only; ², spring semester only.

ABBREVIATIONS

ADDRESSES

apts	apartments	BH	Beverly Hills	Pas	Pasadena
av	avenue	Bur	Burbank	Pt R	Point Richmond
bldg	building.	CC	Culver City	R	Richmond
blvd	boulevard	ER	Eagle Rock	R Annex	Richmond Annex
ct	court	Glen	Glendale	SB	Santa Barbara
dr	drive	H	Hayward	S Bern	San Bernardino
hts	huts	Holly	Hollywood	SF	San Francisco
pl	place	HP	Huntington Park	S Fern.	San Fernando
rd	road	Ingle	Inglewood	SL	San Leandro
st	street	LA	Los Angeles	SM	Santa Monica
ter	terrace	LB	Long Beach	S Pas	South Pasadena
A	Alameda	N Holly	North Hollywood	SR	San Rafael
Alh	Alhambra	O	Oakland	Van N	Van Nuys
B	Berkeley	P	Piedmont	WLA	West Los Angeles
		Pac Pal	Pacific Palisades		

The number immediately following the abbreviation for the town, in the residence address, is the post-office zone number, which has been used whenever obtainable.

BUILDINGS

Berkeley Campus

AH	Agriculture Hall	HM	Hearst Memorial Mining Building
Adm	Administration Building	ICW	Institute of Child Welfare (2739 Bancroft Way)
Anthro	Anthropology Building	L	Charles Franklin Doe Library
Anthro M	Anthropology Museum	LeConte	LeConte Hall
Arch	Architecture Building	Lewis	Gilbert N. Lewis Hall
Bacon	Bacon Hall	LSB	Life Sciences Building
BL	Bancroft Library	M	Mechanics Building
Boalt	Boalt Hall of Law	Music	Music Building
Cal	California Hall	O	Students Observatory
Callaghan	Daniel J. Callaghan Hall	OB	Temporary Office Buildings (OB-A, B, D, are used as faculty offices; OB-C, Veterans Counseling Service; OB-E, Veterans Administration; OB-F, Coördinator of Veterans Affairs); Q, Housing Office
Chem	Chemistry Building		
CMH	Ernest V. Cowell Memorial Hospital		
CRL	William H. Crocker Radiation Laboratory		
DA	Decorative Art Building		
DA Annex	Decorative Art Annex		
DH	Durant Hall		
DL	Donner Laboratory	Poultry Husb	Poultry Husbandry Laboratory
ED	Engineering Design Building	Rad Lab	Radiation Laboratory
EM	Engineering Materials Laboratory	S	South Hall
Eng	Engineering Building	S Annex	South Hall Annex
Eshleman	Eshleman Hall	Spreckels	Rudolph Spreckels Art Building
FCL	Freshman Chemical Laboratory	T-1 to T-9	Temporary Classroom Buildings, located in Engineering Glade
GB	Grounds and Buildings	T-10	Architecture Drawing Building
Giannini	Giannini Hall	T-11 to T-14	Engineering Laboratories
Gilman	Gilman Hall	Univ Ext	University Extension (2441 Bancroft Way)
Gym M	Gymnasium for Men		
Hearst Gym	Hearst Gymnasium for Women	Vet	Veterinary Science Building
Haviland	Haviland Hall	W	Benjamin Ide Wheeler Hall
Hesse	Hesse Hall		
Hilgard	Hilgard Hall		

Davis Campus

AE	Agricultural Engineering Building	Inf	Infirmary
Agron	Agronomy Building	Irrig	Irrigation Building
AnS	Animal Science Building	LA	Library-Administration Building
Bot	Botany Building	PIPath	Plant Pathology Building
Ch	Chemistry Building	PH	Poultry Husbandry Building
DI	Dairy Industry Building	PM	Physics-Mathematics Building
Enol	Enology Building	Rec	Recreation Hall
Gym	Gymnasium Building	TC	Truck Crops Building
Hort	Horticultural Building		

Los Angeles Campus

Adm	Administration Building	RH	Josiah Royce Hall
CB	Chemistry Building	TEB	Temporary Extension Building
EB	Education Building	TEB 1	Temporary Engineering Building 1
KH	Kerekhoff Hall	TEB 2	Temporary Engineering Building 2
Lib	Library	UES	University Elementary School
LS	Life Science Building	UHS	University High School
MB	Mechanics Building	USNEL	United States Naval Electronics Laboratory
MG	Men's Gymnasium	WPE	Women's Physical Education Building
MHH	Mira Hershey Hall		
PB	Physics-Biology Building		

Temporary buildings are designated by number and letter, the former representing the site, as follows:

Site 1	East of Education Building
Site 2	North of Mechanics Building
Site 3	North of Chemistry Building

San Francisco Campus

Med C, SF	University of California Medical Center, Third and Parnassus avenues, San Francisco
LPC	Langley Porter Clinic, University of California Medical Center

Santa Barbara Campus

Adm	Administration Building	NH	North Hall
EbH	Ebbets Hall	OH	Oak Hall
HC	Health Cottage	PH	Pine Hall
IE	Industrial Education Building	RH	Ridge Hall
LS	Landscape Building	SH	South Hall
MG	Men's Gymnasium	WG	Women's Gymnasium
MH	Music Hall	WH	West Hall

COLLEGES AND DEPARTMENTS

Officers of colleges or departments are designated by an abbreviation following the title, as follows

(A)	California School of Fine Arts
(B)	Departments at Berkeley
(Agr-D)	College of Agriculture at Davis
(Agr-R)	College of Agriculture at Riverside
(D)	College of Dentistry
(H)	Hastings College of the Law
(HF)	George Williams Hooper Foundation for Medical Research
(Hosp)	University of California Hospital
(LA)	Departments at Los Angeles
(LO)	Lick Observatory
(M)	Medical School
(N)	School of Nursing
(Ph)	College of Pharmacy
(S)	Scripps Institution of Oceanography
(SB)	Santa Barbara College

*Key to Symbols and Abbreviations***TELEPHONE EXCHANGES****Berkeley and San Francisco Bay Area**

AN	Andover	Hywd	Hayward	PR	Prospect
AS	Ashberry	JO	Jordan	RA	Randolph
AT	Atwater	JU	Juniper	RI	Richmond
BA	Bayview	KE	Kellog	SE	Seabright
BE	Berkeley	KL	Klondike	SK	Skyline
CH	China	LAKe	Lakehurst	SU	Sutter
DE	Delaware	LAnd	Landscape	SW	Sweetwood
DO	Douglas	LO	Lockhaven (O)	TE	Templebar
EV	Evergreen	LO	Lombard (SF)	TH	Thornwall
EX	Exbrook	MA	Market	TR	Trinidad
FI	Fillmore	MI	Mission	TU	Tuxedo
GA	Garfield	MO	Montrose	TW	Twinoaks
GL	Glencourt	OL	Olympic	UN	Underhill
GR	Graystone	OR	Ordway	VA	Valencia
HE	Hemlock	Ori	Orinda	WA	Walnut
HI	Highgate	OV	Overland	WE	West
HU	Humboldt	PI	Piedmont	YU	Yukon

Los Angeles Area

AD	Adams	GL	Gladstone	PR	Prospect
AL	Albany	GR	Granite	PY	Pyramid
AN	Angelus	HA	Hawthorne	RE	Republic
AR	Arizona	HE	Hempstead	RI	Richmond
AT	Atlantic	HI	Hillside	RO	Rochester
AX	Axminster	HO	Hollywood	RY	Ryan
BL	Blanchard	HY	Hyperion	SM	Santa Monica
BR	Bradshaw	JE	Jefferson	ST	Stanley
BRi	Brighton	KI	Kimball	SU	Sunset
CA	Capitol	LA	Lafayette	Syc	Sycamore
CE	Century	MA	Madison	SYL	Sylvan
CH	Chapman	ME _n	Menlo	TE	Texas
CHar	Charleston	MEt	Metcalf	TH	Thornwall
CI	Citrus	MI	Michigan	TO	Topas
CL	Cleveland	MO	Morningside	TR	Trinity
CR	Crestview	MOnt	Montebello	TU	Tucker
CU	Cumberland	MU	Mutual	TW	Twinoaks
DO	Downey	NE	Nevada	UN	Union
DR	Drexel	NEwm	Newmark	VA	Vandyke
EX	Exposition	NO	Normandie	VE	Vermont
FA	Fairfax	OL	Olympia	WA	Walnut
FE	Federal	OR	Oregon	WE	Webster
FI	Fitzroy	ORch	Orchard	WH	Whitney
G	Glencove	PA	Parkway	WY	Wyoming
GA	Garfield	PL	Pleasant	YO	York

THE REGENTS OF THE UNIVERSITY

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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.

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425 S Windsor blvd, Los Angeles 5
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Crocker First National Bank bldg, San
Francisco 4
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Santa Paula
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242 N Cañon dr, Beverly Hills
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2101 S Gramercy pl, Los Angeles 7
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1947-1948**

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- | | |
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815 S Hill st, Los Angeles 15

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Biological Control	H. S. Smith, State-wide
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Cultivations	R. H. Gray, Riverside
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Entomology and Parasitology	E. O. Essig, Berkeley-Davis
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Genetics	R. E. Clausen, Berkeley
History	V. J. Puryear, Davis
Irrigation	F. J. Veihmeyer, Davis
Irrigation and Soils	M. R. Huberty, Los Angeles-Riverside
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Landscape Gardening	J. L. Stahl, Davis
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Mathematics and Physics	E. B. Roessler, Davis
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Ornamental Horticulture	V. T. Stoutemyer, Los Angeles
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Plant Nutrition	D. R. Hoagland, Berkeley
Plant Pathology	M. W. Gardner, Berkeley-Davis
Plant Pathology	L. J. Klotz, Riverside-Los Angeles
Plant Physiology	E. T. Bartholomew, Riverside
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Architecture	W. C. Perry
Art	S. C. Pepper
Astronomy	S. Einarsson
Bacteriology	A. P. Krueger
Botany	L. Bonar
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Chemistry	W. M. Latimer
Classics	W. H. Alexander
Decorative Art	Lila M. O'Neale
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Education	F. N. Freeman; Vice-Chairman, D. H. Russell

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Slavic Languages	O. Maslenskoy
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Health and Physical Education (Women)	Elizabeth L. Schon
Home Economics	Charlotte Biester
Industrial Education	E. E. Ericson
Music	V. A. Christy
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^P*Southern Section*: C. A. Dykstra, V. O. Knudsen, E. L. Lazier, W. C. Pomeroy, G. F. Taylor.

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r 851 Thirty-second av., SF21. EV 6-3748
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101 Lib
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Comptroller (LA) 1 1M
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115 DA
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317 HM
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For convenience there are listed here the names of other persons who have campus offices.

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1535 39th st, Sacramento | Harold W. Tower, A.B. 1934
956 55th st, O8 |
| James Mills, Jr., B.S. 1917
Hamilton City | M. E. Van Sant, A.B. 1923
727 W 7th st, LA |
| Robert F. Mulvany, A.B. 1924
Livorna rd, Walnut Creek | J. C. Witter, B.S. 1916
45 Montgomery st, SF |

U. C. L. A. ALUMNI ASSOCIATION**OFFICERS**

- | | |
|---|---|
| Paul R. Hutchinson, A.B. 1926
President
433 S Spring st, LA13 | John B. Jackson, A.B. 1927
Executive Secretary
402 Westwood blvd, LA24 |
| Virginia Lindsey Cornwell, A.B. 1940
Vice-President
3013 Palm av, Manhattan Beach | Waldo E. Edmunds, A.B. 1926
Assistant Executive Secretary
402 Westwood blvd, LA24 |
| Ralph A. Stilwell, ex-1928
Treasurer
402 Westwood blvd, LA24 | Dale Stoddard, A.B. 1922
Finance Chairman
957 Bevan, San Gabriel |

EXECUTIVE COUNCIL

- | | |
|--|---|
| William H. Brainerd, A.B. 1935
816 Bevan, San Gabriel | Charles T. Smith, A.B. 1932
727 Cartagena, LB |
| Kenneth Gallagher, 1948
402 Westwood blvd, LA24 | Frances Smith Wilson, A.B. 1927
1546 Highland, Glen |
| Porter Hendricks, A.B. 1934
609 S Grand av, LA14 | Robert B. Wolcott, A.B. 1942
3506 Double dr, El Monte |
| Martha Otis, A.B. 1939
867 S Lucerne, LA5 | Maida Owen Wood, A.B. 1930
10474½ Eastborne, LA24 |
| Lee Payne, A.B. 1926
1320 Palos Verdes dr, Box 996
West Palos Verdes Estates | William G. Young, Ph.D.
Faculty Representative
955 Harvard st, SM |
| Peggie Rich Shedd, A.B. 1944
1820 N LaBrea, LA46 | |

SANTA BARBARA COLLEGE ALUMNI ASSOCIATION**OFFICERS**

- | | |
|---|--|
| Roy L. Stone, 1940
President
1407 Brighton st, LA | Mrs. Ester J. Porter, 1927
Executive Director
West Hall, Riviera campus
181 Alameda Padre Serra, SB |
| Gordon Gray, 1940
Vice-President
1427 Mountain st, SB | F. P. O'Reilly, 1927
Finance Chairman
414 Calle Colorado, SB |

EXECUTIVE COUNCIL

- | | |
|---|--|
| Mrs. Jane Abraham
1721 Santa Barbara st, SB | Edgar S. Leedy, 1943
109 W Fesler st, Santa Maria |
| Martin Benson, 1942
Box 311, Laguna Beach | Mrs. Elizabeth Moulton, 1936
1824 44th st, Sacramento |
| Mrs. Rena S. Black, 1939
23204 S Anchor, Wilmington | Julia Rodgers, 1940
3929 Denker av, LA |
| Rosemarie Dowd, 1942
453 W 22d st, New York 11 | William Russell, 1940
Graduate Manager
525 W Victoria st, SB |
| John L. Erbes, Sr., 1941
Holland bldg, Fresno | Gail Squires, 1946
184 S Pennsylvania st, S Bern |
| Donald Hart, 1939
Box 1556, Bakersfield | Mrs. Mary F. Trehwhitt, 1938
210 Seale av, Palo Alto |
| Harvey Hoffman, 1940
Maui High School
Hamakua, Maui, T.H. | Mrs. Madeline Wilhoit, 1927
4232 Hilldale rd, San Diego |
| Mrs. Dorothy Kenniston, 1945
Rt 1, Box 120, Fillmore | |

UNIVERSITY OF CALIFORNIA

STATISTICAL ADDENDA

1947-1948

UNIVERSITY OF CALIFORNIA

STATISTICAL ADDENDA

FOR THE YEAR

1947-48

SUMMARY OF STUDENTS

SUMMARY OF OFFICERS

SUMMARY OF DEGREES CONFERRED

Compiled by

THE REGISTRAR

BERKELEY, CALIFORNIA

Published by

UNIVERSITY OF CALIFORNIA PRESS

BERKELEY AND LOS ANGELES

NOTE.—In the enumeration of students, each student who was registered and was in actual attendance at any time during the period covered by the report is counted as one student.

In the columns showing the number of students, officers, and degrees conferred, the upper left-hand figures refer to men; the lower to women; the figures on the right are totals.

SUMMARY OF STUDENTS, 1947-48
TABLE I—STUDENTS IN THE ACADEMIC DEPARTMENTS
REGISTERED IN REGULAR SESSIONS

A: Registered at Berkeley: UNDERGRADUATE STUDENTS

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		SPECIALS		TOTAL UNDERGRAD.	
Letters and Science (General)	1,028		1,548		2,315		1,681		939		7,511	
	1,131	2,159	1,427	2,975	1,581	3,896	1,291	2,972	162	1,101	5,592	13,103
Prearchitecture	1		9								10	
Prebusiness Administration	0	1	10								11	
	0	1	1	11							1	12
	7		22								29	
Pre dental	0	7	1	23							1	30
Pre dental Hygiene			0	1							0	1
	50		219								269	
Pre medical	6	56	32	251							38	307
	0		0								0	
Pre nursing	1	1	20	20							21	21
	3		10								13	
Pre optometry	0	3	0	10							0	13
School of Jurisprudence*	16		6								22	
	0	16	0	6							0	22
	41		3								44	
Medical School*	0	41	0	3							0	44
	1,147		1,828		2,315		1,681		939		7,910	
Totals, L. and S.	1,138	2,285	1,482	3,310	1,581	3,896	1,291	2,972	162	1,101	5,654	13,564
	97		159		148		99		85		588	
Agriculture	45	142	54	213	43	191	33	132	6	91	181	769
	57		177								234	
Architecture†	14	71	21	198							35	269
Business Administration†	604		801								1,405	
	63	667	92	893							155	1,560
	100		141		186		114		18		559	
Chemistry	6	106	10	151	12	198	10	124	0	18	38	597
Engineering	11		12		8		5		2		38	
Agricultural	0	11	0	12	0	8	0	5	0	2	0	38
	186		186		122		69		43		606	
Civil	0	186	1	187	0	122	0	69	0	43	1	607
Economic	12		8		4		4		2		30	
Geology	0	12	0	8	0	4	0	4	0	2	0	30
	277		280		259		104		76		996	
Electrical	2	279	2	282	0	259	1	105	0	76	5	1,001
Engineering	14		19		31		11		3		78	
Physics	0	14	0	19	0	31	0	11	0	3	0	78
	83		75		48		14		8		228	
Industrial	1	84	0	75	1	49	0	14	0	8	2	230
	283		234		217		135		62		931	
Mechanical	4	287	1	235	4	221	1	136	0	62	10	941
	16		11		18		4				49	
Metallurgy	0	16	0	11	0	18	0	4			0	49
	10		12		11		6		1		40	
Mining	2	12	0	12	0	11	0	6	0	1	2	42
	17		16		19		16		2		70	
Petroleum	0	17	0	16	0	19	0	16	0	2	0	70
	3		6		4		5				18	
Process	0	3	0	6	0	4	0	5			0	18
	912		859		741		373		199		3,084	
Totals, Engineering	9	921	4	863	5	746	2	375	0	199	20	3,104
	45		58								103	
Forestry†	0	45	0	58							0	103
	0		0								0	
Nursing†	60	60	27	27							87	87
	62		40								102	
Optometry†	1	63	5	45							6	108
	5		5		26		49				85	
Pharmacy†	0	5	4	9	7	33	15	64			26	111
	18		24								42	
Public Health†	38	56	39	63							77	119
TOTALS	3,047	4,992	3,416	5,830	1,648	5,064	1,351	3,667	168	1,409	6,279	20,391
	1,374	4,421	1,738	5,830	1,648	5,064	1,351	3,667	168	1,409	6,279	20,391

The above total, 20,391 (14,112M+6,279W), does not include 258 (195M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, see next page.

* Candidates both for professional and academic degrees.

† Although professional, these students are tabulated here in order to show in a single table all undergraduates registered at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE I- (Continued)

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, deducting 269 (234M+35W) students in the School of Architecture, 1,560 (1,405M+155W) students in the School of Business Administration, 103 (M) students in the School of Forestry, 87 (W) students in the School of Nursing, 108 (102M+6W) students in the School of Optometry, 111 (85M+26W) students in the College of Pharmacy, and 119 (42M+77W) students in the School of Public Health.....

{ 12,141
5,893

GRADUATE STUDENTS

Graduate Students, academic departments. (See also Table V-A).....

{ 2,759
827

TOTAL GRADUATES AND UNDERGRADUATES in the regular sessions at Berkeley* (academic departments only)
(For students in professional schools at Berkeley see Table III)

{ 14,900
6,720

B: Registered at Davis

UNDERGRADUATE STUDENTS IN THE COLLEGE OF AGRICULTURE AT I

	SENIORS 4th year		JUNIORS 3d year		SOPHO- MORES 2d year		FRESHMEN 1st year		SPECIALS		To UNI GR
Degree Curricula...	194		175		228		159		...	...	756
	19	213	19	194	30	258	46	205	...	...	114
2-Year Curricula...	...	...	...	...	315		562		149	...	1,026
	...	...	...	...	23	338	76	638	32	181	131
TOTALS.....	194	213	175	194	543	596	721	843	149	181	1,782
	19	213	19	194	53	596	122	843	32	181	245

TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS in regular sessions at Berkeley and Davis.....

{ 16,682
6,965

* Including graduate students in attendance at other points. See Table V-A.

SUMMARY OF STUDENTS, 1947-48

TABLE I—(Continued)

C: Registered at Los Angeles

STUDENTS IN THE ACADEMIC DEPARTMENTS REGISTERED IN THE UNIVERSITY OF CALIFORNIA AT LOS ANGELES

UNDERGRADUATE STUDENTS

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		TOTAL UNDERGRAD.	
Letters and Science	929		1,021		1,226		651		3,827	
General.....	840	1,769	950	1,971	805	2,031	639	1,290	3,234	7,061
Preidental.....	1		20		51		28		100	
Premedical.....	0	1	1	21	3	54	1	29	5	105
Totals, L. and S.....	3		172		260		175		610	
Premedical.....	1	4	27	199	44	304	38	213	110	720
Totals, L. and S.....	933		1,213		1,537		854		4,537	
Totals, L. and S.....	841	1,774	978	2,191	852	2,389	678	1,532	3,349	7,886
Agriculture.....	27		19		51		50		147	
Agriculture.....	0	27	1	20	4	55	2	52	7	154
Business Administration.....	451		506		673		270		1,900	
Applied Arts.....	66	517	108	614	81	754	65	335	320	2,220
Applied Arts General.....	119		137		197		97		550	
Prenursing.....	328	447	456	593	421	618	353	450	1,558	2,108
Preoptometry.....			0		0		0		0	
Prepharmacy.....			4	4	20	20	25	25	49	49
Totals, Applied Arts.....			16		23		10		49	
Engineering.....			0	16	1	24	0	10	1	50
Engineering.....			1		11		11		23	
Engineering.....			0	1	4	15	6	17	10	33
Totals, Applied Arts.....	119		154		231		118		622	
Totals, Applied Arts.....	328	447	460	614	446	677	384	502	1,618	2,240
Engineering.....	185		329		374		178		1,066	
Engineering.....	0	185	1	330	3	377	2	180	6	1,072
TOTALS.....	1,715		2,221		2,866		1,470		8,272	
TOTALS.....	1,235	2,950	1,548	3,769	1,386	4,252	1,131	2,601	5,300	13,572

Special Students.....	{	761	
		44	805
TOTAL UNDERGRADUATE STUDENTS in the academic departments at Los Angeles	{	9,033	
		5,344	14,377

GRADUATE STUDENTS

Graduate Students, Academic Departments. (See also Table V-B.)

Regular.....	{	1,066	
		402	1,468
Unclassified.....	{	459	
		300	759
TOTALS.....	{	1,525	
		702	2,227

TOTAL GRADUATES AND UNDERGRADUATES, in regular sessions at Los Angeles* (academic departments only) deducting 192 (129M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.....	{	10,429	
		5,983	16,412

* Including graduate students in attendance at other points. See Table V-B.

SUMMARY OF STUDENTS, 1947-48

TABLE I—(Concluded)

D: Registered at Santa Barbara

STUDENTS IN THE ACADEMIC DEPARTMENTS REGISTERED
SANTA BARBARA COLLEGE

UNDERGRADUATE STUDENTS

CURRICULUM	SENIORS		JUNIORS		SOPHOMORES		FRESHMEN		LIMITED STUDENTS		TOTAL UNDERGRADUATE
	4th year		3d year		2d year		1st year				
Students working toward degrees only	157		247		441		231		22		1,098
Students working toward both degrees and teaching credentials*	103	260	113	360	171	612	197	428	64	86	648
	198		168		177		60		10		613
	154	352	165	333	100	277	136	196	11	21	566
TOTALS	355		415		618		291		32		1,711
	257	612	278	693	271	889	333	624	75	107	1,214

Special Students	{	59	
		3	
TOTAL UNDERGRADUATE STUDENTS in the academic departments at Santa Barbara	{	1,770	
		1,217	2

POSTGRADUATE STUDENTS AT SANTA BARBARA

Postgraduate students, academic departments	{	20	
		9	
TOTAL POSTGRADUATES AND UNDERGRADUATES registered in the academic departments at Santa Barbara deducting 7 (2M+5W) students who received their degrees as undergraduates during the year 1947-48	{	1,788	
		1,221	3
TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, BERKELEY, LOS ANGELES, AND ELSEWHERE, during regular sessions	{	28,899	
		14,169	43

* Candidates both for professional and academic degrees.

SUMMARY OF STUDENTS, 1947-48

TABLE II STUDENTS IN SUMMER SESSIONS, 1947

Berkeley

Students in First Summer Session.....	7,262	
	2,656	9,918
Students in Second Summer Session.....	5,506	
	1,242	6,748
TOTALS, deducting 4,467 (3,810M+657W) students registered in both Summer Sessions.....	8,958	
	3,241	12,199

Los Angeles

Students in First Summer Session.....	5,275	
	2,861	8,136
Students in Second Summer Session.....	3,707	
	1,185	4,892
TOTALS, deducting 3,361 (2,661M+700W) students registered in both Summer Sessions.....	6,321	
	3,346	9,667

Santa Barbara

Students in First Summer Session.....	878	
	438	1,316
Students in Second Summer Session.....	537	
	133	670
TOTALS, deducting 520 (438M+82W) students registered in both Summer Sessions.....	977	
	489	1,466

San Francisco

Summer Session, Hastings College of the Law†.....	178	
	1	179

Total

TOTAL STUDENTS IN SUMMER SESSIONS, all duplicates deducted.....	16,434	
	7,077	23,511
TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, BERKELEY AND ELSEWHERE, deducting 14,754 (11,859M + 2,895W)* students in Summer Sessions who registered in any regular session (does not include Summer Session at the Hastings College of the Law).....	33,287	
	18,334	51,621

* Berkeley, 8,100 (6,579M+1,521W); Los Angeles, 5,790 (4,618M+1,172W); Santa Barbara, 864 (662M+202W).

† Although professional, these students are tabulated here in order to show in a single table all students registered in Summer Sessions.

SUMMARY OF STUDENTS, 1947-48

TABLE III

STUDENTS IN PROFESSIONAL SCHOOLS AND COLLEGE
(Berkeley and elsewhere)

A: Regular Sessions

SCHOOL OR COLLEGE	4th year	3d year	2d year	1st year	Spec.	Totals
School of Architecture (Berkeley)	..	14	48	193	..	255
School of Business Administration (Berkeley)	..	2 16	14 62	22 215	..	30
School of Education (Berkeley) (Graduate)	..	137	908	550	..	1,592
School of Forestry (Berkeley)	..	4 141	80 988	79 629	..	16
School of Jurisprudence (Berkeley)	..	4	63	43	..	40
School of Librarianship (Berkeley) (Graduate)	..	0 4	0 63	0 43	..	32
Medical School: San Francisco	..	2	77	92	..	11
M.D. Curriculum	..	0 2	8 85	3 81	6 98	24
Special Resident Fellows	9	10	..	1
Curriculum in Medical Technology	11 20	36 46	..	4
Curriculum in Physical Therapy	..	58	56	65	..	17
Course for X-Ray Technicians	..	10 68	15 71	7 72	..	3
Course for Orthoptic Technicians	41	4
Totals, San Francisco	1	..
Berkeley:	2	..
M.D. Curriculum	1	..
Totals, Medical School	7 8	..
School of Nursing:	1 1	..
San Francisco:	5 6	..
Curriculum in Nursing	0	..
Curriculum in Nursing Education	0	..
Totals, San Francisco	1 1	..
Berkeley:	3	..
Totals, School of Nursing	0	..
School of Optometry (Berkeley)	3	..
School of Public Health	25	..
Berkeley	30 55	..
San Francisco	0	..
Totals, School of Public Health	6 19 18 25	..
School of Social Welfare (Berkeley) (Graduate)	71 90	..
Hastings College of the Law (San Francisco)	59 72	..
College of Dentistry:	5	..
San Francisco:	12 243	..
D.D.S. Curriculum	0 74	..

SUMMARY OF STUDENTS, 1947-48

TABLE III—(Continued)

SCHOOL OR COLLEGE	4th year	3d year	2d year	1st year	Spec.	TOTALS
College of Dentistry—(Continued)						
Dental Hygiene.....			0 0	12 12	16 16	0 28
Postgraduate.....					12	12
Totals, College of Dentistry.....	15	41	43	74	0 12	0 12
College of Pharmacy:	0 15	1 42	12 55	16 90	0 12	29 214
San Francisco:						
B.S. Curriculum.....	21	59	66			146
Postgraduate.....	6 27	7 66	7 73		3	20 166
Totals, San Francisco.....					3	3
Berkeley.....	21	59	66		0 3	0 3
Totals, College of Pharmacy.....	6 27	7 66	7 73	26 111	3	149
Santa Barbara College Teacher Training Curricula				85		85
Candidates, degrees and credentials ..	21	59	66	26 111	3	26 111
Candidates, credentials only, Post-graduate.....	6 27	7 66	7 73	26 111	0 3	234 111
Totals, Santa Barbara.....	198	168	177	60	10	613
Totals, College of Pharmacy.....	154 352	165 333	100 277	136 196	11 21	566 1,179
Santa Barbara College Teacher Training Curricula						29
Candidates, degrees and credentials ..						29
Candidates, credentials only, Post-graduate.....					28 57	28 57
Totals, Santa Barbara.....	198	168	177	60	39	642
Totals, Santa Barbara.....	154 352	165 333	100 277	136 196	39 78	594 1,236
TOTALS.....						4,755 1,799 6,554

B: Summer Sessions

Hastings College of the Law.....	{	178	
		1	179
TOTAL STUDENTS IN THE PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY, BERKELEY AND ELSEWHERE, deducting 161 (160M+1W) students in the Summer Session who registered in any regular session.....	{	4,773	
		1,799	6,572

TABLE IV

SUMMARY OF STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, BERKELEY AND ELSEWHERE

Total Students in the Academic Departments.....	{	33,287	
		18,334	51,621
Total Students in the Professional Departments.....	{	4,773	
		1,799	6,572
Deduct:			
Students in the Academic Departments at Berkeley (College of Letters and Science) registered also in:			
Medical School (see Tables I-A and III).....	{	44	
		0	44
School of Jurisprudence (see Tables I-A and III).....	{	22	
		0	22
Graduate Students in the School of Education (Berkeley) also pursuing work in an academic field (see Tables III and V-A).....	{	122	
		47	169
Students at Santa Barbara registered in both Academic and Professional Departments (see Tables I-D and III).....	{	613	
		566	1,179
TOTAL DEDUCTIONS.....	{	801	
		613	1,414
GRAND TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, all duplicates deducted.....	{	37,259	
		19,520	56,779
TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, BERKELEY AND ELSEWHERE, during regular sessions.....	{	32,844	
		15,339	48,183
TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS AT BERKELEY, during regular sessions.....	{	17,708	
		7,617	25,325

SUMMARY OF STUDENTS, 1947-48

TABLE V
GRADUATE STUDENTS REGISTERED IN ACADEMIC AND PROFESSIONAL DEPARTMENTS

A: Registered at Berkeley

NOTE. - All students were in residence at Berkeley unless otherwise indicated.

Agriculture		Agriculture—(Continued)	
Agriculture	1	Pl. Path.--(Continued)	2
Berkeley	0 1	Davis	0 2
	3		1
Davis	0 3	Riverside	0 1
Agricultural Chemistry	8	Plant Physiology	27
Berkeley	0 8	Berkeley	2 29
	1		2
Davis	0 1	Davis	1 3
	42		1
Agricultural Economics	1 43	Poultry Industry, Davis	0 1
	18	Soil Science	32
Agricultural Technology I	2 20	Berkeley	0 32
Agricultural Technology II	5		4
Davis	0 5	Davis	0 4
	8		1
Agronomy, Davis	0 8	Riverside	0 1
Animal Husbandry	1		7
Berkeley	0 1	Truck Crops, Davis	0 7
	8		1
Davis	1 9	Veterinary Science	0 1
Animal Nutrition	3		
Berkeley	1 4		
	1		
Davis	0 1	Totals, Agriculture	376
Botany	25		59
Berkeley	11 36	Anatomy	7
	1		1
Davis	0 1	Anthropology	27
Comparative Pathology	2		17
Davis	0 2		2
Comparative Physiology	2	Architecture	1
Davis	0 2		21
Entomology	64	Architecture, School of	3
Berkeley	4 68		22
	1	Art	36
Davis	0 1		16
	6	Astronomy	4
Riverside	0 6	Bacteriology	27
	15	Berkeley	12 39
Forestry	0 15		1
	7	Davis	0 1
Forestry, School of	0 7	Hooper Foundation,	2
Genetics	28	San Francisco	1 3
Berkeley	1 29	Medical Departments,	0
	5	San Francisco	1 1
Davis	0 5		30
Home Economics	0	Totals	14
Berkeley	30 30		50
	0	Biochemistry	7
Davis	2 2		25
Horticulture	3	Biophysics	3
Berkeley	0 3		190
	12	Business Administration, School of	8
Davis	2 14	Chemistry	145
	2	Berkeley	17 162
Irrigation	0 2		2
	6	Davis	0 2
Landscape Design	0 6		147
Plant Pathology	20	Totals	17
Berkeley	1 21		3
		Classics	1

SUMMARY OF STUDENTS, 1947-48

TABLE V- (Continued)

Comparative Biochemistry	12			Engineering		
Comparative Pathology* 6	1	13		Agricultural	1	
Berkeley	0	6		Berkeley	0	1
Hooper Foundation,	1				2	
San Francisco	0	1		Davis	0	2
Totals	7				35	
Comparative Pharmacology	0	7		Chemical	0	35
and Toxicology	0				62	
Berkeley	1	1		Civil	0	62
Medical Departments,	2				80	
San Francisco	1	3		Electrical	0	80
Totals	2			Engineering Physics	0	1
	0	4			2	
Decorative Art	8	8		Industrial	0	2
	1				82	
Dentistry	0	1		Mechanical	0	82
	1				28	
Dramatic Art	1	2		Metallurgy	0	28
	184				3	
Economics	30	214		Mining	0	3
Education (students with academic	159				13	
major leading to M.A. or Ph.D.)	97	256		Petroleum	0	13
Education, School of:				Totals, Engineering	309	309
Students (not enumerated					0	
elsewhere in this table)					100	
with teaching major lead-				English	67	167
ing to teaching credential	156				16	
Berkeley	263	419		French	20	36
	28				30	
Davis	0	28		Geography	8	38
Students with teaching					40	
major leading to teaching				Geology	1	41
credential who are shown					2	
elsewhere in this table as				Geophysics	0	2
having also an academic	99				11	
major leading to a degree..	42	141		German	14	25
Students in curriculum					2	
leading to Administration				Greek	1	3
Credential who also have					176	
a teaching major leading	9			History	44	220
to teaching credential	0	9			1	
Students (without teach-				History—Education	0	1
ing major) in curriculum					1	
leading to Administration	60			History—Philosophy	0	1
Credential	11	71		Hospital Dietetics	0	
Students in curriculum				Berkeley	3	3
leading to the Administra-					0	
tion Credential who are				San Francisco,	2	2
shown elsewhere as having				Totals	5	5
also an academic major	23				12	
leading to a degree	5	28		International Relations	7	19
Students (without teach-					5	
ing major) in curriculum				Italian	0	5
leading to:	24				2	
Ed.D.	3	27		Journalism	1	3
	1				227	
M.Ed., Davis	0	1		Jurisprudence, School of	17	244
Totals, School of Education.	324	724			2	
	2			Latin	1	3
Endocrinology	1	3			2	
				Latin American Studies	0	2

* See also Agriculture.

SUMMARY OF STUDENTS, 1947-48

TABLE V- (Continued)

	19			36
Librarianship, School of	47	66	Premedical	13
Linguistics	3		Premedical and Psychology	0
Mathematics	1	4	Preoptometry	1
Medical Physics	83		Psychology	181
Medical School (first year)	25	108	Public Health	99
Microbiology	10		Public Health, School of	1
Music	0	10	Romance Languages	26
Near Eastern Languages	21		Romance Literature	7
Nursing, School of	7	28	Romance Philology	0
Optometry, School of	7		Sanskrit	1
Oriental Languages	3	10	Seismology	2
Paleontology	32		Slavic Languages	1
Parasitology	17	49	Social Institutions	4
Pharmaceutical Chemistry	1		Sociology	0
Berkeley	0	1	Sociology and Social Institutions ..	6
San Francisco	9		Social Welfare	6
Totals	0	10	Social Welfare, School of	28
Pharmacology, San Francisco	2		Spanish	31
Philosophy	1	3	Speech	124
Physical Education	32		Statistics	29
Physics	12	44	Zoology	23
Physiology	16		Berkeley	1
Physiological Optics	11	27	Davis	10
Political Science	211		Totals	3
Prebusiness Administration	5	216	TOTALS, deducting 169 (122M+	
Predental	30		47W) students in the School of	
	8	38	Education who are also shown	
	3		as having majors in other de-	
	0	3	partments	3,596
	129			1,338
	42	171		
	0			
	1	1		
	4			
	0	4		

The students enumerated above were in residence as follows:

	3,471			
Berkeley	1,326	4,797	San Francisco—(Continued)	
Davis (College of Agriculture)	101		Hooper Foundation for Medical	3
Riverside (College of Agriculture)	6	107	Research	1
San Francisco:	8		Hospital Dietetics	0
College of Pharmacy	0	8	Medical Departments	2
(Academic Curricula)	9		(Academic Curricula)	4
	0	9	TOTALS	3,596
				1,338

SUMMARY OF STUDENTS, 1947-48

TABLE V—(Concluded)

B: Registered at Los Angeles

NOTE.—All students were in residence at Los Angeles unless otherwise indicated. Does not include Unclassified Students. See Table I-C.

Anthropology.....	1			Microbiology.....	8		
	3	4		Los Angeles.....	13	21	
	16			Scripps Institution of	3		
Anthropology and Sociology.....	22	38		Oceanography, La Jolla	0	3	
	5						11
Applied Physics.....	0	5		Totals.....			13
	10						13
Art.....	18	28		Music.....			13
	9			Oceanography.....	2		
Botany.....	5	14		Los Angeles.....	0	2	
	54			Scripps Institution of	29		
Business Administration.....	8	62		Oceanography, La Jolla	1	30	
	69						31
Chemistry.....	7	76		Totals.....			1
	38						18
Economics.....	6	44		Philosophy.....			2
	111			Physical-Biological Science	5		
Education.....	51	162		Los Angeles.....	0	5	
	44			Scripps Institution of	1		
Engineering.....	1	45		Oceanography, La Jolla	0	1	
	60						6
English.....	42	102		Totals.....			0
	15						30
French.....	13	28		Physical Education.....			17
	13			Physics.....	76		
Geography.....	2	15		Los Angeles.....	2	78	
	29			Scripps Institution of	3		
Geology.....	0	29		Oceanography, La Jolla	0	3	
	7						79
German.....	9	16		Totals.....			2
	1						53
Greek.....	0	1		Political Science.....			15
	82						89
History.....	27	109		Psychology.....			40
	0						1
Home Economics.....	10	10		Public Health.....			1
	12						0
Horticultural Science.....	0	12		Romance Languages.....			1
	1						4
Latin.....	2	3		Social Welfare.....			14
	49						13
Mathematics.....	6	55		Sociology.....			4
Meteorology.....	39						20
Los Angeles.....	2	41		Spanish.....			27
Scripps Institution of	1			Zoology.....	28		
Oceanography, La Jolla	0	1		Los Angeles.....	18	46	
Totals.....	40	42		Scripps Institution of	4		
	2			Oceanography, La Jolla	0	4	
							32
				Totals.....			18
							1,066
				TOTALS.....	402	1,468	

The students enumerated above were in residence as follows:

Los Angeles.....	1,025			Riverside (College of Agriculture).....	0		
La Jolla (Scripps Institution of	401	1,426			0	0	
Oceanography).....	41			TOTALS.....	402	1,468	
	1	42					

SUMMARY OF STUDENTS, 1947-48

TABLE VI

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

(Students enumerated in Tables I, II, III, IV, and V)

At Berkeley:

Undergraduate Students*	14,112	
	{ 6,279	2}
Graduate Students	3,596	
	{ 1,338	
Total Graduates and Undergraduates in the regular sessions	17,708	
	{ 7,617	2}
Students in Summer Sessions, 1947 (duplicates deducted)	8,958	
	{ 3,241	1}
TOTALS, Berkeley, deducting 8,100 (6,579M+1,521W) duplicates (see Table II)	20,087	
	{ 9,337	2}

At San Francisco:

College of Dentistry		
Professional Curricula	173	
	{ 29	202}
Academic Curricula	0	
	{ 0	0}
Postgraduate	12	
	{ 0	12}
Totals	185	
	{ 29	
Hastings College of the Law	559	
	{ 24	
Hooper Foundation for Medical Research	3	
	{ 1	
Curriculum in Hospital Dietetics	0	
	{ 2	
Medical School, Professional Curricula†	223	
	{ 46	
Medical Departments, Academic Curricula	4	
	{ 3	
School of Nursing	0	
	{ 132	
College of Pharmacy		
Professional Curriculum	146	
	{ 20	166}
Academic Curricula	9	
	{ 0	9}
Postgraduate	3	
	{ 0	3}
Totals†	158	
	{ 20	
School of Public Health	0	
	{ 3	
Totals, San Francisco, regular sessions	1,132	
	{ 260	
Students in Summer Sessions, 1947 (Hastings College of the Law)	178	
	{ 1	
TOTALS, San Francisco, deducting 161 (160M+1W) duplicates	1,150	
	{ 260	

* Does not include 258 (195M+63W) graduate students who received their degrees as graduates during the year 1947-48.

† Does not include students in residence at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE VI—(Continued)

<i>At Los Angeles, University of California at Los Angeles:</i>			
Undergraduate Students.....	{	9,033	
		5,344	14,377
Graduate Students.....	{	1,525	
		702	2,227
Total Graduates and Undergraduates in the regular sessions deducting 192 (129M+63W) for graduate students who received their degrees as undergraduates during the year 1947-48.....	{	10,429	
		5,983	16,412
Students in Summer Sessions, 1947.....	{	6,321	
		3,346	9,667
TOTALS, Los Angeles, deducting 5,790 (4,618M+1,172W) duplicates (see Table II).....	{	12,132	
		8,157	20,289
<i>At Santa Barbara:</i>			
Undergraduate Students.....	{	1,770	
		1,217	2,987
Postgraduate Students.....	{	42	
		31	73
Total Postgraduates and Undergraduates in the regular sessions, deducting 8 (3M+5W) postgraduates who received degrees as undergraduates during the year 1947-48.....	{	1,809	
		1,243	3,052
Students in Summer Sessions, 1947.....	{	977	
		489	1,466
TOTALS, Santa Barbara, deducting 864 (662M+202W) duplicates (see Table II).....	{	2,124	
		1,530	3,654
<i>At other points:</i>			
Davis—College of Agriculture			
Undergraduate Students.....	{	1,782	
		245	2,027
Graduate Students.....	{	101	
		6	107
Totals.....	{	1,883	
		251	2,134
La Jolla—Scripps Institution of Oceanography.....	{	41	
		1	42
Mt. Hamilton—Lick Astronomical Department.....	{	0	
		0	0
Riverside—College of Agriculture.....	{	8	
		0	8
TOTALS, other points.....	{	1,932	
		252	2,184

SUMMARY OF STUDENTS, 1947-48

TABLE VI—(Concluded)

Deduct:

Undergraduate students registered at Berkeley but in attendance at San Francisco, School of Public Health.....	{ 0	3	3
Graduate Students registered at Berkeley, but in attendance at:			
Davis.....	{ 101	6	107
Riverside.....	{ 8	0	8
San Francisco:			
College of Pharmacy (Academic Curricula).....	{ 9	0	9
Hooper Foundation for Medical Research.....	{ 3	1	4
Hospital Dietetics.....	{ 0	2	2
Medical Departments.....	{ 4	3	7
Graduate Students registered at Los Angeles, but in attendance at:			
La Jolla.....	{ 41	1	42
Total Deductions.....		{ 166	16
TOTAL RESIDENT STUDENTS, ALL DUPLICATES DEDUCTED.....		{ 37,259	19,520 51
TOTAL RESIDENT STUDENTS, REGULAR SESSIONS ONLY.....		{ 32,844	15,339 41

SUMMARY OF STUDENTS, 1947-48

TABLE VII

STUDENTS NOT ENUMERATED IN THE FOREGOING TABLES

NOTE.—Students enumerated in Tables I-VI received resident instruction during 1947-48 in courses which constituted an integral part of curricula leading to degrees, or in other courses of instruction based upon regular University matriculation requirements. In Table VII are enumerated students in other courses.

Los Angeles Medical Department.....	{	65		
		0		65
University Extension:				
Department of Class Instruction (enrollment).....				158,723
Department of Institutes (enrollment).....				13,009
Department of Correspondence Instruction (courses).....				14,347
Lectures (attendance).....				148,845
University Extension in Agriculture:				
Farmers' Meetings.....				930,211
Agricultural Clubs.....				13,629

SUMMARY OF OFFICERS, 1947-48

TABLE VIII

(Exclusive of officers serving only during the Summer Sessions)

Administrative Officers (including 5 Emeritus)	28	Departments at Berkeley	18	University of California at Los Angeles	6	Medical School, San Francisco and Berkeley	0	School of Nursing, San Francisco	1	College of Dentistry, San Francisco	1	College of Pharmacy, San Francisco	1	Hooper Foundation for Medical Research, San Francisco	1	Hastings College of the Law, San Francisco	1	College of Agriculture, Davis	2	College of Agriculture, Riverside	2	Lack Astronomical Dept., Mt. Hamilton	1	Scipps Institution of Oceanography, La Jolla	2	Santa Barbara College	5	Deduct for names counted more than once	6	Gross Totals	68	Totals	62
Professors (including 73 Emeritus)	299		30	21	1	7	3	0	0	0	1	0	0	1	2	0	0	2	0	2	0	0	1	0	2	7	1	7	12	80	11	73	
Associate Professors (including 19 Emeritus)	147		101	117	53	55	9	9	1	1	10	4	4	2	2	1	1	27	2	2	1	0	4	8	26	5	5	367	409	42	404		
Assistant Professors (including 10 Emeritus)	145		92	108	89	103	4	4	0	18	3	3	5	2	5	0	3	48	2	50	3	1	10	44	10	54	3	5	450	448	511		
Instructors	70		39	124	124	14	3	3	43	1	12	0	5	15	15	0	15	0	15	0	15	0	1	24	8	32	2	2	332	330	378		
Lecturers	199		102	122	33	35	2	2	9	6	6	6	0	13	13	0	13	1	1	1	1	0	1	8	12	14	5	5	377	372	454		
Associates	43		8	26	0	3	3	0	0	1	1	1	1	22	22	0	22	30	30	6	6	5	5	1	1	14	0	5	82	459	82	454	
Assistants	44		28	44	133	140	0	0	15	0	15	0	0	8	8	0	8	0	0	1	1	0	0	5	10	12	12	25	257	257	257		
Teaching Assistants	444		217	283	66	283	0	0	0	0	4	4	0	2	2	0	2	0	2	2	0	0	1	0	1	0	1	170	839	170	839		
Other Officers of Instruction	10		3	7	2	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	0	0	0	0	0	0	18	18	18	18		
Deduct for names counted more than once	2		17	6	2	2	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	14	4	10	28	10	28	
	1414		717	6	488	5	104	1	104	1	21	21	27	7	7	27	177	21	21	21	12	12	19	126	37	37	3138	3101	3101	3101	3101		

Librarians (including 2 Emeritus).....	4	4	2	1	1	17	27	199	29	14	21	128	47	3344	3297	7	1	8
Curators of Museums.....	0	9	0	2	0	1	1	27	13	212	0	21	39	603	3947	8	1	13
Other Officers of Research.....	80	14	11	4	15	0	10	24	9	2	2	2	2	152	38	190	1	13
Student Health Service.....	47	107	4	18	4	15	1	0	24	0	2	2	2	38	190	38	190	190
Deduct for names counted more than once.....	10	63	7	13	2	2	1	2	1	1	1	0	2	55	55	55	25	80
TOTALS, duplicates deducted...	1544	737	498	5	104	21	17	27	199	29	14	21	128	3344	3297	3	8	3886
	283	1827	180	917	53	551	21	26	9	113	1	22	4	21	0	29	0	29

Administrative Officers.....	27	10	37	0	1	21	17	27	199	29	14	21	128	47	3344	3297	7	1	8
Assistants to Administrative Officers.....	60	131	191	2	3	3	1	3	3	0	3	0	2	11	152	38	190	190	
Professors.....	735	127	862	1	7	7	1	7	2	1	1	0	2	21	21	30	30	80	
Associate Professors.....	999	228	1,227	22	34	34	12	34	12	34	12	34	12	34	12	34	12	34	
Assistant Professors.....	64	29	93	56	239	239	56	239	56	239	56	239	56	239	56	239	56	239	
Lecturers.....	1,885	525	2,410	217	287	287	217	287	217	287	217	287	217	287	217	287	217	287	
Assistants.....	5	104	109	5	104	109	5	104	5	104	5	104	5	104	5	104	5	104	
Specialists.....	2	12	14	2	12	14	2	12	2	12	2	12	2	12	2	12	2	12	
Extension Teachers.....	1,885	525	2,410	217	287	287	217	287	217	287	217	287	217	287	217	287	217	287	
Extension Readers.....	1,885	525	2,410	217	287	287	217	287	217	287	217	287	217	287	217	287	217	287	
TOTALS.....	1,885	525	2,410	217	287	287	217	287	217	287	217	287	217	287	217	287	217	287	

SUMMARY

Regents of the University.....	24
Administrative Officers.....	62
Other Officers.....	11
Total, exclusive of University Extension.....	3,235
Total, University Extension.....	3,321
GRAND TOTAL.....	2,102
	595
	2,697
	5,423
	1,184
	6,607

DEGREES CONFERRED, 1947-48

TABLE IX

A: *Berkeley*

College of Pharmacy, B.S.....	22
	6
College of Dentistry, D.D.S.....	16
	0
B.S.....	1
	12
Hastings College of the Law, LL.B.....	88
	4
School of Architecture, A.B.....	24
	5
School of Business Administration, B.S.....	586
	64
School of Forestry, B.S.....	44
	0
Medical School, Physical Therapy, B.S.....	1
	6
School of Nursing, B.S.....	0
	82
School of Optometry, B.S.....	46
	1
School of Public Health, B.S.....	7
	21
College of Agriculture, B.S.....	117
	37
College of Chemistry, B.S.....	88
	6
College of Engineering, B.S.....	627
	5
College of Letters and Science, A.A.....	692
	639
A.B.....	1,125
	990
School of Librarianship, B.L.S.....	11
	30
Master of Business Administration.....	43
	1
Master of Criminology.....	0
	6
Master of Education.....	0
	3
Master of Engineering.....	0
	3
Master of Forestry.....	0
	20
Master of Public Health.....	7
	12
Master of Social Welfare.....	51
	0
Master of Library Science.....	2
	142
Master of Science.....	8
	265
Master of Arts.....	97
	74
School of Jurisprudence, LL.B.....	10
	58
Medical School, M.D.....	10
	3
Doctor of Education.....	1
	1
Civil Engineer.....	0
	2
Mechanical Engineer.....	0
	109
Doctor of Philosophy.....	13
	4,237
TOTAL DEGREES, Berkeley.....	2,108

(Comparable totals: 1943-44, 3,068; 1944-45, 2,743; 1945-46, 3,047; 1946-47, 4,662.)

DEGREES CONFERRED, 1947-48

TABLE IX—(Concluded)

B: *Davis*

College of Agriculture, B.S.....	60	
	10	70

C: *Los Angeles*

College of Letters and Science, A.A.....	535	
	391	926
A.B.....	745	
	635	1,380
B.S.....	72	
	5	77
College of Agriculture, B.S.....	21	
	0	21
College of Business Administration, A.A.....	211	
	34	245
B.S.....	538	
	52	590
College of Applied Arts, A.A.....	65	
	194	259
A.B.....	27	
	96	123
B.S.....	45	
	138	183
College of Engineering, B.S.....	82	
	0	82
School of Public Health, B.S.....	3	
	0	3
Master of Arts.....	103	
	33	136
Master of Business Administration.....	14	
	2	16
Master of Education.....	7	
	3	10
Master of Science.....	35	
	3	38
Doctor of Education.....	14	
	0	14
Doctor of Philosophy.....	25	
	2	27
TOTAL DEGREES, Los Angeles.....	2,542	
	1,588	4,130

(Comparable totals: 1943-44, 1,559; 1944-45, 1,541; 1945-46, 1,965; 1946-47, 2,884.)

D: *Santa Barbara*

School of Education, A.B.....	187	
	164	351

E: *Honorary Degree*

Doctor of Laws (Berkeley).....	6	
	0	6
Doctor of Laws (Los Angeles).....	3	
	0	3
TOTAL DEGREES CONFERRED, 1947-48.....	7,035	
	3,870	10,905

(Comparable totals: 1943-44, 4,637; 1944-45, 4,433; 1945-46, 5,197; 1946-47, 7,789.)

SUMMARY OF STUDENTS, 1947-48

TABLE X

VETERANS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS REGISTERED IN REGULAR SESSIONS

A: Registered at Berkeley

UNDERGRADUATE STUDENTS AT BERKELEY

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		SPECIALS		TOT UNDI GRA
Letters & Science	799		1,191		1,424		661		775		4,850
General.....	73	872	93	1,284	92	1,516	44	705	78	853	380
	1		5								6
Prearchitecture	0	1	0	5							0
Prebusiness Ad-	1		7								8
ministration..	0	1	1	8							1
	7		18								25
Predental.....	0	7	0	18							0
Predental			1								1
Hygiene.....			0	1							0
	27		139								166
Premedical.....	1	28	0	139							1
			0								0
Prenursing.....			7	7							7
	3		8								11
Preoptometry..	0	3	0	8							0
School of Juris-	16		6								22
prudence.....	0	16	0	6							0
	31		3								34
Medical School.	0	31	0	3							0
	885		1,378		1,424		661		775		5,123
Totals, L. and S.	74	959	101	1,479	92	1,516	44	705	78	853	389
	81		130		95		34		77		417
Agriculture.....	5	86	1	131	5	100	0	34	2	79	13
	45		148								193
Architecture.....	1	46	1	149							2
Business Ad-	533		654								1,187
ministration...	1	534	4	658							5
	84		97		99		31		18		329
Chemistry.....	0	84	0	97	0	99	0	31	0	18	0
Engineering	1		9		6		1		2		19
Agricultural...	0	1	0	9	0	6	0	1	0	2	0
	164		142		80		26		41		453
Civil.....	0	164	0	142	0	80	0	26	0	41	0
Economic	12		6		3		3		2		26
Geology.....	0	12	0	6	0	3	0	3	0	2	0
	253		229		208		50		70		810
Electrical.....	0	253	1	230	0	208	0	50	0	70	1
Engineering	12		17		22		5		3		59
Physics.....	0	12	0	17	0	22	0	5	0	3	0
	76		61		34		6		8		185
Industrial.....	0	76	0	61	0	34	0	6	0	8	0
	236		182		138		48		57		661
Mechanical.....	0	236	0	182	0	138	0	48	0	57	0
	15		9		13		1				38
Metallurgy.....	0	15	0	9	0	13	0	1			0
	9		11		9		3		1		33
Mining.....	0	9	0	11	0	9	0	3	0	1	0
	10		13		15		6		2		46
Petroleum.....	0	10	0	13	0	15	0	6	0	2	0
	3		5		2		3				13
Process.....	0	3	0	5	0	2	0	3			0
Totals, Engineer-	791		684		530		152		186		2,343
ing.....	0	791	1	685	0	530	0	152	0	186	1
	41		54								95
Forestry.....	0	41	0	54							0

SUMMARY OF STUDENTS, 1947-48

TABLE X—(Continued)

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		SPECIALS		TOTAL UNDER- GRAD.	
Nursing.....	0		0								0	
	30	30	13	13							43	43
	51		30								81	
Optometry.....	0	51	0	30							0	81
	4		4		15		20				43	
Pharmacy.....	0	4	0	4	0	15	0	20			0	43
	16		19								35	
Public Health....	2	18	4	23							6	41
TOTALS.....	2,531		3,198		2,163		898		1,056		9,846	
	113	2,644	125	3,323	97	2,260	44	942	80	1,136	459	10,305

The above total 10,305 (9,846M+459W), does not include 173 (170M+3W) graduate students who received their degrees as undergraduates during the year 1947-48.

TOTAL UNDERGRADUATE VETERAN STUDENTS, Academic and Professional Departments at Berkeley.....	{	9,846	
		459	10,305
Graduate Veteran Students, Academic and Professional Departments at Berkeley.....	{	2,345	
		115	2,460
TOTAL GRADUATE AND UNDERGRADUATE VETERAN STUDENTS, Academic and Professional Departments at Berkeley.....	{	12,191	
		574	12,765

B: Veterans Registered at Los Angeles
UNDERGRADUATES

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		TOTAL UNDER- GRADUATES	
Letters and Science.....	710		825		900		290		2,725	
	50	760	32	857	31	931	12	302	125	2,850
	22		17		40		7		86	
Agriculture.....	0	22	0	17	0	40	0	7	0	86
	102		144		149		55		450	
Applied Arts.....	25	127	40	184	32	181	7	62	104	554
	390		410		595		170		1,565	
Business Administration.....	2	392	4	414	2	597	1	171	9	1,574
	172		267		285		58		752	
Engineering.....	0	172	0	267	0	285	0	58	0	782
TOTALS.....	1,396		1,663		1,969		580		5,608	
	77	1,473	76	1,739	65	2,034	20	600	238	5,846

Special Students.....	{	415	
		20	435
TOTAL UNDERGRADUATE VETERAN STUDENTS in the departments at Los Angeles.....	{	6,023	
		258	6,281

GRADUATE VETERAN STUDENTS

Regular.....	{	610	
		26	636
Unclassified.....	{	182	
		12	194
Totals.....	{	792	
		38	830

TOTAL GRADUATE AND UNDERGRADUATE VETERAN STUDENTS in the departments at Los Angeles, deducting 87 (82M+5W) graduate students who received their degrees as undergraduates during the year 1947-48.....	{	6,733	
		291	7,024

SUMMARY OF STUDENTS, 1947-48

TABLE X—(Concluded)

C: Veterans Registered at Other Points

SCHOOL OR COLLEGE	4th year	3d year	2d year	1st year	Spec.	TOT.
Davis:						
College of Agriculture	161	148	411	347	83	1,150
Undergraduate.....	1 162	0 148	8 419	3 350	1 84	13
Graduate.....	.....	.....	.....	.....	59	59
Totals.....	161	148	411	347	142	1,209
San Francisco:						
College of Dentistry	8	31	37	66	.....	142
Professional.....	0 8	0 31	0 37	0 66	.....	0
Postgraduate.....	.....	.....	.....	.....	6	6
Totals.....	8	31	37	66	6	148
Hastings College of the Law.....	0 8	0 31	0 37	0 66	0 6	0
Medical Departments, Academic.....	.....	93	196	202	4	495
Medical School	.....	1 94	1 197	1 203	0 4	3
M.D. Curriculum.....	.....	.....	.....	.....	1	1
Course for Orthoptic Technicians..	.....	.....	.....	.....	0	0
Course for X-Ray Technicians.....	.....	.....	.....	.....	1	1
Curriculum in Physical Therapy...	.....	.....	.....	.....	1	1
Special Resident Fellows.....	.....	.....	.....	.....	3 4	3
Totals.....	.....	.....	.....	.....	41	41
College of Pharmacy	43	48	52	.....	0	143
Professional.....	0 43	0 48	0 52	.....	.....	0
Academic.....	.....	.....	.....	.....	0	0
Totals.....	0 14	0 55	0 47	.....	4	4
Santa Barbara:						
Undergraduate.....	.....	.....	.....	.....	0 4	0
Postgraduate.....	.....	.....	.....	.....	0 4	0
Totals.....	0 14	0 55	0 47	.....	0 4	0
TOTALS, other points.....						3,520
						95

Total veteran students at Berkeley.....	{ 12,191
	574
Total veteran students at Los Angeles.....	{ 6,733
	291
Total veteran students at other points.....	{ 3,520
	95
TOTAL VETERAN RESIDENT STUDENTS, deducting 60 (59M+1W) students in the College of Agriculture registered at Berkeley, but in attendance at Davis; 4 (M) students in the College of Pharmacy registered at Berkeley but in attendance at San Francisco; 1 (M) student in the Medical Departments at San Francisco, but registered at Berkeley; and 1 (M) student in attendance at Riverside, but registered at Berkeley.....	{ 22,379
	959

SUMMARY OF STUDENTS, 1947-48

TABLE XI

VETERAN STUDENTS IN SUMMER SESSIONS, 1947

Berkeley

Veterans in First Summer Session.....	{ 5,423 298	5,721
Veterans in Second Summer Session.....	{ 4,197 193	4,390
TOTALS, deducting 3,228 (3,091M+137W) students registered in both Summer Sessions.....	{ 6,828 354	6,982

Los Angeles

Veterans in First Summer Session.....	{ 3,611 179	3,790
Veterans in Second Summer Session.....	{ 2,696 132	2,828
TOTALS, deducting 2,146 (2,034M+112W) students registered in both Summer Sessions.....	{ 4,273 199	4,472

Santa Barbara

Veterans in First Summer Session.....	{ 734 42	776
Veterans in Second Summer Session.....	{ 483 15	498
TOTALS, deducting 415 (401M+14W) students registered in both Summer Sessions.....	{ 816 43	859

San Francisco

Summer Session, Hastings College of the Law.....	{ 163 0	163
--	------------	-----

Total

TOTAL VETERAN STUDENTS IN SUMMER SESSIONS, all duplicates deducted.....	{ 11,880 596	12,476
---	-----------------	--------

SUMMARY OF STUDENTS, 1947-48

TABLE XII

VETERAN GRADUATE STUDENTS REGISTERED IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS AT BERKELEY

NOTE.—All students were in residence at Berkeley unless otherwise indicated.

Agriculture	1		Agriculture—(Continued)		
Agriculture, Davis	0	1	Truck Crops, Davis	3	
Agricultural Chemistry	3		Berkeley	0	3
Berkeley	0	3	Veterinary Science	0	1
Davis	0	1	Totals, Agriculture	216	
Agricultural Economics	29		Berkeley	6	2
Davis	9		Anatomy	4	
Agricultural Technology I	0	9	Berkeley	0	
Agricultural Technology II	5		Anthropology	16	
Davis	0	5	Berkeley	2	
Agronomy, Davis	0	2	Architecture	2	
Berkeley	4		Davis	0	
Animal Husbandry, Davis	0	4	Architecture, School of	15	
Animal Nutrition	1		Berkeley	1	
Berkeley	0	1	Art	16	
Davis	1		Berkeley	5	
Botany	12		Davis	9	
Berkeley	0	12	Astronomy	0	
Davis	1		Bacteriology	19	
Comparative Pathology, Davis	1		Berkeley	0	19
Davis	0	1	Davis	1	
Comparative Physiology, Davis	2		Berkeley	0	1
Davis	0	2	Totals	20	
Entomology	44		Biochemistry	29	
Berkeley	1	45	Berkeley	0	
Davis	1		Biophysics	8	
Forestry	0	10	Business Administration, School of	0	
Berkeley	6		Berkeley	156	
Davis	0	6	Davis	1	
Genetics	15		Riverside	79	
Berkeley	0	15	Chemistry	0	
Davis	2		Berkeley	2	
Home Economics	4	4	Classics	0	
Horticulture	1		Comparative Biochemistry	4	
Berkeley	0	1	Comparative Pathology*	0	
Davis	7		Comparative Pharmacology and Toxicology	0	
Irrigation	0	1	Medical Departments, San Francisco	1	
Landscape Design	0	5	Berkeley	0	
Plant Pathology	15		Decorative Art	0	
Berkeley	0	15	Berkeley	2	
Davis	2		Economics	114	
Plant Physiology	0	13	Education (students with academic major leading to M.A. or Ph.D.)	4	
Soil Science	14		Berkeley	101	
Berkeley	0	14	Davis	14	
Davis	3		Education, School of:		
Berkeley	0	3	Students (not enumerated elsewhere in this table) with teaching major leading to teaching credential	125	
Davis	0	3	Berkeley	7	132
			Davis	18	
			Berkeley	0	18
			Davis	0	18

* See also Agriculture

SUMMARY OF STUDENTS, 1947-48

TABLE XII—(Continued)

Education, School of—(Continued)				
Students with teaching major leading to teaching credential who are shown elsewhere in this table as having also an academic major leading to a degree.....	81			
	6	87		
Students in curriculum leading to Administration Credential who also have a teaching major leading to teaching credential.....	6			
	0	6		
Students (without teaching major) in curriculum leading to:				
Administration Credential.....	37			
	0	37		
Students in the curriculum leading to the Administration Credential who are shown elsewhere in this table as having an academic major leading to a degree.....	21			
	0	21		
Students (without teaching major) in curriculum leading to:				
Ed.D.....	7			
	1	8		
	1			
M.Ed., Davis.....	0	1		
Totals, School of Education.....	296			
	14	310		
Engineering	2			
Agricultural, Davis.....	0	2		
	26			
Chemical.....	0	26		
	33			
Civil.....	0	33		
	56			
Electrical.....	0	56		
	1			
Engineering Physics.....	0	1		
	1			
Industrial.....	0	1		
	36			
Mechanical.....	0	36		
	14			
Metallurgy.....	0	14		
	2			
Mining.....	0	2		
	4			
Petroleum.....	0	4		
	175			
Totals, Engineering.....	0	175		
	76			
English.....	11	87		
	15			
French.....	1	16		
	20			
Geography.....	1	21		
	25			
Geology.....	0	25		
	2			
Geophysics.....	0	2		
	9			
German.....	2	11		
Greek.....	0	1		
	133			
History.....	2	135		
	1			
History—Education.....	0	1		
	1			
History—Philosophy.....	0	1		
	9			
International Relations.....	1	10		
	2			
Italian.....	0	2		
	1			
Journalism.....	0	1		
	203			
Jurisprudence, School of.....	0	203		
	1			
Latin.....	0	1		
	13			
Librarianship, School of.....	5	18		
	3			
Linguistics.....	0	3		
	54			
Mathematics.....	5	59		
	5			
Medical Physics.....	0	5		
	15			
Medical School (first year).....	0	15		
	2			
Microbiology.....	0	2		
	21			
Music.....	1	22		
	1			
Near Eastern Languages.....	0	1		
	0			
Nursing, School of.....	2	2		
	13			
Optometry, School of.....	0	13		
	8			
Oriental Languages.....	1	9		
	8			
Paleontology.....	1	9		
	6			
Parasitology.....	0	6		
Pharmaceutical Chemistry	1			
Berkeley.....	0	1		
	4			
San Francisco.....	0	4		
	5			
Totals.....	0	5		
	13			
Philosophy.....	1	14		
	15			
Physical Education.....	1	16		
	113			
Physics.....	0	113		
	16			
Physiology.....	0	16		
	3			
Physiological Optics.....	0	3		
	92			
Political Science.....	9	101		
	4			
Pre dentistry.....	0	4		
	18			
Pre medical.....	0	18		

SUMMARY OF STUDENTS, 1947-48

TABLE XII—(Concluded)

	123				
Psychology.....	8	131	Social Welfare.....	3	4
Public Health.....	0		Social Welfare, School of.....	22	
Public Health, School of.....	1	1	Spanish.....	12	18
Romance Languages.....	8		Statistics.....	0	5
Romance Philology.....	4	12	Zoölogy.....	0	0
Sanskrit.....	1		Berkeley.....	43	43
Seismology.....	0	1	Davis.....	1	1
Slavic Languages.....	3	3	Totals.....	0	44
Social Institutions.....	0	3			
Sociology.....	10	10	TOTALS, deducting 108 (102M+6W)		
Sociology and Social Institutions..	2	2	students in the School of Edu-		
	3		cation who are also shown as		
	0	3	having majors in other depart-		
	10		ments.....	2,345	115
	0	10			

The students enumerated above were in residence as follows:

Berkeley.....	2,280		San Francisco	
Davis (College of Agriculture).....	114	2,394	College of Pharmacy	
Riverside (College of Agriculture).	59		(Academic Curricula).....	4
	1	60	Medical Departments	
	1		(Academic Curricula).....	1
	0	1	TOTALS.....	2,345
				115

SUMMARY OF STUDENTS, 1947-48

TABLE XIII

VETERAN STUDENTS DISTRIBUTED BY SOURCE OF EDUCATIONAL BENEFITS

CAMPUS	P.L. 16		P.L. 346		C.V.E. I.A.		TOTALS	
<i>At Berkeley:</i>	620		8,854		372		9,846	
Undergraduate Students*	26	646	429	9,283	4	376	549	10,305
	111		2,206		28		2,345	
Graduate Students	3	114	112	2,318	0	28	115	2,460
Total Graduates and Undergraduates in regular sessions	731		11,060		400		12,191	
	29	760	541	11,601	4	404	574	12,765
Students in Summer Sessions, 1947	407		6,094		127		6,628	
Duplicates between Summer Sessions and regular sessions	13	420	340	6,434	1	128	354	6,982
	314		4,711		99		5,124	
	12	326	220	4,931	1	100	233	5,357
	824		12,443		428		13,695	
TOTALS, Berkeley, duplicates deducted	30	854	661	13,104	4	432	695	14,390
<i>At San Francisco:</i>								
College of Dentistry	10		128		4		142	
Professional Curricula	0	10	0	128	0	4	0	142
			6				6	
Postgraduate			0	6			0	6
	10		134		4		148	
Totals	0	10	0	134	0	4	0	148
	41		450		4		495	
Hastings College of the Law	0	41	3	453	0	4	3	498
							0	
Hooper Foundation for Medical Research							0	0
	10		139		37		186	
Medical School, Professional	0	10	6	145	0	37	6	192
College of Pharmacy	8		108				116	
Professional Curriculum	0	8	0	108			0	116
			4				4	
Academic Curricula			0	4			0	4
	8		112				120	
Totals†	0	8	0	112			0	120
	69		836		45		950	
Totals, San Francisco, regular sessions	0	69	7	843	0	45	7	957
	11		150		2		163	
Students in Summer Session, 1947	0	11	0	150	0	2	0	163
Duplicates between Summer Session and regular sessions	8		137		2		147	
	0	8	0	137	0	2	0	147
TOTALS, San Francisco, duplicates deducted	72		849		45		966	
	0	72	7	856	0	45	7	973

* Does not include 13M, P.L. 16, or 157 (154M+3W) P.L. 346, or 3M, C.V.E.I.A. graduate students who received their degrees as undergraduates during the year 1947-48.

† Does not include students in residence at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE XIII-- (Concluded)

CAMPUS	P.L. 16		P.L. 346		C.V.E. I.A.		Total
<i>At Los Angeles, University of California at</i>							
<i>Los Angeles:</i>							
Undergraduate Students*	614		5,007		320		5,941
	17	631	236	5,243	0	320	253
	38		754				792
Graduate Students	3	41	35	789			38
Total Graduates and Undergraduates in the regular sessions	652		5,761		320		6,733
	20	672	271	6,032	0	320	291
	379		3,790		104		4,273
Students in Summer Sessions, 1947	4	383	195	3,985	0	104	199
Duplicates between Summer Sessions and regular sessions	187		1,780		38		2,005
	2	189	92	1,872	0	38	94
	844		7,771		386		9,001
TOTALS, Los Angeles, duplicates deducted	22	866	374	8,145	0	386	396
<i>At Santa Barbara:</i>							
Undergraduate Students†	144		1,186		42		1,375
	6	150	64	1,250	1	43	72
	7		20				27
Postgraduate Students	0	7	1	21			1
Total Postgraduates and Undergraduates in the regular sessions	151		1,206		42		1,399
	6	157	65	1,271	1	43	72
	98		709		9		816
Students in Summer Sessions, 1947	4	102	38	747	1	10	43
Duplicates between Summer Sessions and regular sessions	75		509		19		603
	3	78	24	533	0	19	27
TOTALS, Santa Barbara, duplicates deducted	174	181	1,406	1,485	32	34	1,612
	7		79		2		88
<i>At Davis—College of Agriculture:</i>							
Undergraduate Students	83		1,050		17		1,150
	0	83	13	1,063	0	17	13
	5		54				59
Graduate Students	0	5	1	55			1
	88		1,104		17		1,209
TOTALS, Davis	0	88	14	1,118	0	17	14
<i>Deduct:</i>							
Graduate Students registered at Berkeley but in attendance at	5		54				59
Davis	0	5	1	55			
San Francisco							
College of Pharmacy (Academic Curricula)			4				
			0	4			
	5		58				63
Total Deductions	0	5	1	59			
TOTAL VETERAN STUDENTS, ALL DUPLICATES DEDUCTED	1,997		23,515		908		26,420
	59	2,056	1,134	24,649	6	914	1,119

* Does not include 8M, P.L. 16 or 75 (70M+5W) P.L. 346 or 4M, C.V.E.I.A. graduate who received their degrees as undergraduates during the year 1947-48.

† Does not include 4 (3M+1W) P.L. 346 graduate students who received their degrees as undergraduates during the year 1947-48.

SUMMARY OF STUDENTS, 1947-48

TABLE XIV

GEOGRAPHICAL DISTRIBUTION OF STUDENTS REGISTERED AT BERKELEY

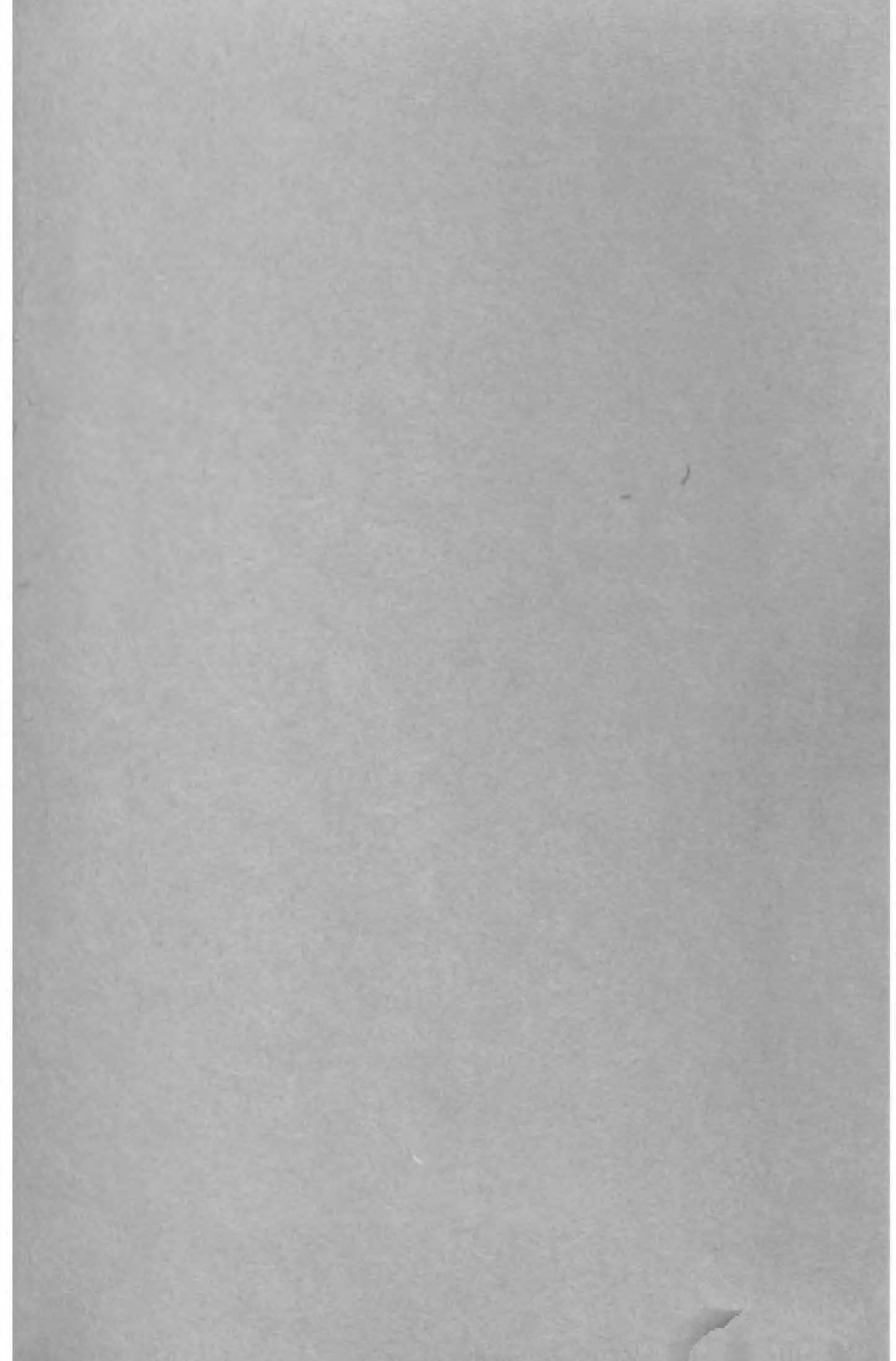
	CALIFORNIA		UNITED STATES*		FOR- EIGN		TOTALS	
Undergraduates	2,140		109		67		2,316	
Freshmen.....	1,323	3,463	25	134	3	70	1,351	3,667
Sophomores.....	3,000		297		119		3,416	
Juniors.....	1,536	4,536	93	390	19	138	1,648	5,064
Seniors.....	3,476		491		125		4,092	
Specials.....	1,587	5,063	134	625	17	142	1,738	5,830
Totals.....	2,597		390		70		3,047	
Seniors.....	1,224	3,821	135	515	15	85	1,374	4,421
Specials.....	1,022		201		18		1,241	
Specials.....	105	1,127	50	251	13	31	168	1,409
Specials.....	12,235		1,478		399		14,112	
Total Undergraduates†	5,775	18,010	437	1,915	67	466	6,279	20,391
Graduates.....	2,467		853		276		3,596	
Graduates.....	1,038	3,505	249	1,102	51	327	1,338	4,934
TOTALS.....	14,702		2,331		675		17,708	
TOTALS.....	6,813	21,515	686	3,017	118	793	7,617	25,325

* Except California.

† These totals do not include 258 (195M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.







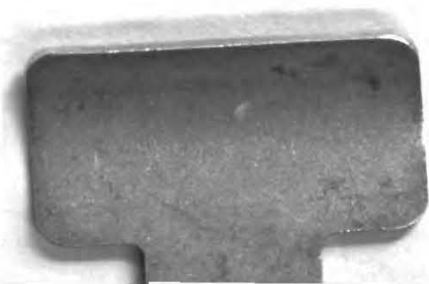
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U. C. L. A. ALUMNI ASSOCIATION**OFFICERS**

Paul R. Hutchinson, A.B. 1926
 President
 433 S Spring st, LA13
 Virginia Lindsey Cornwell, A.B. 1940
 Vice-President
 3013 Palm av, Manhattan Beach
 Ralph A. Stilwell, ex-1928
 Treasurer
 402 Westwood blvd, LA24

John B. Jackson, A.B. 1927
 Executive Secretary
 402 Westwood blvd, LA24
 Waldo E. Edmunds, A.B. 1926
 Assistant Executive Secretary
 402 Westwood blvd, LA24
 Dale Stoddard, A.B. 1922
 Finance Chairman
 957 Bevan, San Gabriel

EXECUTIVE COUNCIL

William H. Brainerd, A.B. 1935
 816 Bevan, San Gabriel
 Kenneth Gallagher, 1948
 402 Westwood blvd, LA24
 Porter Hendricks, A.B. 1934
 609 S Grand av, LA14
 Martha Otis, A.B. 1939
 867 S Lucerne, LA5
 Lee Payne, A.B. 1926
 1320 Palos Verdes dr, Box 996
 West Palos Verdes Estates
 Peggie Rich Shedd, A.B. 1944
 1820 N LaBrea, LA46

Charles T. Smith, A.B. 1932
 727 Cartagena, LB
 Frances Smith Wilson, A.B. 1927
 1546 Highland, Glen
 Robert B. Wolcott, A.B. 1942
 3506 Double dr, El Monte
 Maida Owen Wood, A.B. 1930
 10474½ Eastborne, LA24
 William G. Young, Ph.D.
 Faculty Representative
 955 Harvard st, SM

SANTA BARBARA COLLEGE ALUMNI ASSOCIATION**OFFICERS**

Roy L. Stone, 1940
 President
 1407 Brighton st, LA

Mrs. Ester J. Porter, 1927
 Executive Director
 West Hall, Riviera campus
 181 Alameda Padre Serra, SB

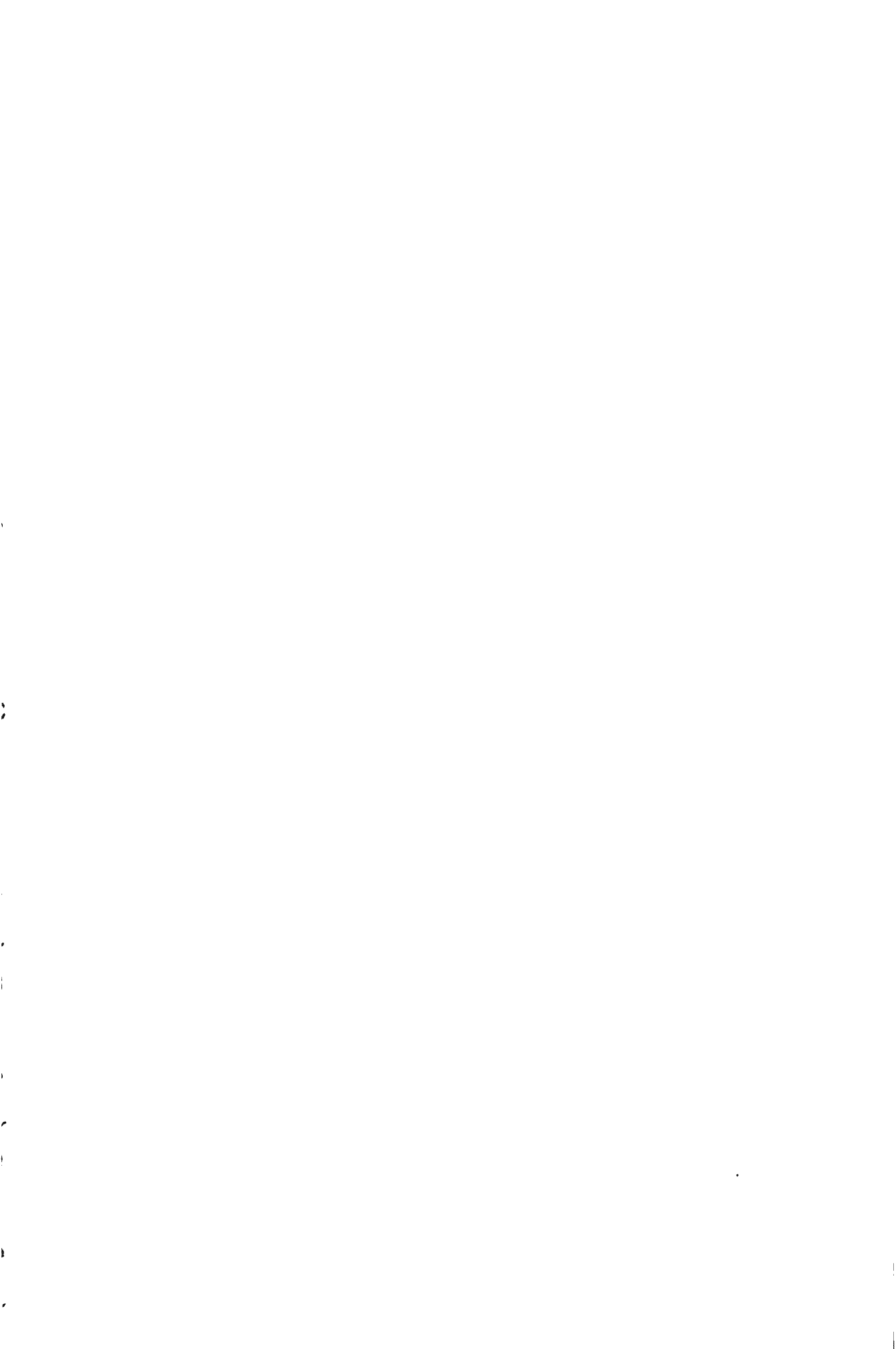
Gordon Gray, 1940
 Vice-President
 1427 Mountain st, SB

F. P. O'Reilly, 1927
 Finance Chairman
 414 Calle Colorado, SB

EXECUTIVE COUNCIL

Mrs. Jane Abraham
 1721 Santa Barbara st, SB
 Martin Benson, 1942
 Box 311, Laguna Beach
 Mrs. Rena S. Black, 1939
 23204 S Anchor, Wilmington
 Rosemarie Dowd, 1942
 453 W 22d st, New York 11
 John L. Erbes, Sr., 1941
 Holland bldg, Fresno
 Donald Hart, 1939
 Box 1556, Bakersfield
 Harvey Hoffman, 1940
 Maui High School
 Hamakua, Maui, T.H.
 Mrs. Dorothy Kenniston, 1945
 Rt 1, Box 120, Fillmore

Edgar S. Leedy, 1943
 109 W Fesler st, Santa Maria
 Mrs. Elizabeth Moulton, 1936
 1824 44th st, Sacramento
 Julia Rodgers, 1940
 3929 Denker av, LA
 William Russell, 1940
 Graduate Manager
 525 W Victoria st, SB
 Gail Squires, 1946
 184 S Pennsylvania st, S Bern
 Mrs. Mary F. Trewwhitt, 1938
 210 Seale av, Palo Alto
 Mrs. Madeline Wilhoit, 1927
 4232 Hilldale rd, San Diego



UNIVERSITY OF CALIFORNIA

STATISTICAL ADDENDA

1947-1948

U N I V E R S I T Y O F C A L I F O R N I A

STATISTICAL ADDENDA

FOR THE YEAR

1947-48

SUMMARY OF STUDENTS

SUMMARY OF OFFICERS

SUMMARY OF DEGREES CONFERRED

Compiled by

THE REGISTRAR

BERKELEY, CALIFORNIA

Published by

UNIVERSITY OF CALIFORNIA PRESS

BERKELEY AND LOS ANGELES

NOTE.—In the enumeration of students, each student who was registered and was in actual attendance at any time during the period covered by the report is counted as one student.

In the columns showing the number of students, officers, and degrees conferred, the upper left-hand figures refer to men; the lower to women; the figures on the right are totals.

SUMMARY OF STUDENTS, 1947-48
TABLE I STUDENTS IN THE ACADEMIC DEPARTMENTS
REGISTERED IN REGULAR SESSIONS

A: Registered at Berkeley: UNDERGRADUATE STUDENTS

SCHOOL OR COLLEGE	SENIORS 4th year	JUNIORS 3d year	SOPHOMORES 2d year	FRESHMEN 1st year	SPECIALS	TOTAL UNDER-GRAD.
Letters and Science General	1,024 1,131	1,548 1,427	2,315 1,581	1,681 3,806	939 1,291	7,511 5,592
Prearchitecture	1	9				10
Prebusiness Administration	0	1	10			11
Prebusiness Administration	1	10				11
Prebusiness Administration	0	1	11			12
Prebusiness Administration	7	22				29
Prebusiness Administration	0	1	23			1
Prebusiness Administration	0	1				1
Prebusiness Administration	0	0	1			0
Prebusiness Administration	50	219				269
Prebusiness Administration	6	32	251			38
Prebusiness Administration	0	0				0
Prebusiness Administration	1	20	20			21
Prebusiness Administration	3	10				13
Prebusiness Administration	0	0	10			0
Prebusiness Administration	16	6				22
Prebusiness Administration	0	0	6			0
Prebusiness Administration	41	3				44
Prebusiness Administration	0	0	3			0
Prebusiness Administration	1,147	1,828	2,315	1,681	939	7,910
Totals, L. and S.	1,138	2,285	3,310	1,581	3,806	1,291
Agriculture	97	159	148	99	85	588
Agriculture	45	54	213	43	191	33
Agriculture	57	177			132	6
Agriculture	14	21	198			91
Agriculture	604	801				1,405
Agriculture	63	92	893			155
Agriculture	100	141	186	114	18	559
Agriculture	6	10	151	12	198	10
Agriculture	11	12	8	5	124	2
Agriculture	0	0	12	0	8	0
Agriculture	186	186	122	69	43	606
Agriculture	0	1	187	0	122	0
Agriculture	12	8	4	4	69	0
Agriculture	0	0	8	0	4	0
Agriculture	277	290	259	104	76	996
Agriculture	2	2	282	0	259	1
Agriculture	14	19	31	11	105	0
Agriculture	0	0	0	31	0	11
Agriculture	83	75	48	14	8	228
Agriculture	1	0	75	1	49	0
Agriculture	283	234	217	138	62	931
Agriculture	4	1	235	4	221	1
Agriculture	16	11	18	4		49
Agriculture	0	0	11	0	18	0
Agriculture	10	12	11	6	1	40
Agriculture	2	0	12	0	6	0
Agriculture	17	16	19	16	2	70
Agriculture	0	0	16	0	16	0
Agriculture	3	6	4	5		18
Agriculture	0	0	6	0	4	0
Agriculture	912	859	741	373	199	3,084
Totals, Engineering	9	4	863	5	746	2
Engineering	45	58				2
Engineering	0	0	58			0
Engineering	0	0				0
Engineering	60	27	27			87
Engineering	62	40				102
Engineering	1	5	45			6
Engineering	5	5	28	49		85
Engineering	0	4	9	7	33	15
Engineering	18	24			64	
Engineering	38	39	63			42
Engineering						77
Totals	3,047	4,092	3,416	2,316	1,241	14,112
Totals	1,374	4,421	1,738	5,830	1,648	5,064
Totals						1,351
Totals						3,667
Totals						168
Totals						1,409
Totals						6,279
Totals						20,391

The above total, 20,391 (14,112M+6,279W), does not include 258 (195M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, see next page.

* Candidates both for professional and academic degrees.

† Although professional, these students are tabulated here in order to show in a single table all undergraduates registered at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE I—(Continued)

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, deducting 269 (234M+35W) students in the School of Architecture, 1,560 (1,405M+155W) students in the School of Business Administration, 103 (M) students in the School of Forestry, 87 (W) students in the School of Nursing, 108 (102M+6W) students in the School of Optometry, 111 (85M+26W) students in the College of Pharmacy, and 119 (42M+77W) students in the School of Public Health..... { 12,141
5,893 18,034

GRADUATE STUDENTS

Graduate Students, academic departments. (See also Table V-A)..... { 2,759
827 3,586

TOTAL GRADUATES AND UNDERGRADUATES in the regular sessions at Berkeley* (academic departments only)..... { 14,900
6,720 21,620
(For students in professional schools at Berkeley see Table III)

B: Registered at Davis

UNDERGRADUATE STUDENTS IN THE COLLEGE OF AGRICULTURE AT DAVIS

	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		SPECIALS		TOTAL UNDER- GRAD.	
Degree Curricula...	194		175		228		159		...	...	756	
	19	213	19	194	30	258	46	205	...	...	114	870
2-Year Curricula...	...	...	...	...	315		582		149		1,026	
	...	...	...	...	23	338	76	638	32	181	131	1,157
TOTALS.....	194		175		543		721		149		1,782	
	19	213	19	194	53	596	122	843	32	181	245	2,027

TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS in regular sessions at Berkeley and Davis..... { 16,682
6,965 23,647

* Including graduate students in attendance at other points. See Table V-A.

SUMMARY OF STUDENTS, 1947-48

TABLE I (Continued)

C: Registered at Los Angeles

STUDENTS IN THE ACADEMIC DEPARTMENTS REGISTERED IN THE UNIVERSITY OF CALIFORNIA AT LOS ANGELES

UNDERGRADUATE STUDENTS

SCHOOL OR COLLEGE	SENIORS 4th year	JUNIORS 3d year	SOPHOMORES 2d year	FRESHMEN 1st year	TOTAL UNDER-GRAD.
Letters and Science	929	1,021	1,226	651	3,827
General	840	950	805	639	3,234
Preidental	1	20	51	28	100
Premedical	0	1	21	3	5
Totals, L. and S.	841	978	852	678	3,349
Agriculture	27	19	51	50	147
Business Administration	0	27	4	55	7
Applied Arts	451	506	673	270	1,900
General	66	517	614	81	754
Preursing	119	137	197	97	550
Preoptometry	328	447	456	593	421
Prepharmacy	0	0	0	0	0
Totals, Applied Arts	119	154	231	118	622
Engineering	185	329	374	178	1,066
Totals	0	185	1	330	3
TOTALS	1,715	2,221	2,866	1,470	8,272
	1,235	2,950	1,548	3,769	1,386
				4,252	1,131
					2,601
					5,300
					13,572

Special Students	761	
	44	805
TOTAL UNDERGRADUATE STUDENTS in the academic departments at Los Angeles	9,033	
	5,344	14,377

GRADUATE STUDENTS

(Graduate Students, Academic Departments. (See also Table V-B.)

Regular	1,066	
	402	1,468
Unclassified	459	
	300	759
TOTALS	1,525	
	702	2,227

TOTAL GRADUATES AND UNDERGRADUATES, in regular sessions at Los Angeles* (academic departments only) deducting 192 (129M+63W) graduate students who received their degrees as undergraduates during the year 1947-48	10,429	
	5,983	16,412

* Including graduate students in attendance at other points. See Table V-B.

SUMMARY OF STUDENTS, 1947-48

TABLE I—(Concluded)

D: Registered at Santa Barbara

STUDENTS IN THE ACADEMIC DEPARTMENTS REGISTERED IN
SANTA BARBARA COLLEGE

UNDERGRADUATE STUDENTS

CURRICULUM	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		LIMITED STUDENTS		TOTAL UNDERGRAD.
Students working toward degrees only.....	157		247		441		231		22		1,098
Students working toward both degrees and teaching credentials*.....	103	260	113	360	171	612	197	428	64	86	648 1,746
	198		168		177		60		10		613
	154	352	165	333	100	277	136	196	11	21	566 1,179
	355		415		618		291		32		1,711
TOTALS.....	257	612	278	693	271	889	333	624	75	107	1,214 2,925

Special Students.....	{	59	
		3	62
TOTAL UNDERGRADUATE STUDENTS in the academic departments at Santa Barbara.....	{	1,770	
		1,217	2,987

POSTGRADUATE STUDENTS AT SANTA BARBARA

Postgraduate students, academic departments.....	{	20	
		9	29
TOTAL POSTGRADUATES AND UNDERGRADUATES registered in the academic departments at Santa Barbara deducting 7 (2M+5W) students who received their degrees as undergraduates during the year 1947-48.....	{	1,788	
		1,221	3,009
TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, BERKELEY, LOS ANGELES, AND ELSEWHERE, during regular sessions.....	{	28,899	
		14,169	43,068

* Candidates both for professional and academic degrees.

SUMMARY OF STUDENTS, 1947-48

TABLE II STUDENTS IN SUMMER SESSIONS, 1947

Berkeley

Students in First Summer Session	7,262	
	2,656	9,918
Students in Second Summer Session	5,506	
	1,242	6,748
TOTALS , deducting 4,467 (3,810M + 657W) students registered in both Summer Sessions	8,958	
	3,241	12,199

Los Angeles

Students in First Summer Session	5,275	
	2,861	8,136
Students in Second Summer Session	3,707	
	1,185	4,892
TOTALS , deducting 3,361 (2,661M + 700W) students registered in both Summer Sessions	6,321	
	3,346	9,667

Santa Barbara

Students in First Summer Session	878	
	438	1,316
Students in Second Summer Session	537	
	133	670
TOTALS , deducting 520 (438M + 82W) students registered in both Summer Sessions	977	
	489	1,466

San Francisco

Summer Session, Hastings College of the Law†	178	
	1	179

Total

TOTAL STUDENTS IN SUMMER SESSIONS, all duplicates deducted	16,434	
	7,077	23,511
TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, BERKELEY AND ELSEWHERE , deducting 14,754 (11,859M + 2,895W)* students in Summer Sessions who registered in any regular session (does not include Summer Session at the Hastings College of the Law)	33,287	
	18,334	51,621

* Berkeley, 8,100 (6,579M + 1,521W); Los Angeles, 5,790 (4,618M + 1,172W); Santa Barbara, 864 (662M + 202W).

† Although professional, these students are tabulated here in order to show in a single table all students registered in Summer Sessions.

SUMMARY OF STUDENTS, 1947-48

TABLE III

STUDENTS IN PROFESSIONAL SCHOOLS AND COLLEGES
(Berkeley and elsewhere)

A: Regular Sessions

SCHOOL OR COLLEGE	4th year	3d year	2d year	1st year	Spec.	TOTALS
School of Architecture (Berkeley)	...	14	48	193	...	255
School of Business Administration (Berkeley)	...	2 16	14 62	22 215	...	38 293
School of Education (Berkeley) (Graduate)	...	137	908	550	...	1,595
School of Forestry (Berkeley)	...	4 141	80 988	79 629	...	163 1,758
School of Jurisprudence (Berkeley)	...	...	...	...	...	400
School of Librarianship (Berkeley) (Graduate)	...	...	...	...	...	324 724
Medical School: San Francisco	...	4	63	43	...	110
M.D. Curriculum	...	0 4	0 63	0 43	...	0 110
Special Resident Fellows	...	2	77	92	...	249
Curriculum in Medical Technology	...	0 2	8 85	3 81	6 98	17 266
Curriculum in Physical Therapy	...	...	9	10	...	19
Course for X-Ray Technicians	...	...	11 20	36 46	...	47 66
Course for Orthoptic Technicians	...	58	56	65	...	179
Totals, San Francisco	10 68	15 71	7 72	14 17	0 41	32 211
Berkeley:	...	...	...	...	41	41
M.D. Curriculum	...	...	...	...	0 41	0 41
Totals, Medical School	10 68	15 71	7 72	21 89	0 41	53 341
School of Nursing: San Francisco	...	0	0	0	...	0
Curriculum in Nursing	...	44 44	27 27	59 59	...	130 130
Curriculum in Nursing Education	...	...	...	...	0	0
Totals, San Francisco	...	44 44	27 27	59 59	2 2	2 2
Berkeley	30 30	52 52	8 8	...	...	90 90
Totals, School of Nursing	30 30	96 96	35 35	59 59	2 2	222 222
School of Optometry (Berkeley)	...	...	64	55	...	119
School of Public Health Berkeley	6	19	18	25	...	68
San Francisco	2 8	15 34	55 73	30 55	...	102 170
Totals, School of Public Health	2 8	15 34	58 76	30 55	...	105 173
School of Social Welfare (Berkeley) (Graduate)	...	0	19	13	...	32
Hastings College of the Law (San Francisco)	...	1 1	71 90	59 72	...	131 163
College of Dentistry: San Francisco	...	105	218	231	5	559
D.D.S. Curriculum	...	5 110	6 224	12 243	1 6	24 583
Totals, School of Dentistry	15	41	43	74	...	173
Totals, College of Dentistry	0 15	1 42	0 43	0 74	...	1 174

SUMMARY OF STUDENTS, 1947-48

TABLE III - (Continued)

SCHOOL OR COLLEGE	4th Year	3d Year	2d Year	1st Year	Spec.	Totals
<i>College of Dentistry - Continued</i>						
Dental Hygiene			0	0		0
			12	12	16	28
					12	12
Postgraduate					0	0
	15	41	43	74	12	185
Totals, College of Dentistry	0	15	1	42	12	55
<i>College of Pharmacy:</i>						
<i>San Francisco:</i>						
B.S. Curriculum	21	59	66			146
	6	27	7	66	7	73
Postgraduate					3	3
					0	0
	21	59	66		3	149
Totals, San Francisco	6	27	7	66	7	73
				85		85
<i>Berkeley:</i>				26	111	26
	21	59	66	85	3	234
Totals, College of Pharmacy	6	27	7	66	7	73
<i>Santa Barbara College Teacher Training</i>						
Curricula	198	168	177	60	10	613
Candidates, degrees and credentials	154	352	165	333	100	277
Candidates, credentials only, Post-graduate						136
					196	11
					21	566
					29	29
					28	28
	198	168	177	60	39	642
Totals, Santa Barbara	154	352	165	333	100	277
					136	196
					39	78
						504
						1,236
TOTALS						4,755
						1,799
						6,554

B: Summer Sessions

Hastings College of the Law	178	
	1	179
TOTAL STUDENTS IN THE PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY, BERKELEY AND ELSEWHERE, deducting 161 (160M+1W) students in the Summer Session who registered in any regular session	4,773	
	1,799	6,572

TABLE IV

SUMMARY OF STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, BERKELEY AND ELSEWHERE

Total Students in the Academic Departments	33,287	
	18,334	51,621
Total Students in the Professional Departments	4,773	
	1,799	6,572
Deduct:		
Students in the Academic Departments at Berkeley (College of Letters and Science) registered also in:		
Medical School (see Tables I-A and III)	44	
School of Jurisprudence (see Tables I-A and III)	0	44
Graduate Students in the School of Education (Berkeley) also pursuing work in an academic field (see Tables III and V-A)	22	
Students at Santa Barbara registered in both Academic and Professional Departments (see Tables I-D and III)	0	22
	122	
	47	169
	613	
	566	1,179
TOTAL DEDUCTIONS	801	
	613	1,414
GRAND TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, all duplicates deducted	37,259	
	19,520	56,779
TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS, BERKELEY AND ELSEWHERE, during regular sessions	32,844	
	15,339	48,183
TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS AT BERKELEY, during regular sessions	17,708	
	7,617	25,325

SUMMARY OF STUDENTS, 1947-48

TABLE V
GRADUATE STUDENTS REGISTERED IN ACADEMIC AND PROFESSIONAL DEPARTMENTS

A: Registered at Berkeley

NOTE.—All students were in residence at Berkeley unless otherwise indicated.

Agriculture			Agriculture—(Continued)		
Agriculture	1		Pl. Path.—(Continued)		
Berkeley.....	0	1	Davis.....	2	
Davis.....	3		Riverside.....	0	2
Agricultural Chemistry	8		Berkeley.....	1	
Berkeley.....	0	8	Plant Physiology	27	
Davis.....	1		Berkeley.....	2	29
Agricultural Economics...	42		Davis.....	2	
Berkeley.....	1	43	Davis.....	1	3
Davis.....	18		Poultry Industry, Davis..	1	
Agricultural Technology I	2	20	Soil Science	32	
Agricultural Technology II	5		Berkeley.....	0	32
Davis.....	0	5	Davis.....	4	
Berkeley.....	8		Davis.....	0	4
Agronomy, Davis.....	0	8	Riverside.....	1	
Animal Husbandry	1		Berkeley.....	0	1
Berkeley.....	0	1	Truck Crops, Davis.....	7	
Davis.....	8		Berkeley.....	0	7
Animal Nutrition	3		Davis.....	1	
Berkeley.....	1	4	Veterinary Science.....	0	1
Davis.....	0	1			
Botany	25		Totals, Agriculture.....	376	
Berkeley.....	11	36	Berkeley.....	59	435
Davis.....	1		Davis.....	7	
Comparative Pathology,	2		Anatomy.....	1	8
Davis.....	0	2	Berkeley.....	27	
Comparative Physiology,	2		Anthropology.....	17	44
Davis.....	0	2	Berkeley.....	2	
Entomology	64		Architecture.....	1	3
Berkeley.....	4	68	Berkeley.....	21	
Davis.....	1		Architecture, School of.....	3	24
Riverside.....	6		Berkeley.....	22	
Forestry.....	0	15	Art.....	36	58
Forestry, School of.....	7		Berkeley.....	16	
Genetics	28		Davis.....	4	20
Berkeley.....	1	29	Astronomy.....		
Davis.....	5		Bacteriology	27	
Davis.....	0	5	Berkeley.....	12	39
Home Economics	0		Davis.....	1	
Berkeley.....	30	30	Hooper Foundation,	2	
Davis.....	0		San Francisco.....	1	3
Horticulture	3		Medical Departments,	0	
Berkeley.....	0	3	San Francisco.....	1	1
Davis.....	12		Totals.....	30	
Davis.....	2	14	Berkeley.....	14	44
Irrigation.....	2		Davis.....	50	
Berkeley.....	6		Biochemistry.....	7	57
Davis.....	0	6	Berkeley.....	25	
Landscape Design.....	0	6	Davis.....	3	28
Plant Pathology	20		Biophysics.....	190	
Berkeley.....	1	21	Business Administration, School of	8	198
			Chemistry.....	145	
			Berkeley.....	17	162
			Davis.....	2	
			Davis.....	0	2
			Totals.....	147	
			Berkeley.....	17	164
			Davis.....	3	
			Classics.....	1	4

SUMMARY OF STUDENTS, 1947-48

TABLE V (Continued)

Comparative Biochemistry	12		Engineering		
Comparative Pathology*	6	13	Agricultural	1	
Berkeley	0	6	Berkeley	0	1
Hooper Foundation,	1		Davis	2	
San Francisco	0	1		0	2
Totals	7	7	Chemical	35	
Comparative Pharmacology	0			0	35
and Toxicology	0		Civil	62	
Berkeley	1	1		0	62
Medical Departments,	2		Electrical	80	
San Francisco	1	3		0	80
Totals	2		Engineering Physics	1	
	2	4		0	1
Decorative Art	0		Industrial	2	
	8	8		0	2
Dentistry	1		Mechanical	82	
	1	1		0	82
Dramatic Art	0		Metallurgy	28	
	1	1		0	28
Economics	1	2	Mining	3	
	184			0	3
Education (students with academic	30	214	Petroleum	13	
major leading to M.A. or Ph.D.)	159	256		0	13
Education, School of:	97		Totals, Engineering	309	
Students (not enumerated				0	309
elsewhere in this table)			English	100	
with teaching major lead-				67	167
ing to teaching credential	156		French	16	
Berkeley	293	419		20	36
Davis	28		Geography	30	
	0	28		8	38
Students with teaching			Geology	40	
major leading to teaching				1	41
credential who are shown			Geophysics	2	
elsewhere in this table as				0	2
having also an academic	99		German	11	
major leading to a degree	42	141		14	25
Students in curriculum			Greek	2	
leading to Administration				1	3
Credential who also have			History	176	
a teaching major leading	9			44	220
to teaching credential	0	9	History—Education	1	
Students (without teach-				0	1
ing major) in curriculum			History—Philosophy	1	
leading to Administration				0	1
Credential	60	71	Hospital Dietetics	0	
Students in curriculum	11		Berkeley	3	3
leading to the Administra-				0	
tion Credential who are			San Francisco	2	2
shown elsewhere as having			Totals	5	5
also an academic major	23			12	
leading to a degree	5	28	International Relations	7	19
Students (without teach-				5	
ing major) in curriculum			Italian	0	5
leading to:	24			2	
Ed.D.	3	27	Journalism	1	3
	1			227	
M.Ed., Davis	0	1	Jurisprudence, School of	17	244
Totals, School of Education	400	724		2	
	324		Latin	1	3
Endocrinology	2			2	
	1	3	Latin American Studies	0	2

* See also Agriculture.

SUMMARY OF STUDENTS, 1947-48

TABLE V-- (Continued)

Librarianship, School of.....	19		66	Premedical.....	36		49
Linguistics.....	47			Premedical and Psychology.....	13		
Mathematics.....	3		4	Preoptometry.....	0		1
Medical Physics.....	1			Psychology.....	0		1
Medical School (first year).....	83		108	Public Health.....	1		1
Microbiology.....	25		10	Public Health, School of.....	181		280
Music.....	10			Romance Languages.....	99		5
Near Eastern Languages.....	0		10	Romance Literature.....	1		8
Nursing, School of.....	21		7	Romance Philology.....	0		1
Optometry, School of.....	7		28	Sanskrit.....	2		3
Oriental Languages.....	3		10	Seismology.....	1		2
Paleontology.....	7		49	Slavic Languages.....	4		4
Parasitology.....	32		17	Social Institutions.....	0		26
Pharmaceutical Chemistry	1			Sociology.....	14		6
Berkeley.....	0	1		Sociology and Social Institutions..	5		4
San Francisco.....	9		9	Social Welfare.....	1		18
Totals.....	10		10	Social Welfare, School of.....	6		34
Pharmacology, San Francisco.....	0		2	Spanish.....	28		155
Philosophy.....	2		3	Speech.....	31		52
Physical Education.....	32		44	Statistics.....	29		2
Physics.....	12		27	Zoology.....	1		13
Physiology.....	16		216	Berkeley.....	10		
Physiological Optics.....	11		38	Davis.....	3		
Political Science.....	5		3	Totals.....	59		89
Prebusiness Administration.....	30		171	TOTALS, deducting 169 (122M+	28	87	
Predental.....	8		4	47W) students in the School of	2		
	0			Education who are also shown	0	2	
	129			as having majors in other de-	61		
	42			partments.....	28		4,934
	0						
	1						
	4						
	0						

The students enumerated above were in residence as follows:

Berkeley.....	3,471		4,797	San Francisco--(Continued)			
Davis (College of Agriculture).....	1,326			Hooper Foundation for Medical	3		
Riverside (College of Agriculture).	101		107	Research.....	1		4
San Francisco:	6		8	Hospital Dietetics.....	0		2
College of Pharmacy	8			Medical Departments	2		
(Academic Curricula).....	0		9	(Academic Curricula).....	4		7
	9			Totals.....	3	596	
	0		9	TOTALS.....	1,338		4,934

SUMMARY OF STUDENTS, 1947-48

TABLE V- (Concluded)

B: Registered at Los Angeles

NOTE. All students were in residence at Los Angeles unless otherwise indicated. Does not include Unclassified Students. See Table I C.

Anthropology..	1		Microbiology	8					
	3	4	Los Angeles	13	21				
Anthropology and Sociology	16		Scripps Institution of	3					
	22	38	Oceanography, La Jolla	0	3				
Applied Physics	5							11	
	0	5	Totals					13	24
Art	10							13	
	18	28	Music					13	26
Botany	9		Oceanography	2					
	5	14	Los Angeles	0	2				
Business Administration	54		Scripps Institution of	29					
	8	62	Oceanography, La Jolla	1	30				
Chemistry	69							31	
	7	76	Totals					1	32
Economics	38							18	
	6	44	Philosophy					2	20
Education	111		Physical-Biological Science	5					
	51	162	Los Angeles	0	5				
Engineering	44		Scripps Institution of	1					
	1	45	Oceanography, La Jolla	0	1				
English	60							6	
	42	102	Totals					0	6
French	15							30	
	13	28	Physical Education					17	47
Geography	13		Physics	76					
	2	15	Los Angeles	2	78				
Geology	29		Scripps Institution of	3					
	0	29	Oceanography, La Jolla	0	3				
German	7							79	
	9	16	Totals					2	81
Greek	1							53	
	0	1	Political Science					15	68
History	82							89	
	27	109	Psychology					40	129
Home Economics	0							1	
	10	10	Public Health					1	2
Horticultural Science	12							0	
	0	12	Romance Languages					1	1
Latin	1							4	
	2	3	Social Welfare					14	18
Mathematics	49							13	
	6	55	Sociology					4	17
Meteorology	39							20	
Los Angeles	2	41	Spanish					27	47
Scripps Institution of	1		Zoology	28					
Oceanography, La Jolla	0	1	Los Angeles	18	46				
Totals	40		Scripps Institution of	4					
	2	42	Oceanography, La Jolla	0	4				
								32	
			Totals					18	50
								1,066	
			TOTALS					402	1,468

The students enumerated above were in residence as follows:

	1,025				0
Los Angeles	401	1,426	Riverside (College of Agriculture)	0	0
La Jolla (Scripps Institution of	41			1,066	
Oceanography)	1	42	TOTALS	402	1,468

SUMMARY OF STUDENTS, 1947-48

TABLE VI

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

(Students enumerated in Tables I, II, III, IV, and V)

At Berkeley:

Undergraduate Students*	{ 14,112	
	{ 6,279	20,391
Graduate Students.	{ 3,596	
	{ 1,338	4,934
Total Graduates and Undergraduates in the regular sessions.	{ 17,708	
	{ 7,617	25,325
Students in Summer Sessions, 1947 (duplicates deducted).	{ 8,958	
	{ 3,241	12,199
TOTALS, Berkeley, deducting 8,100 (6,579M+1,521W) duplicates (see Table II)	{ 20,087	
	{ 9,337	29,424

At San Francisco:

College of Dentistry

Professional Curricula	{ 173	
	{ 29	202
Academic Curricula.	{ 0	
	{ 0	0
Postgraduate.	{ 12	
	{ 0	12

Totals	{ 185	
	{ 29	214

Hastings College of the Law	{ 559	
	{ 24	583

Hooper Foundation for Medical Research	{ 3	
	{ 1	4

Curriculum in Hospital Dietetics	{ 0	
	{ 2	2

Medical School, Professional Curricula†	{ 223	
	{ 46	269

Medical Departments, Academic Curricula	{ 4	
	{ 3	7

School of Nursing	{ 0	
	{ 132	132

College of Pharmacy

Professional Curriculum	{ 146	
	{ 20	166
Academic Curricula.	{ 9	
	{ 0	9
Postgraduate.	{ 3	
	{ 0	3

Totals†	{ 158	
	{ 20	178

School of Public Health	{ 0	
	{ 3	3

Totals, San Francisco, regular sessions	{ 1,132	
	{ 260	1,392

Students in Summer Sessions, 1947 (Hastings College of the Law)	{ 178	
	{ 1	179

TOTALS, San Francisco, deducting 161 (160M+1W) duplicates	{ 1,150	
	{ 260	1,410

* Does not include 258 (195M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.

† Does not include students in residence at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE VI- (Continued)

<i>At Los Angeles, University of California at Los Angeles:</i>		
Undergraduate Students	9,033	
	5,344	14,377
Graduate Students	1,525	
	702	2,227
Total Graduates and Undergraduates in the regular sessions deducting 192 (129M+63W) for graduate students who received their degrees as undergraduates during the year 1947-48		
	10,429	
	5,983	16,412
Students in Summer Sessions, 1947	6,321	
	3,346	9,667
TOTALS, Los Angeles, deducting 5,790 (4,618M+1,172W) duplicates (see Table II)		
	12,132	
	8,157	20,289
<i>At Santa Barbara:</i>		
Undergraduate Students	1,770	
	1,217	2,987
Postgraduate Students	42	
	31	73
Total Postgraduates and Undergraduates in the regular sessions, deducting 8 (3M+5W) postgraduates who received degrees as undergraduates during the year 1947-48		
	1,809	
	1,243	3,052
Students in Summer Sessions, 1947	977	
	489	1,466
TOTALS, Santa Barbara, deducting 864 (662M+202W) duplicates (see Table II)		
	2,124	
	1,530	3,654
<i>At other points:</i>		
Davis—College of Agriculture		
Undergraduate Students	1,782	
	245	2,027
Graduate Students	101	
	6	107
Totals		
	1,883	
	251	2,134
La Jolla—Scripps Institution of Oceanography		
	41	
	1	42
Mt. Hamilton—Lick Astronomical Department		
	0	
	0	0
Riverside—College of Agriculture		
	8	
	0	8
TOTALS, other points		
	1,932	
	252	2,184

SUMMARY OF STUDENTS, 1947-48

TABLE VI—(Concluded)

Deduct:

Undergraduate students registered at Berkeley but in attendance at San Francisco, School of Public Health.....	{	0		
		3	3	
Graduate Students registered at Berkeley, but in attendance at:		101		
Davis.....	{	6	107	
		8		
Riverside.....	{	0	8	
San Francisco:				
College of Pharmacy (Academic Curricula).....	{	9		
		0	9	
Hooper Foundation for Medical Research.....	{	3		
		1	4	
Hospital Dietetics.....	{	0		
		2	2	
Medical Departments.....	{	4		
		3	7	
Graduate Students registered at Los Angeles, but in attendance at:		41		
La Jolla.....	{	1	42	
Total Deductions.....				
	{	166		
		16	182	
TOTAL RESIDENT STUDENTS, ALL DUPLICATES DEDUCTED.....		37,259		
	{	19,520	56,779	
TOTAL RESIDENT STUDENTS, REGULAR SESSIONS ONLY.....		32,844		
	{	15,339	48,183	

SUMMARY OF STUDENTS, 1947-48

TABLE VII

STUDENTS NOT ENUMERATED IN THE FOREGOING TABLES

NOTE.—Students enumerated in Tables I-VI received resident instruction during 1947-48 in courses which constituted an integral part of curricula leading to degrees, or in other courses of instruction based upon regular University matriculation requirements. In Table VII are enumerated students in other courses.

Los Angeles Medical Department.....	{	65	
		0	65
University Extension:			
Department of Class Instruction (enrollment)			158,723
Department of Institutes (enrollment).....			13,009
Department of Correspondence Instruction (courses).....			14,347
Lectures (attendance)			148,845
University Extension in Agriculture:			
Farmers' Meetings			930,211
Agricultural Clubs.....			13,629

SUMMARY OF OFFICERS, 1947-48

TABLE VIII

(Exclusive of officers serving only during the Summer Sessions)

	Departments at Berkeley	University of California at Los Angeles	Medical School, San Francisco and Berkeley	School of Nursing, San Francisco	College of Dentistry, San Francisco	College of Pharmacy, San Francisco	Hooper Foundation for Medical Research, San Francisco	Hastings College of the Law, San Francisco	College of Agriculture, Davis	College of Agriculture, Riverside	Lick Astronomical Dept., Mt. Hamilton	Scrips Institution of Oceanography, La Jolla	Santa Barbara College	Deduct for names counted more than once	Gross Totals	TOTALS
Administrative Officers (including 5 Emeritus)	28	18	6	0	1	1	1	1	2	2	1	2	5	6	68	62
Professors (including 73 Emeritus)	2	30	1	3	0	0	1	0	0	2	0	0	2	7	12	11
Associate Professors (including 19 Emeritus)	299	115	50	1	10	2	1	9	46	9	7	5	11	3	564	561
Assistant Professors (including 10 Emeritus)	15	314	1	51	1	4	2	0	26	0	1	0	6	4	30	29
Instructors	147	101	53	2	9	4	0	2	1	2	1	4	18	5	367	362
Lecturers	14	161	2	55	1	10	4	0	48	0	0	4	8	0	42	404
Associates	145	92	89	0	18	3	2	5	1	2	3	1	44	2	450	448
Assistants	19	164	14	103	4	0	3	0	50	0	0	1	10	3	66	63
Other Officers of Instruction	70	39	124	3	43	1	1	12	15	15	0	1	24	2	332	330
Deduct for names counted more than once	5	75	18	142	9	12	4	0	13	1	0	1	8	2	48	48
Total Teaching Staff present...	199	102	33	2	9	6	1	0	22	6	0	5	12	5	377	372
	49	248	2	35	7	2	6	2	15	0	1	2	2	0	82	82
	43	8	0	3	0	1	0	8	30	6	5	0	1	0	85	85
	28	71	3	3	1	1	0	1	8	1	0	5	1	0	58	58
	44	28	133	7	15	0	0	0	2	1	0	0	10	2	232	232
	2	46	7	140	0	15	4	0	0	0	1	1	1	0	25	25
	444	217	0	0	0	0	0	0	2	0	0	0	1	0	669	669
	104	548	0	0	0	0	4	0	0	0	0	1	0	0	170	170
	10	6	2	0	0	0	1	0	2	0	0	0	0	0	18	18
	15	16	0	2	1	0	0	0	0	0	0	0	0	0	10	10
	2	17	0	0	0	0	0	0	0	0	0	0	0	0	24	24
	1414	717	488	5	104	21	7	27	177	21	12	19	126	37	3136	3101
	242	1656	48	21	9	113	2	0	13	0	0	0	38	9	541	532
			536	26	26	0	2	0	190	21	12	19	164	46	3679	3633

DEGREES CONFERRED, 1947-48

TABLE IX

A: *Berkeley*

College of Pharmacy, B.S.....	22	
	6	28
College of Dentistry, D.D.S.....	16	
	0	16
B.S.....	1	
	12	13
	88	
Hastings College of the Law, LL.B.....	4	92
	24	
School of Architecture, A.B.....	5	29
	586	
School of Business Administration, B.S.....	64	650
	44	
School of Forestry, B.S.....	0	44
	1	
Medical School, Physical Therapy, B.S.....	6	7
	0	
School of Nursing, B.S.....	82	82
	46	
School of Optometry, B.S.....	1	47
	7	
School of Public Health, B.S.....	21	28
	117	
College of Agriculture, B.S.....	37	154
	88	
College of Chemistry, B.S.....	6	94
	627	
College of Engineering, B.S.....	5	632
	692	
College of Letters and Science, A.A.....	639	1,331
	1,125	
A.B.....	990	2,115
	11	
School of Librarianship, B.L.S.....	30	41
	43	
Master of Business Administration.....	1	44
	1	
Master of Criminology.....	0	1
	6	
Master of Education.....	0	6
	3	
Master of Engineering.....	0	3
	3	
Master of Forestry.....	0	3
	20	
Master of Public Health.....	7	27
	12	
Master of Social Welfare.....	51	63
	0	
Master of Library Science.....	2	2
	142	
Master of Science.....	8	150
	265	
Master of Arts.....	97	362
	74	
School of Jurisprudence, LL.B.....	10	84
	58	
Medical School, M.D.....	10	68
	3	
Doctor of Education.....	1	4
	1	
Civil Engineer.....	0	1
	2	
Mechanical Engineer.....	0	2
	109	
Doctor of Philosophy.....	13	122
	4,237	
TOTAL DEGREES, Berkeley.....	2,108	6,345

(Comparable totals: 1943-44, 3,068; 1944-45, 2,743; 1945-46, 3,047; 1946-47, 4,662.)

DEGREES CONFERRED, 1947-48

TABLE IX--(Concluded)

B: Davis

College of Agriculture, B.S.	60	
	10	70

C: Los Angeles

College of Letters and Science, A.A.	535	
	391	926
A.B.	745	
	635	1,390
B.S.	72	
	5	77
College of Agriculture, B.S.	21	
	0	21
College of Business Administration, A.A.	211	
	34	245
B.S.	538	
	52	590
College of Applied Arts, A.A.	65	
	194	259
A.B.	27	
	96	123
B.S.	45	
	138	183
College of Engineering, B.S.	82	
	0	82
School of Public Health, B.S.	3	
	0	3
Master of Arts.	103	
	33	136
Master of Business Administration	14	
	2	16
Master of Education.	7	
	3	10
Master of Science.	35	
	3	38
Doctor of Education.	14	
	0	14
Doctor of Philosophy.	25	
	2	27
TOTAL DEGREES, Los Angeles	2,542	
	1,588	4,130

(Comparable totals: 1943-44, 1,559; 1944-45, 1,541; 1945-46, 1,965; 1946-47, 2,884.)

D: Santa Barbara

School of Education, A.B.	187	
	164	351

E: Honorary Degree

Doctor of Laws (Berkeley)	6	
	0	6
Doctor of Laws (Los Angeles)	3	
	0	3
TOTAL DEGREES CONFERRED, 1947-48.	7,035	
	3,870	10,905

(Comparable totals: 1943-44, 4,637; 1944-45, 4,433; 1945-46, 5,197; 1946-47, 7,789.)

SUMMARY OF STUDENTS, 1947-48

TABLE X

VETERANS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS REGISTERED IN REGULAR SESSIONS

A: Registered at Berkeley

UNDERGRADUATE STUDENTS AT BERKELEY

SCHOOL OR COLLEGE	SENIORS 4th year		JUNIORS 3d year		SOPHOMORES 2d year		FRESHMEN 1st year		SPECIALS		TOTAL UNDER-GRAD.	
Letters & Science	799		1,191		1,424		661		775		4,850	
General.....	73	872	93	1,284	92	1,516	44	705	78	853	380	5,230
	1		5								6	
Prearchitecture	0	1	0	5							0	6
Prebusiness Ad-	1		7								8	
ministration..	0	1	1	8							1	9
	7		18								25	
Predental.....	0	7	0	18							0	25
Predental			1								1	
Hygiene.....			0	1							0	1
	27		139								166	
Premedical.....	1	28	0	139							1	167
			0								0	
Prenursing.....			7	7							7	7
	3		8								11	
Preoptometry..	0	3	0	8							0	11
School of Juris-	16		6								22	
prudence.....	0	16	0	6							0	22
	31		3								34	
Medical School.	0	31	0	3							0	34
	885		1,378		1,424		661		775		5,123	
Totals, L. and S..	74	959	101	1,479	92	1,516	44	705	78	853	389	5,512
	81		130		95		34		77		417	
Agriculture.....	5	86	1	131	5	100	0	34	2	79	13	430
	45		148								193	
Architecture....	1	46	1	149							2	195
Business Ad-	533		654								1,187	
ministration....	1	534	4	658							5	1,192
	84		97		99		31		18		329	
Chemistry.....	0	84	0	97	0	99	0	31	0	18	0	329
Engineering	1		9		6		1		2		19	
Agricultural....	0	1	0	9	0	6	0	1	0	2	0	19
	164		142		80		26		41		453	
Civil.....	0	164	0	142	0	80	0	26	0	41	0	453
Economic	12		6		3		3		2		26	
Geology.....	0	12	0	6	0	3	0	3	0	2	0	26
	253		229		208		50		70		810	
Electrical.....	0	253	1	230	0	208	0	50	0	70	1	811
Engineering	12		17		22		5		3		59	
Physics.....	0	12	0	17	0	22	0	5	0	3	0	59
	76		61		34		6		8		185	
Industrial.....	0	76	0	61	0	34	0	6	0	8	0	185
	236		182		138		48		57		661	
Mechanical.....	0	236	0	182	0	138	0	48	0	57	0	661
	15		9		13		1				38	
Metallurgy.....	0	15	0	9	0	13	0	1			0	38
	9		11		9		3		1		33	
Mining.....	0	9	0	11	0	9	0	3	0	1	0	33
	10		13		15		6		2		46	
Petroleum.....	0	10	0	13	0	15	0	6	0	2	0	46
	3		5		2		3				13	
Process.....	0	3	0	5	0	2	0	3			0	13
Totals, Engineer-	791		684		530		152		186		2,343	
ing.....	0	791	1	685	0	530	0	152	0	186	1	2,344
	41		54								95	
Forestry.....	0	41	0	54							0	95

SUMMARY OF STUDENTS, 1947-48

TABLE X (Continued)

SCHOOL OR COLLEGE	SENIORS 4th year	JUNIORS 3d year	SOPHOMORES 2d year	FRESHMEN 1st year	SPECIALS	TOTAL UNDER- GRAD.
Nursing	0	0				0
	30	30	13	13		43
	51	30				81
Optometry	0	51	0	30		0
	4	4	15	20		43
Pharmacy	0	4	0	4	0	0
	16	19		15	20	35
Public Health	2	18	4	23		6
TOTALS	2,531	3,198	2,163	898	1,056	9,846
	113	2,644	125	3,323	97	2,260
				44	942	80
						1,136
						459
						10,305

The above total 10,305 (9,846M+459W), does not include 173 (170M+3W) graduate students who received their degrees as undergraduates during the year 1947-48.

TOTAL UNDERGRADUATE VETERAN STUDENTS,	9,846
Academic and Professional Departments at Berkeley	459 10,305
Graduate Veteran Students, Academic and Professional Departments at Berkeley	2,345
	115 2,460
TOTAL GRADUATE AND UNDERGRADUATE VETERAN STUDENTS,	12,191
Academic and Professional Departments at Berkeley	574 12,765

B: Veterans Registered at Los Angeles UNDERGRADUATES

SCHOOL OR COLLEGE	SENIORS 4th year	JUNIORS 3d year	SOPHOMORES 2d year	FRESHMEN 1st year	TOTAL UNDER- GRADUATES
Letters and Science	710	825	900	290	2,725
	50	760	32	857	31
	22	17	40	931	12
	0	22	0	17	7
Agriculture	102	0	40	0	7
	25	127	144	149	55
Applied Arts	390	40	184	32	181
	2	392	4	414	2
Business Administration	172	267	285	597	1
	0	172	0	267	58
Engineering	1,396	1,663	1,969	580	5,608
	77	1,473	76	1,739	65
TOTALS			2,034	20	600
					238
					5,846

Special Students	415
	20 435
TOTAL UNDERGRADUATE VETERAN STUDENTS in the departments at Los Angeles	6,023
	258 6,281

GRADUATE VETERAN STUDENTS

Regular	610
	26 636
Unclassified	182
	12 194
Totals	792
	38 830

TOTAL GRADUATE AND UNDERGRADUATE VETERAN STUDENTS in the departments at Los Angeles, deducting 87 (82M+5W) graduate students who received their degrees as undergraduates during the year 1947-48	6,733
	291 7,024

SUMMARY OF STUDENTS, 1947-48

TABLE X—(Concluded)

C: Veterans Registered at Other Points

SCHOOL OR COLLEGE	4th year	3d year	2d year	1st year	Spec.	TOTALS
Davis:						
College of Agriculture Undergraduate.....	161	148	411	347	83	1,150
Graduate.....	1 162	0 148	8 419	3 350	1 84	13 1,163
Totals.....	161	148	411	347	142	1,209
San Francisco:						
College of Dentistry Professional.....	8	31	37	66	...	142
Postgraduate.....	0 8	0 31	0 37	0 66	6	0 142
Totals.....	8	31	37	66	6	148
Hastings College of the Law.....	0 8	0 31	0 37	0 66	0 6	0 148
Medical Departments, Academic.....	93	196	202	4	495	495
Medical School M.D. Curriculum.....	1 94	1 197	1 203	0 4	3	498
Course for Orthoptic Technicians.....	...	...	...	...	1 1	0 1
Course for X-Ray Technicians.....	...	...	...	...	1 2	1 2
Curriculum in Physical Therapy.....	...	...	...	...	1 4	3 4
Special Resident Fellows.....	...	...	...	...	41	41
Totals.....	43	48	52	2	41	145
College of Pharmacy Professional.....	0 43	0 48	0 52	5 7	0 41	5 150
Academic.....	14	55	47	...	...	116
Totals.....	0 14	0 55	0 47	...	4 4	0 116
Santa Barbara:						
Undergraduate.....	14	55	47	...	4	120
Postgraduate.....	0 14	0 55	0 47	...	0 4	0 120
Totals.....	14	55	47	...	4	120
TOTALS, other points.....	0 14	0 55	0 47	...	0 4	0 120
						1,375
						72 1,447
						27
						1 28
						1,402
						73 1,475
						3,520
						95 3,615

Total veteran students at Berkeley.....	{ 12,191	
	574	12,765
Total veteran students at Los Angeles.....	{ 6,733	
	291	7,024
Total veteran students at other points.....	{ 3,520	
	95	3,615

TOTAL VETERAN RESIDENT STUDENTS, deducting 60 (59M+1W) students in the College of Agriculture registered at Berkeley, but in attendance at Davis; 4 (M) students in the College of Pharmacy registered at Berkeley but in attendance at San Francisco; 1 (M) student in the Medical Departments at San Francisco, but registered at Berkeley; and 1 (M) student in attendance at Riverside, but registered at Berkeley.....

	{ 22,379	
	959	23,338

SUMMARY OF STUDENTS, 1947-48

TABLE XI

VETERAN STUDENTS IN SUMMER SESSIONS, 1947

<i>Berkeley</i>		
Veterans in First Summer Session	5,423 298	5,721
Veterans in Second Summer Session	4,197 193	4,390
TOTALS, deducting 3,228 (3,001M+137W) students registered in both Summer Sessions	6,628 354	6,982
<i>Los Angeles</i>		
Veterans in First Summer Session	3,611 179	3,790
Veterans in Second Summer Session	2,696 132	2,828
TOTALS, deducting 2,146 (2,034M+112W) students registered in both Summer Sessions	4,273 199	4,472
<i>Santa Barbara</i>		
Veterans in First Summer Session	734 42	776
Veterans in Second Summer Session	483 15	498
TOTALS, deducting 415 (401M+14W) students registered in both Summer Sessions	816 43	859
<i>San Francisco</i>		
Summer Session, Hastings College of the Law	163 0	163
<i>Total</i>		
TOTAL VETERAN STUDENTS IN SUMMER SESSIONS, all duplicates deducted	11,880 596	12,476

SUMMARY OF STUDENTS, 1947-48

TABLE XII

VETERAN GRADUATE STUDENTS REGISTERED IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS AT BERKELEY

NOTE.—All students were in residence at Berkeley unless otherwise indicated.

Agriculture	1		Agriculture—(Continued)		
Agriculture, Davis	0	1		3	
Agricultural Chemistry	3		Truck Crops, Davis	0	3
Berkeley	0	3		1	
Davis	0	1	Veterinary Science	0	1
Agricultural Economics	29		Totals, Agriculture	6	222
Davis	9			4	
Agricultural Technology I	0	9	Anatomy	0	4
Agricultural Technology II	5			16	
Davis	0	5	Anthropology	2	18
Agronomy, Davis	0	2		2	
Davis	4		Architecture	0	2
Animal Husbandry, Davis	0	4		15	
Animal Nutrition	1		Architecture, School of	1	16
Berkeley	0	1		16	
Davis	0	1	Art	5	21
Botany	12			9	
Berkeley	0	12	Astronomy	0	9
Davis	1		Bacteriology	19	
Comparative Pathology, Davis	0	1	Berkeley	0	19
Comparative Physiology, Davis	0	2	Davis	0	1
Entomology	44		Totals	20	
Berkeley	1	45		0	20
Davis	0	1		29	
Riverside	10		Biochemistry	0	29
Forestry	0	10		8	
Davis	6		Biophysics	0	8
Forestry, School of	0	6	Business Administration, School of	156	
Genetics	15			1	157
Berkeley	0	15		79	
Davis	2		Chemistry	0	79
Davis	0	2		2	
Home Economics	4	4	Classics	0	2
Horticulture	1			4	
Berkeley	0	1	Comparative Biochemistry	0	4
Davis	7			2	
Davis	1	8	Comparative Pathology*	0	2
Irrigation	0	1	Comparative Pharmacology and Toxicology		
Landscape Design	0	5	Medical Departments, San Francisco	1	
Plant Pathology	15			0	1
Berkeley	0	15	Decorative Art	0	
Davis	2			2	2
Davis	13		Economics	114	
Plant Physiology	0	13		4	118
Soil Science	14		Education (students with academic major leading to M.A. or Ph.D.)	101	
Berkeley	0	14		14	115
Davis	3		Education, School of:		
Davis	0	3	Students (not enumerated elsewhere in this table) with teaching major leading to teaching credential	125	
			Berkeley	7	132
			Davis	18	
			Davis	0	18

* See also Agriculture

SUMMARY OF STUDENTS, 1947-48

TABLE XII (Continued)

Education, School of - <i>Continued</i>			
Students with teaching major leading to teaching credential who are shown elsewhere in this table as having also an academic major leading to a degree	81		
	6	87	
Students in curriculum leading to Administration Credential who also have a teaching major leading to teaching credential	6		
	0	6	
Students (without teaching major) in curriculum leading to:			
Administration Credential	37		
	0	37	
Students in the curriculum leading to the Administration Credential who are shown elsewhere in this table as having an academic major leading to a degree	21		
	0	21	
Students (without teaching major) in curriculum leading to:			
Ed.D.	7		
	1	8	
	1		
M.Ed., Davis	0	1	
Totals, School of Education	296		
		14	310
Engineering	2		
Agricultural, Davis	0	2	
	26		
Chemical	0	26	
	33		
Civil	0	33	
	56		
Electrical	0	56	
	1		
Engineering Physics	0	1	
	1		
Industrial	0	1	
	36		
Mechanical	0	36	
	14		
Metallurgy	0	14	
	2		
Mining	0	2	
	4		
Petroleum	0	4	
		175	
Totals, Engineering	0	175	
	76		
English	11	87	
	15		
French	1	16	
	20		
Geography	1	21	
	25		
Geology	0	25	
	2		
Geophysics	0	2	
	9		
German	2	11	
Greek	1		
	0	1	
	133		
History	2	135	
	1		
History - Education	0	1	
	1		
History - Philosophy	0	1	
	9		
International Relations	1	10	
	2		
Italian	0	2	
	1		
Journalism	0	1	
	203		
Jurisprudence, School of	0	203	
	1		
Latin	0	1	
	13		
Librarianship, School of	5	18	
	3		
Linguistics	0	3	
	54		
Mathematics	5	59	
	5		
Medical Physics	0	5	
	15		
Medical School (first year)	0	15	
	2		
Microbiology	0	2	
	21		
Music	1	22	
	1		
Near Eastern Languages	0	1	
	0		
Nursing, School of	2	2	
	13		
Optometry, School of	0	13	
	8		
Oriental Languages	1	9	
	8		
Paleontology	1	9	
	6		
Parasitology	0	6	
Pharmaceutical Chemistry	1		
Berkeley	0	1	
	4		
San Francisco	0	4	
Totals	0	5	
	13		
Philosophy	1	14	
	15		
Physical Education	1	16	
	113		
Physics	0	113	
	16		
Physiology	0	16	
	3		
Physiological Optics	0	3	
	92		
Political Science	9	101	
	4		
Pre dentistry	0	4	
	18		
Premedical	0	18	

SUMMARY OF STUDENTS, 1947-48

TABLE XII—(Concluded)

Psychology.....	123				
	8	131	Social Welfare.....	4	
	0			3	7
Public Health.....	1	1	Social Welfare, School of.....	22	
	8			12	34
Public Health, School of.....	4	12	Spanish.....	18	
	1			0	18
Romance Languages.....	0	1	Statistics.....	5	
	1			0	5
Romance Philology.....	0	1	Zoölogy	43	
	1		Berkeley.....	0	43
Sanskrit.....	0	1		1	
	3		Davis.....	0	1
Seismology.....	0	3			44
	10		Totals.....	0	44
Slavic Languages.....	0	10			
	2		TOTALS, deducting 108 (102M+6W)		
Social Institutions.....	0	2	students in the School of Edu-		
	3		cation who are also shown as		
Sociology.....	0	3	having majors in other depart-		
	10		ments.....	115	2,460
Sociology and Social Institutions..	0	10			

The students enumerated above were in residence as follows:

Berkeley.....	2,280		San Francisco		
	114	2,394	College of Pharmacy	4	
	59		(Academic Curricula).....	0	4
Davis (College of Agriculture).....	1	60	Medical Departments	1	
	1		(Academic Curricula).....	0	1
Riverside (College of Agriculture).	0	1		2,345	
			TOTALS.....	115	2,460

SUMMARY OF STUDENTS, 1947-48

TABLE XIII

VETERAN STUDENTS DISTRIBUTED BY SOURCE OF EDUCATIONAL BENEFITS

CAMPUS	P.L. 16		P.L. 346		C.V.E. I.A.		TOTALS	
<i>At Berkeley:</i>								
Undergraduate Students*	26	646	429	9,283	4	*376	549	10,305
Graduate Students	3	114	112	2,318	0	28	115	2,460
Total Graduates and Undergraduates in regular sessions	29	760	541	11,601	4	404	574	12,765
Students in Summer Sessions, 1947	13	420	340	6,434	1	128	354	6,982
Duplicates between Summer Sessions and regular sessions	314		4,711		99		5,124	
	12	326	220	4,931	1	100	233	5,357
TOTALS, Berkeley, duplicates deducted	824		12,443		428		13,695	
	30	854	661	13,104	4	432	695	14,390
<i>At San Francisco:</i>								
College of Dentistry	10		128		4		142	
Professional Curricula	0	10	0	128	0	4	0	142
Postgraduate			6				6	
			0	6			0	6
Totals	10		134		4		148	
	0	10	0	134	0	4	0	148
Hastings College of the Law	41		450		4		495	
	0	41	3	453	0	4	3	498
Hooper Foundation for Medical Research							0	
Medical School, Professional	10		139		37		186	
	0	10	6	145	0	37	6	192
College of Pharmacy	8		108				116	
Professional Curriculum	0	8	0	108			0	116
Academic Curricula			4				4	
			0	4			0	4
Totals†	8		112				120	
	0	8	0	112			0	120
Totals, San Francisco, regular sessions	69		836		45		950	
	0	69	7	843	0	45	7	957
Students in Summer Session, 1947	11		150		2		163	
Duplicates between Summer Session and regular sessions	0	11	0	150	0	2	0	163
TOTALS, San Francisco, duplicates deducted	8		137		2		147	
	0	8	0	137	0	2	0	147
	72		849		45		966	
	0	72	7	856	0	45	7	973

* Does not include 13M, P.L. 16, or 157 (154M+3W) P.L. 346, or 3M, C.V.E.I.A. graduate students who received their degrees as undergraduates during the year 1947-48.

† Does not include students in residence at Berkeley.

SUMMARY OF STUDENTS, 1947-48

TABLE XIII—(Concluded)

CAMPUS	P.L. 16		P.L. 346		C.V.E. I.A.		TOTALS	
<i>At Los Angeles, University of California at</i>								
<i>Los Angeles:</i>								
Undergraduate Students*	614		5,007		320		5,941	
	17	631	236	5,243	0	320	253	6,194
	38		754		...		792	
Graduate Students	3	41	35	789	...		38	830
Total Graduates and Undergraduates in the regular sessions	652		5,761		320		6,733	
	20	672	271	6,032	0	320	291	7,024
	379		3,790		104		4,273	
Students in Summer Sessions, 1947	4	383	195	3,985	0	104	199	4,472
Duplicates between Summer Sessions and regular sessions	187		1,780		38		2,005	
	2	189	92	1,872	0	38	94	2,099
	844		7,771		386		9,001	
TOTALS, Los Angeles, duplicates deducted	22	866	374	8,145	0	386	396	9,397
<i>At Santa Barbara:</i>								
Undergraduate Students†	144		1,186		42		1,375	
	6	150	64	1,250	1	43	72	1,447
	7		20		...		27	
Postgraduate Students	0	7	1	21	...		1	28
Total Postgraduates and Undergraduates in the regular sessions	151		1,206		42		1,399	
	6	157	65	1,271	1	43	72	1,471
	98		709		9		816	
Students in Summer Sessions, 1947	4	102	38	747	1	10	43	859
Duplicates between Summer Sessions and regular sessions	75		509		19		603	
	3	78	24	533	0	19	27	630
TOTALS, Santa Barbara, duplicates deducted	174		1,406		32		1,612	
	7	181	79	1,485	2	34	88	1,700
<i>At Davis—College of Agriculture:</i>								
Undergraduate Students	83		1,050		17		1,150	
	0	83	13	1,063	0	17	13	1,163
	5		54		...		59	
Graduate Students	0	5	1	55	...		1	60
	88		1,104		17		1,209	
TOTALS, Davis	0	88	14	1,118	0	17	14	1,223
<i>Deduct:</i>								
Graduate Students registered at Berkeley but in attendance at	5		54		...		59	
Davis	0	5	1	55	...		1	60
San Francisco					...			
College of Pharmacy (Academic Curricula)			4		...		4	
	5		0	4	...		0	4
	5		58		...		63	
Total Deductions	0	5	1	59	...		1	64
TOTAL VETERAN STUDENTS, ALL DUPLICATES DEDUCTED	1,997		23,515		908		26,420	
	59	2,056	1,134	24,649	6	914	1,199	27,619

* Does not include 8M, P.L. 16 or 75 (70M+5W) P.L. 346 or 4M, C.V.E.I.A. graduate students who received their degrees as undergraduates during the year 1947-48.

† Does not include 4 (3M+1W) P.L. 346 graduate students who received their degrees as undergraduates during the year 1947-48.

SUMMARY OF STUDENTS, 1947-48

TABLE XIV

GEOGRAPHICAL DISTRIBUTION OF STUDENTS REGISTERED AT BERKELEY

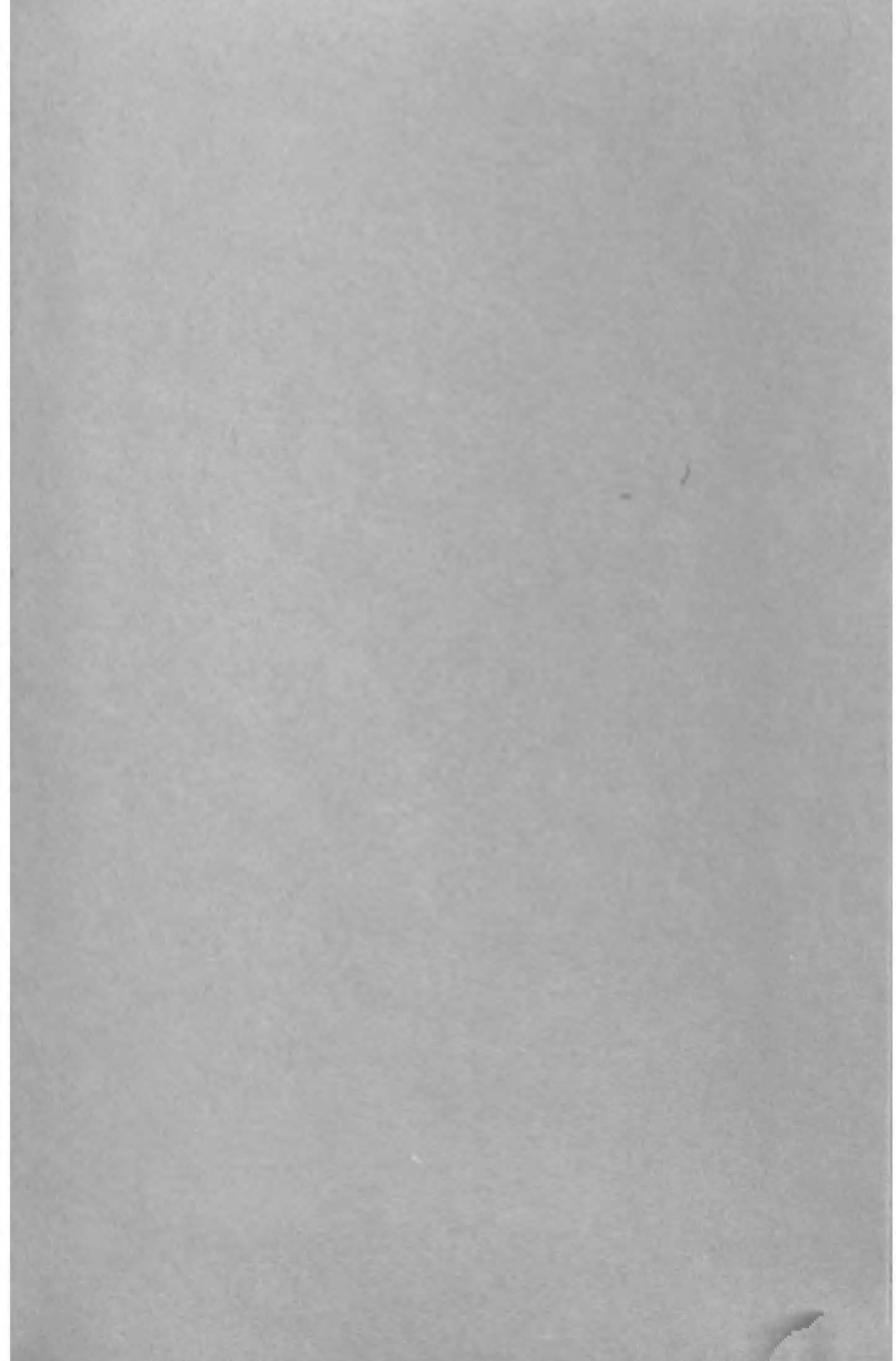
	CALIFORNIA		UNITED STATES*		FOR- EIGN		TOTALS	
Undergraduates	2,140		109		67		2,316	
Freshmen	1,323	3,463	25	134	3	70	1,351	3,667
Sophomores	3,000		297		119		3,416	
Juniors	1,536	4,536	93	390	19	138	1,648	5,064
Seniors	3,476		491		125		4,092	
Specials	1,587	5,063	134	625	17	142	1,738	5,830
Totals	2,597		390		70		3,047	
Seniors	1,224	3,821	135	515	15	85	1,374	4,421
Specials	1,022		201		18		1,241	
Specials	105	1,127	50	251	13	31	168	1,409
Specials	12,235		1,478		399		14,112	
Total Undergraduates†	5,775	18,010	437	1,915	67	466	6,279	20,391
Graduates	2,467		853		276		3,596	
Graduates	1,038	3,505	249	1,102	51	327	1,338	4,934
TOTALS	14,702		2,331		675		17,708	
TOTALS	6,813	21,515	686	3,017	118	793	7,617	25,325

* Except California.

† These totals do not include 288 (195M+63W) graduate students who received their degrees as undergraduates during the year 1947-48.







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