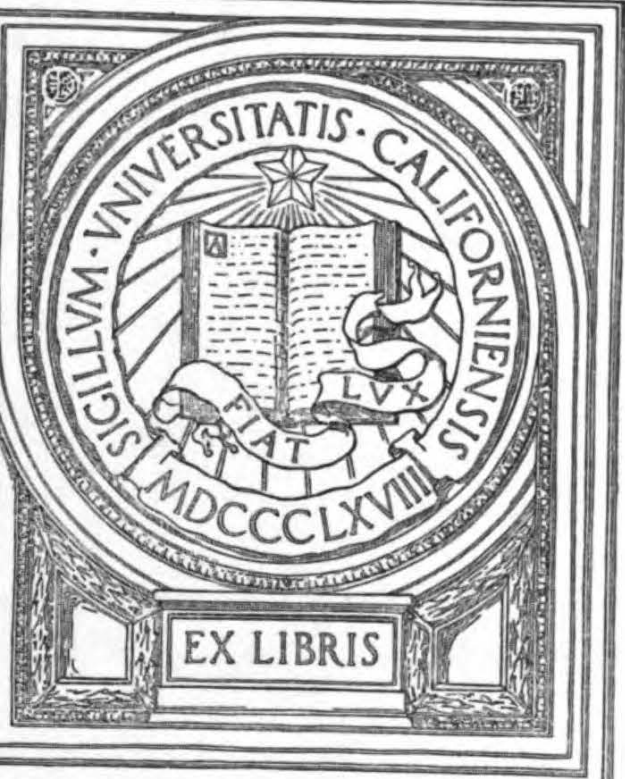
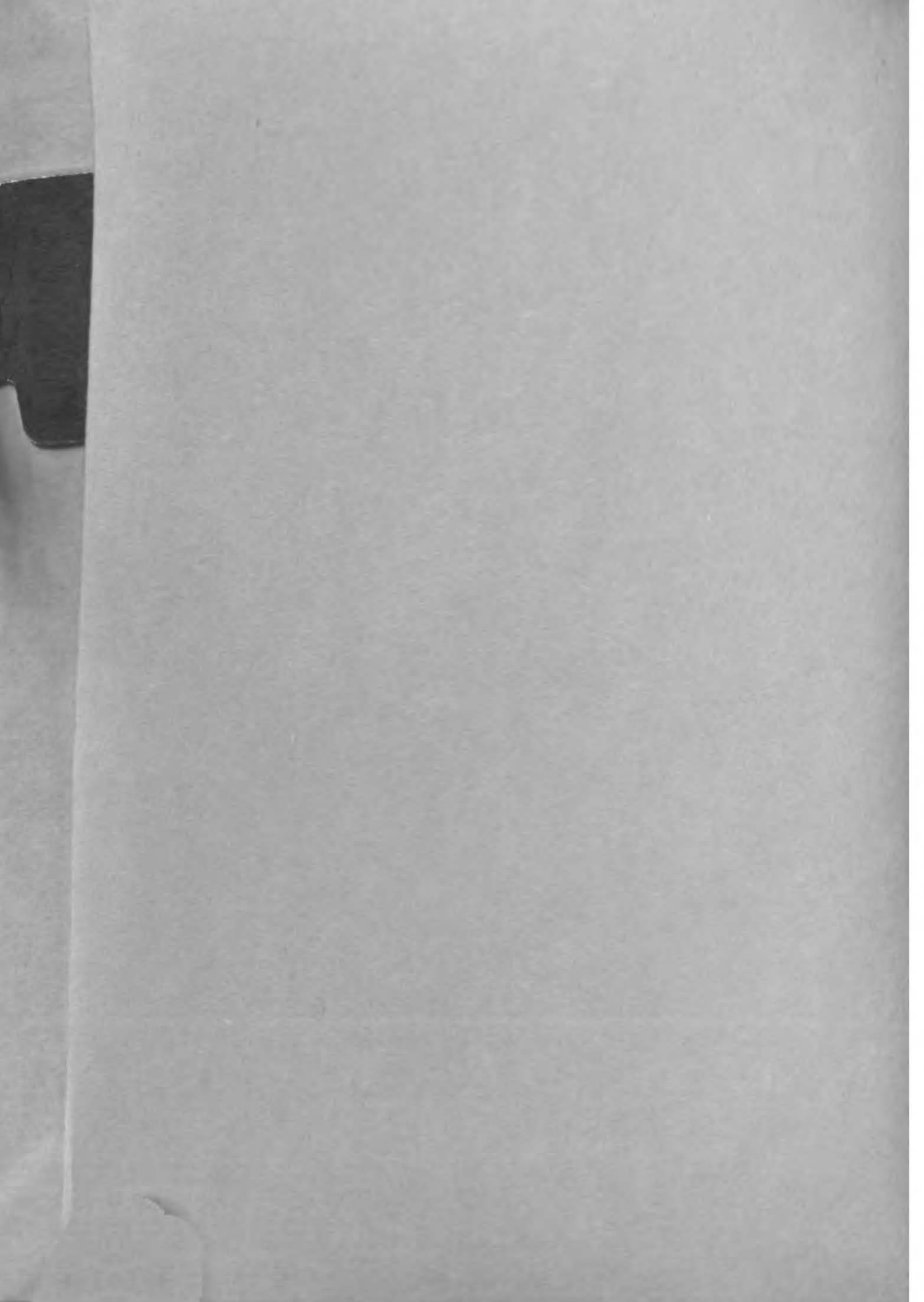


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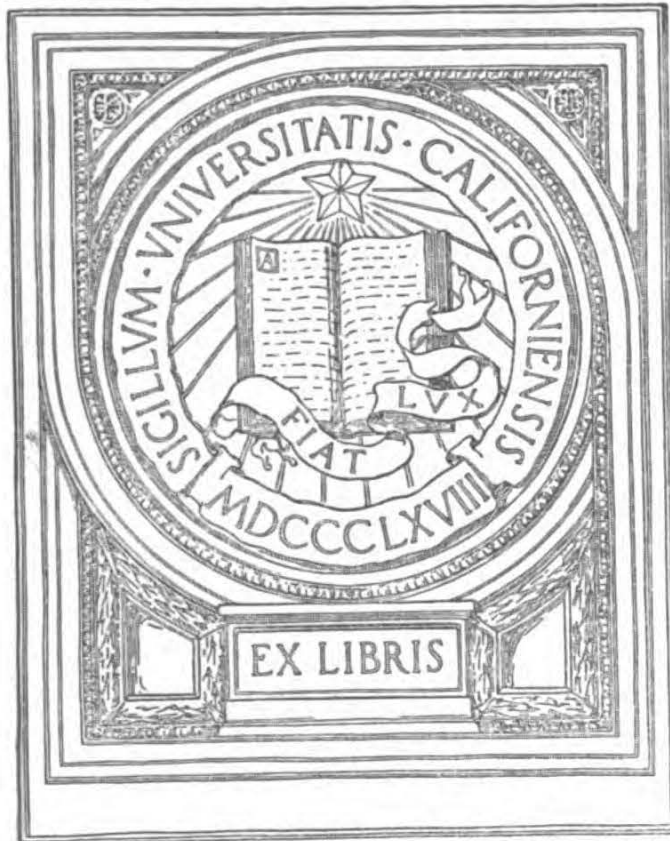
IN TWO VOLUMES

Volume II

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- Announcement of the School of Medicine, Los Angeles
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- Announcement of the School of Pharmacy
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UNIVERSITY OF
CALIFORNIA

Bulletin



Announcement of the

School of Medicine

Fall and Spring Semesters

1956-1957

SEPTEMBER 15, 1956

UNIVERSITY OF CALIFORNIA
MEDICAL CENTER
SAN FRANCISCO

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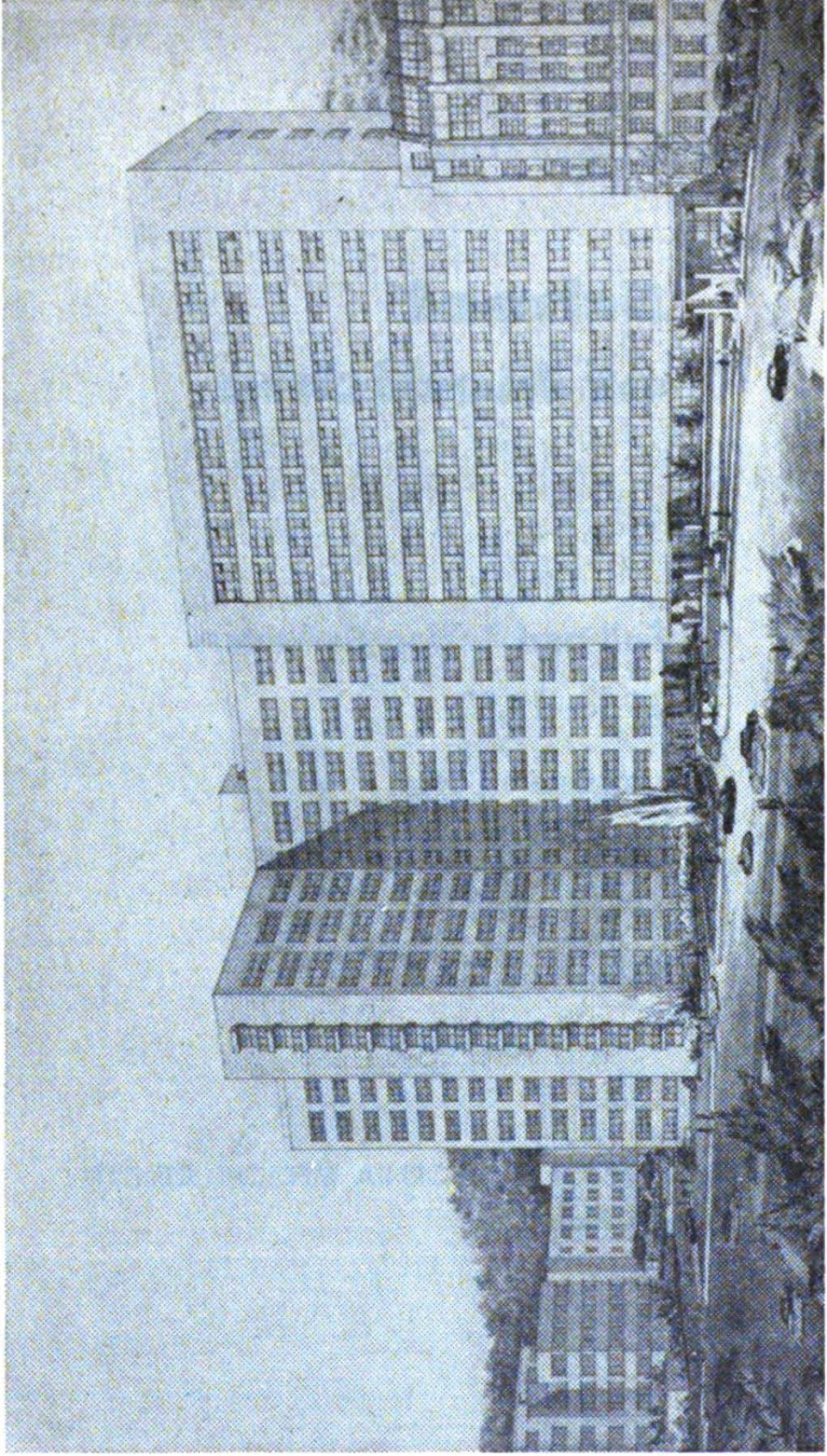
**School
of Medicine**

Fall and Spring Semesters
1956–1957

SEPTEMBER 15, 1956

UNIVERSITY OF CALIFORNIA MEDICAL CENTER
SAN FRANCISCO

194571



Herbert C. Moffitt Hospital, teaching hospital (left), and Medical Sciences Building (right).

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CALENDAR

FALL SEMESTER—September 10, 1956, to January 24, 1957

Sept. 10	Monday	†Fall semester begins
Sept. 17	Monday	Instruction begins
Jan. 24	Thursday	Fall semester ends

SPRING SEMESTER—January 28, 1957, to June 5, 1957

Jan. 28	Monday	†Spring semester begins
Feb. 4	Monday	Instruction begins
June 5	Wednesday	Spring semester ends

† Registration will be held the week beginning this date. For details, please consult registration circular.

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- Morrell E. Vecki, A.B., M.A., M.D., *Assistant Clinical Professor of Urology*,
450 Sutter Street, San Francisco 8.
- Charles A. Vieth, B.S., M.S., M.D., *Clinical Instructor in Psychiatry*.
- Joseph A. Visalli, B.S., M.D., *Clinical Instructor in General Surgery*,
450 Sutter Street, San Francisco 8.
- John S. Visher, A.B., M.D., *Clinical Instructor in Psychiatry*,
1554 Campus Drive, Berkeley 8.
- Albert M. Vollmer, M.D., *Associate Clinical Professor of Obstetrics and Gynecology*,
384 Post Street, San Francisco 8.
- Ralph O. Wallerstein, A.B., M.D., *Assistant Clinical Professor of Medicine*,
2000 Van Ness Avenue, San Francisco 9.
- Gordon L. Walls, Sc.D., *Lecturer in Physiology*,
Optometry Building, University of California, Berkeley 4.
- Alton L. Walsh, A.B., M.D., *Assistant Clinical Professor of Ophthalmology*,
265 Meridian Road, San Jose.
- Robertson Ward, A.B., M.D., *Associate Clinical Professor of Surgery*,
384 Post Street, San Francisco 8.
- David W. Wardell, A.B., M.D., *Clinical Instructor in Psychiatry*,
12 4th Avenue, Boyes Hot Springs.
- George F. Warner, A.B., M.D., *Assistant Clinical Professor of Medicine*,
655 Sutter Street, San Francisco 2.
- Robert Wartenberg, M.D., *Clinical Professor of Neurology, Emeritus*.

- Harold G. Watson, A.B., M.D., *Assistant Clinical Professor of Obstetrics and Gynecology*,
490 Post Street, San Francisco 2.
- Malcolm S. Watts, A.B., M.D., *Assistant Clinical Professor of Medicine*,
909 Hyde Street, San Francisco 9.
- Edward L. Way, Ph.D., *Lecturer in Pharmacology*.
- Eugene M. Webb, A.B., M.D., C.M., *Assistant Clinical Professor of Neurological Surgery*,
450 Sutter Street, San Francisco 8.
- Gilbert A. Webb, M.D., *Clinical Instructor in Obstetrics and Gynecology*,
490 Post Street, San Francisco 2.
- Richard R. Webster, B.S., M.D., *Assistant Clinical Professor of Surgery*,
384 Post Street, San Francisco 8.
- Ralph W. Weilerstein, A.B., M.D., *Clinical Instructor in Medicine*,
1080 Milvia Street, Berkeley 8.
- Jerome A. Weinbaum, M.D., *Clinical Instructor in Obstetrics and Gynecology*,
180 East Fifth Street, Chico.
- Harry Weinstein, A.B., M.D., *Assistant Clinical Professor of Medicine*,
384 Post Street, San Francisco 8.
- Joseph Weiss, A.B., M.D., *Clinical Instructor in Psychiatry*,
3831 Jackson Street, San Francisco 18.
- John S. Wellington, A.B., M.D., *Lecturer in Pathology*,
1515 Trousdale, Burlingame.
- Reilar Wennesland, A.B., M.D., *Clinical Instructor in Medicine*.
- Helen B. Weyrauch, A.B., M.D., *Clinical Instructor in Radiology*,
350 Post Street, San Francisco 2.
- Joseph B. Wheelwright, M.R.C.S. (Eng.), L.P.C.P. (London), *Associate Clinical Professor of Psychiatry*,
2206 Steiner Street, San Francisco 23.
- Bruce Whitaker, B.S., Ph.D., M.D., *Clinical Instructor in Otorhinolaryngology*,
1116 Mendocino Drive, Santa Rosa.
- Hugh L. White, A.B., M.D., *Clinical Instructor in Orthopaedic Surgery*,
516 Sutter Street, San Francisco 2.
- M. James Whitelaw, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology*,
Stonestown Medical Building, San Francisco 27.
- James G. Whitney, A.B., M.D., *Clinical Instructor in Psychiatry*,
2206 Steiner Street, San Francisco 15.
- H. Ward Wick, B.S., M.D., *Clinical Instructor in Ophthalmology*,
858 Fourth Street, Santa Rosa.
- Edith A. Wilder, A.B., M.D., *Clinical Instructor in Psychiatry*,
21 Gordon, Sausalito.
- Arthur J. Williams, M.D., *Associate Clinical Professor of Radiology*,
450 Sutter Street, San Francisco 8.
- Barbara Williams, A.B., M.A., M.D., *Clinical Instructor in Medicine*,
595 Buckingham Way, San Francisco 27.
- Emma K. Willits, M.D., *Assistant Clinical Professor of Surgery, Emeritus*,
80 Scenic Way, San Francisco 21.
- David H. Wilson, M.D., *Clinical Instructor in Psychiatry*,
341 Molino Drive, San Francisco 27.
- Edward W. Wilson, A.B., M.D., *Clinical Instructor in Dermatology*,
595 Estudillo Avenue, San Leandro.
- Roger H. L. V. Wilson, B.S., M.D., *Assistant Clinical Professor of Medicine*,
2255 Van Ness Avenue, San Francisco 9.

- George A. Winch, B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology*,
384 Post Street, San Francisco 8.
- Emanuel Windholz, M.D., *Associate Clinical Professor of Psychiatry*,
2235 Post Street, San Francisco 15.
- Paul G. Winquist, A.B., M.D., *Clinical Instructor in Pathology*,
2001 Dwight Way, Berkeley 4.
- †Burton L. Wise, A.B., M.D., *Instructor in Neurological Surgery*.
- David A. Wood, A.B., M.D., *Professor of Pathology (Oncology)*.
- J. Homer Woolsey, B.S., M.S., M.D., *Associate Clinical Professor of Surgery, Emeritus*,
Woodland Clinic, Woodland.
- Richard V. Worthington, A.B., M.D., *Clinical Instructor in Psychiatry*,
Veterans Administration Hospital, Palo Alto.
- Jean S. Wright, A.B., M.D., *Clinical Instructor in Psychiatry*,
5637 Rosalind Avenue, El Cerrito.
- Robert R. Wright, M.D., *Instructor in Pathology*.
- Wayne L. Wright, M.D., *Clinical Instructor in Dermatology*,
17776 Walnut Road, Castro Valley.
- Edwin J. Wylie, A.B., M.D., *Assistant Clinical Professor of Surgery*,
384 Post Street, San Francisco 8.
- Alexander Yankley, M.S., M.D., *Clinical Instructor in Medicine*,
99 S. Ninth Street, San Jose 12.
- Charles L. Yeager, B.S., M.S., Ph.D., M.D., *Associate Clinical Professor of Psychiatry*,
The Langley Porter Clinic, Medical Center, San Francisco 22.
- Louise A. Yeazell, A.B., M.A., *Associate Clinical Professor of Pediatrics*,
1418 Ninth Avenue, San Francisco 22.
- Milton J. Zibel, A.B., B.S., M.D., *Clinical Instructor in Obstetrics and Gynecology*,
700 Twenty-fifth Avenue, San Francisco 18.
- Kent A. Zimmerman, A.B., M.D., *Lecturer in Pediatrics*,
State Department of Public Health, Berkeley 4.
- Calvin Zippin, A.B., Sc.D., *Lecturer in Biostatistics (Oncology)*,
350 Noriega Street, San Francisco 22.
- Joseph L. Zundell, A.B., M.B., M.D., *Assistant Clinical Professor of Pathology*,
900 Hyde Street, San Francisco 9.

† Absent on military leave, 1956–1957.

UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE

HISTORY AND DEVELOPMENT

- 1864 Toland Hall erected in San Francisco by Dr. H. H. Toland.
- 1873 Toland Hall formally transferred to the Regents as a Department of the University of California. For many years the affiliation was nominal, the Medical Faculty controlled the policy of the school and its support was derived entirely from fees collected from students.
- 1898 Medical Department moved to present location. The late Adolph Sutro had given thirteen and one-half acres of land to the University. The State Legislature provided funds to erect buildings for Law, Medicine, Dentistry, and Pharmacy. The Law Building was later given to the School of Medicine by the Regents.
- 1902 The Regents adopted a resolution which made the Medical Department an integral department of the University. The properties of the school were transferred to the University and full support of the school was assumed by the Regents. Suitable laboratories were equipped and the first two years of medicine were put on an academic basis.
- 1906 Outpatient Department destroyed by fire and earthquake. The work of the first two years was transferred to Berkeley. The school's main building became a hospital and Outpatient Clinic.
- 1917 University Hospital completed.
- 1919 Nurses Home completed.
- 1928 Laboratories provided in the Medical School Building for bacteriology and pharmacology.
- 1930 Divisions of Anatomy, Biochemistry, and Physiology housed in the Life Sciences Building, University of California, Berkeley.
- 1933 Outpatient Department building opened.
- 1942 Langley Porter Clinic, a part of the Department of Institutes and situated at the Medical Center, opened.
- 1950 Construction was started on the Herbert C. Moffitt Hospital, a new teaching hospital, and on a Medical Sciences Building, both to be at the University of California Medical Center.
- 1954 Medical Sciences Building occupied.
- 1955 Herbert C. Moffitt Hospital occupied.

LIBRARIES

The Library of the University of California Medical Center on the San Francisco campus is an extensive collection of monographic and periodical literature in the health sciences comprising the collection of the School of Medicine, School of Dentistry, School of Pharmacy, School of Nursing, the various small departmental working collections, and that of the George William Hooper Foundation in the special fields of bacteriology, public health, and veterinary medicine. The collection in the health sciences contains over 110,000 volumes, and some 41,000 foreign university medical dissertations. Approximately 1,640 leading periodicals of the world in the health sciences are received currently and complete sets of most of the important journals are on file.

The principal collection is housed in the south wing of the Medical School Building. The pharmacy library is located on the second floor of the Medical Sciences Building. Some library facilities for staff and students are also provided in the San Francisco Hospital. A small collection of neurological

and psychiatric reference material in the Langley Porter Clinic is also available to students, faculties, and research workers.

A special room houses the historical collection. Of particular interest is the material on the history of anesthesia, medical Californiana, the Osler Collection, the medical portraits and prints and several manuscripts.

Libraries of the several campuses of the University of California are open to students, research workers and faculty members of the University of California Medical Center, San Francisco.

Library materials not available on the San Francisco campus may be requested on interlibrary loan by faculty members and research workers through the Medical Center Library.

A professional library staff is available to assist staff, faculty members, students, and research workers of the professional schools, University Hospitals and Clinics, research foundations and special research projects of the University of California Medical Center, San Francisco campus.

The Library is usually open:

Monday-Friday	8 A.M.-10 P.M.
Saturday	8 A.M.- 5 P.M.
Sunday	10 A.M.- 3 P.M.

The Departments of Anatomy, Physiology, and Physiological Chemistry now housed in Berkeley, have merged their collections with the library of the Life Sciences Building on the Berkeley campus. Generous donations from the late Phoebe A. Hearst (Mrs. George Hearst) and the late Mrs. William H. Crocker have been used to enlarge these collections.

LABORATORIES

The instruction of the first year is carried on in the laboratories of the Departments of Anatomy, Biochemistry, and Physiology in Berkeley. Clinical pathology, pathology, bacteriology, and pharmacology are taught in the San Francisco laboratories.

CLINICAL TEACHING FACILITIES

University of California Hospital. The University of California Hospital and Outpatient Department are part of the University of California Medical Center. The Hospital, built and equipped by friends of the University, is, at present, undergoing alterations.

The Herbert C. Moffitt Hospital was completed and occupied in the spring of 1955. The Hospital, a splendid addition to the teaching facilities, has a capacity of four hundred and sixty-nine beds. It is essentially for teaching cases. Through support from the State of California and from several endowment funds, some patients may be cared for who are unable to afford hospitalization. Such patients come not only from San Francisco, but from other parts of the Pacific Coast as well.

Outpatient Clinics. The Outpatient Clinics, with average daily visits of approximately five hundred patients, is designed to provide care for the ambulatory sick. Like the Hospitals, it contributes to the teaching facilities of the School of Medicine; its services are intended for those who demonstrate that they are unable to pay the fees of a private physician. It is possible for patients to be sent from one department to another for consultation. If in need of dental care, patients will be referred to the clinics of the School of Dentistry.

The Outpatient Clinics offer a special form of postgraduate instruction to the practicing physicians of California, particularly those in the rural communities. The physician may refer a patient who is financially unable to meet the cost of adequate medical investigation on a private basis. When the examination has been completed, the patient is returned to the referring physi-

cian with a complete report of the findings of the School of Medicine staff.

Through the generosity of Mrs. George H. Roos, and the late Mr. Roos, the *J. J. and Nettie Mack Thoracic Surgical Clinic* was established in 1928. The original fund and subsequent donations have provided equipment for this essential field of surgery, have helped needy patients requiring hospitalization and have been the stimulation for research. The Mack Clinic is a part of the Outpatient Clinics.

Social Service Department. The Social Service Department, through its social case workers, gives full case-work services, upon request or recommendation of the physician to patients who present problems with which they need help in adjustment, and gives consultation in the psychosocial aspects of illness to medical staff and students.

The Langley Porter Clinic. The Langley Porter Clinic is a one hundred-bed research and teaching institute for psychiatry erected by the Department of Mental Hygiene of the State of California with the provision that the research and teaching functions of the Hospital shall be carried on under the direction of the University of California School of Medicine. In addition to the psychiatric wards for adults, the clinic has a ward for neurosurgery, a psychiatric ward for children, and an outpatient department. There are all modern hospital facilities, such as general clinical laboratories and special laboratories for electro-encephalography and neuro-pathology, an X-ray department, an operating room and an occupational therapy department, as well as all of the usual equipment of a psychiatric hospital.

San Francisco Hospital. The San Francisco Hospital is a municipally owned and operated institution which functions for the care of the indigent sick residents of the City and County of San Francisco, under the supervision of Dr. Thomas E. Albers, Superintendent, with Dr. Ellis D. Sox, Director of Public Health, as the appointing officer. It is a closed hospital, and the resident and visiting staff members are nominated by the deans of the University of California School of Medicine and the Stanford University School of Medicine and appointed by the Director of Public Health. Half of the admitted patients are assigned alternately to the care of the University of California School of Medicine resident and visiting staff members and the other half to Stanford University School of Medicine Service.

The main group of buildings of San Francisco Hospital consist of an administration wing, 18 medical and surgical wards, and an emergency service ward. There is also a tuberculosis division of 14 wards, an isolation division of 2 wards, a psychiatric division of 2 admission wards and 2 treatment wards, and a maternity division of 2 wards. The outpatient services offered are prenatal and pediatric clinics and follow-up clinics for medicine, surgery, gynecology, post partum, orthopedics, and psychiatry.

Approximately 340 beds in the main hospital and 200 beds in the tuberculosis division are assigned to University of California Service for instruction in clinical medicine, clinical surgery and specialties.

Laguna Honda Home. The Laguna Honda Home houses over two thousand persons, nine hundred of whom are confined to the infirmary that is provided for the care of the aged and chronically ill. The infirmary is a modern hospital with twenty-two wards, all of which are available to the University School of Medicine for instruction in the fields of physical diagnosis, geriatrics, and chronic diseases. Various medical, surgical, and pathological clinics are conducted by the visiting staff representing their specialties. A Department of Physical Medicine with Occupational and Physical Therapy sections stresses rehabilitation. The infirmary has pathological and clinical laboratories and radiological facilities. The pathology laboratory is under the direction of a resident pathologist, and routine surgical pathology and necropsy studies are performed.

SCHOOL OF MEDICINE MUSEUM OF PATHOLOGY

The museum on the second floor of the Medical School Building contains a large number of specimens illustrating the pathologic anatomy of common as well as uncommon diseases. Both mounted and unmounted specimens are available for study. The pathologic material in the museum is derived mainly from the University Hospitals, although contributions are also received from other sources. The teaching collection is catalogued and indexed; clinical records and microscopic sections are available for most of the specimens.

CHARLES LLOYD CONNOR MEMORIAL LIBRARY

The Charles Lloyd Connor Memorial Library in the Department of Pathology was established by action of the Regents on May 17, 1946, from a memorial fund endowed by friends and associates of Charles Lloyd Connor, Professor of Pathology and Chairman of the Department from 1928 to 1941. Doctor Connor was an inspiring teacher and investigator; his influence was largely responsible for setting a new pattern of departmental organization and activity.

The library consists of selected books, journals and reprints, and includes Doctor Connor's own collection. The Memorial Library is housed in the Library-Seminar Room of the Department of Pathology on the fourth floor of the Medical Sciences Building.

THE MORRIS HERZSTEIN ENDOWMENT FUND

Established in 1929, with an endowment by the late Doctor Morris Herzstein of San Francisco, this fund has augmented appropriations for many teaching and research activities. Outstanding among these is the Morris Herzstein Embryological Collection, unique in the number and types of specimens which it makes available to qualified research personnel. New specimens, illustrating developmental anatomy and teratology are constantly increasing the usefulness of the collection for teaching and research purposes.

THE MORRIS HERZSTEIN LECTURES

The Morris Herzstein Lectures, established in 1929 by the late Dr. Morris Herzstein of San Francisco, are given under the direction of Stanford University School of Medicine and the University of California School of Medicine. Lectures, which are open to the public as well as to the medical profession, are given in alternate years by scientific men of outstanding achievement.

ADMISSION REQUIREMENTS

The requirements for admission to the University of California School of Medicine meet and exceed those set by the Association of American Medical Colleges. The requirements are listed in the following pages.

The minimum requirements of the University of California call for a combined seven-year course—three years spent in the academic departments of the University and four years in the School of Medicine. These arrangements allow time for general cultural as well as medical studies and lead toward both the A.B. and M.D. degrees. Students who so desire may take the Bachelor's degree before applying for admission to the School of Medicine. Candidates for the bachelor's degree, having the privilege of broad election from the various departments of the University, are advised to choose elective subjects not related to requirements specific to medicine in order that they may acquire a sound background in the humanities. A broad liberal education is considered most desirable in applicants for the School of Medicine.

Special attention is called to the fact that usually no student whose over-all grade-point average is below 1.75, based upon the University of California method of computing this figure, will be interviewed. In other words, such individuals may be denied a place in the class without further consideration. Students whose grade-point average is 1.75 or slightly above obviously have to make an excellent showing in the personal interviews and in the Medical College Admission Test in order to warrant consideration.

General Information

Individuals seeking general information about the School of Medicine should address their inquiries to:

Dean's Office
School of Medicine
University of California Medical Center
San Francisco 22, California

Upon request, the Dean's Office will be glad to supply a prospective applicant with a copy of a leaflet, published annually and giving specific information about admission to the next class for which applications will be considered. The leaflet gives detailed instructions for filing applications, as well as opening and closing dates. A new freshman class is admitted each fall.

Admission to the First Year

During the application period, application blanks may be obtained from:

Admissions Office
62A University of California Hospital
University of California Medical Center
San Francisco 22, California

Application fee. Applications must be accompanied by a draft or money order for \$5 in payment of the application fee (see page 60). A deposit of \$50, which will apply on the first semester's tuition, will be required at the time of acceptance of an applicant to the School of Medicine. This deposit may be refunded up until January 15 or if the student fails to meet the requirements, but it is not refundable if he gives up the place in order to accept appointment at another medical school, or for any other reason.

Completion of requirements. The student must complete all premedical requirements, including American History and Institutions, not later than the spring semester preceding his admission.

Basis of selection. Candidates for admission to the first-year class of the School of Medicine are considered on the basis of premedical scholarship and so must present evidence of satisfactory high scholarship, especially in the required subjects. In addition, they must take the Medical College Admission Test, administered for the Association of American Medical Colleges by the *Educational Testing Service of Princeton, New Jersey* (see below). Qualified applicants are requested by the Dean's Office to make appointments for two personal interviews (see below).

Enrollment in the School of Medicine is limited. This means that each year the School is unable to accept a number of applicants who might qualify for admission were the clinical and laboratory facilities greater. In addition, the Committee on Admissions to the School of Medicine is authorized to refuse admission to a student with a low academic record, and reserves the right to reject any applicant on the grounds of obvious physical, mental or moral disability. Successful candidates must pass a physical examination before registering in the School of Medicine.

The pursuit of the medical curriculum makes rather rigorous demands upon the physical stamina of the individual and, consequently, medical students must be in excellent health. The Committee on Admissions of the School considers the applicant's health as one of the factors in determining his eligibility.

Medical College Admission Test. At present, the Medical College Admission Test is offered twice a year, usually in the spring and fall, at various universities and colleges throughout the country. *Applicants for admission in September of any year are advised to take the Medical College Admission Test in the spring of the preceding year (that is, approximately fifteen to sixteen months prior to the date of admission) unless it has been taken before that time.* While the fall test will be acceptable, the results are not usually available before December which delays consideration of the application. Normally, students must apply to take the Medical College Admission Test at least three weeks, but not more than three months, prior to the scheduled date. The test should be repeated if, at the time of application, more than two years have elapsed since the last test. Further information from the Educational Testing Service, Princeton, New Jersey.

Personal interviews. It seems desirable to explain, in some detail, the procedure in making interview appointments. This is as follows:

1. After the application has been filed and all transcripts received, the Admissions Office makes a check of the record.
2. When the evaluation has been completed, the Admissions Office notifies the Dean's Office.
3. Qualified applicants are requested by the Dean's Office to make interview appointments. Each applicant is seen by two interviewers.

Certain applicants may be rejected, without interview, because of low premedical scholarship, and/or a low score in the Medical College Admissions Test, and, occasionally, for other reasons. Attention is called to the fact that no personal interview appointments are given until the applicant's record has been checked.

California Applicants. The majority of places in each class are given to students from California. Applicants are screened carefully by the Committee on Admissions. In reaching a decision, the Committee takes into consideration applicant's legal residence, the location of his high school and of the institution in which he has taken premedical work, the legal residence of his parents, and, occasionally, other factors.

Out-of-State Applicants. Approximately ten per cent of the places may be filled with applicants in the following categories:

1. From other states: Preference will be given to applicants from the following Western states not having medical schools: Arizona, Idaho, Montana,

Nevada, New Mexico, and Wyoming, or from the territories of Alaska and Hawaii.

2. From foreign countries: Ordinarily, not more than one applicant will be accepted from outside continental United States, Alaska, and Hawaii. This applicant must have completed at least one year of premedical or academic work at the University of California, or at an equivalent institution in the United States, one semester of which must have been completed previous to February 15 of the year of admission. For this place, the Committee will select an individual from a foreign country who is in the United States for the purpose of pursuing his medical education and who intends to return to his own country following graduation, preferably for teaching in a school of medicine, for public health or for related work. The attention of applicants for this place is called to the fact that completion of the premedical program in the University of California, or in some other institution, does not necessarily guarantee acceptance by a school of medicine.

Applications from veterans. Veterans, World War II, and Korean veterans, apply in the same manner as other applicants.

Notification of acceptance. As soon as possible after the completion of the interviews, applicants will be notified by the Dean's Office of acceptance or rejection. *In the meantime, no student will be given notice of tentative acceptance.*

Reapplication. A successful applicant who is unable to start work or who enters but finds it necessary to withdraw within the first year, loses his place and—if he desires to begin work in a later year—is required to reapply with that year's applicants.

Preliminary Preparation

High school course. The applicant must have completed a four-year high school course in accordance with the requirements for matriculation in the University of California. These requirements are given in detail in the CIRCULAR OF INFORMATION, BERKELEY.

The premedical curriculum assumes the completion of the following subjects in the high school: English, three units; history, one unit; mathematics, two units (elementary algebra and plane geometry); chemistry, one unit; physics, one unit; foreign language, two units. The requirements for the degree, Associate in Arts, will be met more easily if the foreign language study has been pursued four years in the high school. If possible, applicants should complete intermediate algebra, one-half unit, and trigonometry, one-half unit, in high school, although these courses may be taken in the University. Trigonometry is prerequisite for the premedical courses in physics.

Premedical subjects required. For matriculation in the School of Medicine—the four-year course leading to the M.D. degree—the applicant must give evidence of sufficient training in physics, chemistry, biology, and in English literature and composition to enable him to undertake with profit the medical curriculum. He must have a good reading knowledge of a modern foreign language.

The tabulation below shows the premedical subject requirements as given at the University of California. Students who are completing premedical work at institutions other than the University of California are advised to consult the CIRCULAR OF INFORMATION (no charge) and the ANNOUNCEMENT OF COURSES (26 cents), both obtainable from the Registrar, University of California, Berkeley 4, California. These publications give the requirements for senior standing in the University, course descriptions, and other information of importance to such applicants.

BERKELEY	DAVIS	LOS ANGELES	SANTA BARBARA	RIVERSIDE
English 1A-1B or Speech 1A-1B	Same	Same	English 1A-1B or Speech 21 and 31	English 1A-1B
Chemistry 1A-1B	Same	Same	Same	Chemistry 1A-1B
Chemistry 5	Same	Chemistry 5A	Chemistry 5A	Chemistry 23
Chemistry 8	Same	Same	Same	Chemistry 8
Physics 2A-2B	Same	Physics 2A-2B	Physics 2A-2B	Physics 1A-1B
Physics 3A-3B	Same	Included in 2A-2B	Included in 2A-2B	Included in 1A-1B
Zoölogy 1A-1B	Same	Same	Same	Zoölogy 24A-24B
Zoölogy 100	Zoölogy 100A and 100C	Zoölogy 100	Zoölogy 100	Zoölogy 136

While 8 semester units of credit in a modern foreign language will be accepted by the School of Medicine as a "reading knowledge," it is a requirement of the College of Letters and Science that 16 semester units in not more than two languages be completed before entrance into the junior year in order that the student must satisfy the requirements for the Associate in Arts degree. Those students who have a bachelor's degree (or who will have prior to entrance to the School of Medicine) need meet only the School of Medicine requirement of 8 semester units in a modern foreign language.

Senior standing. Besides taking the above-listed specific premedical subjects, the applicant, with the exception below ("*Applicants with a bachelor's degree*"), must also be eligible for admission to senior standing in the College of Letters and Science on either the Berkeley or the Los Angeles campus of the University. This includes the attainment of the degree of Associate in Arts (see the CIRCULAR OF INFORMATION) and the completion, after receiving the degree of Associate in Arts, of a minimum of 24 units, 6 units of which must be in upper division courses. The total number of units of college credit which the student must present for senior standing must be at least 90. In order that the student may matriculate into the School of Medicine in his fourth college year, it is essential that he satisfy the lower division requirements by the end of his sophomore year.

After completing the work of the first year in the School of Medicine with the required scholarship average (reckoned in grade points), and having received at least as many grade points as units undertaken, the student will be recommended to receive the degree of Bachelor of Arts in the College of Letters and Science. (Thirty units of credit are allowed for the first year's work in the School of Medicine which, with the 90 units required for admission to the School, fulfill the 120-unit requirement for the A.B. degree.)

Applicants with a bachelor's degree. Students entering the School of Medicine with a bachelor's degree are held for all of the subject requirements for admission to the School of Medicine, but need not meet the senior standing requirements of the College of Letters and Science in the University of California.

American History and Institutions Requirement. All candidates for the bachelor's degree must satisfy the requirement of American History and Institutions. In the case of School of Medicine applicants, this must be done not later than the end of the spring semester preceding admission.

A detailed announcement of the requirement is posted on all official University bulletin boards. Further information may be obtained from the office of the Supervisor, American History and Institutions Requirement, Room 208, Building T-9, Berkeley campus. For office hours, see official announcements on the Berkeley campus bulletin boards.

Miscellaneous. The information below will be of interest to premedical students in the University of California.

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

An examination in Subject A: English Composition is, with certain exceptions, required of all undergraduate entrants at the time of their registration in the University. If a student fails to pass this examination, it will be necessary for him to complete the course in Subject A for which no credit in units is given. In the interim, the student is advised to take one of the year courses which are required for the degree of Associate in Arts.

All undergraduate male students of the University are required to enroll in either military or naval science and tactics. In order to meet the additional requirements in naval science, which call for the completion of Astronomy 9 and 10 in addition to the courses in naval science, it may be necessary for a student who takes that subject to spend four years in the premedical curriculum.

ADMISSION TO ADVANCED STANDING

Applications for admission to the second- or third-year classes may be filed with the Dean, School of Medicine, University of California Medical Center, San Francisco 22. Formal application blanks are issued about one year in advance for admission in September. Applications should be filed by March 1. A fee of \$5 is required with the application (see page 60). Application for admission to the last semester of the first year or to the fourth-year classes will be considered *only* from former students honorably dismissed.

In order to be eligible for admission, the applicant must have completed all requirements for entrance to the School of Medicine, and must present credentials showing that he has taken courses equivalent to those given at the University of California School of Medicine in the year or years preceding that to which he desires admission.

Limited enrollment in the School of Medicine makes it possible to accept only a few of those who apply for admission to advanced standing. These applicants are accepted at the discretion of the Dean with the advice of a special committee. In selecting candidates, preference is given to residents of the State of California, particularly to those who have taken premedical work in the State. Applicants may be asked to supplement their credentials by interviews, by examinations, or in other ways.

Applicants for transfer to our School of Medicine presenting credentials from foreign schools are required to pass certain portions of the examination of the National Board of Medical Examiners and, in addition, third year applicants must take a performance test. Further details will be given to such applicants.

Applications from students dismissed from other medical schools for scholastic or other reasons and from students with poor scholastic records ordinarily will be returned without consideration. No applicant may disregard his medical school record at another institution and apply for admission to a lower class in the University of California School of Medicine.

Students admitted with advanced standing are automatically on probation during the first semester of their residence.

REGULATIONS

Registration

Students in the School of Medicine register on the announced dates and, according to their status, follow the procedures outlined thus:

First-year students register with the Registrar at Berkeley.

Second-, third-, and fourth-year students register with the Recorder, University of California Medical Center, San Francisco.

Student Health Service

The purpose of the Student Health Service is to conserve the time of students for their classwork and studies, by preventing and protecting them from developing acute illnesses and treating them if such occur. To this end routine annual physical examinations, tuberculin testing, and chest X rays are required throughout their training period. *Renewal of registration is contingent upon fulfilling these requirements when students are notified of appointments for such examinations.*

Each registered student at San Francisco may at need have such consultations and medical care on the campus as the Student Health Service is staffed and equipped to provide, from the time of approval of his registration to the last day of the current semester. Surgical treatment is also included in the services when, in the opinion of the Director of Student Health Service, this service is necessary and within the limitations herein outlined. During the semester, hospital care for a period of thirty days may be given in the event of serious illness and on the recommendation of the Director of Student Health Service. The Student Health Service does not take responsibility for chronic physical defects or illnesses present at the time of entrance to the University.

If illnesses are of a nature requiring long, continued care so that the student may not be able to return to classes during the current semester or if at the end of the semester the student is still ill, he will be released to his home or his community as soon as the Director of Student Health Service considers it safe. Additional charges may be made for unusual appliances or remedies not ordinarily available or for hospitalization in excess of thirty days, if need be.

Dental services are not furnished by Student Health Service. However, dental care is provided at very reasonable rates by appointment with the dental externs. Consultation with members of the staff of the College of Dentistry and facilities of the Dental Outpatient Department are available.

Students who are registered on the Berkeley campus are provided with such services as the Ernest V. Cowell Memorial Hospital is staffed and equipped to provide, subject to the approval of the University Physician on that campus.

Medical and Physical Examination

All new students (graduate and undergraduate) just after filing their registration papers on the San Francisco campus must report to the Student Health Dispensary for smallpox vaccination regardless of previous vaccination, and must pass a medical and physical examination given by a member of the Student Health Staff before final acceptance is approved. A full program of immunization for diphtheria, tetanus and typhoid by the Student Health Staff, as well as tests for tuberculosis, is also required. Final acceptance of applicants is contingent upon fulfilling these requirements to the end that the health of the University community as well as the individual student may be safeguarded. Medical and physical examinations and immunizations and tests in advance of registration are not required and certificates of same will not be recognized by Student Health Service.

Before coming to the University, every student is urged to have his own physician and dentist examine him for fitness to carry on his professional training at the University and to have all physical defects capable of remedial treatment, as diseased tonsils, defective vision, dental defects, etc., corrected. Correction of such handicaps prior to registration will appreciably help to prevent loss of time from classes during the school year. Students having handicapping physical conditions such as chronic eczema, convulsive disorders, etc., should not apply for admission.

Approval of Study Cards

Immediately after registration, each first-year student should mail his study card to the Dean's Office of the School of Medicine. It will be approved at once and returned to him.

Honors with the A.B. Degree

Students finishing the first year's work in the School of Medicine who announce their expectation of receiving the Bachelor of Arts degree in the College of Letters and Science may be recommended for honors on the basis of the quality of work done in that year.

Absence and Withdrawal

Absence with permission. Short leaves of absence, not to exceed six weeks in any one academic year (to comply with the provisions of the Business and Professions Code of the State of California), may be granted in cases of illness or other emergency with the understanding that the student will arrange with the instructors concerned to make up all of the work which he has missed.

Students who withdraw from the School of Medicine without notice or who fail to report after leave of absence, will automatically terminate their connection with the School of Medicine.

In addition, if he fails to register for any term within one month after the opening of such term, the student will be considered as having terminated his connection with the School, unless such student has requested an honorable dismissal because of illness or for some other reason.

Honorable dismissals. Students who are unable to return to School at the opening of any semester or who are forced to discontinue their work for any reason during the academic year will be granted honorable dismissals, provided their scholastic record is satisfactory. Should such students desire to return to School, they must apply in the same manner as other applicants for admission to advanced standing (see page 49).

DISMISSAL

The Faculty has the right to sever, at any time, the connection with the School of Medicine of any student who is considered to be physically, morally, or mentally unfit for a career in medicine.

A student may be dropped upon recommendation of the Committee on Student Promotion. The Committee meets regularly at the end of each semester, but may also meet at other times to act upon specific cases. It may recommend, (a) promotion to the next class, (b) promotion to the next class, subject to certain conditions, such as special work, probation, etc., or (c) dismissal.

The Committee is a subcommittee of the Advisory Board, the standing committee of the faculty. Recommendations are made to the Dean, who has the authority to carry these out pending formal ratification by the Advisory Board, which acts for the Faculty in matters affecting the dismissal (and promotion) of students.

While the majority of the students whose dismissal is recommended by the Committee on Student Promotion are dropped because of low scholarship, in some instances, dismissal may be recommended for other reasons.

Traditionally, a student is on probation or at least on warning status for

one semester before the Student Promotion Board recommends his dismissal; however, there may be extenuating circumstances where the faculty will exercise its right to drop a student without previous warning.

Grading in the School of Medicine

The judgment of an instructor of a student's work is based on personal association and observation, on oral, written, or practical examination, or on a combination of these methods.

Students in the School of Medicine are graded as follows:

- A Excellent
- B Good
- C Fair
- D Barely passing
- E Not passing

NOTE: Grade E denotes a record below passing, but one which may, when permission is granted, be raised to a passing grade without repetition of the course by passing a further examination or by performing other tasks required by the instructor. The term "incomplete" is not used in reporting the work of students. The instructor is required to assign, for every student, a definite grade based upon the work actually accomplished, irrespective of the circumstances which may have contributed to the results achieved.

Special Courses

Preclinical-Clinical Correlation Course.—Held on Saturday mornings from 10 A.M. to 12 M. during the latter part of the second semester, first year. The course is designed to correlate preclinical courses in Anatomy, Biochemistry and Physiology with clinical medicine. It is conducted by members of the preclinical and clinical departments of the School of Medicine. Dr. Leslie L. Bennett is in charge. No credit.

Hospital Problems and Community Relationships.—Mr. Richard J. Stull, Vice-President—Medical and Health Sciences, gives a series of three lectures to senior students on hospital problems and community relationships.

The talks cover hospital and medical staff organization, insurance problems, methods of financing hospital care, welfare agencies, crippled children agencies, poliomyelitis funds, legal responsibilities in the hospital, and methods of financing hospital and health facilities.

Summer Work

Department of Medicine.—A summer session in Clinical Medicine is given each year for a period of five or six weeks. Enrollment is limited to sixteen students who have completed the third year in the University of California School of Medicine or in another approved school. Students serve as clinical clerks in the Outpatient Medical Clinic and are assigned four new patients each week. Under faculty supervision students are expected and taught to assume every phase of the diagnostic and therapeutic management of their patients. In addition, there is a weekly schedule of activities including group conferences, ward rounds, practical sessions in prescription writing, student-sponsored C.P.C.'s and X-ray conferences.

Students from other medical schools must present evidence of satisfactory completion of the first three years of the medical curriculum and must be recommended by their Dean.

For further information, please consult the Department of Medicine, School of Medicine, University of California Medical Center, San Francisco 22.

Department of Neurology.—Two fellowships in Neurology paying up to \$600 are available for the summer months to medical students who have

satisfactorily completed their second or third year. Appointments are made by special arrangement through the Chairman of the Department. A third fellowship of \$500 may be made available in selected cases.

Department of Psychiatry (at the Langley Porter Clinic).—During the summer months, a limited number of students in the University of California School of Medicine, or from another approved school, may serve as clinical clerks in psychiatry at the Langley Porter Clinic.

In general, clinical clerks will be assigned special cases for study in therapy in the Outpatient Department and will work under supervision of a senior member of the staff. They will attend regular seminars, conferences and staff meetings and participate in the teaching conferences held for residents. There is also the possibility of securing special training in electroencephalography and neuropathology.

Students from other medical schools must present evidence of satisfactory aptitude and must be recommended by their Dean and their Professor of Psychiatry.

For further information, please consult the Department of Psychiatry, Langley Porter Clinic, Parnassus and First Avenues, San Francisco 22, California.

Department of Surgery.—During the summer months a limited number of students who have completed the third year in the University of California School of Medicine, or in another approved school, may serve as clinical clerks in the Surgical Clinic in the Outpatient Department and the Herbert C. Moffitt and San Francisco Hospitals.

This may include work in the Surgical Specialty Clinics. Students from other medical schools must present evidence of satisfactory completion of the first three years of the medical curriculum and must be recommended by their Deans.

For further information, please consult the Department of Surgery, School of Medicine, University of California Medical Center, San Francisco 22.

Department of Pharmacology and Experimental Therapeutics.—A limited number of medical or graduate students are welcome to participate in research during the summer vacation. Students may select or be assigned a problem, and provision will be made for appropriate studies. It is possible for a medical student in two summer vacations, by the successful prosecution of a research problem and the completion of an acceptable thesis, to acquire a master's degree of pharmacology. Students are cordially invited to visit the departmental laboratories where further information will be provided. Students may commence such a program at the end of their first year in Medicine.

Other Departments.—In addition to the above, opportunities for work during the summer vacation may be available to medical students in other Departments. For further information, please consult the Chairmen of the Departments concerned, or the Dean's Office.

Summer Fellowships

There are several summer fellowships available for students in the School of Medicine. These give a student an opportunity to carry out a research project during the summer. The amount of each fellowship varies as do the exact periods of time devoted to the work although in most cases the fellowship occupies about two months of the student's time during the summer. Fellowships at present are available from the following sources:

National Foundation for Infantile Paralysis
Tobacco Industry Research Foundation
Lederle Laboratories
United States Public Health Service
Cardiovascular Research Institute

THE DEGREE OF DOCTOR OF MEDICINE

General Requirements

The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years. He must give satisfactory evidence of possessing a good moral character. He must have studied medicine as a matriculated student for eight semesters of sixteen weeks each, the last four of which must have been in the University of California School of Medicine. He must have completed the required work, have fulfilled satisfactorily all special requirements, and have received a passing grade, including the satisfactory removal of all conditions, throughout the entire medical course. He must have discharged all indebtedness to the School of Medicine.

It is the aim of the School of Medicine through its administration and its faculty, to develop good physicians. The curriculum is the implement of this aim.

The curriculum should provide the student with the means by which he may prepare for a demanding profession—a profession in which he will find himself responsible for the care of patients, for the prevention of illness, and for teaching, research, and other endeavors in the field of medicine. But this is not enough. The modern physician must have more than technical knowledge. He should be able to understand and to appraise the patient as a whole, not only as a "case" or an instance of a disease but also as a person and a member of society. In addition, he must become an investigator for life, equipped to separate fact from theory, to distinguish realism from wishful thinking, and to evaluate new methods and new trends in the ever-changing field of medicine. The curriculum should enlarge the student's vision and lead him to the attainment of these qualities.

Each graduate of the School of Medicine is a representative of his University. By his conduct in his community and by the impression he creates among his colleagues, patients, and nonprofessional associates, he is an asset or liability to the institution in which he was trained. These impressions, for better or worse, reflect directly upon the parent institution, and particularly upon its administration, faculty, and curriculum.

The organization of the curriculum of the School of Medicine has been planned to produce physicians of the highest caliber.

Plan of Instruction

In general, the four-year curriculum leading to the degree of Doctor of Medicine is divided into two periods: preclinical study and clinical instruction.

The work of the first year includes anatomy, histology, physiology, and biochemistry. These subjects—with pathology, microbiology and immunology, preventive medicine and hygiene, and pharmacology, which are given in the second year—provide the basis for the study of clinical medicine.

The second semester of the second year includes courses in physical diagnosis, laboratory diagnosis, elementary surgery, and an introductory course in obstetrics.

Instruction in the third and fourth years includes practical work, supplemented by lectures, conferences, amphitheater clinics, and clinicopathological conferences. Students rotate through the different clinical fields, spending a part of the year in each. Practical work is given in the dispensary, at the bedside, and in the clinical laboratory.

The tabulation below shows the arrangement of studies and the total number of units and hours required in each subject.

***Arrangement of Required Studies**

NUMBER OF UNITS AND HOURS REQUIRED IN EACH SUBJECT
FALL AND SPRING SEMESTERS, 1956-1957

<i>First Year</i>	Fall Units	Semester Hours	Spring Units	Semester Hours	Total Hours
Anatomy 101	6	192			
Anatomy 105	5	80			
Anatomy 105x	6	288			
Biochemistry 101			8	256	
Physiology 101			8	224	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	17	560	16	480	1,040
 <i>Second Year</i>					
	Fall Units	Semester Hours	Spring Units	Semester Hours	Total Hours
Medicine 101			5	144	
Medicine 102			2	96	
Medicine 104			2	32	
Medicine 118	1	48			
Microbiology 101	6	160			
Neurological Surgery and Neurology 103			1	16	
Obstetrics—Gynecology 106			2	32	
Pathology 101	8	256			
Pharmacology 101			4	144	
Preventive Medicine 101	2	80			
Preventive Medicine 102	2	32			
Psychiatry 102A-102B	1	16	1	16	
†Radiology 101			($\frac{1}{2}$)	8	
Surgery 101			2	48	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	20	592	19 $\frac{1}{2}$	536	1,128
 <i>Third Year</i>					
	Fall Units	Semester Hours	Spring Units	Semester Hours	Total Hours
Anesthesia 101			1	16	
†Medicine 103			$\frac{1}{2}$	8	
Medicine 105A-105B	3	144	2	118	
†Medicine 106A-106B	$\frac{1}{2}$	8	$\frac{1}{2}$	8	
Medicine 107A-107B	2 $\frac{1}{2}$	40	2 $\frac{1}{2}$	40	
Neurology 104A-104B	1	16	1	16	
Obstetrics 102A-102B	2	32	2	32	
Obstetrics-Gynecology 107	$\frac{1}{2}$	20	$\frac{1}{2}$	20	
†Pathology 102A-102B	$\frac{1}{2}$	16	$\frac{1}{2}$	16	

(Continued on next page)

* For complete description of each course, see pages 72-144.

† In lecture courses having a unit value of less than one unit, students are indicated as having passed or not passed rather than being graded in the usual manner. No grade points are given.

Arrangement of Required Studies—Continued

NUMBER OF UNITS AND HOURS REQUIRED IN EACH SUBJECT
FALL AND SPRING SEMESTERS, 1956-1957—Continued

<i>Third Year—Continued</i>					
	Fall Units	Semester Hours	Spring Units	Semester Hours	Total Hours
Pathology 107A-107B	1	16	1	16	
Pediatrics 102			1½	50	
Pediatrics 103A-103B	1	16	1	16	
Pharmacology 103	1	16			
Preventive Medicine 103			1	16	
Psychiatry 103			2	32	
Surgery 102A-102B	3	48	2½	40	
Surgery 103A-103B	2½	124	2½	148	
	<hr/> 18½	<hr/> 496	<hr/> 21½	<hr/> 592	<hr/> 1,088
<i>Fourth Year</i>					
	Fall Units	Semester Hours	Spring Units	Semester Hours	Total Hours
*Dermatology 102A-102B	½	16	½	16	
*Gynecology 104	½	16			
Legal Medicine 101			1	16	
Medicine 111	3	90	3	90	
*Medicine 109			½	8	
*Medicine 113			1	16	
Medicine 116	1	16			
*Medicine 117			½	8	
Neurology 105	½	27	½	27	
Obstetrics-Gynecology 103	2	72	2	72	
Obstetrics-Gynecology 108	1	32			
*Ophthalmology 101			½	8	
Orthopaedic Surgery 101	1	16			
*Otorhinolaryngology 101			½	8	
*Pathology 104A-104B	½	16	½	16	
Pediatrics 104	2	72	2	72	
*Pediatrics 105A-105B	½	16	½	16	
Pharmacology 104	1	16			
Preventive Medicine 104			1	16	
Psychiatry 104	½	27	½	27	
Radiology 102 .....	†	..	..	..
Surgery 105	3	97	3	97	
Surgery 106	1	20	1	20	
*Surgery 108A-108B	½	16	½	16	
	<hr/> 18½	<hr/> 565	<hr/> 19	<hr/> 549	<hr/> 1,114
Total hours for four years.....					4,370

SPECIAL STUDENTS

With the approval of the Dean and of the instructors concerned, a regularly matriculated student may be permitted to take a special or partial program. *When space is available*, permission may be given to students coming under classifications (a) to (e).

* In lecture courses having a unit value of less than one unit, students are indicated as having passed or not passed rather than being graded in the usual manner. No grade points are given. Emergency Medicine (see page 76) is not included in the above tabulation.

† Units and hours included in Surgery 105.

(a) Students who are required to repeat one or more subjects but whose record in other subjects is of passing grade. Such cases must be approved by the Committee on Student Promotion and students must necessarily drop one year behind the class with which they entered the School of Medicine.

(b) Students who have transferred from other medical schools and who need only part of the work in any given year in order to enter the next year.

(c) Upon the recommendation of the dean of the medical school concerned, students, with satisfactory records, who desire to complete one or more subjects and to return to their own schools may be permitted to enroll in such subjects.

Arrangements will be made for special students to pay only a proportionate amount of the tuition fee, but they will be charged the full incidental fee. (See page 60.)

None of the above is to be construed as providing means for a student who has failed in one or more subjects in another medical school to repeat such subjects in the University of California School of Medicine.

INSTRUCTION FOR DOCTORS OF MEDICINE

Several types of postgraduate instruction are offered:

University Extension (Medical Extension) in cooperation with the School of Medicine and other academic groups, has developed an extensive program of (1) "refresher" courses aimed at a reorientation in the light of the best knowledge available about the subject; (2) "new advances" courses concentrated on new development in the field with emphasis upon an evaluation of the new advances rather than review, and (3) "specialist" courses which include comprehensive reviews of recent literature, reports on developments being evaluated clinically but not yet in general use, and new services available at the major medical centers. Series of postgraduate activities, mostly evening lectures, are arranged and presented at various hospitals in the Bay Area and in some of the neighboring counties for local physicians. For further information please communicate with Seymour M. Farber, M.D., Head of the Medical Extension, 727 Parnassus Avenue, University of California Medical Center, San Francisco 22, California.

Clinical Affiliates. With the approval of the Dean and of the Chairman of the Department concerned (which will be given only when the department has the facilities), a physician may be appointed as a "Clinical Affiliate," this being a visitor, or auditor, who simply observes the work being done, but who has no responsibility for the care of patients. He is permitted to participate in certain departmental activities, including rounds and conferences. No salary or perquisites are allowed, and he must provide for his own living expenses. He is charged no fee, receives no certificate, and cannot count the work toward a degree.

Graduates of foreign medical schools may, under certain conditions, be appointed as "clinical affiliates." Such opportunities are limited to those who are to return to their own countries to participate in medical education, research, and related programs.

Special Resident Fellows. With the approval of the dean and of the chairman of the department concerned, a physician may register as a *special resident fellow*. While most of the special resident fellows are veterans of World War II, places are open to nonveterans as well. A special resident fellow does work similar to that of a member of the resident staff of the Herbert C. Moffitt-University of California Hospitals, but receives no salary or other compensation. He is charged an incidental fee of \$35 and a tuition fee of \$60 per term (there being three terms in each academic year for special resident fellows).

Resident staff appointments. The School of Medicine has a number of intern and resident staff positions at the Herbert C. Moffitt-University of

California Hospitals and at the San Francisco Hospital, University of California Service. Under each department (see pages 72-144), there appears a more detailed statement.

Professional Postdoctoral Courses. Members of the resident staff are required to register for certain professional postdoctoral courses. A complete description of each course appears under the department concerned.

Internships. At the Herbert C. Moffitt-University of California Hospitals there are straight, rotating, and mixed internships. Internships at the San Francisco Hospital are rotating. Appointments at the Herbert C. Moffitt-University of California and San Francisco Hospitals are available for University of California medical students and those in other medical schools approved by the American Medical Association and the Association of American Medical Colleges. Some of the departments in the School of Medicine prefer to appoint an individual who has already completed a rotating internship to a straight internship at the Herbert C. Moffitt-University of California Hospitals.

Residencies and assistant residencies. Candidates for the assistant residencies must be graduates of approved medical schools who have completed at least one year of internship. For specific requirements in the various departments, refer to the statements mentioned above. Residents and assistant residents are required by law to be licensed to practice medicine in the State of California, although an unlicensed individual may serve for a limited period, between the beginning of his appointment and the granting of his license, by registering with the Board of Medical Examiners.

The appointments at the San Francisco Hospital are subject to the approval of the Director of Public Health.

Members of the resident staff, including interns, at the San Francisco Hospital are employees of the City and County of San Francisco, and, as such, must be American citizens.

For further information, please communicate with Dean's Office, School of Medicine, University of California Medical Center, San Francisco 22.

LICENSURE

Business and Professions Code of the State of California. The entrance requirements and the curriculum of the University of California School of Medicine meet the provisions of the Business and Professions Code of the State.

For further information, please communicate with the Secretary, Board of Medical Examiners, 1020 N Street, Sacramento 14.

National Board of Medical Examiners. The National Board of Medical Examiners was organized primarily for the purpose of establishing a qualifying examination of such a character that successful candidates might be admitted to the practice of medicine by various state boards of medical licensure without further examination.

Information may be obtained from the National Board of Medical Examiners, 225 South Fifteenth Street, Philadelphia 2, Pennsylvania.

ACADEMIC HIGHER DEGREES

Students who show unusual promise in research may become candidates for academic higher degrees. Those whose fields of study are within the departments of the School of Medicine fall into two groups: candidates who already are Doctors of Medicine, and candidates who have received the bachelor's degree and desire to take the master's degree or the degree of Doctor of Philosophy in subjects closely allied to medicine.

A candidate of the first group has, while obtaining his M.D. degree, fulfilled all preliminary requirements for graduate study except those in certain basic subjects and in languages. In preparing for the degree, he takes addi-

tional undergraduate and graduate work in the fundamental and the pre-clinical sciences.

Prerequisites for candidacy in the second group include the subjects given in the first preclinical year of medicine, and pathology, bacteriology, and pharmacology; and the requirements necessary for graduate study in any one of the biological sciences. The candidate also is expected to have a knowledge of certain subjects, particularly anatomy, biochemistry, and physiology, which he is presumed to have taken in his last year of work for the bachelor's degree.

Fields of study. Candidates for academic higher degrees may be proposed by any fundamental or clinical medical department. The designation of the field of study is determined in accordance with the aspect of research which will fall, normally, under one of the following fundamental fields: anatomy, bacteriology, biochemistry, pathology, pharmacology, or physiology.

Supervision of candidates. The department in which the candidate conducts the investigations for his thesis or dissertation prepares the program for his study and research, subject to the approval of the Administrative Committee of the Graduate Council. Each candidacy for a higher degree is administered according to the general rules. The clinical instructor is chairman of the committee in charge of the candidacy. This committee, which includes at least one member from the departments of the fundamental subjects basic or related to the research, advises the candidate and reports to the Graduate Council on all matters concerning his candidacy.

Master's degree. The requirements for the master's degree, which are listed in the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION, may be fulfilled in regular sessions. The usual graduate study-list limits apply to medical students who are candidates for the master's degree. Since it is difficult to carry professional work for the M.D. degree and at the same time to do work for an academic higher degree, students who wish an academic higher degree must be prepared to give special time to that work. Any student contemplating such a program while he is taking a regular medical course should first obtain the permission of the Dean of the School of Medicine to do so, and if that is secured, he must then have the approval of the department concerned and of the Dean of the Graduate Division.

In the event that a student follows such a program, he must register each semester at Berkeley as well as in the School of Medicine, and must file a duplicate approved study list with the Registrar. This study list should contain, properly segregated, the semester's work in the regular medical curriculum and that offered in partial fulfillment of the requirement for the master's degree.

Degree of Doctor of Philosophy. At least two years of graduate study and research in addition to the medical curriculum are necessary to complete the requirements for the doctor's degree.

Those students interested should obtain full information about regulations and procedure by consulting the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION, and preferably, by a personal conference with the Dean of the Graduate Division.

FEES AND OTHER EXPENSES

School of Medicine Fees

School of Medicine fees for first-year students must be paid to the Cashier, Business Office, Administration Building, Berkeley, at the time of registration each semester.

School of Medicine fees for all other students must be paid to the Business Office representative at the University of California Medical Center in San Francisco at the time of registration each semester. Payment by check, draft, or money order must be for the exact amount of the fees, and should be made

payable to The Regents of the University of California. Fees are determined by the Regents of the University, and are as follows:

	<i>First Semester</i>		<i>Second Semester</i>	
	Residents of California	Nonresidents of California	Residents of California	Nonresidents of California
Medical Tuition	\$125.00	\$250.00	Same as first	
Incidental Fee	42.00	42.00	semester	
	\$167.00	\$292.00		

Aliens who have not made valid declarations of intention to become citizens are classified as nonresidents of California.

Fees for the ensuing semester must be paid before the student is permitted to register. One who fails to pay fees on the date fixed for their payment each semester must give up all privileges as a student until his financial relations with the University have been arranged satisfactorily with the Dean of the School of Medicine. The student who does not comply with this rule may be dismissed. Furthermore, before he may be awarded his M.D. degree, the student must have discharged all indebtedness to the School.

A student registered in the School of Medicine who takes less than the required amount of work in any semester pays only a proportional amount of the tuition fee but is charged the full incidental fee.

If a student is granted an honorable dismissal before the end of any semester, he will be given a refund on part of his fees. In such cases, he must present his fee receipt.

Special Fees

Application fee. The application fee of \$5 is charged to every student who applies for admission to any college of the University, including the School of Medicine, either in undergraduate or graduate status.* This fee is not refundable, and the student pays it once for admission to undergraduate work and once for admission to graduate work. Each student in the School of Medicine who enters the School in undergraduate status, but who receives a Bachelor's degree during or at the end of his freshman year, assumes graduate status in the University. Therefore, such a student, at the time of registration as a sophomore in the School of Medicine, is assessed the \$5 application fee.

Other charges which may be assessed are as follows:

Transcripts of record.....	}	Issued by Recorder; fee assessed	
		upon request for transcript.	
Returned check collection	\$	1	
†Condition examination		2-3	
Late payment of fees		2	
Late registration		2	
Duplicate registration card		1	
Late filing of study card		2	
Duplicate diploma		5	
Candidacy for the Ph.D. degree		10	
Deposit, students accepted in the first year, School of Medicine (see page 45)		50	

* Veterans who expect to enroll under the provisions of Public Law 550 (Korean G.I. Bill of Rights), or Public Law 16 are not required to remit this fee with their applications, but should enclose a photostatic copy of their separation papers.

† Any examination, term paper, or other exercise which the instructor may require for the removal of the grade "E" in a course is a "condition examination." A charge of \$2 will be made for a condition examination in one course, and \$3 for two or more courses.

Fees for Training Courses for Technicians

	<i>First Semester</i>		<i>Second Semester</i>		<i>Third Semester</i>	
	Residents of Calif.	Non- residents of Calif.	Residents of Calif.	Non- residents of Calif.	Residents of Calif.	Non- residents of Calif.
Medical Technicians						
Incidental Fee	\$ 42.00	\$ 42.00	Same as first semester		Same as first semester	
Orthoptic Technicians						
Incidental Fee	\$ 42.00	\$ 42.00	\$42.00	\$42.00		
Tuition Fee	200.00†	200.00				
	<u>\$242.00</u>	<u>\$242.00</u>	<u>\$42.00</u>	<u>\$42.00</u>		
Physical Therapy Technicians						
Incidental Fee	\$ 42.00	\$ 42.00	Same as first semester		None	
Tuition Fee	75.00	150.00				
	<u>\$117.00</u>	<u>\$192.00</u>				
X-ray Technicians						
Incidental Fee	\$ 42.00	\$ 42.00	Same as first semester		Same as first semester	
Cytology Technicians						
Incidental Fee	\$ 42.00	\$ 42.00				
*Medical Illustrators						
			<i>First Semester</i>	<i>Second Semester</i>	<i>Summer</i>	
Incidental Fee			\$ 42.00	\$ 42.00	\$ 42.00	
Tuition Fee			100.00	100.00	100.00	
			<u>\$142.00</u>	<u>\$142.00</u>	<u>\$142.00</u>	

Fees for Academic Students

Clinical courses in the second year and all of the courses in the third and fourth years are open only to regularly registered medical students. An academic student may be permitted to register for the nonclinical second-year courses provided the course or courses which he wishes to take are specifically required as a part of his program in the Graduate Division of the University. Under such circumstances the fees per semester are as follows:

	<i>Residents of California</i>	<i>Nonresidents of California</i>
Incidental Fee	\$42.00	\$42.00
Tuition Fee	‡	†\$150.00

Academic students are entitled to Student Health privileges at the Medical Center, and to library privileges in both San Francisco and Berkeley. (As an exception to this, students registered in the Curriculum in Physical Therapy are not entitled to such privileges during the third semester or clinical practice period.)

The charges listed above, under "Special Fees," apply to academic as well as to medical students.

* Fees subject to approval.
 † Nonresident graduate students, in academic status, are required to pay the tuition fee of \$150 per semester regardless of the number of units registered.
 ‡ The \$200 tuition fee covers a course of eight months and is payable only once.
 § California resident graduate students, in academic status, taking work at the Medical Center, are not required to pay tuition fees in the professional schools.

Special Resident Fellows

Special Resident Fellows (see page 57) are charged an incidental fee of \$42 per term, and a tuition fee of \$60 per term. For this group, there are three terms in each year.

Other Expenses

The student is required to supply his own equipment. At the beginning of each semester, he should be prepared, in addition to paying his fees, to purchase his textbooks, syllabi, and instruments. The possession of a microscope is essential upon beginning work in the School of Medicine, but it is possible to rent a microscope from the University.

Each student must purchase a stethoscope and a sphygmomanometer for use in Physiology 101, second semester, first year, and a blood-counting apparatus and an ophthalmoscope for the practical work which starts in the second semester, second year. He must also own the necessary slides and coverslips.

Fourth-year students are required to wear white coats in the wards and Outpatient Department of the University Hospital. Each student must have at least three coats. These are laundered without charge.

Room and board may be obtained in Berkeley and near the School of Medicine in San Francisco at various prices. The Dean of Students' Office at the Medical Center has a list of various accommodations, including rooming and lodging houses.

UNDERGRADUATE LOAN FUNDS

There are a number of loan funds which are available for undergraduate students in the School of Medicine. These are listed below. It is suggested that any student who is in need of financial assistance consult the Dean's Office of the School of Medicine.

Special restrictions, if any, are indicated. Otherwise, loans may be made to any undergraduate student in the School.

The Adler Fund in Memory of Esther, Aaron, and Dr. Howard Felix Adler, established by Mr. and Mrs. Felix Kahn.

The purpose of this fund is to aid any worthy medical student or students, regardless of race, color, or creed, who may be in need of financial assistance. Such aid to a student or students is left flexible and at the discretion of the committee. High scholarship is not necessarily a prerequisite for aid. The committee which acts upon grants from this fund is composed of the Dean of the School of Medicine, the President of the student body of the School of Medicine, and the Controller of the University or his nominee.

The donors have expressed their desire that those who receive assistance shall be encouraged to return the amounts received, without interest, when they are able to make repayment.

Dr. Sanford Blum Memorial Loan Fund.

Dr. LeRoy H. Briggs Loan Fund.

Edith Brownsill Loan Fund.

For third- and fourth-year medical students in accordance with the recommendation of a special committee, composed of Dr. W. F. Hoyt and the Dean of the School of Medicine, and approved by the President of the University.

Dr. C. Latimer Callander Loan Fund.

See "Graduate Loan Funds."

Alfred Henry Heald Memorial Loan Fund.

Constantine Hering Loan Fund.

For students who have elected courses in homeopathy.

Wm. Watt Kerr Memorial Loan Fund.

Eugene S. Kilgore Memorial Loan Fund.

Rosa Lisser Loan Fund.

For students in any year registered from San Francisco or Berkeley, but preferably San Francisco.

School of Medicine Loan Fund (Senior).

The Frank Schwabacher Loan Fund for Medical Students.

See "Graduate Loan Funds."

Dr. Julius Sherman Loan Fund.

Ethel G. Walter Loan Fund.

Woman's Auxiliary of the Alameda County Medical Association Loan Fund.

For junior and senior medical students, preferably, but not necessarily, residents of Alameda County.

Woman's Auxiliary of the San Francisco County Medical Society Loan Fund.

For senior students, interns or residents.

Woman's Auxiliary of the San Mateo County Medical Society Loan Fund.

Isadore Zellerbach Loan Fund.

For students in third and fourth year.

GRADUATE LOAN FUNDS

Dr. Sanford Blum Memorial Loan Fund.

For interns or residents as well as undergraduate students in the School of Medicine at San Francisco.

Dr. C. Latimer Callander Loan Fund.

Given in memory of Dr. C. Latimer Callander, late Associate Clinical Professor of Surgery. For members of the resident staff, with the stipulation that loans must be repaid as follows: 20 per cent by the end of the first year; 30 per cent by the end of the second year; 50 per cent by the end of the third year. May also be available for third- and fourth-year students in the School of Medicine and to interns and persons in resident training at the University of California Service, San Francisco Hospital.

School of Medicine Loan Fund.

For interns or assistant residents at the University of California Hospital who are in need.

Henry Schussler Memorial Loan Fund.

Funds are available from this fund to enable graduates of the School of Medicine to take graduate instruction in the eastern part of the United States or abroad.

Mrs. Albert E. Schwabacher Graduate Loan Fund.

For loans without interest to graduates serving as members of the resident staff in the Division of Obstetrics and Gynecology of the University of California School of Medicine, subject to the approval of the Professor of Obstetrics and Gynecology.

The Frank Schwabacher Loan Fund for Medical Students.

For graduate medical students at San Francisco (within four years after graduation) or undergraduate medical students in need of loans in order to continue their medical studies or to pay maintenance and travel expenses in connection with laboratory or clinical research, giving preference to graduate medical students if there are any in need of such loans.

The Dr. Sophus Nicolai Jorgensen Graduate Medical Loan Fund.

To help graduates of the University of California School of Medicine establish themselves in practice. Available to any clinician who has obtained his M.D. degree from the University of California School of Medicine at San Francisco and who has served his internship or residency in one of the hospitals at the Medical Center or in an associated hospital (for example,

the San Francisco Hospital). Application for a loan may be made any time within a two-year period following completion of the training program. Loans not to exceed \$2,000 may be obtained and are to be repaid within a period of three years.

Neurological Surgery Loan Fund.

For loans without interest to graduates serving as members of the intern, assistant resident or resident staff of the Department of Neurological Surgery of the University of California School of Medicine at San Francisco, subject to the approval of the Professor of Neurological Surgery.

The James P. Tolman Loan Fund allocated to Berkeley and San Francisco campuses reserved especially for graduate students, especially medical students and graduate students in engineering.

Herbert F. Traut Loan Fund.

For loans without interest to graduates serving as members of the intern, assistant resident or resident staff in the Division of Obstetrics and Gynecology of the University of California School of Medicine, subject to the approval of the Professor of Obstetrics and Gynecology.

Woman's Auxiliary of the San Francisco County Medical Society Loan Fund.

For senior students, interns or residents.

Alfred B. Layton Loan Fund.

Available to interns, assistant residents, or residents in General Surgery in the Department of Surgery of the School of Medicine. Loans to be made only on the written request of Dr. Leon Goldman with the approval of the Dean of the School of Medicine. A promissory note is required of the borrower. Loan may be given to applicant without interest and without designating a term date.



For further information, consult the Dean's Office of the School of Medicine.

MEDICAL CENTER LOAN FUNDS

The following loan funds are available for any student at the University of California Medical Center: Junior Membership of the California Federation of Women's Clubs, Loan Fund number 2, which is designated as a scholarship loan fund not to exceed \$100 restricted to women students; and Marie Weldt Hollingsworth California Alumni Association Loan Fund Memorial; Jugoslav Student Loan Fund. Open to students of Jugoslav parentage, the term being extended to include South Slavic peoples and not merely those limited to the country known as Jugoslavia; Martin A. Meyer Loan Fund for Jewish students; Loan Fund Pool Reserve, San Francisco campus; and the James P. Tolman Loan Fund for graduate students.

STUDENT AID FUNDS

Dean's Emergency Fund for Student Welfare.

This fund was established by the University of California Doctors' Wives Association and is available at the discretion of the Dean. For use either as a loan fund or as a grant, depending upon the circumstances in each case. May also be available for members of the resident staff.

The School of Medicine Welfare Fund.

This is a small fund established by a friend of the School of Medicine which may be used at the discretion of the Dean to assist members of the resident staff and other junior staff members in training, in case of acute financial difficulties, particularly those associated with illness.

Ella May Cooper Bonsall Memorial Fund. The fund may be given, at the rate of \$1,000 per annum, to a deserving student or a member of the research staff

of the University of California Hospital, who is worthy of assistance and who otherwise finds it financially difficult to continue his or her studies.

The Olsen Mikal Haviside Student Aid Fund is available to defray the expenses of students in the School of Medicine who would otherwise be unable to continue or to pursue their studies.

The Merrill Fund is available for use of students on all campuses of the University, at the discretion of the President of the University and, with his authorization, for loans or gifts to a student whose need is great but who cannot, for one reason or another, meet the strict terms governing distribution of ordinary loans or scholarships.

The Henry J. Kaiser Family Foundation Medical Education Fund. A gift of \$25,000 from this fund will be used between 1953 and 1958 to aid worthy and deserving medical students who are in need of financial assistance.

The San Francisco Foundation has, occasionally, given the amount of \$1,000 "to help toward the education of a worthy and capable medical student."

SCHOLARSHIPS

The following scholarships are open to students in the School of Medicine:

The Base Hospital No. 30 Scholarship, of about \$300 a year. The amount of this scholarship is the income on the balance of a fund collected for the University of California School of Medicine Hospital Unit No. 30.

The Alice Bush Scholarship in Homeopathy, amounting to about \$150 each time it is awarded. This scholarship is open to students, preferably women, who wish to pursue study in homeopathy. It is awarded every second year, alternating with the Dr. Mary J. Watson Scholarship, described below.

The Governor Pardee Scholarship in Medicine, of about \$350 a year.

The George Frederick Reinhardt Memorial—Class of 1915 Scholarship, yielding about \$450. Preference is given to a candidate who is the son or daughter of a member of the Class of 1915 of the University of California.

The Sally McKee Spens-Black Fellowship in Medicine, yielding about \$400 a year. This is open to needy and deserving students in the School of Medicine.

The Dr. Mary J. Watson Scholarship, of about \$90 each time it is awarded. This scholarship is open to students who have elected homeopathy. It is awarded every second year, alternating with the Alice Bush Scholarship in Homeopathy. While this scholarship is intended primarily for a student registering from Sacramento, others may apply.

The Ernestine Doychert Scholarship in Medicine, yielding about \$175 a year. This scholarship is open to needy women students in the School of Medicine.

The Florence Hellman Ehrman Scholarships in Medicine, two yielding about \$600 a year each. These scholarships are open to students in the School of Medicine.

The Sheffield Sanborn Scholarship in Medicine, yielding about \$350 a year. This scholarship is open to students in the School of Medicine.

The Allen D. Wilson Memorial Scholarship, of about \$300 a year. This scholarship is open to students in the School of Medicine who profess a belief in God and are of good moral character.

The San Bruno Community House Scholarship, yielding about \$800 a year, is open to competition among medical students of Jewish faith.

The Charles Robert Nelson Fellowships in Medicine, several, yielding about \$600 a year each. These fellowships are open to students in the School of Medicine.

The Earl Hamilton Cornell Scholarships, two yielding about \$450 a year each. Open to needy students in the School of Medicine who have completed at least one year of their medical studies.

The Russell Severance Springer Scholarships, several yielding about \$325 a year each.

The August Jerome Lartigau Memorial Scholarships in Medicine, open to needy students in the School of Medicine who have demonstrated high scholastic ability. Two, yielding \$1,000 each; five, yielding \$600 each.



In addition there are certain other fellowships and graduate scholarships which may be open to students in the professional curricula. These are: *The May J. McLean Fellowship*, yielding about \$1,100; *The Newhouse Foundation Scholarships*, several yielding about \$500 each (applicants must supply a statement of financial need and a statement that they have never been members of a social fraternity or sorority); *The Mabel Wilson Richards Scholarships*, open to needy women graduate students who have been residents of the Los Angeles area for at least two years prior to the date of applying for the scholarship, three, yielding \$1,000 each; *The Werner R. Scott Scholarship*, open to graduate or undergraduate Caucasian students residing in the Territory of Hawaii, yielding about \$700; *The Joe Shoong Fellowship*, open to American born students of Chinese descent, yielding about \$1,200 a year; *The Louis and Sarah Sloss Scholarship*, yielding about \$1,000 a year; *The Dr. E. E. Dowdle Research Fellowships*, yielding about \$4,000 a year each, are open to postdoctoral applicants engaged in research on tuberculosis or insanity, who will be attached to the School of Medicine or the School of Public Health. Further details will be found in the circular, FELLOWSHIPS AND GRADUATE SCHOLARSHIPS, and in the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

Applications for scholarships should be submitted before February 7 to the Dean of the Graduate Division, University of California, Berkeley 4. Scholarships are awarded only to students who are enrolled in the School at the time.

In addition, there are several scholarships of the *La Verne Noyes Foundation* available for students at the Medical Center. Students who are blood descendants of veterans of World War I are eligible to apply.

Applicants for admission to the first-year class, who do not hold the bachelor's degree, may apply for undergraduate scholarships. Information about these may be obtained from the Committee on Undergraduate Scholarships, University of California, Berkeley 4.

PRIZES

Gold-Headed Cane

The Gold-Headed Cane is awarded to the senior student, who, by vote of his classmates and the faculty members of the Department of Medicine, has demonstrated the most outstanding qualities of a true physician in his conduct and interest in the care of his patients during the clinical years. Two honorable mention certificates are also awarded.

Borden Undergraduate Award in Medicine

Established by the Borden Company Foundation, New York. A prize of \$500 for the best essay in the judgment of the Research Committee of the School of Medicine written by a member of the graduating class in medicine on an original research problem. For further details, and for rules covering this contest, eligible students should consult the Dean's Office.

Other Awards

Students in the School have the opportunity to compete with students from other medical schools for the awards of the William S. Merrell Company of Cincinnati, Ohio, and of the Shering Corporation of Bloomfield, New Jersey. Awards are made to students for unusual research ability. Further information in the Dean's Office.

The Department of Health, Education, and Welfare granted four U. S. Public Health Service Medical Student Research Fellowships to the University of California School of Medicine in 1955. These fellowships are designed to give the student, early in his medical school experience, an opportunity to explore the research field.

Several fellowships are made available annually by the Cardiovascular Board, to encourage students to enter this area of medicine and research.

TRAINING COURSES FOR TECHNICIANS

Training courses for technicians in exfoliative cytology, medical illustration, medical technology, orthoptics, physical therapy, and X-ray technique are offered at the University of California Medical Center, San Francisco.

EXFOLIATIVE CYTOLOGY

Training course offered by the School of Medicine for medical laboratory technicians in the technical methods of exfoliative cytology:

Admission. A degree of Bachelor of Arts or Bachelor of Science in medical sciences and a certificate in medical laboratory technique or the equivalent of these qualifications.

Curriculum. Students complete course 401, Techniques of Exfoliative Cytology.

401. Exfoliative Cytology. Wood, Moon, Frost, and Staff

This course is designed primarily for the training of medical laboratory technicians in the technical methods of exfoliative cytology including collection, preparation, staining and screening of specimens from the genito-urinary, respiratory and gastro-intestinal tracts for detection of abnormal or malignant cells.

I and II, M Tu W Th F 9-12, 1-4. (480 hours—12 units)

Certificate. A certificate for completion for the curriculum will be given.

Fees. Fees are as follows:

	<i>First or Second Semester</i>
Fees	\$42.00

For further information, write to the Medical Director, Curriculum in Exfoliative Cytology, University of California School of Medicine, San Francisco 22, California.

MEDICAL ILLUSTRATION

The School of Medicine offers a training program to students preparing to be medical illustrators.

Admission. Applicants for admission must meet the following conditions: In addition to meeting the general University admission requirements to freshmen status, the applicant must have had two years of art training satisfactory to the faculty of the department and be able to demonstrate his ability in the field of art.

When possible, a personal interview is prerequisite to acceptance in the course. Due to space limitations, enrollment is limited and is subject to review

by the faculty of the department. By arrangement, qualified students may enroll in certain courses offered.

Curriculum. The course is given as professional training and extends over two forty-eight week periods of full-time work, and covers the following subjects: pencil sketching of bones; principles of halftone and pen and ink drawings; anatomy lecture and dissection; lettering of charts and graphs; sketching at surgery, autopsy, and of specimens; water-color drawing; microscopic technique for drawing of colored slides; exhibit and display work; training in the eye clinic for slit-lamp and eye-ground drawings; medical photography; principles and materials and plastic embedding of specimens.

Certificate. Subject to the approval of the faculty, a certificate is given upon completion of the course.

Fees.

	<i>First Semester</i>	<i>Second Semester</i>	<i>Summer</i>
Incidental Fee	\$ 42.00	\$ 42.00	\$ 42.00
Tuition Fee	100.00	100.00	100.00
	\$142.00	\$142.00	\$142.00

For further information and detailed announcement of courses, write to the Supervisor, Curriculum in Medical Illustration, University of California School of Medicine, San Francisco 22, California.

MEDICAL TECHNOLOGY

The School of Medicine offers a training program to students preparing to be medical technicians.

Admission. Applicants for admission must satisfy one of the following requirements:

1. Bachelor's degree.

Applicants for admission on this basis must hold a bachelor's degree with a major in one of the biological sciences. Courses taken in preparation for the major must have included Bacteriology 101, Biochemistry 102 or 100A-100B and 102L or 101A-101B, or their equivalent.

2. Three years of college training.

Applicants for admission on this basis must have completed three years of a regulation curriculum in medical or clinical laboratory technic. This curriculum must have included courses in biochemistry and advanced bacteriology. Applicants will not be considered unless the college they attended shall grant a bachelor's degree to them upon satisfactory completion of the four-year curriculum.

Curriculum. The course is given as a practical apprenticeship. It consists of one year (48 weeks) of full-time work, and covers training in biochemistry, medical bacteriology, parasitology, mycology, histological technic, clinical pathology, serology, blood bank procedures, basal metabolism, and electrocardiography. Upon satisfactory completion of the course, the student is eligible for the State Examination and the National Registry Examination.

Certificate. A certificate of completion of the curriculum is given upon satisfactory fulfillment of the course.

Fees. Fees are as follows:

	<i>First Semester</i>		<i>Second and Third Semesters</i>	
	Residents of California	Nonresidents of California	Residents of California	Nonresidents of California
Incidental Fee	\$42.00	\$42.00	Same as first semester	

For further information and detailed announcement of courses, write to the Supervisor, Curriculum in Medical Technology, University of California School of Medicine, San Francisco 22, California.

ORTHOPTIC TECHNOLOGY

A course of eight months for students preparing to be orthoptic technicians is given at the School of Medicine.

Admission. Minimum prerequisite is a bachelor's degree or its equivalent. Candidates with previous teaching experience are preferred, but this experience is not essential. A personal interview with the Supervisor of the Florence C. Noble Orthoptic Clinic of the Department of Ophthalmology will precede acceptance.

400A-400B. Orthoptic Technology.

Campion and Staff

Clinical Practice in Florence C. Noble Orthoptic Clinic. Practical training, devised to qualify students for examination of American Orthoptic Council. Lectures, seminars, conferences, to supplement clinical practice. I, II or S. T.

M Tu W Th F, 8:30 a.m. to 12 m.; 1 p.m. to 4:30 p.m. (forty hours—12 units.)

Certificate. A certificate is given upon completion of the course.

Fees. Fees are as follows:

	<i>First Semester</i>		<i>Second Semester</i>	
	Residents of California	Nonresidents of California	Residents of California	Nonresidents of California
Incidental Fee	\$ 42.00	\$ 42.00	\$42.00	\$42.00
Tuition Fee	200.00†	200.00†	. . . . .	. . . . .
	\$242.00	\$242.00	\$42.00	\$42.00

For further information, write to the Medical Director, Curriculum in Orthoptic Technology, University of California School of Medicine, San Francisco 22, California.

PHYSICAL THERAPY

The requirements for admission to the Curriculum in Physical Therapy offered by the School of Medicine, meet and exceed those set by the Council on Medical Education and Hospitals of the American Medical Association.

Admission. Applicants for admission must satisfy one of the following requirements:

1. Bachelor's degree from an accredited institution. Candidates for admission on this basis must have completed 26 semester units of biological and physical science. They must have also included in their undergraduate studies all of the specific requirements of the Curriculum of Physical Therapy. Upon satisfactory completion of the course, the student is awarded a certificate.
2. Three years of college or university training. Candidates for admission on this basis must have completed courses that qualify them for senior standing in the College of Letters and Science of the University of California, and the specific requirements of the Curriculum in Physical Therapy. The student meeting the above requirements may matriculate into the Curriculum in his fourth year of college and obtain the degree of Bachelor of Science and a certificate of completion in physical therapy.

† The \$200 tuition fee covers the course of eight months and is payable only once. For further information, write to the Supervisor, Orthoptic Technicians Course, University of California School of Medicine, San Francisco 22, California.

An applicant for admission must present transcripts from his college or university. Such records must show the satisfactory completion of the following courses, or their equivalent:

Chemistry 1A—

5 units or 5 semester hours—(general inorganic chemistry)

Physics 10—

3 units or 3 semester hours—(general physics)

Anatomy 102—

3 units or 3 semester hours—(general human anatomy)

Physiology 1 and 1L—

5 units or 5 semester hours—(introductory physiology)

Psychology 168—

3 units or 3 semester hours—(abnormal psychology)

The student must complete all prerequisites before beginning the course, although these requirements need not be completed at the time the application is filed.

Curriculum. Two semesters will include all theory, seminars, and demonstration. The final twelve weeks will be devoted to practical training and can be completed in approved hospitals. The curriculum includes anatomy, physiology, physics, pathology, psychology, surgery, orthopaedic surgery, medicine, neurology, pediatrics, nursing, ethics and administration, electrotherapy, radiation, hydrotherapy, massage, kinesiology, therapeutic exercise, and clinical practice.

Graduates of the Curriculum in Physical Therapy are eligible for the State Registration Examination and the American Registry Examination.

Fees. Fees for the first and second semesters are as follows (there being no fees for the Summer Sessions):

	<i>First Semester</i>		<i>Second Semester</i>	
	Residents of California	Nonresidents of California	Residents of California	Nonresidents of California
Incidental Fee.....	\$ 42.00	\$ 42.00	Same as first semester	
Tuition Fee.....	75.00	150.00		
	<hr/>	<hr/>		
	\$117.00	\$192.00		

For further information and detailed announcement of courses, write to the Technical Supervisor, Curriculum in Physical Therapy, University of California School of Medicine, San Francisco 22, California.

X-RAY TECHNIQUE

A training program for X-ray technicians is offered at the School of Medicine. This course extends through a full calendar year, beginning with the fall semester.

Admission. Anatomy and physics, whether they are given at the City College of San Francisco or the University of California, Berkeley, or equivalent courses at other colleges. Courses recommended at both City College of San Francisco and the University of California, Berkeley, are listed as:

Anatomy 102

Physics 2A, 2B, 3A, 3B—preferred

Physics 10 acceptable

Curriculum. Practical training for X-ray technicians is offered in the Department of Radiology. This course rotates the student through all areas of the X-ray Department and is designed to give the technician knowledge of the various procedures used in making X-ray examinations, the techniques used

in developing films in the darkroom, the services required of a technician in the fluoroscopy room, and the services required of a technician in assisting the radiologist in therapy. The student is taught the routine procedures of handling patients in the reception areas, the filing of films and other matters concerned with the running of an X-ray department. Practical instruction is supplemented by lectures including anatomy, physics, and other subjects related to radiology.

I, II and S.T.

(40 hours per week, 640 hours per semester, 12 units per semester)

Certificate. A certificate of completion will be given to the student upon a satisfactory completion of the course. The student, upon completion of the course and with a year of experience as an X-ray technician, serving under the direction of a qualified radiologist, is eligible for the American Registry examination.

Expenses. The student must supply his or her own maintenance and uniforms.

Fees. Fees are as follows:

	<i>First Semester</i>		<i>Second and Third Semesters</i>	
	Residents of California	Nonresidents of California	Residents of California	Nonresidents of California
Incidental Fee	\$42.00	\$42.00	Same as first semester	

For further information please write to the Medical Director, X-ray Technicians' Course, University of California School of Medicine, San Francisco 22, California.

VETERANS AFFAIRS

The Office of the Dean of Students maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits; and assists veterans in becoming assimilated into the life and spirit of the University. On the San Francisco campus, this office is located in Room 52A, University of California Hospital. Offices of the United States Veterans Administration are located as follows:

Regional Office, 49 Fourth Street, San Francisco 3

Regional Office, 1380 South Sepulveda Boulevard, Los Angeles 25

Regional Office, 325 B Street, San Diego 1

Veterans wishing to enroll under the provisions of Public Law 550 ("Korean" GI Bill) should obtain from the United States Veterans Administration a Certificate for Education and Training which should be filed in the Office of the Dean of Students upon completion of registration. These veterans must be prepared to pay all fees and educational costs at the time of registration as education and training allowances are paid to the veteran by the Veterans Administration. The first monthly payment will normally be received 60 to 75 days after compliance with the above.

Information regarding educational benefits available from the State of California (CVEI) may be obtained from the State Department of Veterans Affairs located at 711 N Street, Sacramento, California; or by writing either to 357 South Hill Street, Los Angeles, California; or 515 Van Ness Avenue, San Francisco, California.

COURSES OFFERED IN THE SCHOOL OF MEDICINE

Abbreviations

In the following course listings, these abbreviations will recur throughout this publication:

I	Fall semester	W	Wednesday
II	Spring semester	Th	Thursday
S. f.	Summer term—16 weeks	F	Friday
M	Monday	S	Saturday
Tu	Tuesday	Sun	Sunday

ANATOMY*

First Year

101. Histology and Microscopic Organology. Simpson, Koneff, Lyons
The various tissues and organs of the body are studied developmentally, with attention to their gradual differentiation from the embryonic to the adult form. Since function and structure cannot be separated in the consideration of the microscopic appearance of tissues and organs, their chief physiological aspects are briefly considered.

Prerequisite: chemistry, physics, and elementary biology or zoölogy, either embryology or physiology. Embryology is strongly recommended. Some orientation in comparative or human anatomy is desirable.

I. Three laboratory and three lecture periods a week, M W F, 8–12.
(192 hours—6 units)

103. Neuroanatomy. Asling, Saunders, Hawkins, ——
The macroscopic and microscopic architecture of the central nervous system and of the organs of special sense; development and functional significance. This ranks as a separate course for certain nonmedical students only; for medical students, it constitutes part of the work of Anatomy 105.

I. Lectures, Tu Th, 8; laboratory, Tu Th, 9–12. (128 hours—4 units)

105. Systematic Human Anatomy. Reinhardt, Asling, Monie, Saunders
The structure of the human body is considered in a series of lectures closely correlated with the laboratory work in Anatomy 105X. Functional, dynamic, and clinical implications of morphology are stressed, and the genesis of the commoner variations and anomalies considered. Lectures are supplemented by audiovisual presentations. (See also description of Anatomy 103.)

I. Lectures, Tu Th, 8; M W F, 1. (80 hours—5 units)

105X. Systematic Human Anatomy. Reinhardt, Asling, Monie, Saunders
The human body is dissected in sufficient detail to enable proper understanding of the nature, position, and relationships of the various structures. The anatomy of the living subject is stressed and dissections correlated with surface and radiological anatomy. Fluoroscopic demonstrations are given, and methods of elementary physical examination utilized. (See also description of Anatomy 103.)

I. Laboratory, Tu Th, 9–12; 1–4; M W F, 2–4. (288 hours—6 units)

125. Mammalian Teratology. Monie

With the permission of the instructor, medical students may audit.

Abnormal organogenesis in man and other mammals is considered and

* See ANNOUNCEMENT OF COURSES, DEPARTMENTS AT BERKELEY, for other courses offered by the department.

appropriate aspects of normal development reviewed. The course is intended to provide a background for those interested in clinical and experimental aspects of congenital malformations.

II. Lectures, Tu Th, 4.

(32 hours—2 units)

Third Year

108A-108B. Regional and Topographical Anatomy.

Lindner

Living models, special dissections, and sections of the body are used in this course to enable the student to become more familiar with structural relations and to assemble information obtained in preceding dissections. Given at San Francisco. Elective.

I and II, S, 11.

(32 hours—1 unit each semester)

Fourth Year

109A-109B. Applied Anatomy.

Saunders

Lectures and demonstrations on applied anatomy and embryology. Given in San Francisco. Elective.

I and II, W, 2.

(32 hours—1 unit each semester)

ANESTHESIOLOGY

Undergraduate instruction in anesthesiology includes a lecture course in the third year and, in the fourth year, demonstrations and lectures, which are included in Surgery 105 and 106.

Third Year

101. Anesthesia.

Murphy and Staff

Correlation of basic pharmacological and physiological information with clinical application. The student is introduced to clinical anesthesia as it applies to the patient in the operating room.

Lectures and demonstrations.

II, F, 11.

(16 hours—1 unit)

Fourth Year

See Surgery 105 and 106.

Postdoctoral Training

A two-year course of training is offered. During tenure, the resident receives practical training and experience in all types of anesthesia and oxygen therapy, both in the hospital and outpatient departments. Attendance at surgical ward rounds as frequently as possible is required.

Weekly meetings of the department are held. At this time the subject matter consists of case reviews, reviews of current literature and general matters of interest to the specialty. A series of didactic lectures is conducted covering the basic sciences, with speakers from the faculty of the School of Medicine.

Courses for Professional Postdoctoral Students

250D-250E. Anesthesiology Staff Conferences.

Murphy and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Includes didactic lectures in sciences basic to the specialty of Anesthesiology, as well as case reviews, clinical discussions and seminars on current medical literature in the field of Anesthesiology, with assigned reading and reports.

I and II, W, 4:30-6:30 p.m.

(32 hours—2 units each semester)

250G-250H. Anesthesiology Staff Conferences.

Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450D-450E-450F. Clinical Work.

Murphy and Staff

Required for first-year assistant residents. Responsibility for Anesthetic care and management of patients in the Operating Rooms and Outpatient Department of the Herbert C. Moffitt-University of California Hospitals under immediate supervision of the staff. Pre- and postoperative evaluation of patients. Oxygen therapy and resuscitation.

450G-450H-450I. Required for Second-Year Assistant Residents.

I, II and S.T. (30 hours per week minimum—10 units each semester)

DERMATOLOGY AND SYPHILOLOGY

Third Year. Twice a week, the visiting staff members of dermatology show clinical material at the San Francisco Hospital to students in the medical section.

Fourth Year. Lectures, demonstrations, and section work in dermatology are given during the fourth year. In the early part of the course, the student is taught to observe symptoms accurately and describe them correctly. The histopathology, diagnosis, and treatment of diseases of the skin are discussed in a systematic manner. Radium and Roentgen-ray therapy as applied to diseases of the skin are described. A series of lectures and section work deals with the various manifestations of syphilis. The clinical and laboratory procedures used in its diagnosis and treatment are discussed. The pathological conditions occurring in patients are demonstrated to bring out the important points given in the didactic lectures.

Fourth Year*See Medicine 111.*

Rees, Torrey and Staff

Medicine 111, section work, includes the assignment of each student to some time in dermatology and syphilology.

102A-102B. Dermatology.

Rees, Torrey and Staff

Lectures and demonstrations. Emphasis is placed on diagnosis and the basic principles of therapy.

I and II, W, 8.

(32 hours— $\frac{1}{2}$ unit each semester)**Postdoctoral Training**

Dermatology offers postgraduate training. There are two assistant residents, one resident, two fellows or half-time preceptees, and one graduate student in the subdivision each year. The physical plant is excellent and equipment adequate. X-ray therapy is administered in the X-ray department.

Plan of training is as follows: in the first year, forty-eight hours of fixed training are allotted per week, of which twelve hours is in clinical dermatology, three in clinical syphilology and six in the related basic sciences. About fifty hours is devoted to formal lectures, the basic sciences are covered in seminars, laboratory work and in conjunction with related clinical material. Pathology is taught in a one-hundred-hour course and mycology and physical therapy in a forty-eight-hour course the first year. During the second and third years continued stress is placed on clinical training while additional time is allotted for research problems.

Staff conferences, including pathological conferences, seminars, ward rounds, journal club meetings, and visible tumor clinics are held.

Courses for Professional Postdoctoral Students**250D-250E. Dermatology Staff Conferences.**

Rees, Torrey and Staff

Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals. Students to prepare and present case histories of patients at Dermatology Staff Conferences. Includes discussion of appropriate

current literature, special studies, and laboratory work. Discussions of new developments and research investigation by visiting staff members of the department and professors from other universities. Integrating discussions by faculty members from other departments.

250G-250H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250J-250K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250X-250Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I and II, M, 8-10. (32 hours—2 units each semester)

251D-251E-251F. Dermatopathology. Fasal, Levy
Required for the first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Two hours of didactic lecture and demonstration of histopathology of skin diseases with special emphasis on correlation with clinical findings. Students taking an active part in the study of microscopic sections and discussions of material presented.

251G-251H-251I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251J-251K-251L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251X-251Y-251Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T., Th, 6-8 p.m. (32 hours—2 units each semester)

252D-252E. Seminar in Dermatological Literature. Rees, Torrey and Staff
Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. A seminar on the recent literature in the field of Dermatology. Assigned reading with required reports. Evaluation of presented material by members of the faculty.

252G-252H. Required for all second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252J-252K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252X-252Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I and II. (Hours to be arranged.) (16 hours—1 unit each semester)

253D-253E. Specialty Seminars. Rees, Torrey and Staff
Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Discussions, required readings, and reports; includes basic sciences in relation to dermatology, also embryology, mycology, parasitology and histopathology in relation to dermatologic conditions, and oncology particularly involving the skin.

253G-253H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253J-253K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253X-253Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I and II, Th, F, 8-9. (32 hours—2 units each semester)

254D-254E. Seminar in Clinical Dermatology. Rees, Torrey and Staff
Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. A seminar on the recent clinical cases of special interest. Evaluation of the cases presented by members of the faculty and resident staff.

254G-254H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

254J-254K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

254X-254Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II. (Hours to be arranged.) (16 hours—1 unit each semester)

450D-450E-450F. Clinical Work. Rees, Torrey and Staff
Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. History-taking, physical examination, and consultations.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450X-450Y-450Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals. In addition the resident is responsible for the following:

A. Administrative

1. Admission of patients to the Hospital with provision for adequate clinical material for the House Staff and medical students.
2. Correlation of clinical material between teaching facilities and various research programs.
3. Liaison between faculty members and members of the House Staff.
4. Scheduling of faculty consultations for teaching wards.
5. Responsibility for proper coding and correspondence regarding medical schools.

B. Teaching

1. Departmental rounds with the House Staff.
2. Organization and presentation of material for senior medical students.
3. Consultative work in the Outpatient Department.
4. Consultative service by the Department of Dermatology and Syphilology to teaching patients in the Hospital.

C. Clinical

1. Care of hospital patients on the Student Health Service.

I, II and S.T. (30 hours per week minimum—10 units each semester)

EMERGENCY MEDICINE

Courses in Emergency Medicine are a part of the required curriculum.

First Year

121A-121B. Emergency Medicine. Lagen
Given at Berkeley. Enrollment limited to first-year medical students.
Outline of disaster preparedness plans and civil defense measures with

emphasis on Campus Disaster Plan. Emphasis is on first aid, including bandaging and splinting; also transportation of wounded. Introduction to medical and surgical emergencies.

I, Tu, 4; II, Th, 2 (32 hours—1 unit each semester)

Second Year

122A-122B. Emergency Medicine. Lagen

Lectures and demonstrations.

(1) Aspects of bacteriological warfare, (2) chemical warfare, (3) the principles of atomic energy, with emphasis on field survey of contamination and methods of decontamination.

I, W, 8; II, Tu, 11. (32 hours—1 unit each semester)

Third Year

123A-123B. Emergency Medicine. Lagen

Lectures and demonstrations.

Practical experience in the handling of casualties as seen in the Emergency Hospitals of the Public Health Department of San Francisco.

I, M, 4; II, M, 4. (32 hours—1 unit each semester)

Fourth Year

124A-124B. Emergency Medicine. Lagen

Lectures and demonstrations.

(1) Mob psychology, (2) rehabilitation of casualties, (3) further training in aspects of atomic energy.

I and II, Th, 4. (32 hours—1 unit each semester)

HOMEOPATHY

The instruction deals with presentation and analysis of basic concepts of medical thought; general ethical-cultural as well as particular technical-professional.

The second course, held as a seminar, deals with source material utilized in the first; the third is an elaboration of the first. The courses can, however, be taken independently.

All courses are elective.

Second Year

*102B. The Medical Attitude I. Guttentag and associates
II, W, 4, last eight meetings. (8 hours— $\frac{1}{2}$ unit)

Third Year

*102A. Selected Writings on the Philosophy of the Medical Approach. Guttentag
I, F, 4. (8 hours— $\frac{1}{2}$ unit)

Fourth Year

*103. The Medical Attitude II. Guttentag and associates
II, S, 11, first eight meetings. (8 hours— $\frac{1}{2}$ unit)

Postdoctoral Training

Special students are accepted for the purpose of pursuing original investigations in the fields of science, clinical medicine and medical theory.

* Students will be indicated as passed or not passed in these courses.

LEGAL MEDICINE**101. Lectures.****Fourth Year****Moon**

Several lecturers participate in the presentation of the various aspects of legal medicine. The material in the lectures consist of the basic principles of law as applied to medical practice, fundamental legal opinions, regulatory statutes, contractual relationships, rules of evidence, expert testimony, and malpractice. The Public Health and Safety Code and the medicolegal aspects of industrial accidents are also covered. Medical evidence of various types and their use in litigation are considered.

II, W, 3.

(16 hours—1 unit)

MEDICAL HISTORY AND BIBLIOGRAPHY

At present, there are no required courses in this department, but it is customary in courses given by other departments to stress the historical aspects of the particular subject. Instructors in Medical History and Bibliography cooperate in this. A series of bimonthly seminars will be conducted throughout the year.

The Historical Collection, a part of the Medical Center Library, houses an interesting collection of volumes dealing with medical history. Those who are interested may arrange with the Library to use the literary material in this room. The staff is available for consultation in connection with the preparation of manuscripts and the compiling of bibliographies. Informal instruction is offered in the use of the Library. Members of the Department are available to give general lectures on historical or cultural subjects relating to medicine.

Electives**102. Medical History and Bibliography.****The Staff**

Lectures and informal seminars on various aspects of medical history. The character of this course changes from year to year.

I and II.

(Hours and credit to be arranged)

103. Some American Doctors of the Nineteenth and Twentieth Centuries.

Lectures and informal seminars.

II.

(Hours and credits to be arranged)

MEDICINE

Instruction is given at the Herbert C. Moffitt—University Hospitals, the San Francisco Hospital, and the Laguna Honda Home.

Second Year. Formal instruction in the Department of Medicine begins in the second semester of the second year. Two introductory courses, embracing physical diagnosis and laboratory diagnosis, are given throughout the semester. Instruction in the physical signs of the normal individual precedes the systematic examination of the abnormal, with interpretation of the pathological changes in bodily tissues. The physical examination of the patient is amplified in the laboratory where, through physical, chemical, and microscopical methods, the manifestations of disease processes are further revealed to the student. During the latter part of the semester instruction in history-taking is begun. A course in symptom interpretation is given by lectures and demonstrations. This course aims to relate the knowledge gained in preclinical courses to clinical medicine.

Third Year. During the third year the section work includes further instruction in history-taking, physical diagnosis, and diagnostic and therapeutic procedures at the bedside. Complete and accurate records of all observations are required. Classical references to the literature are assigned. Careful instruction in the clinical and sociological problems of an important disease (such as tuberculosis) is given in the wards. A systematic course of lectures

and clinical demonstrations is given throughout the year, in order to present the major problems of clinical medicine to the student. The Director of the Clinical Laboratory discusses with small groups of students the significance of laboratory findings in their patients. An introductory course in tropical medicine is given by lectures. Instruction in therapeutics is given throughout the year. Also, throughout the year, clinicopathological conferences serve to correlate the clinical manifestations of disease with post-mortem studies. Students take an active part in the presentation and discussion of the problems connected therewith. By joint seminars and conferences, instruction in this department is correlated with that in the departments of Physiology, Physiological Chemistry, Pharmacology, Microbiology, Pathology, Radiology, and Surgery.

Fourth Year. In the fourth-year section work, patients presenting a variety of problems are assigned for examination and investigation in the Outpatient Department and wards. The students, serving as clinical clerks or "junior clinicians," are encouraged to assume every phase of the diagnostic and therapeutic management of the patient under the supervision of the staff. They are held responsible for complete records and must familiarize themselves with and report on the literature bearing on the problems presented. Clinical demonstrations are held in the Outpatient Clinics in order to familiarize the student with the problems of practice. Patients whose conditions require special study or treatment in other clinics, or in the hospital, remain under the observation of the students concerned. Students are instructed in the study of pathological tissues and are responsible for reports at clinicopathological conferences throughout the year. A home service, under supervision of members of the staff, to permit the student to investigate the social and economic aspects of clinical medicine is provided. Students conduct their patients to other clinics for personal consultation with qualified instructors. Throughout the course, an effort is made to impress the student with the importance of the physician-patient relationship in the practice of medicine.

Ward rounds are held daily and a general staff meeting is held weekly, at which patients with important diagnostic and therapeutic problems are presented. The entire class meets once a week for a Clinical Therapeutic Conference with participation of members of the Department of Pharmacology.

The Department of Medicine is supported in part by the Morris Herzstein bequest.

Tropical Medicine. Second-year courses in microbiology, parasitology, and laboratory diagnosis (Microbiology 101 and Medicine 102) include the instruction of the student in the laboratory diagnosis of tropical diseases. Practical experience in laboratory methods is offered in the third and fourth years, in which the student sees the patient and observes the clinical condition as well as the etiological agent. In the third year, there is a course of eight lectures (Medicine 103), and, in the fourth year, four two-hour demonstration periods (Medicine 117), all of these being devoted to the clinical aspects, diagnosis, treatment, epidemiology, prevention, and control of tropical diseases. In addition, some lecture time in other courses is given to a discussion of this group of diseases.

Second Year

- | | |
|---|---|
| 101. Physical Diagnosis and History-Taking.
II, M W F, 8-11. | Mote and Associates
(144 hours—5 units) |
| 102. Laboratory Diagnosis.
II, Tu F, 2-5. | Schumacher, Havel, Hopper and Mettier
(96 hours—2 units) |
| 104. Interpretation of Symptoms.
Application of the knowledge gained in preclinical courses to clinical medicine.
II, Tu, Th, 12. | Brown and Associates
(32 hours—2 units) |

118. Medical Parasitology.

I, W, 1-4.

Johnstone

(48 hours—1 unit)

Lectures, demonstrations, and laboratory sessions dealing with the protozoan, helminthic, and arthropod parasites which cause, or are associated with, disease in man. The biology, life history, morphology, host relationship, and epidemiology of the various parasites. The manifestations of disease processes produced in man by animal parasites. Laboratory exercises devoted to the identification of parasites in prepared material and in clinical specimens. Application of laboratory diagnostic procedures.

Third Year**103. Tropical Medicine.**

Johnstone and Associates

Lectures on the clinical aspects, diagnosis, treatment, epidemiology, prevention, and control of tropical diseases.

II, Tu, 8, second eight meetings.

(8 hours— $\frac{1}{2}$ unit)**105A-105B. Section Work.**

Brainerd, Alden, Benioff, Chamberlain, Edelman, Eliaser, Farber, Fenlon, Gorman, Katz, M. A. Meyer, Mote, Motto, Noble, Rogers, Sweet, Thomas, Wallerstein, Watts, Weinstein and Wilson

Bedside instruction in history, physical diagnosis, and diagnostic and therapeutic procedures.

I, M, 9-11, 1-4; Tu, 9-11; W, 9-12; Th, 9-11, 2-4; F, 9-12, 2-4.

II, M, 9-11, 1-4; Tu, 9-11, 2-4; W, 9-12; Th, 9-11, 2-4; F, 9-11, 1-4. (For students assigned to this section.)

(144 hours—3 units first semester; 118 hours—2 units, second semester)

106A-106B. Amphitheater Clinics.

Brainerd, Sweet, and Edelman

Clinical demonstrations which are selected to illustrate and amplify the content of Medicine 107A-107B.

I and II, S, 10, on alternate weeks.

(16 hours— $\frac{1}{2}$ unit each semester)**107A-107B. General Medicine and Therapeutics.**

Althausen, Brainerd and the Staff

Lectures: Diagnostic and therapeutic aspects of general medicine.

I, M, 11; Th, 8; S, 10*

II, M, 11; Th, 12; S, 10*

(80 hours—2 $\frac{1}{2}$ units each semester)**Fourth Year****109. Student Seminars in Therapeutics.**

Lucia

Demonstrations and discussions of therapeutic problems which are selected to illustrate and amplify the content of Pharmacology 104 and Medicine 113.

II, S, 10, first eight meetings.

(8 hours— $\frac{1}{2}$ unit)**111. Section Work.**

Althausen and Associates

This section work includes general medicine and the medical specialties. (Also see Psychiatry 104.) The practical work is supplemented by demonstration clinics, including general medicine and psychiatry, which are held Mondays through Fridays.

I and II, M, 9-1, 2-4; Tu, 9-1, 2-4; W, 10-1; Th, 9-1, 2-4; F, 9-1, 2-4.

(For students assigned to this section.)

(180 hours—6 units)

113. Clinical Therapeutic Conferences.

Sweet, Lucia, and Anderson

Amphitheater clinics and panel discussions on the therapeutic aspects of general medicine.

II, M, 8.

(16 hours—1 unit)

* Alternate weeks on Saturdays

116. Nutrition.

Lucia, Simmonds

Lectures and demonstrations on racial food habits, food patterns, review of normal nutrition, diet and its relation to disease conditions, modified diet for various diseases, based on normal diet. Practical exercises in planning for diets for various diseases.

I, S. 8.

(16 hours—1 unit)

117. Tropical Medicine.

Johnstone

Demonstrations and laboratory work on the clinical aspects, diagnosis, treatment, epidemiology, prevention, and control of tropical diseases.

II, S, 10-12, four meetings, dates to be announced.

(8 hours— $\frac{1}{2}$ unit)

Postdoctoral Training

Interns serving on the Medical Service at the Herbert C. Moffitt—University of California Hospitals will be straight medical interns and rotating interns. The straight medical interns rotate through Men's and Women's Medical Wards, the Private Service, Neurology, Dermatology, the Emergency Ward, the Metabolic Service, and the Oncology Service. Rotating interns will serve primarily on Men's and Women's Medical Wards.

On the resident staff, first-year assistant residents in Medicine at the Herbert C. Moffitt—University of California Hospital rotate through the Men's and Women's Wards, the Medical Outpatient Department and the Private Medical Service.

The second-year medical assistant residents rotate through the Medical Outpatient Department, the Outpatient Department's Screening and Admissions Service, the Metabolic Unit, Neurology, the Langley Porter Psychiatric Clinic, and, in addition, serve as Ward Supervisor on Medical Wards.

The third-year medical assistant residents rotate through the Emergency Ward, the Student Health Inpatient Service, the Medical Outpatient Clinic, the Oncology Service, and, in addition, may also serve in the Screening and Admissions Unit of the Outpatient Clinic. Some individuals seeking a third year of training in Internal Medicine may elect to apply for a grant or research fellowship. One of the third-year assistant residents in Medicine will be selected to serve as an assistant to the Chief Medical Resident. The Chief Medical Resident is usually selected from among those members of the resident staff who have had three or more years of training and experience.

At the San Francisco Hospital, assistant residents in Medicine rotate between the Medical Wards at San Francisco Hospital and those at the Laguna Honda Home. They also gain experience on the Tuberculosis Wards at the San Francisco Hospital and the Emergency Service.

Fellows in Cardiology, Endocrinology, Gastroenterology, Hematology, etc., are appointed from qualified applicants whose support is furnished by extramural agencies, e.g., Public Health Service, or other governmental agencies or foundations or other outside funds. They participate in organized programs of training and research in these medical specialties.

Courses for Professional Postdoctoral Students

250A-250B. Medical Staff Conferences.

Althausen and Staff

Required for interns, Herbert C. Moffitt—University of California Hospitals. Students to prepare and present case histories of patients at Medical Staff Conferences. Includes reference to literature, laboratory work, special studies, etc. Faculty members and visiting professors from other universities furnish discussions of new developments in the respective fields.

250D-250E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250G-250H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250J-250K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250X-250Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, W, 9-11.

(32 hours—2 units each semester)

251A-251B. Clinicopathological Conferences.

Althausen and Moon in charge

Required for interns, Herbert C. Moffitt—University of California Hospitals. Students to take active part in the presentation and discussion of problems connected with the correlation of the clinical manifestations of disease with post-mortem studies. Includes reference to literature, clinical demonstrations, laboratory work, etc.

251D-251E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251G-251H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251J-251K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251X-251Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, W, 11-12.

(16 hours—1 unit each semester)

252A-252B. Seminar in Medical Literature.

Althausen and Staff

Required for interns, Herbert C. Moffitt—University of California Hospitals. A seminar on the recent literature in the field of internal medicine. Each session is given by a group consisting of two postdoctoral students and a faculty moderator. The group holds several meetings prior to the seminar in order to select certain facets of their assigned subject for presentation.

252D-252E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252G-252H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252J-252K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252X-252Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, Tu, 4:30-6.

(24 hours—1½ units each semester)

253A-253B. Specialty Seminars.

Althausen and Staff

Required for interns, Herbert C. Moffitt—University of California Hospitals. Discussions, required reading and reports. Includes Gastrointestinal, Hematology, Cardiovascular, Electrocardiography, Endocrine, Chest, Thyroid, Psychosomatic, and X-ray Conferences. The various conferences are held weekly. While it is not possible for the intern to attend all conferences each week, he spends approximately four hours per week attending some of these.

253D-253E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

- 253G-253H.** Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 253J-253K.** Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 253X-253Y.** Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I and II. Hours to be arranged. (48 hours—4 units each semester)
- 254A-254B-254C. Research: Problems in Fundamental Aspects of Disease.**
Althausen and Staff
Available to interns, Herbert C. Moffitt—University of California Hospitals.
- 254D-254E-254F.** Available to first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 254G-254H-254I.** Available to second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 254J-254K-254L.** Available to third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 254X-254Y-254Z.** Available to the resident, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T. (Hours to be arranged) (Units to be arranged)
- 255D-255E. Medical Staff Conferences.** Brainerd and Staff
Required for first-year assistant residents, San Francisco Hospital. Students to prepare and present case histories of patients at Medical Staff Conferences. Includes reference to literature, laboratory work, special studies, etc. Faculty members and visiting professors from other universities furnish discussions of new developments in the respective fields.
- 255G-255H.** Required for second-year assistant residents, San Francisco Hospital.
- 255J-255K.** Required for third-year assistant residents, San Francisco Hospital.
- 255X-255Y.** Required for the resident, San Francisco Hospital.
I and II, F, 10-11. (16 hours—1 unit each semester)
- 256D-256E. Clinicopathological Conferences.** Brainerd and Carr in charge
Required for first-year assistant residents, San Francisco Hospital. Students to take active part in the presentation and discussion of problems connected with the correlation of the clinical manifestations of disease with post-mortem studies. Includes reference to literature, clinical demonstrations, laboratory work, etc.
- 256G-256H.** Required for second-year assistant residents, San Francisco Hospital.
- 256J-256K.** Required for third-year assistant residents, San Francisco Hospital.
- 256X-256Y.** Required for the resident, San Francisco Hospital.
I and II, Tu, 11-12. (16 hours—1 unit each semester)
- 257D-257E. Seminar in Medical Literature.** Brainerd and Staff
Required for first-year assistant residents, San Francisco Hospital. A seminar on the recent literature in the field of internal medicine. Assigned reading with required reports. Evaluation of presented material by members of the faculty.

257G-257H. Required for second-year assistant residents, San Francisco Hospital.

257J-257K. Required for third-year assistant residents, San Francisco Hospital.

257X-257Y. Required for the resident, San Francisco Hospital.
I and II, M, 1-2:30. (24 hours—1½ units each semester)

258D-258E. Specialty Seminars. Brainerd and Staff
Required for first-year assistant residents, San Francisco Hospital. Discussions, required reading and reports. Includes Electrocardiography, Hematology, Gastroenterology, X-ray and Pathology conferences which are held weekly.

258G-258H. Required for second-year assistant residents, San Francisco Hospital.

258J-258K. Required for third-year assistant residents, San Francisco Hospital.

258X-258Y. Required for the residents, San Francisco Hospital.
I and II. (Hours to be arranged) (48 hours—4 units each semester)

448. Clinical Work. Althausen and Staff
Three months assignment to this department is required for rotating interns at Herbert C. Moffitt-University of California Hospitals. The intern is responsible for the care of patients in the wards and Outpatient Department under the direction of attending staff. History-taking, physical examination, laboratory tests and consultations.
I, II and S.T. (30 hours—7½ units)

450A-450B-450C. Clinical Work. Althausen and Staff
Required for straight medical interns, Herbert C. Moffitt-University of California Hospitals. Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. History-taking, physical examination, laboratory tests and consultations.

450D-450E-450F. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

450X-450Y-450Z. Required for resident, Herbert C. Moffitt-University of California Hospitals. In addition, the resident is responsible for the following:

A. Administrative

1. Admission of patients to the Hospital with provision for adequate clinical material for the house staff and medical students.
2. Correlation of clinical material between the teaching facilities and various research programs.
3. Liaison between faculty members and members of the house staff.
4. Scheduling of faculty consultants for teaching wards.
5. Responsibility for proper coding and correspondence regarding medical records.

B. Teaching

1. Weekly resident's rounds with the house staff.

2. Organization and presentation of seminars for senior medical students.
3. Consultative work in the Outpatient Department.
4. Consultative service in internal medicine to teaching patients in the Departments of Surgery and Obstetrics-Gynecology.

C. Clinical

1. Care of hospital patients on the Student Health Service.

I, II and S.T. (30 hours per week minimum—10 units each semester)

451D—451E—451F. Clinical Work. Brainerd and Staff

Required for first-year assistant residents, San Francisco Hospital. Responsibility for the care of patients under the direction of the attending staff. History-taking, physical examinations, laboratory tests, and consultations.

451G—451H—451I. Required for second-year assistant residents, San Francisco Hospital.

451J—451K—451L. Required for third-year assistant residents, San Francisco Hospital.

451X—451Y—451Z. Required for resident, San Francisco Hospital. In addition, the resident has certain teaching and administrative responsibilities.

I, II and S.T. (30 hours per week minimum—10 units each semester)

MICROBIOLOGY

Instruction in microbiology is given in the Medical School Building in San Francisco. See also Preventive Medicine 101.

Second Year

101M. Medical Microbiology. Marshall, Gunnison, Jawetz, Speck

The study of the infective process, specific infections, and the agents of infection, particularly the pathogenic microbial organisms and viruses. Methods of cultivation and study, experimental infection, laboratory diagnosis, the techniques of serology, the concept of immunity, and biologic products are included.

I, M, 1-5; Tu, 1-4; F, 2-5. (160 hours—6 units)

Electives

199. Special Study for Advanced Undergraduates.

Undergraduate research problems. Marshall and the Staff
I or II. (Hours to be arranged—2 units)

201. Research: Problems of Microbiology, Infection, Immunity, and Experimental pathology.

Marshall and the Staff
I or II. (Hours and credit to be arranged)

NEUROLOGICAL SURGERY

Students receive instruction from the staff of the Department of Neurological Surgery in all four years of the School of Medicine. A portion of this teaching is through the collaborative participation of members of the staff in courses listed under the divisions of Anatomy, Pathology, Neurology, and General Surgery. Weekly staff conferences held jointly with the Department of Neurology are part of the sectional requirements in the senior year. Weekly seminars in neurological surgery and neuropathology are open to junior and senior students desiring to attend.

A required lecture course, given jointly with Neurology, is given in the second year.

Instruction in neurological surgery is included in the courses given in general surgery in the third and fourth years.

First Year

See Anatomy 105.

Garoutte and Staff

The course includes lectures and demonstrations in neuroanatomy with selected clinical correlation.

Second Year

103. The Neurological Examination.

Boldrey, Aird, and Staff

Weekly lectures and section work in history-taking and physical examination as it pertains to the nervous system are given in the second semester conjointly with the Department of Neurology.

This course presents the elementary aspects of the clinical neurological examination laying the foundation for Neurology and Neurological Surgery in the ensuing third and fourth years.

See Neurology 103.

II, S, 9.

(8 hours— $\frac{1}{2}$ unit)

See Surgery 101.

Boldrey and Staff

This portion of this course is concerned with the essentials in history-taking and physical examination as they pertain to patients with diseases of the nervous system. Correlation between anatomy and physiology of the nervous system and clinical neurology and neurological surgery is begun.

Third Year

See Surgery 102A and 102B and 103A and 103B.

O. W. Jones, Jr., H. A. Brown, Adams, Webb, Dunbar

In the third year, instruction is given at the San Francisco Hospital. Stress is placed upon the reaction of the nervous system to trauma and to infection. The course includes lectures and case demonstrations. In addition, ward patients with problems of a neurosurgical character are assigned under the supervision of the staff.

Fourth Year

See Surgery 105.

Boldrey, Adams, Dunbar

Section work. In this, the student is the clinical clerk in the Hospital and Outpatient Clinic and is responsible for the history and physical examination, including minor laboratory tests. Formal ward seminars are conducted for three hours weekly; the section also attends the weekly staff conference of the departments of Neurology and Neurological Surgery. The patients are followed through all phases of study and treatment by the entire section.

See Surgical Pathology 107B.

Boldrey

Lectures and demonstrations in the surgical pathology of the nervous system are included as part of the course in general surgical pathology.

See Surgery 108A-108B.

Bell, Boldrey, and Staff

Amphitheater clinics are held periodically throughout the senior year.

Postdoctoral Training

Personal interviews with applicants are desirable and customary, but not required. An application blank must be accompanied by a photograph of the applicant, by a letter from the dean of the medical school of his graduation, including the dean's appraisal of his work, and by letters from surgical chiefs under whom the applicant has served. In the case of foreign students, recommendation is sought from some member of the profession known personally to the department, who has had contact with the student. Two years of training in general surgery are expected, but certain applicants may be accepted

who have had one straight year of surgery and one of rotating internship. Freedom from organic disease, and an otherwise satisfactory physical examination are requirements.

Appointments are made for one year and are competitive. The periods of residency in hospital are divided between the Herbert C. Moffitt—University of California Hospitals and the Franklin Hospital. The laboratory year involves assignment in the neuropathological laboratory and in neurophysiological research, part of which is in electroencephalography. During the teaching of neuroanatomy to undergraduates, the men in training act as assistants in teaching and in preparation of the work. There is in addition an evening course at graduate level in neuroanatomy. All graduate students are expected to attend Thursday morning formal rounds which are combined rounds of the neurological and neurosurgical services and the Tuesday morning ward walk. At these meetings the diagnostic problems of the week are discussed, unusual cases presented, and followup reported on cases previously shown or discussed. Weekly pathological conferences are held on Fridays at which time the specimens of the week are reviewed and there is discussion of the microscopic findings of the neuropathological material derived from the Herbert C. Moffitt—University of California, Franklin, San Francisco and Veterans hospitals and the Langley Porter Clinic. On alternate Tuesday mornings at 8 o'clock, clinics are given to the fourth-year students and these are open to graduates. During the years of assignment to the resident services of one of the two hospitals, some clinical research and investigative work is carried on by each resident.

Additional opportunities are afforded through attendance at general surgical rounds and at the evening lecture courses given primarily for residents in ophthalmology and otorhinolaryngology. In the course in ophthalmology, certain periods are allotted to retinoscopy, to perimetry, and to the various aspects of neuroophthalmology. In otorhinolaryngology there is a mutual interest in vestibular apparatus and its functions and tests.

During the period of residency in both hospitals, there is a large variety of diagnostic work in medical neurology as well as in surgical conditions. Complete physical and neurological examinations of all kinds are in the hands of the resident staff. The histories of the interns are checked by them and their own examinations made in each instance, these being rechecked by members of the visiting staff. Interpretation of X rays is made in all instances by the resident staff and the visiting staff in addition to the radiologic department.

Ophthalmoscopy and perimetric fields are taken by the resident staff, and their findings are a matter of record. In unusual cases these are checked by the ophthalmological department and with consultation. In disorders of the sympathetic nervous system, the special tests are made by the resident staff, and consultations are held with other services. Consultations are frequent with the neurological service and with the medical, pediatric, obstetric, and gynecological departments. The resident staff frequently must carry on library research on special topics and present the subject at rounds.

During the period of residency in the two hospitals, the residents act during the earlier part of their services as second assistants, later on as first assistants, at the operating table and with increasing responsibility so that at the end of their period they are operating upon certain types of cases independently. In operations of greater magnitude they are doing portions of the operations or perhaps the entire operation, assisted by a member of the visiting staff.

Courses for Professional Postdoctoral Students

250A—250B—250C. Neurological Surgery Staff Conference.

Boldrey and Staff

Required for interns on the Neurosurgical Service of the Herbert C. Moffitt—University of California Hospitals. Students (medical students) will prepare

and present case histories of patients on the wards under the immediate supervision and direction of the intern. Laboratory work, x-ray studies, special investigation and reference to the literature are included in the presentation and discussion. A discussion is led by the faculty with participation by other members of the staff and by visitors from other universities.

250D-250E-250F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250G-250H-250I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250J-250K-250L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250X-250Y-250Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I, II, and S.T., Tu, 9-11. (32 hours—2 units each semester)

251A-251B. Combined Staff Conference, Neurology-Neurosurgery.
Boldrey, Aird, and Staff
Required for interns on Neurological Surgery, Herbert C. Moffitt—University of California Hospitals. Discussion of special problems and topics in neurology and neurological surgery relating to case presentations by members of the house staff and postgraduate students.

251D-251E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251G-251H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251J-251K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251X-251Y. Required for resident, Herbert C. Moffitt—University of California Hospitals.
I and II, Th, 11-12. (16 hours—1 unit each semester)

252A-252B-252C. Clinicopathological Conferences. Boldrey and Malamud
Required for interns on the Neurosurgical Service, Herbert C. Moffitt—University of California Hospitals. Presentation by the interns of clinical and pathological aspects of special cases. Discussion of their correlation, with references to the literature, special studies, etc. Faculty members and visiting professors furnish discussions of new developments in various fields.

252D-252E-252F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252G-252H-252I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals. In addition this assistant will be in charge of preparation of material, assembling of data, demonstration of radiographic and other pertinent findings and the general organization of the conference. He will participate in the gross autopsy on patients from the Neurological Surgery Service.

252J-252K-252L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252X-252Y-252Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T., 4:30-6:30. (32 hours—2 units each semester)

253A-253B-253C. Seminar in Literature of Neurology and Neurological Surgery. Boldrey, Dunbar, and Staff

Required for interns, Herbert C. Moffitt—University of California Hospitals. Recent literature in the field of neurology and neurological surgery is presented. Assignments in various publications including monographs as well as periodicals are included. Discussion is by members of the faculty who are in attendance and by visitors from other schools interested in this and related fields.

253D-253E-253F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253G-253H-253L Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253J-253K-253L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253X-253Y-253Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I, II, and S.T., M, 6-7 p.m.

(16 hours—1 unit each semester)

254G-254H. Specialty Seminars. Boldrey, Aird, Malamud and Staff

Required for second-year assistant residents on laboratory service at the Herbert C. Moffitt—University of California Hospitals and open to qualified postgraduate students from other areas. This course includes special seminars in neuropathology under Dr. Malamud, in electroencephalography and neurophysiology under Dr. Aird, and in investigative neurosurgery and neurophysiology under Dr. Boldrey and Staff. Attendance and participation in irregularly scheduled topical seminars on subjects in neurology, neurological surgery and related fields is also required.

I and II.

(Hours and units to be arranged)

450A-450B-450C. Clinical Work. Boldrey and Staff

Required for interns on the Neurosurgical Service of the Herbert C. Moffitt—University of California Hospitals. Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff with direct supervision of undergraduate students. The care includes the taking of history, complete physical examination and arrangement of laboratory tests as ordered. Consultations are discussed and are arranged for.

450D-450E-450F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450G-450H-450I. Required for second-year assistant residents on the Clinical Service, Herbert C. Moffitt—University of California Hospitals.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450X-450Y-450Z. Required for residents, Herbert C. Moffitt—University of California Hospitals. In addition to the above requirement, the resident has the following responsibilities:

A. Administrative

1. Admission of patients to the Clinic Service of the Hospital with direct responsibility for the provision of adequate clinical material for teaching the junior house staff and undergraduate medical students.
2. Correlation of clinical material between the teaching facilities and research programs.

3. Responsibility to the Faculty Chief of Staff for care of all patients and professional activities of the junior House Staff.
4. Arrangement of consultations for teaching patients directly and subsequently with Chief of Staff.
5. Liaison between hospital admissions and faculty members for teaching, including teaching budget and admission of patients.
6. Responsibility for correspondence regarding clinic patients. Proper preparation of permanent medical records. Proper coding of diagnoses and procedures.

B. Teaching

1. Resident's rounds with junior house staff and with section of neurological surgery in fourth-year undergraduate class.
2. Organization and supervision of case presentations by undergraduate and junior graduate students. Supervised consultative service on teaching patients in other departments.

C. Clinical

1. Supervised surgical procedures on selected hospital patients under the direction of the Chief of Neurosurgical Staff.

I, II and S.T. (30 hours per week minimum—10 units each semester)

451D-451E-451F. Clinical Work.

Brown, Jones, and Staff

Required for first-year assistant residents in neurological surgery, San Francisco Hospital. These students will be responsible for the care of patients under the direction of the attending staff with responsibility for taking of history, physical examinations, laboratory tests and arrangement of consultations.

451X-451Y-451Z. Required for resident, San Francisco Hospital. In addition the resident will have certain teaching and administrative responsibilities as required by the attending staff.

I, II and S.T. (30 hours per week minimum—10 units each semester)

NEUROLOGY

First Year. Preclinical neurological instruction begins in neuroanatomy and physiology in the first year and continues with neuropathology in the first semester of the second year.

Second Year. Elementary neurology, stressing the neurologic examination, begins in the second semester of the second year. The correlation of those phases of neuroanatomy, neurophysiology, and neuropathology which are essential to clinical neurology likewise is emphasized.

Third Year. The study of clinical syndromes and neurologic problems in the third and fourth years completes the undergraduate program. In the third year, the principal clinical entities in the field of neurology are presented in lectures and demonstrations.

Fourth Year. In the fourth year, the students are assigned in- and out-patients and held responsible for history-taking, examinations, and minor laboratory procedures on each case. Student teaching rounds are conducted by staff members twice a week. Students are invited to attend the weekly staff conferences, held jointly by the departments of Neurology and Neurological Surgery. Weekly seminars in neuropathology and bimonthly seminars in neurology also are open to interested senior students.

Second Year

103. The Neurological Examination.

Aird, Boldrey, and Staff

Weekly lectures and section work in history-taking and the neurological examination are given in the spring semester conjointly with the Department

of Neurological Surgery. This course reviews and stresses those aspects of the preclinical neurological sciences which are of importance and essential in the clinical fields of organic neurology.

See Neurological Surgery 103.

II, S, 9.

(8 hours— $\frac{1}{2}$ unit)

See Pathology 101.

This course includes lectures and demonstrations in neuropathology.

Third Year

104A-104B. Neurology.

Aird, Alden, Macrae, Roberts, and Staff

Lectures and demonstrations.

The principal syndromes and problems of clinical importance in the field of neurology are covered in this course. The physiological basis of neurologic disorders and the pathology associated with them are stressed.

I, Tu, 8; II, Th, 8.

(32 hours—1 unit each semester)

Fourth Year

105. Section Work.

Aird, Garoutte, Jaros, Macrae, Van Meter, Skillicorn, Wedell, and Staff

As clinical clerks the students are assigned patients in the Outpatient Department and on the neurological service of the Herbert C. Moffitt—University of California Hospitals. The student is expected to present his inpatients before the staff and his section, discuss the differential diagnosis, therapeutic possibilities, and report assigned reading on ward rounds or at teaching sessions held on Tuesday afternoons. Special demonstrations of the various diagnostic techniques in neurology are arranged.

I and II, M Tu Th F, 2-4. See Medicine 111.

(54 hours—1 unit)

Postdoctoral Training

Graduate training in neurology is available to properly qualified physicians on a residency basis. Appointments are competitive and made for one year. Personal interviews are required when this can be arranged without undue inconvenience to the applicant. Information on the applicant's academic status as a medical student (transcript of records, ranking in class, and appraisal by the dean), a recent photograph and a satisfactory physical examination, likewise are required. Letters of recommendation from the dean and professor of neurology of the medical school of the applicant's graduation, in addition to references from others under whom the applicant has taken previous training, are required. Application forms and more detailed information are available to those interested.

A full course of training requires from three to four years, but is adjusted to the individual needs of each house officer and depends upon his background, as well as his interests and objectives in seeking training. Clinical training is available for two or more years (approved by the American Board of Neurology for two years) and is based on both in- and outpatient services, as well as such ancillary activities as assisting on student rounds, neurological consultations with other clinical services, weekly clinical conferences (joint staff conferences with neurological surgery), neurophysiological conferences (electroencephalography, electromyography, etc.), neuropathological conferences, and neurological seminars. Graduate students are responsible for complete physical and neurological examinations and receive instructions in such special diagnostic techniques as pneumoencephalography, electroencephalography, and myelography. Stress is placed on therapeutic advances in the field of neurology. Each graduate student also is expected to participate in at least one project, either in the research laboratory, electroencephalographic laboratory, or in one of the clinical research projects. Library research in the divisional library or in the main Medical Library is assigned on special topics for presentation

at the weekly rounds and seminars. By special arrangement, graduate students may participate as teaching assistants in the undergraduate course of neuroanatomy presented each fall term. In addition, there are many optional opportunities in the clinical field, such as seeing patients on the neurosurgical service, both in the hospital and outpatient department, attending the annual graduate courses in neuropsychiatry, ophthalmology, the tumor conferences, clinical pathological and roentgenological conferences, and luetic clinic.

Additional training may be arranged for those who have shown special aptitude in the initial clinical work and whose interest in organic neurology justifies their consideration for extra training in this specialized field. Thus, exchange residencies for six-month periods may be arranged with the Departments of Psychiatry (Langley Porter Clinic) and Neurological Surgery. Special fellowships for extra graduate training of from six months' to one year's duration, also, are available in such fields as neuropathology, electroencephalography, neuroanatomy, neurophysiology, and neurological research.

Courses for Professional Postdoctoral Students

- 250D-250E. Seminars on the Nervous System.** Aird and Garoutte
Required for first-year assistant residents in neurology at the Herbert C. Moffitt-University of California Hospitals. Presentation of selected subjects of neurological interest, followed by critical discussion by members of the staff and others. Conducted conjointly with the Department of Neurological Surgery.
- 250G-250H.** Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.
- 250J-250K.** Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.
I and II, Th, 7:30-9 p.m. (24 hours—1½ units each semester)
- 251D-251E. Combined Staff Conference, Neurology-Neurosurgery.**
Aird, Boldrey, and Staff
Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals. Trainees prepare case histories of patients and present them at combined Neurological-Neurosurgical Staff Conferences. Includes reference to literature, laboratory work, special studies, etc. Faculty members and visiting professors from other universities furnish discussions of new developments in their respective fields.
- 251G-251H.** Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.
- 251J-251K.** Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.
I and II, Th, 11-12. (16 hours—1 unit each semester)
- 252D-252E-252F. Neurological and Neurosurgical Pathology.**
Malamud, Boldrey, and Staff
Open to first-year assistant residents in Neurology, Herbert C. Moffitt-University of California Hospitals. Presentation and discussion of clinical histories and pathologic findings in selected cases of neurologic interest. Histopathologic study and discussion of surgical and post-mortem specimens from neurosurgical patients.
- 252G-252H-252I.** Open to second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

252J-252K-252L. Open to third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T., F, 5-6. (16 hours—1 unit each semester)

253* (—, —, —) **Research in Neuropathology.** Malamud and Staff
Available to the assistant resident in neurology, Herbert C. Moffitt—University of California Hospitals by special arrangement.
Pathologic or clinico-pathologic research into various aspects of neuropathology. Specific subject of research to be chosen in discussion with members of the staff.
I, II and S.T. (Hours and units to be arranged)

254D-254E. Clinical Electroencephalography. Aird, Garoutte, and Staff
Required for first-year assistant residents in Neurology, Herbert C. Moffitt—University of California Hospitals. Didactic presentation of the theory, technics and interpretation of electroencephalography. Presentation of problem encephalograms and correlation with clinical findings.

254G-254H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

254J-254K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
I and II, F, 11-12. (16 hours—1 unit each semester)

255D-255E-255F. Research in Electroencephalography.
Aird, Garoutte, and Staff
Available for first-year assistant residents in Neurology, by special arrangement, Herbert C. Moffitt—University of California Hospitals.
Clinical or basic research in various aspects of electroencephalography may be undertaken under supervision. Specific subject for research to be chosen in discussion with members of the staff.

255G-255H-255I. Available for second-year assistant residents by special arrangement, Herbert C. Moffitt—University of California Hospitals.

255J-255K-255L. Available to third-year assistant residents by special arrangement, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T. (Hours and units to be arranged)

256† (—, —, —). **Research in Neuroanatomy.**
Saunders, Hawkins and Garoutte
Available to assistant residents in Neurology by special arrangement, Herbert C. Moffitt—University of California Hospitals.
Clinical or basic research in various aspects of neuroanatomy under supervision. Specific subjects for research to be chosen in discussion with members of the staff.
I, II and S.T. (Hours and units to be arranged)

257‡ (—, —, —) **Research in Neurophysiology.**
Aird, Garoutte, and Staff
Available to assistant residents in Neurology, Herbert C. Moffitt—University of California Hospitals.

* Will be 253D-253E-253F, etc., depending upon the stage of training of the assistant resident registered for the course.

† Will be 256D-256E-256F, etc., depending upon stage of training of assistant resident registered for the course.

‡ Will be 257D-257E-257F, etc., depending upon stage of training of assistant resident registered for the course.

Clinical or basic research in various aspects of neurophysiology under supervision. At present the principal fields of interest are: epilepsy, multiple sclerosis and other degenerative diseases, electroencephalography, cerebrovascular permeability (blood-brain barrier), and human neurophysiological studies. Specific subject for research to be chosen in discussion with members of the staff.

I, II and S.T.

(Hours and units to be arranged)

450D-450E-450F. Clinical Work.

Aird, Macrae, and Staff

Required for first-year assistant residents in Neurology, Herbert C. Moffitt-University of California Hospitals.

Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. Opportunities are afforded for history-taking, neurological examination, laboratory tests, special diagnostic and therapeutic procedures, and consultation. Accredited to American Board of Neurology.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

I, II and S.T. (30 hours per week minimum) (10 units each semester)

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

I, II and S.T. (30 hours per week minimum) (10 units each semester)

451D-451E-451F. Instruction in Clinical Electroencephalographic Interpretation.

Aird, Garoutte, and Staff

Available to first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

Interpretation of electroencephalograms under supervision of experienced electroencephalographers. Trainees interpret electroencephalograms on patients they have seen clinically. Individual instruction available as required.

Instruction accredited by Board of Qualification of American Electroencephalographic Society.

451G-451H-451I. Available to second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

451J-451K-451L. Available to third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

I, II and S.T. (Hours and units to be arranged)

452D-452E-452F. Clinical Training in Electromyography.

Garoutte, Schiller, and Staff

Available to first-year assistant residents in neurology by special arrangement, Herbert C. Moffitt-University of California Hospitals.

The application of electromyography in the diagnosis of patients seen on the ward or in the Outpatient Department. Individual instruction as required.

452G-452H-452I. Available to second-year assistant residents by special arrangement, Herbert C. Moffitt-University of California Hospitals.

452J-452K-452L. Available to third-year assistant residents by special arrangement, Herbert C. Moffitt-University of California Hospitals.

I, II and S.T. (Hours and units to be arranged)

453G-453H-453I. Clinical Work in Psychiatry. Bowman, Simon, and Staff

Available to second-year assistant residents in neurology on an exchange residence basis by special arrangement with the Langley Porter Clinic.

Six months spent on the ward and/or in the Outpatient Department of the Langley Porter Clinic caring for psychiatric patients under the direction of the attending staff. Opportunity is afforded for history-taking, physical examination, laboratory tests, special diagnostic and therapeutic procedures, and consultations.

Trainees attend rounds, lectures and seminars on clinical psychiatry and psychopathology and perform somatic and psychotherapy under supervision.

Accredited to the American Board of Psychiatry and Neurology.

453J-453K-453L. Available to third-year assistant residents in neurology, I, II and S.T. (30 hours per week minimum—10 units each semester)

454G-454H-454I. Clinical Neuropathology. Malamud

Available to second-year assistant residents in neurology, Herbert C. Moffitt—University of California Hospitals and Langley Porter Clinic, by special arrangement.

Six months or one year spent in the neuropathological laboratory of Langley Porter Clinic. Autopsies are performed and pathological studies of brains from neurological, neurosurgical, and psychiatric patients are conducted under supervision.

454J-454K-454L. Available to third-year assistant residents in neurology, Herbert C. Moffitt—University of California Hospitals, I, II and S.T. (30 hours per week minimum—10 units each semester)

455G-455H-455I. Clinical Work in Neurological Surgery. Boldrey, Adams, and Staff

Available for second-year assistant residents in neurology, Herbert C. Moffitt—University of California Hospitals, by special arrangement.

Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. Opportunity is afforded for history-taking, neurological examination, laboratory tests, special diagnostic and therapeutic procedures and consultations. Accredited for 6 months to the American Board of Neurology.

455J-455K-455L. Available for third-year assistant residents in neurology, Herbert C. Moffitt—University of California Hospitals, I, II and S.T. (30 hours per week minimum) (10 units each semester)

OBSTETRICS AND GYNECOLOGY

Instruction is given to students in the second and fourth years at the Herbert C. Moffitt—University of California Hospitals; in the third year, all instruction is given at the San Francisco Hospital. The work is required and includes lectures, laboratory courses, ward rounds, and practical work in the Outpatient Department, wards, and operating rooms.

Second Year. See Gynecology 106

Third Year. See Obstetrics and Gynecology 102A-102B and 107

Fourth Year. See Obstetrics and Gynecology 103, 104, 108 and 109.

Second Year

106. Gynecological and Obstetrical Pathology. Traut, Benson, King

Lectures and laboratory demonstrations in gynecological and obstetrical pathology. The work is presented in such a manner that the physiological functions of the female genital tract and their abnormalities are used as the point of departure and the natural history of disease processes are then unfolded with the embryological and clinical implications as a background.

II, W, 2-4. (32 hours—2 units)

Third Year**102A-102B. Obstetrics and Gynecology.**

Traut and Staff

The theory and principles of obstetrics and gynecology are presented in a series of lectures covering the physiology and pathology of pregnancy, labor, and the puerperium; and the etiology, pathology, diagnosis, and treatment of the diseases of the pelvic structures.

I and II, Th, 11, S, 9.

(64 hours—2 units each semester)

107. Section Work.

King, Hill, Nelson

Instruction in the technique of pelvic examination, mensuration, history-taking, and the prenatal care of obstetrical patients. In gynecology, instruction in physical examination of women patients and the diagnosis and treatment of disease are presented by means of demonstrations and ward rounds. During this year, the emphasis is put upon the technique of examination with reference to both obstetrical and gynecological patients.

I, M, 9-11, 1-4; Tu, 9-11; W, 9-12; Th, 9-11, 2-4; F, 9-12, 2-4.

II, M, 9-11, 1-4; Tu, 9-11, 2-4; W, 9-12; Th, 9-11, 2-4; F, 9-11, 1-4. (For students assigned to this section.)

(40 hours—1 unit)

Fourth Year**103. Section Work.**

Traut and Staff

Major Practical Obstetrics and Gynecology. This course comprises the main portion of the practical work in obstetrics and gynecology and is the sequel to the more theoretical instruction offered to the third-year students. It includes the prenatal care of many patients, attending them in labor and their delivery, as well as following them in the puerperium. In addition, the fourth-year student is given facilities to examine gynecological patients in the Outpatient Department as well as in the wards of the hospital and under anesthesia, and to follow them through diagnostic and therapeutic procedures.

I and II, M, 9-1, 2-4; Tu, 9-1, 2-4; W, 10-1; Th, 9-1, 2-4; F, 9-1, 2-4. (For students assigned to this section.)

(132 hours—4 units)

104. Gynecological Endocrinology.

Page

A well-integrated course of lectures and demonstrations will be given covering the hormonology peculiar to women and particularly to reproduction.

I, S, 10.

(16 hours— $\frac{1}{2}$ unit)**108. Gynecology and Obstetrics, Practical Considerations.**

Traut and Attending Staff

Practical considerations. Every effort will be made to assist the student to think in practical terms of diagnosis, therapy, and management of patients.

I, W, 3-5.

(32 hours—1 unit)

109. Manikin Exercises. (For students enrolled in 103)

Page, McCann, Payne, Anderson

Six two-hour demonstrations are given each group of fourth-year students. These cover normal and abnormal presentations, as well as the normal mechanism of labor, instructional delivery, version and extraction; and destructive operations.

Tu, 1-3.

(Credit included in 103)

Postdoctoral Training

The postgraduate (house staff) training program in Obstetrics and Gynecology at the Herbert C. Moffitt-University of California Hospitals has developed as a result of long study and experience. Its aim is to furnish highly trained individuals for the specialty of obstetrics and gynecology. A subsidiary purpose is met by the offering of one-year rotating and mixed internships designed either to give basic experience in the field of physicians

contemplating general practice or other specialty practice, or to give initial broad medical contacts to physicians intending to continue further training in the specialty of obstetrics and gynecology.

Each year a number of rotating and mixed interns are appointed on a one-year basis. Their training is given in the Herbert C. Moffitt-University of California Hospitals. Assistant residency training is offered for a period of three to four years, but all appointments are made for a period of one year only and reappointments are made on the basis of the individual's ability and performance. A year of internship, either rotating or straight, is a prerequisite to appointment at the assistant resident level. Frequently the vacancies at this level are filled from the previous year's intern groups, but occasional vacancies will be filled by qualified individuals from elsewhere. All applicants for assistant resident positions must be eligible for licensure in the State of California. The training in these positions is carried on not only at the hospitals mentioned above but also at the San Francisco Hospital. Two senior assistant residents from this group are selected each year to serve as resident at this hospital. One individual from the assistant resident group is selected, after a total of four or five years of house staff training, to serve as senior resident for the Herbert C. Moffitt-University of California Hospitals.

The house staff member is given every opportunity not only to obtain practical experience and instruction in the care of patients in the field of obstetrics and gynecology, but also to work in related fields of pathology and to engage in various research projects. Further to augment the training, seminars covering selected subjects are held specifically for the house staff throughout the year as well as staff journal club meetings, staff conferences, and pathology seminars.

Courses for Professional Postdoctoral Students

250D-250E. Staff Conference.

Traut and Staff

Required for first-year assistant residents at Herbert C. Moffitt-University of California Hospitals. Students to attend formal discussions of aspects of the field presented by Staff Members, Clinical Staff Members, visiting lecturers, etc. Includes references to the literature, special case reports, and other special studies.

250G-250H. Required for second-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

250J-250K. Required for third-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

250X-250Y. Required for the resident at Herbert C. Moffitt-University of California Hospitals.

I and II, Tu, 10-11.

(16 hours—1 unit each semester)

251D-251E-251F. Surgical Pathology Seminar.

Traut and Staff

Required for first-year assistant residents at Herbert C. Moffitt-University of California Hospitals. Presentation of pathological material from the obstetrical and gynecological service. Formal instruction in the pathological findings and discussion thereof in relation to clinical cases.

251G-251H-251L. Required for second-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

251J-251K-251L. Required for third-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

251X-251Y-251Z. Required for the resident at Herbert C. Moffitt-University of California Hospitals.

I, II and S.T., Tu, 4-5

(16 hours—1 unit each semester)

252D-252E-252F. House Staff Seminar.

Traut and Staff

Required for first-year assistant residents at Herbert C. Moffitt-University of California Hospitals. Formal instruction in certain aspects of the field of obstetrics and gynecology deemed to be of special importance in the training of postdoctoral students in this field. Formal lectures by staff members with seminar discussion of the material presented.

252G-252H-252I. Required for second-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

252J-252K-252L. Required for third-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

252X-252Y-252Z. Required for the resident at Herbert C. Moffitt-University of California Hospitals.

I and II, Th, 4-6.

(32 hours—2 units each semester)

448. Clinical Work.

Traut and Staff

Three months assignment to this department is required for rotating intern at Herbert C. Moffitt-University of California Hospitals. The course includes care of obstetrical and gynecological patients in the wards, Outpatient Department, delivery rooms and operating rooms, history-taking, physical examinations, laboratory work, medical and surgical treatment, chart indexing and statistical study, and reference to the literature consultations for other services.

I, II and S.T.

(30 hours—7½ units)

449. Clinical Work.

Traut and Staff

Six months assignment to this department is required for mixed interns at Herbert C. Moffitt-University of California Hospitals. The course entails the care of obstetrical and gynecological patients in the wards, Outpatient Department, delivery rooms and operating rooms of the hospitals, history-taking, physical examinations, laboratory work, medical and surgical treatment, chart indexing and statistical study, reference to the literatures, consultations for other services.

I, II and S.T.

(30 hours—15 units)

450D-450E-450F. Clinical Work.

Traut and Staff

Required for first-year assistant residents at Herbert C. Moffitt-University of California Hospitals. Entails the care of obstetrical and gynecological patients in the wards, Outpatient Department, delivery rooms, and operating rooms of the hospitals. History-taking, physical examinations, laboratory work, medical and surgical treatment, chart indexing and statistical study, reference to the literature, consultations for other services.

450G-450H-450I. Required for second-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

450J-450K-450L. Required for third-year assistant residents at Herbert C. Moffitt-University of California Hospitals.

450X-450Y-450Z. Required for the resident at Herbert C. Moffitt-University of California Hospitals.

I, II and S.T.

(30 hours per week minimum—10 units each semester)

451G-451H-451I. Clinical Work.

Traut and Staff

Required for second-year assistant residents at San Francisco Hospital. Entails the care of obstetrical and gynecological patients in the wards, Outpatient Department, Delivery Rooms, and Operating Rooms of the Hospital. History-taking, physical examinations, laboratory work, medical and surgical treatment, chart indexing and statistical study, reference to the literature, consultations for other services.

451X-451Y-451Z. Required for the resident, San Francisco Hospital.
I, II and S.T. (30 hours per week minimum—10 units each semester)

OPHTHALMOLOGY

Instruction in ophthalmology is given during the second, third, and fourth years.

Second Year. During the second semester of the second year, as part of Surgery 101, the students have three one-hour didactic lectures. These lectures review the anatomy of the eye and cover methods of examining the eye during routine physical examinations for evidence of disease or trauma. Neurology 102B: lectures on visual apparatus and section work in the Eye Clinic.

Third Year. During the second semester of the third year, as part of Surgery 102B, the students are given three one-hour didactic lectures which attempt to acquaint them more fully with trauma and infections of the eye. As part of Surgery 103A-103B, during both the first and second semesters, two-hour clinical seminars and demonstrations are presented each week for small groups of students. In addition to this there is section work in which the students are assigned patients for examination and history-taking.

Fourth Year. During the fourth year, as part of Surgery 105, instruction in basic medical ophthalmology and neuro-ophthalmology is given four hours, twice a week, to groups of six or seven students for two and two-thirds weeks for each group. In addition, selected cases which exhibit the most common eye syndromes are demonstrated and discussed with each group. During the summer months, facilities are available to the students for clinic and laboratory investigation.

The course in ophthalmology is intended to acquaint the medical student with the ophthalmological aspects of medicine which he should understand as a physician.

Fourth Year

101. Lectures and Clinical Demonstrations. Cordes and the Staff
Lectures and demonstrations covering the most common diseases of the eye.
II, Th, 8, second eight meetings. (8 hours— $\frac{1}{2}$ unit)

Postdoctoral Training

There are three appointments made each year for a three-year residency in ophthalmology contingent upon the work being satisfactory.

During the first semester of the first year, the resident devotes the morning to work in the Eye Clinic, and the afternoon to the study of the basic sciences including anatomy, histology, pathology, optics and visual physiology, and perimetry.

Didactic lectures are given every Monday and Wednesday late afternoon during the school year. A two-hour pathology course is given every Thursday afternoon as well as a two-hour external disease session. A one-hour physiological optics session is held each Tuesday late afternoon. These are continued throughout the residency. During the second semester of the first year, the afternoon is devoted to refraction which is under the supervision of the senior resident and the staff. Refraction is continued throughout the residency except for the period of the second year six months rotating between San Francisco County and Southern Pacific Hospitals as well as the second-year residency at Santa Clara County Hospital, or when assigned to special work in the various activities of ophthalmology.

In the second year, the three residencies are spent at outside hospitals, all of which offer additional surgery and outstanding opportunities in ophthalmoscopy and emergency care of eye injuries—a rotation program between San Francisco Hospital and Southern Pacific Hospital, and the third is spent at Santa Clara County Hospital.

During the third-year period, the residents are assigned to special work in the various phases of ophthalmology including pathology and bacteriology. Each resident takes his turn in being responsible for presentation of the Thursday morning conference. He is also responsible for assigned reviews of the literature. Examinations are given each year to make certain that the resident is acquiring the desired knowledge.

Opportunities and facilities for special research problems are made available to residents who show an aptitude for and interest in special eye problems.

Courses for Professional Postdoctoral Students

250D-250E. Ophthalmology Staff Conference. Cordes and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. During the first half hour of the Staff Conference, students prepare and present case histories of patients that are diagnostic and/or therapeutic problems. Includes laboratory work, special studies, and reference to literature. Faculty members and visiting doctors furnish discussion of these cases.

During the remaining hour, students present a prepared paper on the various subjects in Ophthalmology. The paper is discussed by the faculty members.

- **250G-250H.** Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250J-250K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250X-250Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, Th, 8:30-10.

(24 hours—1½ units each semester)

251D-251E. Specialty Seminars.

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Includes external disease clinic and conference; extra ocular muscle conference; ocular pathology course; refraction conference; funduscopy, physiological optics, and surgical case conference. Lecture, case presentation, discussion, and literature reading and reports. The various conferences are held weekly and all first-year assistant residents attend all conferences.

251G-251H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251J-251K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251X-251Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, M, Tu, W, Th (hours to be announced)

(24 hours—1½ units each semester)

450D-450E-450F. Clinical Work. Cordes and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Care of patients in the Outpatient Department (Eye Clinic) under the direction of the attending staff. Complete workup of eye patients, including refraction and consultation. Second Assistant to the Resident in Surgery.

450G-450H-450L. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals. In addition:

- 1) Assistant residents work on rotation at San Francisco Hospital, Southern Pacific Hospital, and Santa Clara County Hospital, under supervision of a University staff member.
- 2) Eye surgery performed under the direction of the attending staff,
- 3) Responsible for care of ward patients,
- 4) Consultative work.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

450X-450Y-450Z. Required for the resident, Herbert C. Moffitt-University of California Hospitals.

In addition, the third-year assistant residents and the resident are responsible for the following:

A. Administrative

- 1) Admission of patients to the hospital.
- 2) Liaison between faculty and house staff.
- 3) Scheduling of faculty consultations.
- 4) Scheduling all eye surgery at Herbert C. Moffitt-University of California Hospitals.
- 5) Responsibility for proper coding and correspondence regarding medical records.

B. Teaching

- 1) Student teaching on the wards.
- 2) Organization and presentation of cases at staff rounds under the direction of the faculty.
- 3) Consultative work on the wards and in the Outpatient Department.

C. Clinical

- 1) Perform eye surgery on Outpatient Department (Eye Clinic) patients under supervision of the attending staff.
- 2) Postoperative care of Eye Clinic Surgery cases.

I, II and S.T. (30 hours minimum per week—10 units each semester)

ORTHOPAEDIC SURGERY

Instruction in this department is carried on in the second, third, and fourth years.

Second Year. During the second year, as part of the work in Surgery 101, students have nine lectures, on the complete and purposeful examination for the recognition of many and varied conditions, now commonly seen in orthopaedic-surgical clinics, and on methods of diagnosis, with particular emphasis upon the physical examination of the bones and joints. No effort is made to focus the attention of the student on the details of orthopaedic surgery, but rather to present such information as should be in the permanent possession of every medical man, and to point out the everyday contact which this branch of surgery has with medicine and surgery as a whole.

Third Year. Instruction in orthopaedic surgery is continued during the third year in connection with Surgery 102A and 102B and Surgery 103A and 103B. During the former course, Surgery 102A and 102B, lectures and demonstrations are presented and are devoted to the pathology of the fracture and its healing processes, the complications of fractures, and the principles of treatment with emphasis upon the anatomical features of treatment. During the course, Surgery 103A and 103B, section work, the student is assigned to the Emergency Hospital for approximately eight days. He has an opportunity to see the acute fracture cases and to follow such cases to reduction and subsequent treatment.

Fourth Year. Instruction in orthopaedic surgery is given in the Orthopaedic Surgical Clinic as part of the fourth-year section work, Surgery 105. Weekly ward rounds are held with the students assigned to the Orthopaedic-Surgical Clinic to discuss service patients and special subjects. In the second semester, Surgery 107B, students have four one-hour lectures on pathology of bone. The orthopaedic part of Surgery 105 includes approximately two and two-thirds weeks in the Herbert C. Moffitt-University Hospitals and Outpatient Department.

See Surgery 101.

Second Year

Third Year

See Surgery 102A-102B and 103A-103B.

Fourth Year

101. Lectures and Clinical Demonstrations.

Abbott and Staff

Lectures, planned to acquaint the student with the diagnosis and treatment of congenital deformities, acquired deformities and infections and degenerative affections of the musculo-skeletal system.

I, Th, 8.

(16 hours—1 unit)

See also Surgery 105 and 107B.

Postdoctoral Training

The Department of Orthopaedic Surgery has thirteen resident staff positions which are open to graduates of approved schools, who have completed a rotating internship and one year's assistant residency in general surgery or its equivalent.

A liaison has been established between the Herbert C. Moffitt-University of California Hospitals and the following: in San Francisco—the Children's Hospital, the San Francisco Hospital, the Shriners' Hospital, and the Franklin Hospital; in Oakland—the Samuel Merritt Hospital and the Children's Hospital of the East Bay. By utilizing these hospitals the bed capacity for teaching is approximately 392 beds. Residents are rotated through these various hospitals where they are trained for a period of three years in adults' and children's orthopaedic surgery and in the treatment of fractures. The program also includes formal training in basic sciences consisting of anatomy, pathology of bone, physiology, and biochemistry throughout the entire three-year period. The latter are given in the form of weekly seminars, clinicopathological conferences and departmental pathological conferences. Anatomical material is available for dissections. Histological sections and gross specimens are available for study.

In the postgraduate training program of the Department of Orthopaedic Surgery, a very close coöperation has been developed with the Departments of Anatomy and Pathology. An Anatomico-Pathological Laboratory has been established within the Department of Anatomy for the teaching of anatomical aspects of orthopaedic surgery and pathology of bone. This laboratory is also used for undergraduate teaching.

Formal orthopaedic rounds are held once a week in rotation at the Herbert C. Moffitt-University of California Hospitals, the Shriners' Hospital, the Children's Hospital, the San Francisco Hospital, and the Franklin Hospital. In addition, weekly meetings of the clinical staff are held in the Orthopaedic-Surgical Clinic to discuss problem cases.

Three of the thirteen resident staff positions are available at the Herbert C. Moffitt-University of California Hospitals. Training includes adult orthopaedic surgery, fractures, and children's orthopaedic surgery.

First Year. The resident serves for 5 full days, weekly, in the Orthopaedic Surgical Clinic where he carries out duties relative to patient care. In addition, he attends organized rounds and clinics in the Herbert C. Moffitt-University of California Hospitals and the affiliated hospitals.

Second Year. The resident is assigned to inpatient service and works up both clinic and private admissions. He is responsible for management, under supervision, of the clinic surgery and assists staff with private cases. He attends the specially organized rounds and clinics in the Herbert C. Moffitt—University of California Hospitals and the affiliated hospitals.

Third Year. Residents follow a training program similar to that of the second year with increasing responsibility in all phases of the work with respect to teaching, consultations, selection of cases for surgery, supervision of the outpatient clinics, and organization of conferences.

First-, second-, and third-year residents in all eight hospitals register in the postdoctoral courses listed below as part of their requirements.

Courses for Professional Postdoctoral Students

- 250D–250E. Seminar in Orthopaedic Literature.** Abbott and Lucas
Required for first-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals. A seminar on classical and current literature relating to assigned orthopaedic subjects and presented in report form before the orthopaedic residents and evaluated by members of the faculty.
- 250G–250H.** Required for second-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals.
- 250J–250K.** Required for third-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals.
I and II, Tu. 2–3. (16 hours—1 unit each semester)
- 250M–250N.** Required for fourth-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals.
- 251D–251E–251F. Orthopaedic Surgical Conference.** Abbott and Staff
Required for first-year assistant residents of the Herbert C. Moffitt—University of California Hospitals. Problem surgical cases presented by residents for consideration of diagnosis and treatment. Correlation of present-day surgical treatment and end-result studies. Includes literature review, gross and microscopic pathology and laboratory work.
- 251G–251H–251I.** Required for second-year assistant residents of the Herbert C. Moffitt—University of California Hospitals.
- 251J–251K–251L.** Required for third-year assistant residents of the Herbert C. Moffitt—University of California Hospitals.
I, II and S.T., F, 11–12. (16 hours—1 unit each semester)
- 251M–251N–251O.** Required for fourth-year assistant residents of the Herbert C. Moffitt—University of California Hospitals.
- 252D–252E. Lectures in Bone Pathology.**
Abbott, Anderson, Baker, and Raney
Required for first-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals. Lectures, illustrated with microscopic slides and case studies, relating to bone tumors and other disease entities of the musculo-skeletal system.
- 252G–252H.** Required for second-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals.
- 252J–252K.** Required for third-year assistant residents of the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals.
I and II, Tu, 3–4. (16 hours—1 unit each semester)

252M-252N. Required for fourth-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

253D-253E. Demonstrations in Functional Anatomy.

Abbott, Jameson, and Saunders

Required for first-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals. Lectures and demonstrations by students and faculty. Includes surgical approaches to the joints and long bones, muscle function and joint physiology.

253G-253H. Required for second-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

253J-253K. Required for third-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

I and II, Tu, 4-5.

(16 hours—1 unit each semester)

253M-253N. Required for fourth-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

254D-254E. Staff Rounds.

Abbott and Staff

Required for first-year assistant residents. Herbert C. Moffitt-University of California Hospitals and affiliated hospitals. Set rounds conducted in the various hospitals with literature, review, pathology and laboratory studies and case presentation by the residents to illustrate selected subjects. Supervision and discussion by members of the faculty.

254G-254H. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

254J-254K. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

I and II, S, 8-9.

(16 hours—1 unit per semester)

254M-254N. Required for the fourth-year assistant residents of the Herbert C. Moffitt-University of California Hospitals and affiliated hospitals.

450D-450E-450F. Clinical Work.

Abbott and Staff

Required for first-year assistant residents, Herbert C. Moffitt University of California Hospitals, Children's Hospital, Franklin Hospital, Shriners' Hospital, Samuel Merritt Hospital, and the Children's Hospital of the East Bay. Responsibility for patient care in the wards and Outpatient Department under the direction of the attending staff. History-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster technique, and consultations.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals, Children's Hospital, Franklin Hospital, Shriners' Hospital, Samuel Merritt Hospital, and the Children's Hospital of the East Bay.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt University of California Hospitals, Children's Hospital, Franklin Hospital, Shriners' Hospital, Samuel Merritt Hospital, and the Children's Hospital of the East Bay.

I, II and S.T.

(30 hours per week minimum—10 units each semester)

450M-450N-450O. Required for fourth-year assistant residents of the Herbert C. Moffitt-University of California Hospitals, Children's Hospital, Franklin Hospital, Shriners' Hospital, Samuel Merritt Hospital and the Children's Hospital of the East Bay.

451D-451E-451F. Clinical Work.

Abbott and Staff

Similar to 450D, 450E, 450F, but required for first-year assistant residents at the San Francisco Hospital.

451G-451H-451I. Required for second-year assistant residents, San Francisco Hospital.

451J-451K-451L. Required for third-year assistant residents, San Francisco Hospital. (30 hours per week minimum—10 units each semester)
I, II and S.T.

451M-451N-451O. Required for fourth-year assistant residents at the San Francisco Hospital.

452D-452E-452F.

Abbott and Staff

Required for first-year assistant residents of the Veterans Hospital, Fort Miley. Responsibility for patient care in the Orthopaedic-Surgical Clinic of the Herbert C. Moffitt-University of California Hospitals, one morning each week under the direction of the attending staff. History-taking, physical examinations, laboratory tests, elective surgery, fracture treatment, plaster technique, and consultations.

452G-452H-452I. Required for second-year assistant residents of the Veterans Hospital, Fort Miley.

452J-452K-452L. Required for third-year assistant residents of the Veterans Hospital, Fort Miley.

452M-452N-452O. Required for fourth-year assistant residents of the Veterans Hospital, Fort Miley.
I, II and S.T. (3 hours per week minimum—1 unit each semester)

OTORHINOLARYNGOLOGY

Instruction in this department is given in the second, third and fourth years as part of Surgery 101, 102A-102B, 103A-103B and 105, including lectures and demonstrations concerned with physical examination and diseases of the ear, nose, and throat. In addition, a series of lectures is given in the fourth year.

Second Year. In Surgery 101, there are two lectures on introduction to methods for examination of the ear, nose, throat and tracheobronchial tree.

Third Year. In Surgery 102A-102B, five lectures are given, a system presentation of the anatomy of the area with particular emphasis upon infection and trauma. Also in the third year, under Surgery 103A-103B, the students are required to familiarize themselves with the routine methods of examination of the ear, nose, and throat. They are assigned patients and are examined as to their findings and proficiency in observation and technic. A variety of cases are covered in this manner.

Fourth Year. In Surgery 105, students in the surgical section rotate in the Nose and Throat Clinic.

Fourth Year

101. Lectures and Clinical Demonstrations.

Morrison and Staff

A series of lectures and demonstrations concerned with diseases of the ear, nose, and throat.

II, Th, 8, first eight meetings.

(8 hours— $\frac{1}{2}$ unit)

Postdoctoral Training

The Otolaryngology Service comprises three years of postgraduate training, consisting of two years in assistant resident status, and one year in resident status. (One year of approved assistant residency in general surgery or thoracic surgery is acceptable in lieu of one of the three years' training in Otorhinolaryngology.) The basic science instruction is given in conjunction with the

residency training. The resident staff comprises six members, consisting of three assistant residents, one research fellow, and two residents.

Instruction is divided between the Outpatient Department, the hospital service, and surgery. In addition to this, a series of didactic lectures covering the clinical aspects of Otolaryngology are given in the evenings. This totals 180 lecture hours of instruction. A formal course of 32 hours of instruction is given in head and neck anatomy by the Department of Anatomy. Thirty-two hours of formal instruction in ear, nose and throat pathology is given by the Division of Pathology. In addition, at least one hour each week is spent in reviewing the current ear, nose, and throat pathology. These conferences are conducted by the Otorhinolaryngology staff.

The residents receive instruction in the interpretation of X rays and are required to observe and contribute to the phases of radiation therapy which apply to otolaryngology. A short course in the technique of endoscopy is given. This includes cadaver work. Six weeks of didactic instruction and dissection are given each year in temporal bone anatomy, endaural surgery, and fenestration surgery. Otolaryngology maintains a laboratory for the collection and preparation of temporal bone sections including normal and pathological specimens. All members of the resident staff are required to familiarize themselves thoroughly with the microscopic anatomy of the temporal bone. The residents are permitted and invited to participate in the active phases of the investigative and research work carried out by members of this department. The scope of the problem and the ability of the individual determine whether the problem is assigned for individual or group work. A bimonthly Journal Club meeting is held under the direction of a faculty member.

Two years of the three-year period are spent at the University of California Hospital and San Francisco Hospital. The third year is divided into two six-month periods in other hospitals in San Francisco, where the Otolaryngology services are under the immediate direction of University faculty members.

Courses for Professional Postdoctoral Students

250D-250E. Didactic Lectures.

Morrison and Staff

Required for first-year assistant resident, Herbert C. Moffitt—University of California Hospitals. Lectures cover the anatomical, physiological and clinical aspects of Otolaryngology.

250G-250H. Required for second-year assistant residents, San Francisco Hospital and Southern Pacific Hospital.

250X-250Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II, 7-9 p.m. (Day to be announced) (32 hours—2 units each semester)

251D or 251E. Gross Anatomy of the Head and Neck.

Morrison, Saunders and Staff

Required for first-year assistant resident, Herbert C. Moffitt—University of California Hospitals. Given by the Department of Anatomy. Laboratory fee, \$25. A formal course in the anatomy of the head and neck.

251X or 251Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I, Th, 4-5 p.m.; II, S, 1-2 p.m. (32 hours—1 unit each semester)

252D. Ear, Nose, and Throat Histology and Pathology.

Morrison and Staff

Required for first year assistant resident, Herbert C. Moffitt—University of California Hospitals. The course is given once in each three-year period. At least one hour per week is spent in a review of current ear, nose and throat pathology by the otolaryngology and pathology staffs.

252X. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I, (Hours to be arranged). 16 hours— $\frac{1}{2}$ unit each semester)

253D-253E-253F. Staff Rounds.

Morrison and Staff

Required for first-year assistant resident, Herbert C. Moffitt—University of California Hospitals. Morning rounds, systematic and organized. Seminars on Ear, Nose and Throat Ward with discussion of current problems concerning the diagnosis and management of patients, with references to the current literature, modern theory, and controversial aspects.

253G-253H-253I. Required for second-year assistant residents, San Francisco Hospital. Rounds at San Francisco Hospital.

253X-253Y-253Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (40 hours—2 units each semester)

I, II and S.T., M, Tu, W, Th, F, 7:30-8 a.m.

254D. Audiology Conference.

Morrison and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Consideration of various methods of evaluation of hearing, presentation of case reports, and clinical experience with audiometric equipment. Discussion of modern developments and modern research findings.

254X. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (16 hours—1 unit each semester)

I, F, 8-9 a.m.

255E. Tumor Conference in Otolaryngology.

Morrison and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Presentation of patients, study of histories and discussion as to the treatment of the patient, in the light of modern progress in the field.

255Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (16 hours—1 unit each semester)

II, F, 8-9 a.m.

256D or 256E. Animal Bronchoscopy.

Morrison and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Conducted at the Laboratory of Experimental Surgery. Experimental investigation and formal discussion of surgical problems, and development of technical and laboratory methods to be applied in surgery. A laboratory course.

256X or 256Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (16 hours— $\frac{1}{2}$ unit each semester)

I or II to be arranged, Th, 3-4 p.m.

257D-257E-257F. Surgical Pathology.

Morrison and Staff

Required for the first-year assistant resident, Herbert C. Moffitt—University of California Hospitals. Case reports and demonstrations of currently available gross and microscopic surgical pathological material from the operating rooms and pathology laboratories. A laboratory course.

257G-257H-257I. Required for the second-year assistant residents, Southern Pacific Hospital.

257X-257Y-257Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (16 hours— $\frac{1}{2}$ unit each semester)

I, II and S.T. (elective), W, 6-7 p.m.

258D or 258E. Temporal Bone Anatomy and Pathology.

Morrison, Saunders and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Conducted in the Ear, Nose and Throat Pathology Laboratory where all members of the resident staff are required to familiarize themselves thoroughly with the microscopic anatomy of the temporal bone, under formal staff instruction. A laboratory course.

258X or 258Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (16 hours— $\frac{1}{2}$ unit each semester)
I or II (to be announced), Th, 2–3 p.m.

450D–450E–450F. Clinical Work.

Morrison and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. History-taking, physical examination, laboratory tests, and consultations. Assisting in surgery, pre- and postoperative care of patients. Also, minor surgery, audiometry, and vestibular testing. Includes clinical-pathological conferences.

450G–450H–450I. Required for second-year assistant residents, Southern Pacific Hospital and San Francisco County Hospital.

450X–450Y–450Z. Required for the resident, Herbert C. Moffitt—University of California Hospitals. In addition, the resident is responsible for the following:

A. Administrative

1. Admission of patients to the Hospital with provision for adequate clinical material for the House Staff and Medical Students.
- 1a. Control of Hospital teaching beds.
2. Correlation of clinical material between the teaching facilities and various research programs.
3. Liaison between faculty members and members of the House Staff.
4. Scheduling of faculty consultants for teaching wards.
5. Responsibility for proper coding and correspondence regarding medical records.

B. Teaching

1. Weekly Resident's rounds with the House Staff.
2. Organization and presentation of seminars for senior students.
3. Consultative work in the Outpatient Department.

C. Clinical

1. Care of Hospital patients on the Student Health Service.

I, II and S.T. (30 hours a week minimum—10 units each semester)

451D–451E. Technique of Endoscopy.

Morrison and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. This course involves a study of the techniques of endoscopy and some practical laboratory study, including cadaver work.

451G–451H. Required for second-year assistant residents, Southern Pacific Hospital and San Francisco Hospital.

451X–451Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals.

I and II (Hours to be arranged). (40 hours—1 unit each semester)

PATHOLOGY

Instruction in pathology is conducted at the University of California School of Medicine, Herbert C. Moffitt—University of California Hospitals, the San Francisco Hospital, and affiliated hospitals.

Second Year

101. General and Systemic Pathology.

Moon, Bostick, Lindsay, Perry, Toreson, and Staff

The course consists of lectures, laboratory work and seminars on fundamental principles of general and systemic pathology. Particular emphasis is given to abnormal morphology as it relates to abnormal function in various diseases. Lectures are used primarily to correlate changes in cells, organs, tissues, and systems in diseases with the specific manifestations of abnormal function and to introduce important recent advances. Gross pathology is taught with fresh and museum specimens and by autopsies at the Herbert C. Moffitt—University of California Hospitals and affiliated hospitals. The laboratory work is based on collections of microscopic slides illustrating characteristic lesions. Seminars, held for small groups, include demonstrations of gross and microscopic pathology and discussion periods.

I, M Tu W Th, 9–12; F, 8–12.

(256 hours—8 units)

Third Year

102A–102B. Clinicopathological Conference.

Wellington, Brainerd, Snell, Sweet, and the Staff

A coöperative review of clinical pathological materials.

I and II, Tu, 11.

(32 hours— $\frac{1}{2}$ unit each semester)

107A–107B. Surgical Pathology.

Crane, Grimes, and Staff

Correlation between surgical diseases and their pathologic picture, with emphasis on the gross and microscopic morphology, including the pathogenesis of surgical disease.

I and II, S, 8.

(32 hours—1 unit each semester)

Fourth Year

104A–104B. Clinicopathological Conference.

Moon and Staff

I and II, W, 9.

(32 hours— $\frac{1}{2}$ unit each semester)

Electives

201. Research in Pathology.

Moon and Staff

Properly qualified graduates (or undergraduates, with the permission of the Dean) are accepted for the purpose of pursuing original investigations in pathological and allied subjects. Such students will be urged to participate in the routine activities of the department in order to further their knowledge of general pathology.

I and II.

(Hours and credit to be arranged)

202. Pathology from the Standpoint of Biochemical Abnormalities.

Greenberg, Moon, and Staff

A seminar course on the biochemical phenomena of disease with special emphasis on nutritional, endocrine, rheumatic, neoplastic, and degenerative diseases. So far as possible, structural, chemical, and functional alterations will be correlated.

I, W, 3.

(1 unit)

229A–229B. Pathology Seminar.

Moon and Staff

For properly qualified students, with the permission of the head of the Department. A weekly course consisting of two hours of demonstration and seminar discussion with critical reviews of the pertinent gross and micro-

scopic pathology material obtained currently from surgical and autopsy cases. Special topics presented, variable assignments made.

I and II, M, 1-3.

(32 hours—1 unit each semester)

Postdoctoral Training

The Department of Pathology has several resident staff positions available for young physicians interested in entering the field of pathology as a career. In addition, the department offers opportunities for study to members of the resident staff in other departments, including surgery and gynecology. The training received by the resident staff is adjusted to their particular needs and includes individual consultations with staff members, instruction and assistance at autopsies, studies of surgically removed tissues, weekly reviews of gross and microscopic material, participation in weekly clinical pathological conferences, attendance at the weekly seminars in pathology, and attendance at formal lectures in pathology.

Members of the resident staff are encouraged and aided in preparing interesting autopsy and surgical pathology material for presentation in the literature.

Courses for Professional Postdoctoral Students

250A-250B-250C. Pathology Staff Seminars.

Moon and Staff

This course is required of interns at the Herbert C. Moffitt-University of California Hospitals, San Francisco Hospital, and affiliated hospitals. The seminar is divided into two aspects, one portion covering the general review and presentation by the student of the autopsy material studied at the hospitals during the preceding week. The second half will be an analysis of the microscopic sections and histologic patterns of both autopsy material and surgical material passing through the laboratories during the preceding week. The student is expected to review the case history of the material and to present it in a scholarly and logical sequence. References to the literature are expected together with special case studies as indicated. Part of the conference will be concerned with consideration of specific disease entities. Faculty members will discuss aspects of the material and will present their own cases. Distinguished and visiting professional men in pathology will be present at these seminars from time to time.

250D-250E-250F. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals, San Francisco Hospital, and affiliated hospitals.

250G-250H-250L Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals, San Francisco Hospital, and affiliated hospitals.

250X-250Y-250Z. Required for the resident, Herbert C. Moffitt-University of California Hospitals, San Francisco Hospital, and affiliated hospitals.

I, II, and S.T., M, 1-3.

(32 hours—2 units each semester)

251A-251B. Clinico-Pathological Conference.

Moon and Chairmen of Clinical Departments

This is required for interns at the Herbert C. Moffitt-University of California Hospitals. The data and materials for the conferences are to be collected by the students, the histories summarized, and pertinent literature cited for review by a member of the faculty. The students will participate in the presentations at the clinico-pathological conferences where emphasis will be placed on correlating the clinical manifestations of disease with clinical laboratory and autopsy findings.

251D-251E. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251G-251H. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251X-251Y. Required for the resident, Herbert C. Moffitt-University of California Hospitals. (16 hours—1 unit each semester)
I and II, W, 11-12.

252A-252B. Specialty Pathology Seminars.

Abbott, Boldrey, Cordes, Deamer, Moon,
Torrey, Traut, Wood and Staffs

This course which is required for interns at the Herbert C. Moffitt-University of California Hospitals is composed of a series of seminars with emphasis upon the pathology of different special areas of the body. Seminars are under the direction of specialists in the particular fields under discussion, and the students participate not only by presenting material but by reviewing the literature and entering actively into the discussion. Autopsy material will be reviewed as well as surgical material where pertinent. From time to time case summaries and reports are expected. A general correlation between the clinical aspects of the disease and the gross and microscopic findings are emphasized. All sessions are attended by members of the faculty who present not only their own material and opinions but are present to guide the development of the students.

252D-252E. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

252G-252H. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

252X-252Y. Required for the resident, Herbert C. Moffitt-University of California Hospitals.
I and II. (Hours and units to be arranged)

253A-253B-253C. Pathology Research. Moon and Staff

This is an elective course for interns at the Herbert C. Moffitt-University of California Hospitals. Students are accepted for the purpose of pursuing original investigation in pathology and allied subjects. The student is under the direct supervision of a member of the Staff who is particularly interested in the field of study that the student wishes to pursue. The student will review the literature, make observations, collect data and be encouraged to make original contributions to knowledge. He will participate in Pathology 202 and will be expected to correlate physiological-pathological concepts in his field of study.

253D-253E-253F. Elective for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

253G-253H-253I. Elective for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

253X-253Y-253Z. Elective for the resident, Herbert C. Moffitt-University of California Hospitals.
I and II. (Hours and units to be arranged)

256D-256E. Clinico-Pathological Conference. Carr, Brainerd, and Staff

This is required for first-year assistant residents at the San Francisco Hospital. The data and materials for the conferences are to be collected by the students, the histories summarized, and pertinent literature cited for review by a member of the faculty. The students will participate in the presentations at the clinico-pathological conferences where emphasis will be placed on correlating the clinical manifestations of disease with clinical laboratory and autopsy findings.

256G-256H. Required for second-year assistant residents, San Francisco Hospital.

256X-256Y. Required for the resident, San Francisco Hospital.
I and II, Tu, 11-12. (16 hours—1 unit each semester)

450A-450B-450C. Anatomical Pathology. Moon and Staff
Required for interns, Herbert C. Moffitt—University of California Hospitals. This is the basic course for graduate students of pathologic anatomy. The material for study will consist of pathologic material derived from surgical and post-mortem cases examined by the Pathology Service at the Herbert C. Moffitt—University of California Hospitals. Under the supervision of the senior members of the staff, the student will gain practical experience in the application of appropriate methods of gross examination and dissection, obtaining of appropriate samples for microscopic study, selection of stains, frozen section technique, study of pertinent literature, and interpretation of pathologic data. He is expected to become reasonably proficient in the methodology of pathologic anatomy. Attendance at lectures in pathology for undergraduate students and participation in the teaching of the undergraduate students is encouraged. (This course is not to be taken concurrently with Clinical Pathology 451.)

***450D-450E-450F.** Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. This course is open to graduate students who have successfully completed the basic course (450A-450B-450C) or its equivalent, and show promise in the field of pathology. The student will be given increased opportunities for improving his proficiency in pathologic anatomy and will also be given increased responsibilities in the examination and diagnosis of pathologic specimens commensurate with his experience. He will be encouraged to engage, to a limited extent, in research and special studies in collaboration with senior members of the faculty. He will also be expected to participate in teaching of students.

***450G-450H-450I.** Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals. For this course students must have demonstrated their capability for continued advancement in their appreciation and knowledge of pathologic anatomy and considerable promise as teachers and investigators.

***450X-450Y-450Z.** Required for the resident, Herbert C. Moffitt—University of California Hospitals. This course may be taken only by those who have successfully completed courses 450ABC, 450DEF, 450GHI or their equivalents, and who have shown their ability for a career in pathology. In addition to continued studies in pathologic anatomy, the student will be expected to assume increased responsibilities in teaching. Certain administrative responsibilities are delegated to him, including supervision of graduate students and technical personnel in hospital pathology, planning for clinicopathological conferences (e.g., review of pathologic material and pertinent records, and notification of the faculty members who are to participate). He codes the material for proper indexing and is responsible for reference files of pathologic specimens. The resident actively participates in teaching and frequently acts as a liaison between the students and members of the faculty.
I, II, and S.T. (30 hours per week minimum—10 units each semester)

451A-451B-451C. Clinical Pathology. Moon, Bostick, and Staff
Required for interns at the Herbert C. Moffitt—University of California

* May substitute Pathology 253 course for one year only.

Hospitals. This course is the basic course in professional training for clinical pathology. The student will participate actively in the technical and professional aspects of chemical, serological, and hematological studies. All phases of clinical pathology will be reviewed, including applied bacteriology, urinary studies, applied biochemistry, and specific types of functional tests. The student will rotate through each of the above disciplines in order to become thoroughly familiar with the techniques. During the period of study the student will be under the guidance of a senior member of the staff for training in the interpretation of data. After attaining reasonable proficiency in techniques and interpretations he will be permitted to assist in advising the clinical staff in the proper selection and interpretation of tests. He will attend the departmental meetings of the technical staff of the laboratories in order to understand more adequately the technical and administrative problems. He will study the literature and engage actively in discussions of clinico-pathologic data in small seminar groups. (This course is not to be taken concurrently with Anatomical Pathology 450.)

451D-451E-451F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

451G-451H-451I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

451X-451Y-451Z. Required for residents, Herbert C. Moffitt—University of California Hospitals.

I, II and S.T. (30 hours each week minimum—10 units each semester)

452D-452E-452F. Anatomical Pathology. Carr and Staff

Required for first-year assistant residents at the San Francisco Hospital. This course is open to graduate students who have successfully completed the basic course (450A-450B-450C) or its equivalent, and show promise in the field of pathology. The student will be given increased opportunities for improving his proficiency in pathologic anatomy and will also be given increased responsibilities in the examination and diagnosis of pathologic specimens commensurate with his experience. He will be encouraged to engage, to a limited extent, in research and special studies in collaboration with senior members of the faculty. He will also be expected to participate in teaching of students.

452G-452H-452I. Required for second-year assistant residents, San Francisco Hospital. For this course students must have demonstrated their capability for continued advancement in their appreciation and knowledge of pathologic anatomy and considerable promise as teachers and investigators.

452X-452Y-452Z. Required for residents, San Francisco Hospital. This course may be taken only by those who have successfully completed courses 452 DEF and 452 GHI or their equivalents, and who have shown their ability for a career in pathology. In addition to continued studies in pathologic anatomy, the student will be expected to assume increased responsibilities in teaching. Certain administrative responsibilities are delegated to him, including supervision of graduate students and technical personnel in the pathology laboratory, planning for clinico-pathological conferences (e.g., review of pathologic material and pertinent records, and notification of the faculty members who are to participate). He codes the material for proper indexing and is responsible for reference files of pathologic specimens. The resident actively participates in teaching and frequently acts as a liaison between the students and members of the faculty.

I, II, and S.T. (30 hours per week minimum—10 units each semester)

PEDIATRICS

The teaching material of this department is drawn from the following sources: The Herbert C. Moffitt Hospital's Children's Ward and Outpatient Clinics, the San Francisco Hospital, and the contagious wards of the Children's Hospital.

Third Year. The third-year teaching program is conducted at the San Francisco Hospital. A series of 32 lectures is given on infectious diseases and pediatrics throughout the year. In addition to four weeks of section work with cases on the pediatric and isolation wards, seminars and conferences are scheduled throughout the year to include topics in these fields.

During the third year, a minimum of five pediatric cases are presented at the regular clinical pathological conferences.

Fourth Year. Section work is conducted over a period of approximately six weeks in the Children's Ward of the Herbert C. Moffitt Hospital and in the General and Special Pediatric clinics of the Outpatient Department. The latter include the Allergy, Endocrine, Chest, Cardiac and Well-Baby clinics. A student spends some of his time in each of these areas. On the wards as well as in the Outpatient Clinics, he is responsible for recording a complete history and physical examination which become part of the patient's permanent record. While working in the Outpatient Clinics, the student becomes a principal in the physician-patient relationship and has full use of whatever consultant, social service, and child guidance facilities may be needed.

Once a week a seminar conference is held, at which each student in turn discusses a case from the clinics or ward, chiefly from the social, economic, family, and mental health points of view.

Student teaching rounds are held twice a week on the Pediatric Ward of the Herbert C. Moffitt Hospital. The student also attends the weekly staff conferences of the Pediatric Department at the University and at Children's Hospital, at which cases of unusual interest are presented.

During the fourth year, there are sixteen required lectures and sixteen hours of case presentation by the students themselves.

102. Section Work.

Third Year

Olney, Bruyn, Grossman, Hurwitz, Potter, Tucker, Yeazell

Practical work, including ward teaching, case assignments, and procedure demonstrations.

II, M, 9-11, 1-4; Tu, 9-11, 2-4; W, 9-11; Th, 9-11, 2-4; F, 9-11, 1-4. (For students assigned to this section.) (50 hours—1½ units)

103A-103B. Lectures.

Olney, Bruyn, Shaw, Cohen, Deamer, Kempe, Hammond, Potter, Yeazell

Lectures and demonstrations on communicable diseases and basic pediatrics. I and II, W, 12. (32 hours—1 unit each semester)

Fourth Year

104. Section Work.

Grossman, Cohen, Deamer, Gofman, Hammond,
Kempe, Schade, Simpson, Smyth and Staff

Practical work in wards and Outpatient Department of the Herbert C. Moffitt Hospital, and in wards at Children's Hospital.

I and II, M, 9-1, 2-4; Tu, 9-12, 2-4; W, 10-1; Th, 9-1, 2-4; F, 9-1, 2-4. (For students assigned to this section.) (144 hours—4 units)

105A-105B. Amphitheater Lectures and Clinics.

Deamer

First semester, lectures on infant feeding, growth and development, and other topics. Second semester, cases from the ward presented by students for class discussion.

I and II, 8, 9.

(32 hours—½ unit each semester)

Postdoctoral Training

The Department of Pediatrics accepts six (four straight and two rotating) interns, eight assistant residents, and one resident for postdoctoral training. Applicants for straight internship have frequently completed one year of postdoctoral training before applying (such as a rotating internship) although this is not required. Applicants for an assistant residency must have complete at least one year of postdoctoral training in Pediatrics in an acceptable area of training.

The straight Pediatric Intern Service consists of five areas through which the intern rotates. Four of these areas are at the Herbert C. Moffitt—University of California Hospitals. These are the Hospital Pediatric Ward, the Children's Outpatient Clinic, the Newborn Nursery, and the Special Clinics (allergy, endocrine, chest, heart, and others). The fifth area is located at Children's Hospital where experience in communicable disease is obtained.

The Pediatric Resident Service at the Herbert C. Moffitt—University of California Hospitals takes place in seven areas. In the course of one year, an assistant resident is assigned to four of these areas. Five are at the Herbert C. Moffitt—University of California Hospitals, including the Hospital Pediatric Ward, the Outpatient Clinic, the Special Clinics, the Nursery, and the Mental Health Unit. The two remaining areas are at the Shriners' Hospital, where outpatient and ward orthopaedic problems of children are dealt with, and at the Franklin Hospital, a private hospital where both surgical and medical pediatric experience is obtained as well as experience in the Nursery and Rooming-In Unit for newborns and their mothers.

In addition to the above, two residents are appointed to the Pediatric Service and Communicable Disease Service at the San Francisco Hospital. Here they obtain a broad training in all types of pediatric care and contagious disease problems.

All appointments are for one year and afford opportunity for intensive supervised study and investigation in the field of General Pediatrics.

Courses for Professional Postdoctoral Students

250A-250B. Pediatric Staff Conferences. Deamer and Staff
Required for interns, Herbert C. Moffitt—University of California Hospitals. Students to prepare and present case histories of patients at Pediatric Staff Conferences. Includes reference to literature, laboratory work, special studies, etc. Faculty members and consultants from other departments and other universities furnish discussions of new developments in the respective fields.

250D-250E. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250G-250H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250J-250K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

250X-250Y. Required for the resident, Herbert C. Moffitt—University of California Hospitals. (24 hours—1½ units each semester)
I and II, Th, 9-10:30.

251A-251B-251C. Pediatric-Roentgenology Conferences. Steinbach and the Pediatric Staff
Required for interns, Herbert C. Moffitt—University of California Hospitals. Review and discussion of recent X-ray studies on pediatric cases on the ward and on the out-patient service.

251D-251E-251F. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251G-251H-251I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251J-251K-251L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251X-251Y-251Z. Required for the resident, Herbert C. Moffitt-University of California Hospitals. (24 hours—1½ units each semester)
I, II and S.T., M, W, F, 8:45-9:15.

252A-252B-252C. Pediatric Clinical Seminar. Deamer and Staff
Required for interns, Herbert C. Moffitt-University of California Hospitals. Review and discussion of selected cases of unusual interest, reports on special topics with review of recent literature, clinico-pathological conference on pediatric cases.

252D-252E-252F. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals and Shriners' Hospital.

252G-252H-252I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals and Shriners' Hospital.

252J-252K-252L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals and Shriners' Hospital.

252X-252Y-252Z. Required for the resident, Herbert C. Moffitt-University of California Hospitals. (24 hours—1½ units each semester)
I, II and S.T., Tu, 4-5.

448. Clinical Work. Deamer and Staff
Three months' assignment to this department is required for rotating interns at Herbert C. Moffitt-University of California Hospitals. The intern is responsible for the care of patients in the wards and Outpatient Department under the direction of attending staff, history-taking, physical examination, laboratory tests, diagnosis, and treatment of patients.
I, II and S.T. (30 hours—7½ units)

449. Clinical Work. Deamer and Staff
Six months' assignment to this department is required for mixed interns at Herbert C. Moffitt-University of California Hospitals. The intern is responsible for the care of patients in the wards and Outpatient Department under the direction of attending staff, history-taking, physical examinations, laboratory tests, diagnosis and treatment of patients.
I, II and S.T. (30 hours—15 units)

450A-450B-450C. Clinical Work. Deamer and Staff
Required for interns, Herbert C. Moffitt-University of California Hospitals. Responsibility for the care of patients in the wards and Outpatient Department under the direction of attending staff. History-taking, physical examination, laboratory tests, diagnosis and treatment of patients.

450D-450E-450F. Required for first-year assistant residents, Herbert C. Moffitt-University of California Hospitals, Franklin Hospital and Shriners' Hospital.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals, Franklin Hospital, and Shriners' Hospital.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals, Franklin Hospital, and Shriners' Hospital.

450X-450Y-450Z. Required for residents, Herbert C. Moffitt-University of California Hospitals. In addition the resident is responsible for the following:

A. Administrative

1. Scheduling of programs for 240A and 240B and 252A and 252B with the assistance of the full-time teaching staff.
2. Supervision of house staff assigned to hospital duties.
3. Selection of suitable cases for hospital admission in order to provide proper variety and number of cases for teaching purposes.
4. Liaison between house staff and faculty.

B. Teaching

1. Hospital ward rounds three or more times a week with house staff and three times a week with attending senior consultant on the pediatric ward.
2. Consultative service in Pediatrics to teaching patients in other departments.

C. Clinical

1. Outpatient well-baby care to infants of house staff members.

I, II and S.T. (30 hours each week minimum—10 units each semester)

451D-451E-451F. Clinical Work.

Olney, Bruyn and Staff

Required for first-year assistant residents, San Francisco Hospital. Responsibility for the care of patients under the direction of the attending staff. History-taking, physical examinations, laboratory tests, diagnosis and treatment of patients.

451G-451H-451I. Required for second-year assistant residents, San Francisco Hospital.

451J-451K-451L. Required for third-year assistant residents, San Francisco Hospital.

I, II and S.T. (30 hours each week minimum—10 units each semester)

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

A laboratory for the teaching of pharmacology and for research is maintained in San Francisco. Modern laboratory facilities also are available in experimental therapeutics and toxicology. Advanced students will be accepted under conditions arranged by individual conferees. Crowded conditions make it impossible to accept many advanced students desiring special work in mammalian pharmacology. Only graduate students who are proficient in biochemistry, physiology, and related sciences will be accepted.

Second Year

101. Pharmacology and Toxicology.

Anderson, Alles, Elliott, Hine, Meyers, Way

The composition, properties, physiologic and toxicologic actions of drugs and the purposes for which chemicals may be used in medicine are discussed. The relation between chemical constitution, physical properties, and pharmacologic action is stressed. Principles of chemotherapy and an introduction to rational therapy by means of chemical and antibiotic agents are given.

Lectures, experiments, and demonstrations.

II, M, 2-5; Tu, 9-11; Th, 8-12.

(144 hours—4 units)*

* Hours and units to be arranged for academic students.

Third Year**103. Clinical Pharmacology and Therapeutics.**

Lagen and Staff

Informal conferences on prescription writing and on medical treatment by means of chemical and biologic agents. Given in collaboration with the Department of Medicine.

I, S, 11.

(16 hours—1 unit)

Fourth Year**104. Clinical Therapeutic Conferences.**

Anderson, Lucia, Meyers, and Sweet

Correlation of pharmacodynamic and therapeutic principles by discussion of therapy from the viewpoints of the various specialties of medicine. Patients are presented whenever possible, and members of other departments are invited to participate. Given in collaboration with the Department of Medicine.

I, M, 8.

(16 hours—1 unit)

Electives**105M. Toxicology.**

Hine and Staff

Lectures and demonstrations. The occurrence, mode of action, recognition and treatment of poisoning by agricultural, economic, and household poisons. The material is intended as a supplement to the course work presented in Pharmacology 101. Elective for second-year medical students.

I, M, 8.

(16 hours—1 unit)

141M. Biologic Assay.

Meyers and Staff

Biologic methods for the evaluation and standardization of pharmacologic agents.

Hours to be arranged.

(2-4 units)

142. Pharmacology and Toxicology of Radio-Biologic Agents.

Anderson, Hine

Pharmacology and toxicology of materials which may be radioactive, or which are known fission products, and the prevention, diagnosis, and treatment of injuries produced by these substances.

Hours to be arranged.

(1½ units)

199. Special Problems in Pharmacology and Toxicology.

Anderson, Alles, Elliott, Hine, Meyers, Way

Special experimental techniques, quantitative pharmacology, toxicology, and principles of chemotherapy are offered. (Hours and credit to be arranged)

217. Research in Pharmacology.

Anderson and Staff

(Hours and credit to be arranged)

218. Pharmacology and Toxicology Seminar.

Anderson and Staff

For properly qualified students, with the permission of the Chairman of the department. A weekly, one-hour seminar to discuss present methods and problems in current teaching and research in Pharmacology and Toxicology. Special topics presented and discussed.

I, W, 11-12.

(No credit)

Summer Research Opportunities for Medical Students.

See page 52.

PHYSICAL MEDICINE

Fourth Year

101. Physical Medicine and Rehabilitation. Eising and Bard

A series of six lectures and demonstrations, incorporated in courses given by the departments of Pediatrics, Medicine, Gynecology, and Orthopaedic Surgery. Credit is included in the grades for the work given by these departments.

PHYSIOLOGICAL CHEMISTRY

First Year

101M. Physiological Chemistry. Greenberg and Staff

Lectures on the physiochemical basis of life processes, a survey of the chemical nature of lipids, carbohydrates, proteins, vitamins, and hormones, a discussion of the changes that these substances undergo in the animal body, and a general survey of the fields of metabolism, nutrition and energy exchange.

Laboratory practice with the more important constituents of living matter, employing analytical methods utilized in blood and urine analysis. Selected experiments on the metabolic reactions and biochemical processes of the living animal, especially man.

II. Lectures, M Tu W Th, 1; laboratory, M Tu W Th, 9-12.

(256 hours—8 units)

BIOPHYSICS

Biophysics is taught directly and indirectly in the departments of physiological chemistry, physiology, pharmacology, medicine, surgery and radiology. Credit is included in the grades for the work given by these departments.

PHYSIOLOGY*

First Year

101M. Human Physiology.

Bennett, Chaikoff, Ganong, Kellogg, Libet, Batts, and Assistants

Lectures, demonstrations, and conferences on vital phenomena, with particular reference to mammalian and human physiology. The functions of muscle, nerve, central nervous system, special senses, metabolism, circulation, respiration, excretion, digestion, and the endocrines are treated. In the laboratory selected experiments are performed to illustrate physiological principles and to impart some training in physiological technique.

II. Lectures, M Tu W Th, 8; F, 10; laboratory and laboratory conferences, M W, 2-5; F, 1-4.

(222 hours—8 units)

PREVENTIVE MEDICINE

Instruction in preventive medicine is begun in the second year and continued through the third and fourth years. Preventive Medicine 101 is conducted in the Department of Microbiology and is given concurrently with the course on microorganisms in their relation to disease.

Second Year

101. Preventive Medicine. Marshall, Gunnison, Jawetz

Lectures and laboratory. The required exercises include the following subjects: water and milk analysis, Schick test and diphtheria diagnosis, vaccination, study of typhoid and meningococcus carriers, disinfections, and other subjects.

I, Tu, 4; Th, 1-5.

(80 hours—2 units)

* See ANNOUNCEMENT OF COURSES, DEPARTMENTS AT BERKELEY, for other courses offered by the department.

102. Preventive Medicine.

Lucia, Bennett, Simmonds

A consideration of biologic, sociologic, and economic influences on health and disease, with emphasis on the problems of preventive medicine as effects of the environment upon man. Discussions of the prevention of diseases caused by bacteria, viruses, and protozoa, and those caused by food and other environmental factors. The principles of normal nutrition, and an introduction to biometry.

I, Th, 8; F, 1.

(32 hours—2 units)

Third Year**103. Preventive Medicine.**

Lucia, Koch

A consideration of the prevention and control of disease in the individual and in the community, including communicable diseases, organic diseases, diseases of metabolism and dietary insufficiencies. Discussion of the role played by heredity, eugenics, and psychological conditioning as factors in the etiology of disease.

II, F, 11.

(16 hours—1 unit)

Fourth Year**104. Preventive Medicine.**

Lucia, Simmonds

A consideration of the role of the practicing physician in the program of the prevention of disease with emphasis on his relationship to public health. Discussions of human ecology, constitution, and heredity and their relationship to disease. Discussion of the clinical epidemiology of streptococciosis, diphtheria, and enteric infections. A review of the principles of applied immunology.

II, S, 8.

(16 units—1 unit)

Postdoctoral Training

The members of the Division of Preventive Medicine assist in postgraduate instruction by teaching interns and house officers of the Department of Medicine; in addition they are available for consultations in biometry, and for problems in hematology and blood transfusions. There are facilities for a limited number of research fellowships. The personnel of the division is available for training postgraduate physicians in the laboratory problems of iso-immunization, with especial reference to Rh and other blood factors, blood grouping, and blood typing. Assistance is given in the performance of Coombs tests and serologic tests for hemolysins and other related immune bodies.

PSYCHIATRY

The student is offered an opportunity to acquire an understanding of psychiatry from lectures, through clinical demonstrations, seminars, and reading and some skill in its application through supervised clinical work.

First Year. (No courses as yet but a course is being planned.)

Second Year. A survey course is given in which the subject matter of psychiatry is reviewed:

Emotional and intellectual development and personality organization, psychopathology and symptomatology resulting from personal and interpersonal conflicts; psychiatric problems in organic diseases of the nervous system; various types of mental illness; history of psychiatry; psychological testing; psychiatric social work. In addition to lectures, students meet in small groups with a member of the faculty for clinical demonstration of psychiatric patients, learning of interviewing, and discussion. Specific reading assignments are made.

The opportunity to examine and treat an ambulatory patient, under close supervision in extracurricular time, is offered to a limited number of students.

Third Year. Demonstration, examination, and treatment of patients with acute psychiatric disorders.

Students are assigned to the psychiatric service in groups of four or five for one week each semester, during which methods of psychiatric examination, evaluation and treatment are discussed and demonstrated. Students are responsible for the complete work-up of at least one patient for discussion with the instructor and presentation to the group during each period on the service. Pertinent basic literature is assigned and discussed. Patients for study and demonstration are selected from the psychiatric division of the San Francisco County Hospital.

In the second semester, in addition, lectures with clinical demonstrations are given twice weekly, with the students whose patients are being presented participating in the presentation. Management of psychiatric problems in medical, surgical, obstetric, and pediatric settings is also covered, with emphasis on the interrelationships of physical and emotional disorders.

Arrangements for individually supervised study and treatment of a psychiatric patient over a prolonged period are made for interested students.

Fourth Year. Examination and treatment of patients with chronic psychiatric conditions and personality disorders.

The students are assigned psychiatric patients and work up the cases under the individual supervision of psychiatric consultants. The students are expected to utilize their instruction in making psychiatric examinations. They are required to formulate their findings in discussion with their individual consultants in regard to diagnosis, dynamic processes, and etiological factors. Instructors also acquaint the students with psychiatric work with emotionally disturbed children and their families; with the work of the clinical psychologist and tests dealing with evaluation of intelligence and personality; with the work of social workers and occupational therapists; with practical psychiatric problems confronting the physician in general medicine. Specific reading is assigned and discussed. Students attend the weekly staff conference of the Langley Porter Clinic.

Students may elect to treat a patient psychotherapeutically under supervision over a period of time, extending in some cases to the length of the academic year and requiring approximately two and one-half hours weekly of the student's time.

Psychiatric consultants are assigned to the departments of Medicine, Surgery, and Obstetrics and Gynecology. These psychiatrists participate in ward rounds, conferences, meetings, and seminars, which are attended by medical students.

Second Year

102A-102B. Psychiatry.

Simon, Albronda, Beach, L. Bennett, Berlin, Boatman, Byron, Duncan, Harris, Houston, Kaplan, Margolis, McCarley, Prestwood, Ruesch, Ryan, Szurek

Organization of the personality, psychiatric symptomatology, psychopathology, organic psychiatric problems, psychiatric examination and clinical demonstrations.

I, Tu, 8; II, 8, 10.

(32 hours—1 unit each semester)

Third Year

103A-103B. Psychiatry.

Bowman, Motto

Clinical demonstrations related to supervised section work. Dynamics of mental illness. Supervised psychotherapy.

See also Medicine 105A-105B.

I, F, 11; II, M, 8.

(32 hours—2 units)

Fourth Year**104. Section Work.**

Simon, Szurek, Ruesch, Agron, Albronda, Allen, Alston, Bennett, L., Berg, Byron, Cress, Crook, Dansky, David, Dean, Frank, Gross, Harris, Jampolsky, Kaplan, Krajeski, Lederer, Lehman, Levy, Liska, McCarley, Micon, Robbins, Ryan, Sheimo, Silver, Sowers, Starkweather, Tetzlaff.

Practical work and instruction in diagnosis, understanding, and treatment of various psychiatric conditions. Survey of functions of clinical psychology, child psychiatry, and psychiatry in general medical practice. Acquaintance with somatic treatment procedures, social service functions, and occupational therapy. Assigned collateral reading. Monday through Friday students are at the Adult Psychiatry Clinic and/or the Langley Porter Clinic from 10:00 A.M. to 1:00 P.M. except for Thursday when they stay until 2:00 P.M. at the Langley Porter Clinic while attending general staff conference.

(54 hours—1 unit)

Postdoctoral Training

The Department of Psychiatry, in association with the Langley Porter Clinic, has set up three-year and five-year residency training in psychiatry. Eight residents, four in each group, are appointed each year, and the appointments are made under competitive civil service since the funds for paying such residents comes from the budget of the Langley Porter Clinic, Department of Mental Hygiene, State of California, and the constitution of the State of California requires a civil service examination for all such positions. The salary range for the five-year plan is higher in scale than the three-year plan. While some individual variations may occur, the typical three-year training program is as follows:

The first year is spent working with house cases under supervision of senior members of the staff. Residents are responsible for the physical, neurological, and psychiatric examination of such patients and carry on treatment under suitable supervision. Ward rounds are held daily, and the resident attends various conferences and seminars.

During the second year the resident rotates as follows: three months at the San Francisco Hospital, working with the emergency psychiatric material there; three months at Napa State Hospital, Imola, to get experience with the more chronic cases and to become familiar with the workings of a large state hospital; three months at Sonoma State Home, Eldridge, for the mentally defective and epileptic, giving the resident an opportunity to study and work with the mentally defective and epileptic; and three months at San Quentin Prison, Marin County, to give some experience in forensic psychiatry.

The third year is spent at the Langley Porter Clinic, working in the Outpatient Department. Half time for six months is spent working with children so that the resident may have some special training in this field. Residents may be given the opportunity to carry on special work in neuropathology and electroencephalography and/or to work for three months in the Department of Neurology at the Herbert C. Moffitt Hospital. At the end of the third year of training, the resident is expected to serve one year at one of the State hospitals in a higher classification and at a higher salary than that of psychiatric resident.

The typical five-year training program is as follows: The first year is spent working with house cases and is the same as that for the three-year program. The second year is a year of service at one of the State hospitals. During the third year the resident rotates in the same manner as that set up for the second year of the three-year program. The fourth year is spent at the Langley Porter Clinic working in the Outpatient Department, with half time for six months spent working with children. The final year is a year of

service at one of the State hospitals; the resident will be permitted to make a choice of the hospital, but his appointment there will depend on whether a position is available.

The Department of Psychiatry has also set up a three-year residency training program which is under University of California auspices and with the stipends for each year the same as those for other University residencies. Two residents are appointed each year by the head of the Department of Psychiatry and these appointments are under no restrictions or control by State civil service. The first year is identical with that of the Langley Porter Clinic residencies, the resident working with house cases at the Langley Porter Clinic. The second year is likewise a year of rotation, but six months will be spent at the San Francisco Hospital and the other six months in Student Health Service in Berkeley. The third year is spent in the Psychiatric Department of the University of California Outpatient Department. Half time for six months is spent working with children at the Langley Porter Clinic.

There are two senior resident positions open to doctors who have finished three years of psychiatric training. These positions are also under competitive civil service. The appointment is for one year and may be renewed by mutual consent. Senior residents help supervise the work of the residents, assist in teaching medical students, and have special clinical and administrative duties assigned to them.

In addition to the regular three-year and five-year residencies, there are special fellowships under the National Mental Health Act providing for special training in such subjects as child psychiatry, neuropathology, and electroencephalography. Most of these fellowships are at the Langley Porter Clinic with stipends administered by the University of California School of Medicine. Several of the fellowships in child psychiatry have stipends administered by Children's Hospital, San Francisco. The appointments to these fellowships are made by the Department of Psychiatry at the Langley Porter Clinic with the clinical and academic program being carried on jointly at Children's Hospital Child Guidance Clinic and the Langley Porter Clinic, all under the supervision of senior staff members of the faculty of the School of Medicine.

Courses for Professional Postdoctoral Students

*250. (—, —, —) Psychiatric Staff Conferences. Simon, Szurek

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Students to prepare and present case histories and treatment summaries of patients from adult inpatient service, adult outpatient service, and children's service. Includes reference to psychological, medical, laboratory, nursing and social service studies involved in the collaborative treatment plan. Faculty members and visiting professional persons contribute to the discussions of the cases presented as well as of related theories and new developments in the respective fields with reference to pertinent literature.

I, II, and S.T., 11-12:30.

(24 hours—1½ units each semester)

*251 (—, —, —) Clinicopathological Conferences in Neuropathology. Malamud

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Cases are presented by the faculty. The clinical aspects are discussed and the neuropathological findings are demonstrated. Students to take an active part in the discussions of the correlation between the clinical and pathological findings with emphasis on their neuropsychiatric significance. Parallel reading required.

I, II, and S.T., 11-12:30.

(24 hours—1½ units each semester)

* All courses in the 200 series will be lettered D, E, F, G, H, I, J, K, L, M, N, O, X, Y, Z, depending upon the stage of training of the student registered for the course.

***252 (—, —, —) Seminar in Interpersonal Relations, Communication, and Psychotherapy.** Ruesch

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Cases are presented from clinical, theoretical, and historical viewpoints. Students to take active part in discussion with emphasis on interpersonal relations and communication and their significance in psychotherapy. Experimental data, research design and literature are discussed where pertinent. Parallel reading required.

I, II, and S.T., M or F, 11-12. (16 hours—1 unit each semester)

***253 (—, —, —) Psychoanalytic Seminar.** Windholz

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. One student to present case material from week to week on an adult patient whom he is seeing regularly for psychotherapy. All students to take active participation in the discussion of the case with emphasis on psychoanalytic concepts as related to psychotherapy. Parallel reading required.

I, II, and S.T., W, 3-4. (16 hours—1 unit each semester)

***254 (—, —, —) Seminar in Psychoanalytic Concepts.** Windholz

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Lectures on psychoanalytic theory and Freudian psychology, with special reference to case work and psychotherapy. Parallel reading required.

I, II, and S.T., W, 4-5. (16 hours—1 unit each semester)

***255 (—, —, —) Seminar in Psychological Testing.** Crook

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Seminar discussions of the commonly used psychometric methods. Discussion of the development, design and clinical application of intelligence and projective test methods. Discussion and demonstration of the use of clinical psychological techniques in the psychiatric setting. Parallel reading required.

I, II, and S.T., M, 4-5. (16 hours—1 unit each semester)

***256 (—, —, —) Seminar in Psychiatric Social Work.** Byron

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Seminar discussions of the function of the psychiatric social worker. Discussion of the historical development, training standards, present organization, and community and interdisciplinary relationships of the social work profession, with emphasis on the "team" approach of multiple professional disciplines. Parallel reading required.

I and II, F, 1-2. (16 hours—1 unit each semester)

***257 (—, —, —) Seminar in Analytic (Jungian) Psychology.**

Wheelwright

Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Seminar discussions of C. G. Jung's Analytic Psychology. Systematic discussion of the historical developments, theory and clinical application, of Analytic Psychology. Illustrative case material presented. Students to take active part in presentations of clinical material and in discussions. Parallel reading required.

I and II, Th, 11-12. (16 hours—1 unit each semester)

* All courses in the 200 series will be lettered D, E, F, G, H, I, J, K, L, M, N, O, X, Y, Z depending upon the stage of training of the student registered for the course.

***258 (—, —, —) Seminar in Group Psychotherapy.** Shaskan
Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Students to present clinical material from their work in group psychotherapy. Discussions of the clinical presentations with emphasis on the theory and method of group psychotherapy. Parallel reading required.

I, II, and S.T., alternate Th, 4-5. (8 hours— $\frac{1}{2}$ unit each semester)

***260. (—, —, —) Seminar in Forensic Psychiatry.** Simon, Kelley
Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Lectures on the theory and application of forensic psychiatry. Students to participate in seminar discussion of the material presented. Parallel reading required.

I or II, alternate Th, 2-3:30. (8 hours— $\frac{1}{2}$ unit each semester)

***261. (—, —, —) Research in Psychiatry.** Simon and Staff
Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Clinical and basic research in behavior abnormalities and psychopathology under supervision. Specific subject for research to be chosen in discussion with members of the staff.

I, II, and S.T. (Hours and units to be arranged)

***264 (—) Seminar in Electroencephalography.** Yeager
Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Didactic lectures and reading and interpretation of electroencephalographic records. The didactic portion reviews neurophysiology which emphasizes cellular and integration function rather than nerve function, electronics and instrumentation, physiologic variables affecting the EEG, normal and abnormal features of the EEG. The record reading portion emphasizes interpretation and clinical correlations. Parallel reading required.

Time to be arranged. (16 hours—1 unit each semester)

***265 (—, —, —) Seminar in Psychiatric Research.** Simon and Staff
Available to assistant residents, senior residents and fellows, Langley Porter Clinic, with approval of Chairman of Department of Psychiatry. Seminar discussions on scientific methodology and research techniques in the basic sciences, including the behavior sciences, as they apply to psychiatry. Students to present reviews of appropriate literature and individual projects for study and analysis. Parallel reading required.

I, II, and S.T. Hours to be arranged. (16 hours—1 unit each semester)

450D-450E-450F. Clinical Work.

Simon, Duncan, Lehman, Prestwood, Margolis, Silzer

Required for first-year assistant residents, Langley Porter Clinic. Responsibility for the care of hospitalized adult and adolescent patients on the adult inpatient service and neurosurgical service under the supervision of the senior staff. Obtaining and recording physical, neurological and psychiatric examinations. Psychotherapy with patients and concomitant work with some relatives. Participation in somatic therapies and psychosurgery. Experience in integration of social service, nursing, psychology, rehabilitation, and administration in the total treatment plan for hospitalized psychiatric patients.

I, II and S.T. (30 hours per week minimum—10 units each semester)

* All courses in the 200 series will be lettered D, E, F, G, H, I, J, K, L, M, N, O, X, Y, Z, depending upon the stage of training of the student registered for the course.

451G-451H-451I. Clinical Work.

Simon, Auerback, Bellamy, Galioni, Greenberg, Jewett,
Kaplan, Malamud, Motto, Nelson, Perry, Pope, Preece,
Ryan, Wheelwright

Required for second-year residents who rotate through some of the following assignments: Langley Porter Clinic, San Francisco City and County Hospital, Sonoma State Hospital, San Quentin Prison Psychiatric Service, Stockton State Hospital, Napa State Hospital, Cowell Hospital and Out-patient Clinic, Children's Hospital Child Guidance Clinic. Entails the care of psychiatric patients in a variety of treatment facilities with emphasis on the special problems involved in handling psychiatric emergencies, psychiatric problems in children, caring for chronically psychotic patients, and providing psychiatric consultation and brief treatment. Physical and psychiatric examinations, recording, brief and group psychotherapy, somatic therapy, consultations under supervision of University of California faculty members.

I, II, and S.T. (40 hours per week minimum—13 units each semester)

452J-452K-452L. Clinical Work.

Simon, Albronda, Allen, Beach, Bellamy, Berlin, Boatman, Bowman,
Hanson, Houston, Langdell, Levy, Malamud, McCarley, Nestor,
Norman, Ryan, Susselman, Szurek, Tetzlaff, Yeager

Required for third-year assistant residents, Langley Porter Clinic. Responsibility for the care of psychiatric outpatients in the adult outpatient service and children's service at Langley Porter Clinic and in the University of California Hospital adult psychiatry clinic. Obtaining and recording of physical, neurological and psychiatric examinations. Diagnostic evaluation and brief service to patients at point of application for service. Psychiatric consultation to students and staff of other departments of Herbert C. Moffitt—University of California Hospitals as well as to referring community agencies, medical social workers, etc. Psychotherapy of outpatients, both children and adults, as well as therapeutic work with relatives. Some of the students also participate in diagnosis of neuropathological material and/or in recording and interpretation in electroencephalography. All work is done under the supervision of the senior staff. Available to third-year assistant residents by special arrangement, Herbert C. Moffitt—University of California Hospitals.

I, II and S.T. (30 hours per week minimum—10 units per semester)

453X-453Y-453Z. Clinical Work in Adult Outpatient Service.

Simon, Houston

Required for senior residents assigned to the adult outpatient service, Langley Porter Clinic. This course is designed to give practical training in administrative, supervisory, and teaching as well as therapeutic functions in an adult outpatient psychiatric clinic attached to a psychiatric hospital. Regular weekly individual conferences with the departmental administrator for discussion of theoretical concepts, administrative policies and procedures, and current program planning. Opportunity for supervised experience in administrative work as well as in teaching and supervision of psychiatric residents and senior medical students in their clinical work. Approximately 10 to 12 hours weekly is spent in a continuation of training in direct work with patients, principally in outpatient individual and group psychotherapy. (Elective specialty seminars to be included in senior resident's program as individually indicated.) Responsibility for conducting of treatment conferences on collaborative cases and agency conferences as experience permits. Experience in psychiatric consultation at Laguna Honda Home.

I, II, S.T. (30 hours per week minimum—10 units each semester)

454X-454Y-454Z. Clinical Work in Adult Inpatient Service.

Simon, Duncan, Prestwood

Required for senior residents, adult inpatient service, Langley Porter Clinic.

A. Supervisory

1. Individual supervision of some first-year assistant residents at Langley Porter Clinic consisting of administrative supervision of wards to which assistant residents are assigned, and individual supervision of patient treatment with emphasis upon integration of nursing, social service, psychology, and rehabilitation therapy.
2. Responsibility for supervising the assistant residents in obtaining and recording physical, neurological and psychiatric examinations.
3. Responsibility for supervision of long-term treatment of some outpatient department cases by fourth-year medical students.

B. Administrative

1. Responsibility for conducting treatment case conferences on certain patients.
2. Responsibility for conducting administrative conferences, ward conferences, intake conferences, and clinical conferences in absence of chief of service.

C. Teaching

1. Responsibility for some lectures and seminars given to training personnel in other disciplines.
2. Consultative work at Laguna Honda Home.
3. Consultative work in Outpatient Department with medical students while on psychiatric service.

D. Clinical

Treatment of a few selected Outpatient Department cases.

I, II, S.T. (30 hours per week minimum—10 units each semester)

455M-455N-455O. Clinical Work—Child Psychiatry.

Szurek, Berlin, Boatman, Kaplan, Langdell,
Nestor, Ryan, Simon, Susselman

Required for third- or fourth-year assistant residents who are assigned as first-year fellows in child psychiatry, Langley Porter Clinic. Clinical work done on Children's Service, Langley Porter Clinic and/or Children's Hospital, Child Guidance Clinic. Responsibility for obtaining and recording the physical, neurological and psychiatric examination of outpatient and some inpatient children, for their treatment and for therapeutic work with their parents. Responsibility for diagnostic evaluation and brief service to other children and parents. Responsibility for the diagnosis and treatment of any medical problems that arise in those inpatient children under their care. All these activities under the supervision of the senior psychiatric staff and consultant staff from University of California Hospitals.

I, II, and S.T. (30 hours per week minimum—10 units each semester)

455X-455Y-455Z. Required for senior residents (second-year fellows in child psychiatry), Langley Porter Clinic. In addition:

A. Teaching

1. Teaching and supervision of first-year fellows and third-year Langley Porter Clinic assistant residents.
2. Presiding over treatment reviews.
3. Consultation services at Herbert C. Moffitt—University of California Hospitals.

B. Administrative

1. Presiding over ward rounds in absence of senior staff.
2. In charge of children's ward in absence of senior staff.

3. Presiding over interagency conferences.
 4. Supervision of correspondence of junior staff members.
- I, II, and S.T. (30 hours per week minimum—10 units each semester)

Graduate Training

Each year the Department of Psychiatry provides one year of training (part time or full time) in clinical psychology for six psychological fellows who are in the third year of the graduate program leading to a Ph.D. degree. Two of these fellowships are supported by the United States Public Health Service, four are University Fellowships. The students are given an opportunity to develop their skills in clinical psychology through supervised work with child and adult inpatients and outpatients at Langley Porter Clinic and adult outpatients at the University of California Hospital Adult Psychiatric Clinic. Clinical work includes participation in rounds, case conferences, and treatment reviews. Seminar courses emphasize recent developments in psychological techniques and clinical research.

262A-262B-262C. Research in Medical Psychology.

Harris, Crook, Starkweather

Available to graduate students in psychology, with approval of Chairman of Department of Psychiatry. Clinical and basic research in behavior abnormalities and psychopathology under supervision.

I, II, and S.T. (Hours and units to be arranged)

263A-263B-263C. Seminar in Medical Psychology.

Harris, Crook, Starkweather

Available to graduate students in psychology, with approval of Chairman of Department of Psychiatry. Seminar discussions of clinical work in medical psychology and psychiatry; reports of research and current literature by students and staff; lectures by the faculty. Parallel reading required.

I, II, and S.T., Tu 11-12:30 (24 hours—1½ units each semester)

456A-456B-456C. Clinical Work in Medical Psychology.

Simon, Harris, Crook, Starkweather

Available to graduate students in psychology with approval of Chairman of Department of Psychiatry. Psychological examination of psychiatric patients at the Langley Porter Clinic and the University of California Hospital Adult Psychiatric Clinic. Preparation of psychological reports and consultation with students and staff of other services. Individual instruction in clinical test interpretation for diagnostic appraisal and treatment planning. Psychotherapy with children and adults under psychiatric supervision. All work done under staff supervision.

I, II, and S.T. (15 to 30 hours per week—5 to 10 units each semester)

RADIOLOGY

The teaching of diagnostic and therapeutic radiology to medical students is accomplished mainly by coördinating it with the teaching in other departments, since radiology is a discipline that overlaps practically all other disciplines in the School of Medicine. By agreement members of the staff of the Department of Radiology participate in instruction in the courses, seminars, and rounds conducted by the other departments. Fourth-year students are invited and expected to bring their cases to the X-ray staff for individual consultation; most of the teaching of radiology is done by such informal contacts as come from these consultations.

Two short courses are given in the Department of Radiology, as distinct and separate from other disciplines: 101. Introduction to Radiology, and 102. Radiological Evaluation.

First Year

See Anatomy 105.

Radiological demonstrations of normal structures are given by members of the Department of Anatomy.

See Emergency Medicine 121B.
Two lectures on radiation effects.

Brown

See Emergency Medicine 122B.
Sixteen hours of lectures and demonstrations on radioactive measurements, decontamination, etc.

Scott and Staff

Second Year

See Pathology 101.

Steinbach

Lectures and demonstrations are given for one hour every second week to present the roentgenological aspects of the gross pathological lesions being studied at the time in Pathology 101.

I, alternate Fridays, 8.

101. Introduction to Radiology.

Miller, Sheline, and Jones

This course of eight lectures with demonstrations covers briefly the following: the nature of ionizing radiations, the mechanism of interaction of ionizing radiations with living materials, the production and physical properties of X rays, the optics of shadow projection, radiations from natural and artificial radioactive materials, the hazards of using ionizing radiations, the diagnostic and therapeutic usefulness of X rays. Emphasis is laid on the use of X rays as one means of physical diagnosis.

II, W, 4, first eight meetings.

(8 hours— $\frac{1}{2}$ unit)

Third Year

See Surgery 103B.

Heald

In connection with the section work in Surgery 103B, a member of the radiological staff takes one-half of the class at a time for eight hourly sessions once a week to discuss with them the radiological findings on the patients they are studying and the radiological findings on patients with related conditions.

II, W, 8.

Fourth Year

See Emergency Medicine 124B.

Stone, Brown, and Staff

Medical effects of fission and fusion bombs with main emphasis on the radiation effects, occupational hazards of nuclear reactors, and radiations in general. (11 hours.)

102. Radiological Evaluation.

Miller, Jones, and Sheline

Nine lecture-demonstrations of two hours each are given with the purpose of teaching the student the usefulness of X-ray diagnostic and therapeutic methods. One-third of the class is taken each trimester. The student has a chance to see the value and limitations of X-ray examinations and treatments. Four hours are devoted to discussing the usefulness of radiations as therapeutic agents, and five hours to diagnosis.

I and II. Time to be arranged. (Surgical section only).

Graduate Division Work

201. Experimental Radiology.

Scott, Stone, and Moon

Lectures and demonstrations are given in conjunction with the Department of Pathology covering the effects of ionizing radiations resulting from nuclear weapons upon animals, including man. The problem of contamination with and decontamination of radioactive materials and the problems of protection also

are covered. This course is designed particularly for students in the curriculum in bioradiology leading to the degree of Master of Bioradiology.

II, Tu, 3-5.

(32 hours—2 units)

Postdoctoral Training

The Department of Radiology provides three to four years of postgraduate training in radiology by the use of residencies. At the present time four residencies are provided by the University, three by the National Cancer Institute, two by the American Cancer Society, and two by the City of San Francisco.

The normal period of graduate training is three years, two years of which are devoted mainly to diagnostic radiology and one year to therapeutic radiology (appointments are made on a yearly basis). Two weekly seminars are held for the staff and resident staff in the Department of Radiology, one dealing with diagnostic radiology and one with therapeutic radiology. In addition to taking an active part in the actual work of the department, these individuals attend lectures given in the department on radiation physics and radiobiology, seminars and "rounds" in pathology, including autopsies. Through various "rounds," "clinics," and seminars in other departments of the School of Medicine, they are kept informed on advances in other branches of medicine.

A course is given on the technics of using radioisotopes as tracers. The use of radioisotopes as therapeutic agents is taught along with other radiation therapeutic methods.

In cooperation with the Department of Obstetrics and Gynecology, individuals receive some training in radium therapy of gynecological conditions.

Some of the members of the resident staff rotate through the San Francisco Hospital for a period of their training.

All are expected to report some individual work before the completion of their period of graduate training.

Courses for Professional Postdoctoral Students

Postdoctoral training in radiology is divided into diagnostic radiology and therapeutic radiology. The year or years in therapeutic radiology may be taken at any time before, between, or after the training in diagnostic radiology. Training may be taken in diagnostic or therapeutic radiology separately.

250D-250E-250F. Seminar in Diagnostic Radiology.

Stone, Miller and Staff

Required for first-year assistant residents and fellows, Herbert C. Moffitt—University of California Hospitals. Students prepare case histories, with special stress on roentgen findings and correlative surgical and laboratory work, special studies, library and film library research, etc. Faculty members furnish discussion of problems under consideration, coordinated so as to cover all systems of the body.

250G-250H-250I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, and for those at same level at San Francisco Hospital.

250J-250K-250L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, and for those at same level at San Francisco Hospital.

250X-250Y-250Z. Required for resident, Herbert C. Moffitt—University of California Hospitals, and San Francisco Hospital.

I, II and S.T., W, 4:45-6.

(16 hours—1 unit each semester)

251D-251E-251F. Radiologic-Pathology Seminar. Stone, Miller, and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. A seminar in which the roentgen findings of proved cases are correlated with the surgical and gross and microscopic pathological findings. Pertinent literature is reviewed. Material presented is evaluated by staff.

251G-251H-251I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Elective for those at same level at San Francisco Hospital.

251J-251K-251L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals. Elective for those at same level at San Francisco Hospital.

251X-251Y-251Z. Required for resident, Herbert C. Moffitt—University of California Hospitals. Elective for resident, San Francisco Hospital.
I, II and S.T., F, 4:45-6. (16 hours—1 unit each semester)

252D-252E. Specialty Seminars for Diagnostic Radiology.

Stone, Miller and Staff, Consultants from other Departments

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology. Preparation and presentation of roentgen findings and interpretations on patients or subjects being discussed at the various staff conferences and seminars of other departments. These include the medical, surgical, pediatric, obstetrics and gynecology, and clinico-pathological conferences, consultative tumor board, seminar on congenital heart disease, seminar on diseases of the gastrointestinal tract, and seminar in orthopaedics. Each assistant resident does not attend all conferences, but spends on the average 3 hours per week attending these.

252G-252H. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology.

252J-252K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology.

252X-252Y. Required for resident, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology.
I and II. (Hours to be arranged.) (48 hours—3 units each semester)

253D-253E-253F. Seminar in Therapeutic Radiology.

Stone, Sheline, Jones, and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. These seminars include discussions of methods of radiation therapy for lesions anywhere in the body and deal with the selection, performance, and applicability in general and to particular cases. Formal lectures by staff members on selected topics in radiobiology and/or radiotherapy are included. Formal presentations by house officers of assigned, selected topics are included. Special lectures are also given by visiting invited lecturers on topics in which they are authorities and which are related to radiation therapy.

253G-253H-253I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, for those at same level at San Francisco Hospital.

253J-253K-253L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, and for those at same level at San Francisco Hospital.

253X-253Y-253Z. Required for resident, Herbert C. Moffitt—University of California Hospitals, and resident, San Francisco Hospital.
I, II and S.T., Th, 4:45-6. (16 hours—1 unit each semester)

254D-254E-254F. Specialty Seminars for Therapeutic Radiology.

Radiology Staff and Consultants from other Departments, Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology. Discussions concerning the problems of each of the specialties as regards the diagnosis, type of therapy, and statistics and results taking place at each of the following specialty seminars:

- a. Cancer of head and neck (Otorhinolaryngology and Radiology)
- b. Tumors of vascular origin (Dermatology, Plastic Surgery, and Radiology)
- c. Advanced breast tumors (Surgery, Pathology, Medicine, Gynecology and Radiology)
- d. Seminar on visible tumors (Surgery, General and Plastic; Dermatology; Dentistry; Pathology; and Radiology)
- e. Consultative Tumor Board (all major clinical departments)
- f. Gynecological-Radiation seminar (Gynecology and Radiology)
- g. Hematological seminar (Medicine and Radiology)

All of these are held weekly except that dealing with tumors of vascular origin (monthly). They all last a minimum of one hour each. While the assistant residents in therapeutic radiology do not attend all conferences every week, they spend approximately three hours per week rotating through these.

254G-254H-254I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.

254J-254K-254L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.

254X-254Y-254Z. Required for resident, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.
I, II and S.T. (Hours to be arranged.) (48 hours—3 units each semester)

255D-255E-255F. Radiological Research. Stone and Staff

This is an elective course and can be taken by first-year assistant residents and fellows at the Herbert C. Moffitt—University of California Hospitals. Numerous research projects are being carried out in the Department of Radiology, and facilities are available for starting new ones. Any assistant resident who evinces sufficient interest in research, and is willing to take the extra time required, will be encouraged and provided with the facilities either to help with current problems or to undertake acceptable new ones.

255G-255H-255I. Can be taken by second-year assistant residents and fellows at the Herbert C. Moffitt—University of California Hospitals.

255J-255K-255L. Can be taken by third-year assistant residents and fellows at the Herbert C. Moffitt—University of California Hospitals.

255X-255Y-255Z. Can be taken by residents at the Herbert C. Moffitt—University of California Hospitals.
I, II and S.T. (Hours to be arranged) (Units to be arranged)

256D-256E. Elements of Radiation Physics.

Adams

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. A systematic review of mathematics and physics pertaining to the specialty of Radiology followed by an intensive series of laboratory experiments with interpretations aimed at illustrating and understanding the basic phenomena experienced in producing, measuring, and absorbing radiations. (32 hours—2 units each semester)

I, II and S.T., M, 8-10.

256G-256H-256I. Elective for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

256J-256K-256L. Elective for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

256X-256Y-256Z. Elective for resident, Herbert C. Moffitt—University of California Hospitals, and resident, San Francisco Hospital.

257D-257E. Clinical Applications of Radiation Physics.

Adams

Elective for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals. An examination and evaluation of various techniques and results experienced in the clinical application of radiations. Integration of material covered in the prerequisite Radiology 256 and correlation of this with clinical experiences is of the essence of this course. This course may be taken concurrently with Radiology 256 by special permission.

257F-257G. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, and those at the same level at San Francisco Hospital.

257J-257K. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, and those at the same level at San Francisco Hospital.

257X-257Y. Required for resident, Herbert C. Moffitt—University of California Hospitals, and resident, San Francisco Hospital.

I, II, M, 4:45-5:45.

(16 hours—1 unit each semester)

258G-258H-258I. Specialty Seminars in Radiology.

Williams and Staff

Required for first-year senior assistant residents and fellows, San Francisco Hospital. Interdepartmental seminars for which the radiologists are responsible for the radiological presentations of problems and problem cases dealing with either diagnostic or therapeutic matters and covering the whole field in which radiology helps the other disciplines of medicine. Included are Surgical-Radiological Rounds, Medical-Radiological Rounds, Consultative Tumor Board, and Clinico-Pathological Conferences.

258J-258K-258L. Required for second-year senior assistant residents and fellows, San Francisco Hospital.

258X-258Y-258Z. Required for resident, San Francisco Hospital.

I, II and S.T. (Hours to be arranged) (32 hours—3 units each semester)

259D-259E-259F. Use of Radioactive Isotopes in Medicine.

Scott

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology. A study of the physical and chemical characteristics of radioisotopes, nuclear decay, measurement of ionizing radiations including collimation, tracer studies, radioautography, and other clinical tests involving radioactive materials which are useful in the diagnosis and treatment of disease.

I, II and S.T. (Hours to be arranged.)

(80 hours—2 units)

259G-259H-259I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.

259J-259K-259L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.

259X-259Y-259Z. Required for resident, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology.

450D-450E-450F. Technical Diagnostic Radiology.

Stone, Miller and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology. Students are required to learn to do all types of roentgen examinations on patients, film filing and processing, fluoroscopy, and angiography. This course lasts for two months. The remaining time of the students in the semester is spent on the same type of work as for Radiology 451D, 451E, or 451F. Students registered in course 450 cannot register in course 451.

I, II or S.T.

(30 hours per week minimum—10 units)

451D-451E-451F. Clinical Diagnostic Radiology. Stone, Miller and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology. Responsibility for proper radiological examination and interpretation of X-ray films of patients referred from the wards and Outpatient Department under the direction of the attending staff.

451G-451H-451I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospital, when assigned to diagnostic radiology.

451J-451K-451L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology.

451X-451Y-451Z. Required for resident, Herbert C. Moffitt—University of California Hospitals, when assigned to diagnostic radiology. In addition to the clinical activities required for the resident are the following:

- a. Arrange for the rotation of assistant residents through the various specialty clinics.
- b. Arrange for the rotation of assistant residents for emergency clinical service.
- c. Act as liaison between the assistant residents and the faculty.
- d. Schedule the assistant residents' participation in various seminars, and frequently organize such seminars and staff conferences.
- e. Help teach the assistant residents and x-ray technicians.
- f. Consultative service in Outpatient Department.

I, II and S.T.

(30 hours per week minimum—10 units each semester)

452D-452E-452F. Clinical Therapeutic Radiology.

Stone, Jones, Sheline, and Staff

Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals, when assigned to therapeutic radiology. Responsibility for the diagnosis, treatment and follow-up of patients referred to radiation therapy from the wards and the Outpatient Department under the direction of the attending staff. The work includes the proper preparation of

histories, making of physical examinations, checking of laboratory tests, calling of necessary consultations, and presentation of cases at case history rounds.

452G-452H-452I. Required for second-year assistant residents, Herbert C. Moffitt-California Hospitals, when assigned to therapeutic radiology.

452J-452K-452L. Required for third-year assistant residents, Herbert C. Moffitt-University of California Hospitals, when assigned to therapeutic radiology.

452X-452Y-452Z. Required for resident, Herbert C. Moffitt-University of California Hospitals, when assigned to therapeutic radiology. See additional duties listed under 451X-451Y-451Z.
I, II and S.T. (30 hours per week minimum—10 units each semester)

453G-453H-453I. Clinical Radiology. Williams and Staff
Required for first-year senior assistant residents and fellows, San Francisco Hospital. Responsibility for the diagnostic and therapeutic activities of the Department of Radiology under the direction of the attending staff. This includes diagnostic consultations and reports, history taking, physical examinations, radiation therapy, and follow-up of patients referred for therapeutic consultations.

453J-453K-453L. Required for second-year senior assistant residents and fellows, San Francisco Hospital.

453X-453Y-453Z. Required for resident, San Francisco Hospital. In addition to the clinical activities required of a resident are the following:

- a. Supervise work of senior assistant residents and fellows.
- b. Arrange for radiological consultations.
- c. Act as liaison between attending staff and resident staff.

I, II and S.T. (32 hours per week minimum—12 units each semester)

SURGERY

Second Year. See Surgery 101. The students become acquainted with history-taking and the clinical signs of basic surgical conditions. The pathological physiology is correlated with these manifestations in the fields of general surgery and the surgical specialties. Fundamental principles of surgical diseases are presented together with explanations of various clinical entities. Diagnostic and laboratory aids are introduced.

Third Year. During this year, clinics in regional surgery with special attention to infections and injuries are presented by the staff. Students are assigned to every patient entering the hospital on the surgical services and make complete histories and physical examinations, following which an instructor discusses his "work-up" with him. Three students daily are assigned by roster to the admitting ward of the San Francisco Hospital, rotating each twenty-four hours. Aside from didactic lectures, there are case demonstrations, surgical-clinical X-ray conferences, and discourses on surgical anatomy.

Fourth Year. Section work includes assignments to the Outpatient Department and wards for general surgery and the surgical specialties. Ward rounds are held daily under the supervision of members of the staff and the students are under personal direction in the clinics. The students attend operations on their own patients and do minor surgery in the Outpatient Department. More formal instruction is offered to the whole class in weekly amphitheater clinic. A course in surgical pathology is given throughout the year. Each

student receives about eleven afternoons of instruction in operative technique and experimental surgery under modern operating-room conditions.

The Department of Surgery is supported in part by the Morris Herzstein bequest.

Second Year

101. Methods of Surgical Diagnosis and Elementary Surgery.

Goldman, Abbott, Cordes, Crawford, Grimes, Lyons,
Morrison, D. R. Smith, and Staff

Surgical diagnostic methods, history taking, with particular emphasis upon the physical examination of surgical conditions. (48 hours—2 units)
II, M W F, 12.

Third Year

102A–102B. Lectures and Demonstrations.

Bell, Abbott, Birnbaum, F. C. Bost, Cordes, Goldman, Grimes, Larsen,
C. G. Lyon, Morrison, Roe, Schottstaedt, D. R. Smith, Stephens, and
the Staff

A systematic course covering the entire body and its systems, with particular emphasis upon infection and trauma. The recognition of infection and trauma and their pathological changes receive special attention. The major portion of this course is presented by didactic lectures and case demonstrations. This course is presented simultaneously with weekly surgical and pathological demonstrations.

I, M F, 8.

II, F, 8; Tu, 8, first eight meetings.

(48 hours—3 units first semester; 40 hours—2½ units second semester)

103A–103B. Section Work.

Goldman, Adams, Benteen, F. C. Bost, H. A. Brown, Carroll, Clark, Cox,
Cressman, Debenham, Dresel, Dunbar, Elliot, Ervin, Foote, Forcade,
Galante, Gardner, Grimes, M. Hand, Hartwig, Hinman, Jr., Howard,
O. W. Jones, Jr., Larsen, Leeds, C. G. Lyon, R. P. Lyon, McCloy,
Mandell, Morrison, Nickels, Olsen, Portello, Roe, Schottstaedt,
Schulte, Simmons, D. R. Smith, Soto-Hall, Vecki, Webb, and Wise

Students are assigned to patients on the surgical wards at the San Francisco Hospital. During his period of instruction each student handles a variety of cases, covering surgery in all its aspects. The student is examined by members of the staff concerning patients assigned to him; ward rounds with demonstration and discussion of cases are conducted by each of the surgical specialists. Seminars are held several hours a week for discussion of topics, demonstration of illustrative cases, considerations of surgical-clinical X-ray diagnosis, and talks on anesthesiology. Ward rounds are conducted with small groups during the year.

I, M, 9–11, 1–4; Tu, 9–11; W, 9–12; Th, 9–11, 2–4; F, 9–12, 2–4.

II, M, 9–11, 1–4; Tu, 9–11, 2–4; W, 9–12; Th, 9–11, 2–4; F, 9–11, 1–4. (For students assigned to this section.)

(124 hours—2½ units first semester; 148 hours—2½ units second semester)

Fourth Year

105. Section Work.

Bell, Abbott, Blackfield, Birnbaum, Boldrey, Bonar, F. C. Bost, Callander, Cappeller, Champion, Civello, Cordes, J. W. Crawford, Dillon, Gill, Goldman, Goodwin, Grimes, Haldeman, M. Hand, Margaret Henry, Hinman, Jr., Hogan, Inman, Jameson, Jergesen, O. W. Jones, Jr., R. P. Lyon, Lucas, McCorkle, Martin, Merryman, R. W. Meyer, Montgomery, Morrison, Mullen, Olsen, Raney, Schulte, Searls, R. S. Sherman, Schumate, Smart, D. R. Smith, Sutherland, Ward, and White

Students act as clinical clerks in the Outpatient Clinic and Hospital. They may assist at operations. Four times weekly one-hour seminars on surgical subjects are conducted by members of the staff. New patients are assigned to students for development of case records, both in the Outpatient Department and Hospital. Diagnosis and treatment are then discussed with staff consultants. Every effort is made that patients requiring hospitalization and operation may have students to whom they were originally assigned in the Outpatient Department follow them through the wards and operating room. Ward rounds conducted four times weekly permit discussion of diagnosis and treatment and serve to check the work of the section. The students attend the weekly formal Staff Rounds where patients and diagnostic problems of special interest are presented and discussed by various members of the staff. Each week two hours are devoted to seminars in roentgenology and two hours to seminars in urology.

I and II, M, 9-1, 2-4; Tu, 9-1, 2-4; W, 10-1; Th, 9-1, 2-4; F, 9-1, 2-4.
(For students assigned to this section.) 194 hours—6 units)

106. Operative Technique.

McCorkle and Staff

Each member of the class receives approximately eleven afternoons of instruction in operative technique and experimental surgery under modern operating room conditions.

(40 hours—2 units)

(For students in Surgery 105.)

108A-108B. Amphitheater Clinics.

Bell, Boldrey, and Staff

Amphitheater clinics and demonstration of patients showing various surgical conditions.

(32 hours— $\frac{1}{2}$ unit each semester)

I and II, Tu, 8.

Postdoctoral Training

On the clinical services in the Department of Surgery, there are approximately 1,800 private and 1,800 ward patients per year which are available for teaching. In the Outpatient Department more than 20,000 patients are seen per year, of these approximately 40 per cent are new patients.

The assistant residents in the Department of Surgery are appointed largely from the intern group at the Herbert C. Moffitt-University of California Hospitals and at the San Francisco Hospital, University of California Service. However, graduates of other medical schools may be selected if they have exceptional qualifications. The applicant must have completed an internship, preferably a straight surgical internship. Appointments are made by the chairman of the Department of Surgery and are for one year only. An assistant resident may advance to the position of resident surgeon and in this way obtain five or more years of training. The assistant residents are re-appointed each year if their development is satisfactory.

The plan of training in general surgery includes periods (usually six months) of assignment to general surgery, thoracic surgery, neurological surgery, urology, surgical pathology, surgical outpatient department and minor surgery. Some assistant residents spend one year in experimental surgical research, and one year on the University of California service at the San Francisco Hospital (where there is an opportunity to see and care for a large number of acute fractures, head injuries and acute abdominal emergencies); others spend a period in one or two affiliated hospitals. Residents attend formal surgical rounds each week, surgical ward rounds daily, and other conferences.

All members of the resident staff are closely supervised by various members of the teaching staff. Residents are given increasing responsibilities as they progress in their training.

There are usually 27 assistant residents in the Department of Surgery. These are assigned to the various services, as explained above, and with rota-

tion every six months. The assistant residents supervise the work of the interns; also they act as first assistant in the operating room, and in the outpatient clinic attend to the service to which assigned.

In a six months' assignment to the Department of Pathology on a full-time basis, the assistant resident is given work in surgical pathology and participates in the routine work of the Department of Pathology, including autopsies and performing autopsies under supervision. He is also responsible for the study of tissue pathology under the supervision of the pathologist. With the assistance of the surgical pathologist, he conducts a surgical pathological conference each week for the members of the resident staff and visiting staff, presenting the pathological material of the previous week. At one meeting the deaths and autopsies are discussed.

As the assistant resident progresses in his training, he has increasing responsibility on the wards, in the operating room, and in the outpatient department.

As explained above, the assistant resident may spend one year at the San Francisco Hospital where he has an opportunity for work in major and minor emergencies and fractures in addition to general surgery. A great deal of responsibility is assumed during this year, and the chief resident at San Francisco Hospital assists in or performs approximately 200 major operations.

Usually the final year of training is an assignment of six months as chief surgical resident at the University of California Hospital and six months at the San Francisco Hospital. He has active charge of the surgical service under the Chairman of the Department and the various attending surgeons. He is in charge of the operating schedule, assists in approximately 100 major operations, and is allowed to perform approximately 300 major operations under the supervision of members of the attending staff. As the resident has advanced through various stages of training, he had opportunity to participate in experimental work in the laboratory and in the various basic science departments.

Courses for Professional Postdoctoral Students

- 250A-250B. General Surgical Staff Conferences.** Bell and Staff
Required for surgical interns, Herbert C. Moffitt—University of California Hospitals. Case studies are prepared and presented before the faculty and staff. This may include case records, laboratory work, and other special studies, and references from the literature. The faculty, and sometimes visiting professors, give discussions of the surgical problems introduced by the case records. At times a more formal presentation of general surgical-clinical or investigational work is given.
- 250D-250E.** Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 250G-250H.** Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 250J-250K.** Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 250M-250N.** Required for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
- 250X-250Y.** Required for the resident surgeon, Herbert C. Moffitt—University of California Hospitals. (24 hours—1½ units each semester)
I and II, F, 9-10:30.

251A-251B-251C. General Surgical Pathology Seminar. Crane and Staff
Required for interns, Herbert C. Moffitt—University of California Hospitals. Case reports and demonstrations of the currently available gross and microscopic surgical pathological material from the operating rooms and pathology laboratories. At one meeting the deaths and autopsies are discussed.

251D-251E-251F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251G-251H-251I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251J-251K-251L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251M-251N-251O. Required for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

251X-251Y-251Z. Required for the resident surgeon, Herbert C. Moffitt—University of California Hospitals. (16 hours—1 unit each semester)
I, II and S.T., Tu, 5-6.

252A-252B-252C. General Surgical Seminar. Bell and Staff
Required for interns, Herbert C. Moffitt—University of California Hospitals. Seminars on the surgical wards with discussion of current problems concerning the diagnosis and management of general surgical patients.

252D-252E-252F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252G-252H-252I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252J-252K-252L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252M-252N-252O. Required for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

252X-252Y-252Z. Required for resident surgeons, Herbert C. Moffitt—University of California Hospitals. (32 hours—2 units each semester)
I, II and S.T., F, 7:30 to 9.

253D-253E-253F. Seminar in Surgical Research. Bell, McCorkle and Staff
Electives for first-year assistant residents. The planning and reporting of surgical research. Discussion of current experimental surgical problems. Reports on literature and work currently in progress in the surgical laboratories.

253G-253H-253I. Elective for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253J-253K-253L. Elective for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

253M-253N-253O. Elective for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.
I, II and S.T., Tu, 9-11. (32 hours—2 units each semester)

254D-254E. General Surgical Staff Conferences.

Bell, Goldman, C. G. Lyon, Grimes and Staff

Required for first-year assistant residents, San Francisco Hospital. Case studies are prepared and presented before the faculty and staff. This includes case records, laboratory work, and sometimes references from the surgical literature. The faculty discusses the surgical problems introduced by the case records.

254G-254H. Required for second-year assistant residents, San Francisco Hospital.

254J-254K. Required for third-year assistant residents, San Francisco Hospital.

254M-254N. Required for fourth-year assistant residents, San Francisco Hospital.

254X-254Y. Required for the resident surgeon, San Francisco Hospital.
I and II, Tu 9-10:30. (24 hours—1½ units each semester)

255D-255E-255F. General Surgical Seminar.

Goldman, Grimes, C. G. Lyon and Staff

Required for first-year assistant residents, San Francisco Hospital. Seminars on the wards with discussion of problems concerning the diagnosis and management of surgical patients.

255G-255H-255I. Required for second-year assistant residents, San Francisco Hospital.

255J-255K-255L. Required for third-year assistant residents, San Francisco Hospital.

255M-255N-255O. Required for fourth-year assistant residents, San Francisco Hospital.

255X-255Y-255Z. Required for the resident surgeon, San Francisco Hospital.
I, II and S.T. (32 hours—2 units each semester)

448. Clinical Work.

Bell and Staff

During three months assignment to this department as required for rotating interns at Herbert C. Moffitt-University of California Hospitals, under the direction of the staff, responsibility is assumed for preparation of the case records, laboratory work, and the preoperative preparation of surgical patients, assisting at the operations, carrying out the patients' postoperative care, and when possible attending the follow-up surgical clinic. Assignments are made by rotation to the general surgical and to certain surgical specialty wards and the outpatient clinics.

I, II and S.T.

(30 hours—7½ units)

449. Clinical Work.

Bell and Staff

During six months' assignment to this department as required for mixed interns at Herbert C. Moffitt-University of California Hospitals, under the direction of the staff, responsibility is assumed for preparation of the case records, laboratory work, and the preoperative preparation of surgical patients, assisting at the operations, carrying out the patients' postoperative care, and when possible attending the follow-up surgical clinic. Assignments are made by rotation to the general surgical and to certain surgical specialty wards and outpatient clinics.

I, II and S.T.

(30 hours—15 units)

450A-450B-450C. Clinical Work.

Bell and Staff

Required for interns, Herbert C. Moffitt—University of California Hospitals. Under the direction of the staff, responsibility is assumed for preparation of the case records, laboratory work, and the preoperative preparation of surgical patients, assisting at the operations, carrying out the patients' postoperative care, and when possible attending the follow-up surgical clinic. Assignments are made by rotation to the general surgical and to certain surgical specialty wards and outpatient clinics.

450D-450E-450F. Required for first-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450G-450H-450I. Required for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450J-450K-450L. Required for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450M-450N-450O. Required for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

450X-450Y-450Z. Assignment is to general surgery only. Required for resident surgeons who have additional duties as follows according to their skill and competence:

Under direction of the staff—

1. Supervision of the clinical work of the interns and assistant residents.
2. Teaching of the medical students, interns, and assistant residents.
3. Preparation of the material for surgical seminars and conferences.
4. Major responsibility for the diagnosis, preparation, operation and post-operative care of surgical patients, including daily ward rounds with the resident staff.
5. Arranging consultations with other services.

I, II and S.T. (30 hours per week minimum—10 units each semester)

451D-451E-451F. Experimental Surgical Laboratory.

Bell, McCorkle, and Staff

Elective for first-year assistant residents. Experimental investigation of general surgical problems and the development of technical and laboratory methods to be applied in general surgery.

451G-451H-451I. Elective for second-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

451J-451K-451L. Elective for third-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

451M-452N-451O. Elective for fourth-year assistant residents, Herbert C. Moffitt—University of California Hospitals.

I, II and S.T. (30 hours per week minimum—10 units each semester)

NOTE: Each year, one or more members of the Assistant Resident group are selected for work in the experimental Surgical Laboratory. Such individuals register for the above courses rather than for course 450.

452D-452E-452F. Clinical Work.

Bell, Goldman, Grimes, C. G. Lyon, and Staff

Required for first-year assistant residents, San Francisco Hospital. Under the direction of the attending staff responsibility is assumed for the preparation of the case records, laboratory work and pre-operative preparation of

surgical patients, assisting at their operations, carrying out their post-operative care and attending the follow-up clinic. Assignments are made to the general surgical, emergency, and to certain surgical specialty services.

452G-452H-452I. Required for second-year assistant residents, San Francisco Hospital.

452J-452K-452L. Required for third-year assistant residents, San Francisco Hospital.

452M-452N-452O. Required for fourth-year assistant residents, San Francisco Hospital.

452X-452Y-452Z. Clinical Work. Bell, Goldman, C. G. Lyon, and Staff
Assignment is to general surgery and emergency only. Required for resident surgeons who have additional duties as follows according to their skill and competence.

Under direction of the staff:

1. Supervision of the clinical work of the interns and assistant residents.
2. Teaching the medical students, interns, and assistant residents.
3. Preparation of material for the surgical seminars and conferences.
4. Major responsibility for the diagnosis, preparation, operation, and postoperative care of surgical patients, including daily ward rounds with the resident staff.
5. Arranging consultations with other services.

I, II and S.T. (30 hours per week minimum—10 units each semester)

UROLOGY

Instruction in Urology is given as part of the various courses of the Department of Surgery.

Second Year. Four lectures in Surgery 101 cover the steps to be taken in the diagnosis of urologic disease.

Third Year.—Twelve lectures are given as part of Surgery 102B. They cover the most common urologic diseases. Emphasis is placed on fundamental principles of pathologic physiology and diagnosis.

In the section work in Surgery 103A-103B, one-fourth of the class meets for one hour a week in seminar followed by an hour of ward rounds with one instructor for each three students. The students present their cases for discussion; the instructor stresses the steps in diagnosis and demonstrates pathologic lesions. In addition, each student has the opportunity to discuss his patients with members of the visiting staff.

Fourth Year. Students in Surgery 105, consisting of one-third of the class at a time, are assigned clinic (and some private) patients in the hospital for workup and study. Groups of six students are assigned to the Urology Clinic where they have the opportunity to see new patients and examine old ones under the supervision of one instructor who also takes them on ward rounds for discussion of their cases.

A seminar with one-third of the class is held for one hour per week for 10 weeks. These cover various aspects of the diagnosis and treatment of urologic disorders.

Second Year

See Surgery 101.

Third Year

See Surgery 102B, 103A-103B.

Fourth Year

See Surgery 105.

Postdoctoral Training

Postdoctoral training in Urology is offered those who have had an internship and at least one year of general surgical residency. The residency program takes three years to complete and fulfills the requirements for Board Certification. Six residencies are available and two new men are selected and two complete their training each year. They are rotated between Franklin, San Francisco, University of California and the Santa Clara County Hospitals. This affords about 75 active teaching beds for urologic patients.

Besides this routine training on the wards and in the cystoscopic and operating rooms, the residents attend regular weekly seminars in basic physiology in urologic and related fields and urologic roentgenology. Each man is assigned to the experimental laboratory for six months and both experimental and clinical research is encouraged. The residents spend time in the outpatient departments during their training periods. Regular ward rounds and meetings are held with the visiting staff.

Courses for Professional Postdoctoral Students

250D-250E-250F. Seminar Course.

D. R. Smith and Staff

Required of all first-year residents, San Francisco Hospital and Franklin Hospital. Consists of weekly seminars with various members of the staff. The basic sciences and urologic roentgenology are covered.

250G-250H-250I. Required for all second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

250X-250Y-250Z. Required for the resident urologists, San Francisco Hospital, Santa Clara County Hospital.

I, II and S.T. (Hours to be arranged) (24 hours—1½ units per semester)

251D-251E-251F. Experimental Laboratory.

D. R. Smith, A. Finkle, F. Hinman, Jr., and Staff

Elective for first-year assistant residents, San Francisco Hospital, Franklin Hospital. Experimental investigation in urologic problems.

251G-251H-251I. Elective for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

251X-251Y-251Z. Elective for resident urologists, San Francisco Hospital, Santa Clara County Hospital.

I, II and S.T. (Hours to be arranged) (48 hours—2 units each semester)

252D-252E-252F. Urologic Clinical Seminar.

D. R. Smith, Henderson, Schulte, and Staff

Required of first-year assistant residents, San Francisco Hospital, Franklin Hospital. Seminars on urologic wards with discussion of diagnosis and treatment of urologic patients with visiting staff.

252G-252H-252I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

252X-252Y-252Z. Required for resident urologists, Santa Clara County Hospital, San Francisco Hospital.

I, II, and S.T. (Hours to be arranged) (32 hours—2 units each semester)

253D-253E-253F. General Urologic Staff Conference.

D. R. Smith and Staff

Required for first-year assistant residents, San Francisco Hospital, Franklin Hospital. Urologic problems are presented and discussed by the faculty and staff.

253G-253H-253I. Required for second-year assistant residents, Herbert C. Moffitt-University of California Hospitals.

253X-253Y-253Z. Required for resident urologists, Santa Clara County Hospital, San Francisco Hospital.
I, II and S.T., M., 11-1. (8 hours— $\frac{1}{2}$ unit each semester)

450D-455E-450F. Clinical Work.

D. R. Smith, Henderson, Schulte, and Staff

Required for first-year assistant residents, Franklin Hospital, San Francisco Hospital. This includes care of patients on the wards, and work in the outpatient department of the Herbert C. Moffitt-University of California Hospitals. These men act as first assistants at all operations and are responsible for preoperative and postoperative care.

450G-450H-450I. Required for second-year assistant resident, Herbert C. Moffitt-University of California Hospitals. During this period the assistant resident does most of the instrumental examinations and surgical operations on the clinic patients. This is done under close supervision of a member of the visiting staff. The assistant residents also are responsible for:

1. Supervision of clinical work of interns and assistant residents.
2. Teaching of medical students, interns, and assistant residents.
3. Preparation of material for urologic seminars and conferences.
4. Arranging consultations with other services.
5. Care of patients on the Student Health Service.

450X-450Y-450Z. Required for resident urologists at San Francisco Hospital, Santa Clara County Hospital. These residents do all the instrumental and surgical procedures at the respective hospitals under supervision.

They have the same administrative, teaching, and clinical responsibilities as course 450G-450H-450I.

I, II and S.T. (30 hours per week minimum—10 units each semester)

THE GEORGE WILLIAMS HOOPER FOUNDATION

MEMBERS OF THE STAFF

Karl F. Meyer, A.B., Dr.phil. (Zurich), Dr.Med. h.c. (Zurich), *Professor of Experimental Pathology and Director of the George Williams Hooper Foundation, Emeritus.*

Bernice U. Eddie, M.A., Dr.P.H., *Associate Professor of Research Medicine and Assistant Director of the George Williams Hooper Foundation.*

Hermann Becks, M.D., D.D.S., *Professor of Dental Medicine.*

William C. Reeves, Ph.D., *Professor of Epidemiology.*

Michael Hobmaier, D.V.M., *Associate Professor of Comparative Pathology, Emeritus.*

Lionel Farber, Ph.D., *Research Associate.*

Charles T. Townsend, M.S., *Research Associate.*

Tsung H. Chen, M.D., *Assistant Research Immunologist.*

On Commencement Day, May 14, 1913, Mrs. George Williams Hooper presented certain valuable property to The Regents of the University of California for the founding of an institute of medical research in memory of her husband, a pioneer citizen of San Francisco. The formal opening of the Hooper Foundation was celebrated on March 7, 1914.

Facilities for work in research medicine are available throughout the year for those persons who have sufficient training. The experimental work is open to students of the second, third, and fourth years of the School of Medicine as well as to graduates in medicine and advanced students who have had the necessary preparation. The fundamental value of such work to the student is the training it gives him in research methods. In helping to work out small problems he gets an insight into medical research which could be gained in no other way.

Students who elect research laboratory work must give to it time equivalent to that of a double course.

Research Medicine

201. Experimental Medicine, Epidemiology, and Microbiology The Staff (Hours to be arranged.)

Students who have had sufficient training will be given opportunity to work on some problem related to the research work of the laboratory staff. This work will be carried on under the personal supervision of the members of the laboratory staff, and the student will be treated as an assistant in research medicine.

CANCER RESEARCH INSTITUTE

MEMBERS OF THE STAFF

David A. Wood, A.B., M.D., *Professor of Pathology (Oncology) and Director, Cancer Research Institute.*

Maurice Galante, A.B., M.D., *Assistant Professor of Surgery and Assistant Research Surgeon (Oncology), Cancer Research Institute.*

William A. Atchley, M.D., *Assistant Professor of Medicine and Assistant Research Physician (Oncology), Cancer Research Institute.*

T. Timothy Crocker, A.B., M.D., *Associate Professor of Medicine and Associate Research Physician (Oncology), Cancer Research Institute.*

Nicholas L. Petrakis, A.B., B.Sc.Med., M.D., *Assistant Clinical Professor of Medicine (Oncology) and Assistant Research Physician (Oncology), Cancer Research Institute.*

John K. Frost, A.B., M.D., *Instructor of Pathology and Junior Research Pathologist (Oncology), Cancer Research Institute.*

Eileen Brenneman King, A.B., M.D., *Instructor of Pathology and Junior Research Physician (Oncology), Cancer Research Institute.*

Roger Wilson, M.A., M.B., B.Chir., M.D., *Instructor of Medicine and Junior Research Physiologist (Oncology), Cancer Research Institute.*

Calvin Zippin, Sc.D., *Lecturer in Biometrics and Assistant Research Biostatistician (Oncology).*

Peter G. Loret, Ph.D., *Assistant Research Oncologist (Medical Education), Cancer Research Institute.*

Seymour M. Farber, A.B., M.D., *Associate Clinical Professor of Medicine and Associate Consultant (Oncology), Cancer Research Institute.*

Henry D. Moon, A.B., M.A., M.D., *Associate Professor of Pathology and Associate Consultant (Oncology), Cancer Research Institute.*

Antonio V. Costantini, A.B., M.D., *Clinical Instructor in Medicine and Junior Research Physician (Oncology), Cancer Research Institute.*

Ethelda N. Sassenrath, Ph.D., *Assistant Research Biochemist, Step I, Cancer Research Institute and Department of Physiological Chemistry.*

Relda Cailleau, Sc.D., *Assistant Research Biochemist, Step II, Cancer Research Institute.*

Lester Goldstein, Ph.D., *Assistant Research Physiologist, Step I, Cancer Research Institute.*

Samuel L. Pharr, M.A.

The Cancer Research Institute was established in 1947 for cancer research, education, and service. The following activities are components of the Institute:

1. General Tumor Registry.
2. Consultative Tumor Board.
3. Visible Tumor Clinic.
4. Tumor Clinic, San Francisco Hospital (University of California service).
5. Cytology Laboratory (Herbert C. Moffitt-University of California Hospitals and San Francisco Hospital).

THE FRANCIS I. PROCTOR FOUNDATION FOR RESEARCH IN OPHTHALMOLOGY

MEMBERS OF THE STAFF

Michael J. Hogan, A.B., M.D., *Clinical Professor of Experimental Ophthalmology and Director of the Francis I. Proctor Foundation for Research in Ophthalmology.*

Frederick C. Cordes, A.B., M.D., *Clinical Professor of Experimental Ophthalmology.*

Phillips Thygeson, M.D., *Clinical Professor of Experimental Ophthalmology.*

Samuel J. Kimura, A.B., M.A., M.D., *Assistant Professor of Experimental Ophthalmology.*

William K. McEwen, A.B., M.A., Ph.D., *Assistant Professor of Experimental Ophthalmology (Physiological Biochemistry).*

Levon K. Garron, M.D., *Assistant Clinical Professor of Experimental Ophthalmology.*

Selig A. Gellert, M.D., *Clinical Assistant in Experimental Ophthalmology.*

Daniel G. Vaughan, Jr., M.D., *Assistant Clinical Professor of Experimental Ophthalmology.*

Frederick R. Carriker, M.D., *Instructor in Experimental Ophthalmology.*

Ariah Schwartz, M.D., *Instructor in Experimental Ophthalmology.*

J. Lavelle Hanna, B.A., M.A., *Associate in Experimental Ophthalmology.*

Helenor Campbell Foerster, *Associate Research Ophthalmologist.*

William Van Herick, B.S., M.D., *Clinical Instructor in Experimental Ophthalmology.*

Ernest Jawetz, M.D., *Consultant in Microbiology.*

Manuel F. Allende, M.D., *Consultant in Dermatology.*

Sidney Riegelman, Ph.D., *Consultant in Pharmacy.*

T. Timothy Crocker, M.D., *Consultant in Internal Medicine and Microbiology.*

On September 15, 1947, an agreement between The Regents of the University of California and Mrs. Francis I. Proctor established a Foundation for Research in Ophthalmology in memory of Mrs. Proctor's husband, an ophthalmologist whose later years were devoted to research on trachoma and other infectious diseases of the eye. The first laboratory space was made available in the same year. In conformity with the agreement, there was created a Board of Trustees consisting of the Dean of the School of Medicine, the Chairman of the Department of Ophthalmology, and an ophthalmologist representing the founder. An ophthalmologist was appointed to direct the activities of the Foundation. He holds the title of Director and is responsible to the Board of Trustees and to the Regents of the University.

The Proctor Foundation is housed on the third floor in the Medical Sciences Building. Three thousand square feet of laboratory space were made available through the generous donation of Mr. and Mrs. Berthold Guggenheimer.

The foundation is concerned principally with investigation, but it contributes also to the teaching and diagnostic activities of the Department of Ophthalmology, with which it is closely associated. Facilities for research are available to both undergraduate and graduate students.

In 1946 Mrs. Proctor endowed the Francis I. Proctor Lecture in Ophthalmology which is given each year by an outstanding ophthalmologist pre-eminent in the field of research. It was intended that the lecture serve spe-

cifically to illuminate the interrelation of the clinical and laboratory aspects of some investigative problem. The lecture fund was assigned to the Department of Ophthalmology and the lecture is given in connection with the department's annual postgraduate course.

Funds were also donated by Mrs. Proctor for the construction of an office building on a site adjacent to the campus for the part-time use of the staff of the Foundation. The Regents matched these funds for the purchase of the site. The purposes of the gift were threefold: (1) to locate the Director full-time on the campus, (2) to provide a means for investigators to supplement their part-time Foundation salaries by private practice in low-cost office space near their laboratories, and (3) to augment the Foundation's research potential by providing a source of well-kept clinical records for analysis. The building was opened for occupancy the first of February, 1956.

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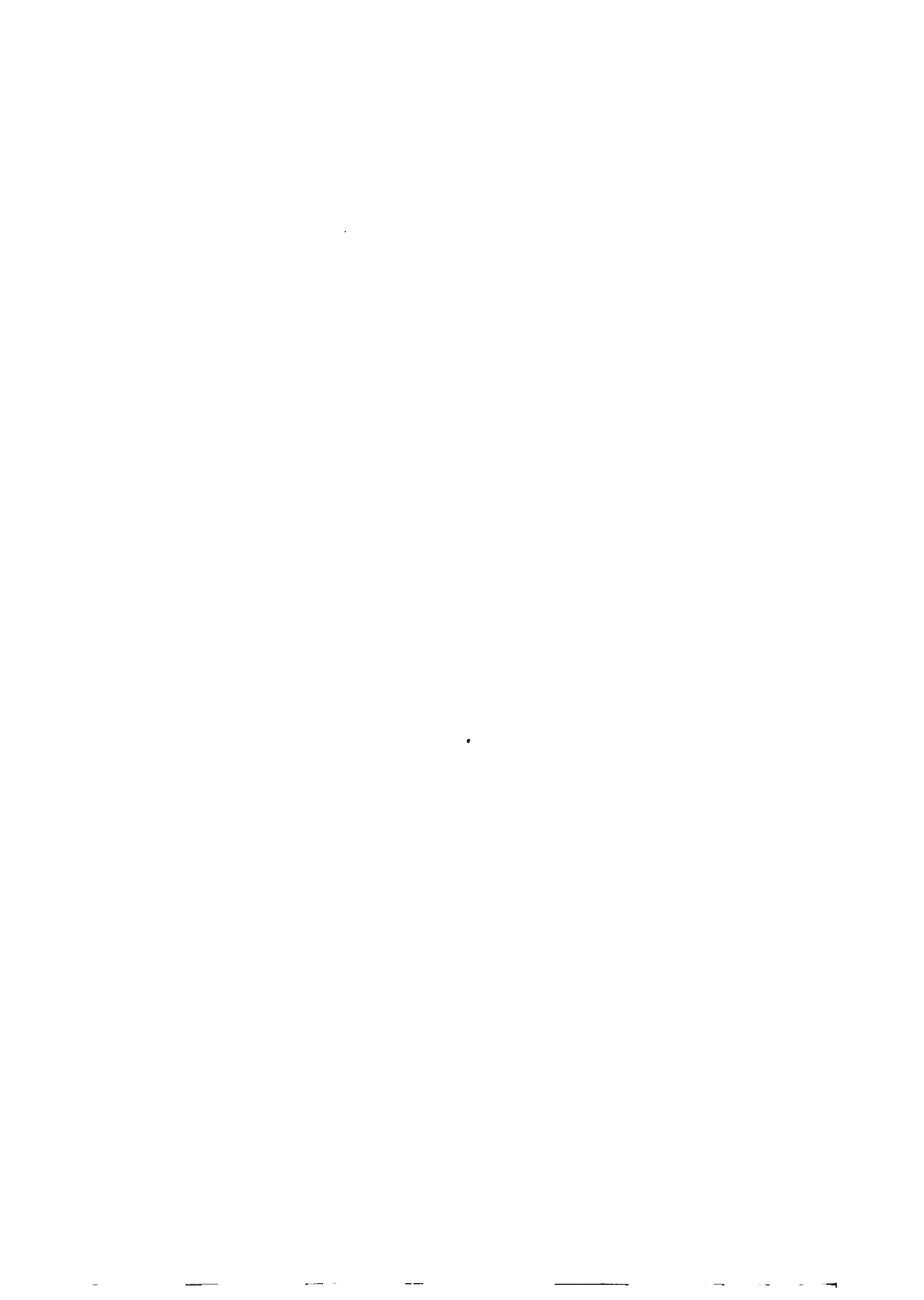
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ANNOUNCEMENT OF THE

School of Medicine

LOS ANGELES

FALL AND SPRING SEMESTERS

1956-1957

*University of California
Los Angeles*

All data herein are subject to revision. There may be changes in the list of Officers of Administration and Instruction made subsequent to the date of original publication, June, 1956.

SCHOOL OF MEDICINE

LOS ANGELES

CALENDAR, 1956-1957

1956

Sept. 7, Friday	Orientation for new students.
Sept. 10, Monday	Classes begin.
Sept. 12, Wednesday	New students complete registration, 3:00-4:30 p.m.
Nov. 22, Thursday	Thanksgiving recess begins.
Nov. 26, Monday	Classes resume.
Dec. 19, Wednesday	Christmas recess begins.

1957

Jan. 2, Wednesday	Classes resume.
Jan. 26, Saturday	Fall semester ends.
Jan. 28, Monday	Spring semester begins.
Feb. 22, Friday	Washington's Birthday holiday.
Apr. 18, Thursday	Easter recess begins.
Apr. 22, Monday	Classes resume.
May 30, Thursday	Memorial Day holiday.
June 5, Wednesday	Spring semester ends.

Academic and administrative holidays: July 4, Sept. 3, Nov. 22, 23, Dec. 24, 25, 31, 1956; Jan. 1, Feb. 22, May 30, 1957.



Application forms for 1957-1958 available June 1, 1956. Last day to obtain application forms—November 15, 1956. Last day applications and transcripts can be filed—November 30, 1956.

ANNOUNCEMENT OF THE

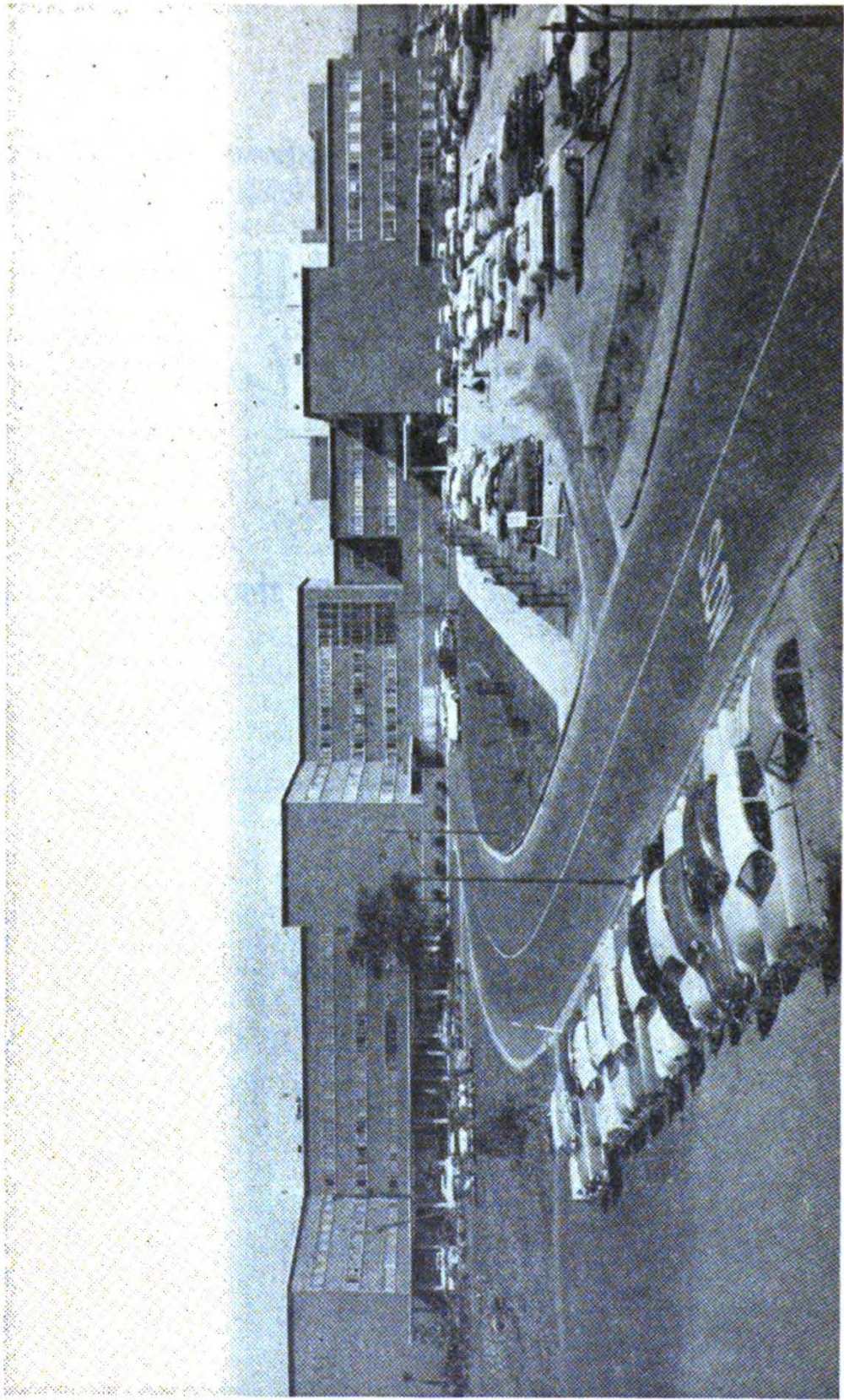
SCHOOL OF MEDICINE

Los Angeles

FALL AND SPRING SEMESTERS

1956-1957

**UNIVERSITY OF CALIFORNIA
LOS ANGELES**



University of California Medical Center, Los Angeles

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

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Governor of California and President
of the Regents
State Capitol, Sacramento 14

HAROLD J. POWERS
Lieutenant-Governor of California
State Capitol, Sacramento 14

LUTHER H. LINCOLN
Speaker of the Assembly
4000 Redwood rd, Oakland 19

ROY E. SIMPSON, M.A., Litt.D.
State Superintendent of Public
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721 Capitol av, Sacramento 14

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President of the State Board of
Agriculture
902 River lane, Santa Ana

WILLIAM G. MERCHANT
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4

EDWIN L. HARBACH
President of the Alumni Association of
the University of California
609 S Grand av, Los Angeles 17

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Litt.D.
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

EDWIN W. PAULEY, B.S. (1970)
717 N Highland av, Los Angeles 38
BRODIE E. AHLPORT, A.B. (1972)
5657 Wilshire blvd, Los Angeles 36
EDWARD H. HELLER, A.B. (1958)
100 Montgomery st, San Francisco 4

VICTOR R. HANSEN, LL.B. (1962)
Superior Court, Courthouse,
Los Angeles 12

EARL J. FENSTON, A.B. (1964)
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995 Market st, Room 810,
San Francisco 3

JESSE H. STEINHART, A.B., LL.B. (1962)
111 Sutter st, San Francisco 4

DONALD H. MCLAUGHLIN, B.S., M.A.,
Ph.D., D.Eng. (1966)
100 Bush st, San Francisco 4

GUS OLSON, B.S. (1960)
Clarksburg

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First Western Bank bldg, 14th and
Broadway, Oakland 12

HOWARD C. NAFFZIGER, B.S., M.S., M.D.
(1968)

University of California Medical Center,
San Francisco 22

EDWARD W. CARTER, M.B.A. (1968)
401 S Broadway, Los Angeles 13

MRS. DOROTHY B. CHANDLER (1970)
202 W First st, Los Angeles 53

THOMAS M. STORKE, A.B. (1960)
Santa Barbara News-Press,
De La Guerra plaza, Santa Barbara

Mrs. CATHERINE HEARST (1958)
2855 Ralston av, Hillsborough
SAMUEL B. MOSHER, B.S. (1972)
811 W Seventh st, Los Angeles 17

OFFICERS OF THE REGENTS

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President
State Capitol, Sacramento 14

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Business Affairs

250 Administration bldg, Berkeley 4
Raymond W. Kettler, M.A., Controller
401 Administration bldg, Berkeley 4

George E. Stevens, Assistant Controller
401 Administration bldg, Berkeley 4

Thomas J. Cunningham, A.B., LL.B.
General Counsel of the Regents
128 Administration bldg, Berkeley 4

Ashley H. Conard, B.L., J.D.
Associate Counsel of the Regents and
Attorney in Residence Matters
128 Administration bldg, Berkeley 4

John E. Landon, A.B., LL.B.
Associate Counsel of the Regents
128 Administration bldg, Berkeley 4

John P. Sparrow, A.B., LL.B.
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128 Administration bldg, Berkeley 4

R. Bruce Hoffe, A.B., LL.B.
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4

Robert A. Mackey, A.B., LL.B.
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4

Mark Owens, Jr., A.B., LL.B.
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4

George D. Mallory, A.B., Assistant
Treasurer and Assistant Secretary
240 Administration bldg, Berkeley 4

Miss Marjorie J. Woolman
Assistant Secretary
240 Administration bldg, Berkeley 4

UNIVERSITY OF CALIFORNIA

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Raymond B. Allen, M.D., Ph.D., LL.D., D.Sc., *Chancellor at Los Angeles.*
Clark Kerr, Ph.D., LL.D., *Chancellor at Berkeley.*
Harry R. Wellman, Ph.D., *Vice-President—Agricultural Sciences.*
James H. Corley, B.S., *Vice-President—Business Affairs.*
Richard J. Stull, A.B., *Vice-President—Medical and Health Sciences.*
Baldwin M. Woods, Ph.D., *Vice-President—University Extension.*
Claude B. Hutchison, M.S., LL.D., D.Agr. (hon.c.), *Vice-President of the University and Dean of the College of Agriculture, Emeritus.*
Robert M. Underhill, B.S., *Secretary and Treasurer of the Regents.*
Herman A. Spindt, Ph.D., *Director of Admissions.*
———, *Director of Relations with Schools.*

GENERAL ADMINISTRATIVE OFFICERS—LOS ANGELES CAMPUS

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Edgar L. Lazier, Ph.D., *Associate Director of Admissions.*
William C. Pomeroy, Ph.D., *Registrar.*
Vern O. Knudsen, Ph.D., *Dean of the Graduate Division, Southern Section.*
Milton E. Hahn, Ph.D., *Dean of Students.*
Clifford H. Prator, Ph.D., *Foreign Student Adviser.*
Donald P. LaBoskey, A.B., *Supervisor of Special Services.*
Lawrence C. Powell, Ph.D., Litt.D., *Librarian.*
Paul C. Hannum, B.S., *Business Manager.*
J. D. Morgan, B.S., *Assistant Business Manager and Residence Halls and Housing Supervisor.*
Robert A. Rogers, A.B., *Accounting Officer.*
Aubrey L. Berry, Ed.D., *Assistant Manager, Office of Teacher Placement.*
John W. Adams, A.B., *Placement Office Manager.*
Dorothy M. Clendenen, Ed.D., *Manager, Counseling Center.*
Donald S. MacKinnon, M.D., *Director, Student Health Service.*

SCHOOL OF MEDICINE

Los Angeles

OFFICERS OF ADMINISTRATION AND INSTRUCTION

Administration

- Stafford L. Warren, M.D., D.S., *Dean of the School of Medicine, Professor of Biophysics and Director of the Atomic Energy Project.*
- Joseph F. Ross, M.D., *Associate Dean of the School of Medicine, and Professor of Medicine and Radiology (Radiobiology).*
- Joel J. Pressman, M.D., D.S., *Assistant Dean of the School of Medicine, Professor of Surgery and Chief of the Division of Head and Neck Surgery.*
- Thomas H. Sternberg, M.D., *Assistant Dean, Postgraduate Medical Education, and Professor of Medicine (Dermatology).*
- Kenneth M. Eastman, B.S., *Hospital Administrator.*
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GENERAL STATEMENT

CREATION OF THE MEDICAL CENTER at the University of California, Los Angeles, was started in 1946, when the Legislature first appropriated construction funds. It was located on a 35-acre on-campus site, so that the health sciences could be integrated with the other schools, departments, and facilities of the University, in order to provide an optimum educational and cultural environment for medical and nursing students. Construction of the first phase of the Medical Center building began in 1951, and the first unit of the Medical Center was completed in the fall of 1954. The combined medical school and hospital contains more than 600,000 square feet. It has been designed to allow expansion in a vertical direction to a height of 12 stories. Its basic shape is a double Lorraine cross surrounding two 150-foot square courtyards.

FACILITIES

The University of California Medical Center, Los Angeles, located on the south end of the campus, integrates an academic teaching program with the practical care of patients in a 320-bed teaching hospital, which also includes quarters for Student Health Services. It also represents a full-scale effort to coordinate the basic sciences and the clinical sciences within the walls of a single university. The center is physically joined to the new Life Sciences Building by the Biomedical Library. Other science buildings, such as chemistry, engineering, physics, education, and psychology are grouped north of the center to form a Court of Sciences.

Close affiliations for teaching and research are established with the Los Angeles County Harbor General Hospital in Torrance (750 beds), and the Veterans' Hospitals at Wadsworth (1,800 beds), Sawtelle (2,000 beds), Brentwood (3,500 beds), Long Beach (1,600 beds), and the State Department of Mental Hygiene Hospitals, which provide an excellent supplement to clinical teaching material and research facilities of the University Hospital and laboratories.

ADMISSION REQUIREMENTS

Basis of Selection: Enrollment in the School of Medicine is limited and it will not be possible to accept a number of applicants who might qualify for admission were the laboratory and clinical facilities greater.

Candidates will be selected on the basis of the following considerations:

1. Undergraduate and, where applicable, graduate scholarship.
2. Score on the Medical College Admissions Test, which is administered for the Association of American Medical Colleges by the Educational Testing Service, which test must have been taken not later than November of the year during which application is made.
3. The results of an interview of the applicant by members of the Admissions Committee.
4. Evaluation of the applicant's accomplishments and character by writers of letters of recommendation.

Preference is given to students who, in the opinion of the Committee on Admissions, present evidence of broad training and high achievement in their college training, of capacity for establishment of effective working relations with people in extracurricular activities and employment, and of possessing in greatest degree those traits of personality and character essential to success in medicine.

Except under extraordinary circumstances, no more than five candidates (ten per cent), who are not *California applicants* will be admitted. To be regarded a *California applicant*, a student must meet one of the following requirements:

1. He must have completed 60 units or more in an accredited college or university in the State of California, or

2. He must be a legal resident of the State of California, who lived in the State *immediately prior* to beginning his premedical work and who left the State temporarily for completion of all or part of his premedical work.

For the five places for candidates who are not California applicants, preference will be given to legal residents of the following western states having no medical schools: Nevada, Arizona, Idaho, Montana, Wyoming, New Mexico, and the territories of Alaska and Hawaii. Ordinarily no more than two applicants will be accepted from other portions of the United States, or from outside the continental United States, Alaska, and Hawaii. Such applicants must have completed at least one year at the University of California, Los Angeles, or at an equivalent institution in the United States.

Successful candidates must pass a physical examination before registering in the School of Medicine. Attention is called to the fact that the faculty has the right to sever at any time the connection with the School of Medicine of any student who is considered to be physically, morally or mentally unfit for a career in medicine.

Premedical Training: Ordinarily the requirement for admission to the first-year class of the School of Medicine is a baccalaureate degree but in exceptional instances students who have completed three full academic years (90 semester units toward a baccalaureate degree) at an approved college or university may be admitted. The academic years should be devoted to obtaining as broad an education as possible. The major objectives should be the following: (1) facility in the use of English, written and spoken; (2) facility in quantitative thinking represented by mastery of at least elementary mathematics; (3) such training in physical and biological science as will make possible ready comprehension of medical science and result in a thorough comprehension of the scientific method; (4) a foundation for an ever-increasing insight into human behavior, thought and aspiration through study of individual man and his society, as revealed both by the social sciences and the humanities; and (5) some knowledge of a language and culture other than the student's own.

These objectives will ordinarily require completion of the following studies:

(1) English composition or literature, 6 units; (2) Mathematics, 3 units; (3) Physics, 8 units; (4) Chemistry, 19 units, including lecture and laboratory courses in general chemistry, quantitative analysis and organic chemistry; (5) Zoology, 12 units, including vertebrate embryology; and (6) a classical or modern foreign language, at least 12 units, with attainment of facility in reading this language.

However, under exceptional circumstances, the Committee on Admissions may consider students who will not have fully satisfied all of these requirements.

In addition to these requirements, students working for baccalaureate degrees must fulfill the specific requirements for such degrees. Attention of students is also called to the fact that other medical schools often have certain requirements in addition to those listed above, e.g., microtechnique and comparative anatomy.

In the time not occupied by the required courses, students should undertake studies directed to the fourth objective stated above, guided by their own interests. Preference will not be given to students who major in natural science, intensive study in the social sciences and in the humanities is considered at least equally valuable. Courses in the medical sciences or in very closely related fields are undesirable since not only will such work be covered adequately in the School of Medicine but also its inclusion displaces courses that would contribute to the student's broad education.

Completion of Requirements: The student must, with the occasional exceptions cited above, complete all premedical requirements before beginning the first year of medical studies, although these requirements need not be completed at the time application for admission is filed.

MEDICAL COLLEGE ADMISSION TEST

All candidates must have taken the Medical College Admission Test not later than the fall preceding admission to the School of Medicine. Ordinarily, no applicant may substitute his grade in a second or third test because it is higher than his first grade. However, the test should be repeated if, at the time of application, more than two years have elapsed since the last test. Ordinarily these tests are given in May and November of each year. Placards announcing the date, time, and place of the tests will be posted in all universities and colleges. Further information may be obtained from the Educational Testing Service, P. O. Box 592, Princeton, N.J., or 4641 Hollywood Boulevard, Los Angeles 27, California.

Admission Procedure: Applications are made in the fall for admission to the first-year class to be admitted during the following fall. Application blanks, together with necessary information may be obtained after April 1, of the year of application, from:

Admissions Office
Administration Building
University of California
Los Angeles 24, California

No application blanks will be given out after *November 15*.

The completed application forms, together with all transcripts of records of each school attended, including high school, and other necessary documents must be on file with the Admissions Office at the above address as soon as possible, but in no case later than *November 30*. Late applications cannot be considered.

The application must be accompanied by draft or money order for \$5, made payable to The Regents of the University of California. This is in payment of the application fee. (A student who has previously paid the fee with application for admission to the University of California as an undergraduate

is not required to pay it a second time unless he has been awarded a bachelor's degree. A student who has a bachelor's degree will be required to pay the fee unless he has previously paid it with application for admission to the University of California as a graduate student.) The application fee is not refundable. (Veterans who expect to enroll under the provisions of Public Law 346, or Public Law 16, are not required to remit this fee with their application, but should enclose a photostatic copy of their separation papers.)

Veterans of World War II apply in the same manner as other applicants.

Reapplication: A student not admitted as the result of his first application may file a second application in one succeeding year. However, no third application may be filed.

A successful applicant who is unable to start work or who enters but finds it necessary to withdraw within the first year, loses his place and, if he desires to begin work in a later year, is required to reapply with that year's applicants.

INTERVIEWS

Appointments for personal interviews are made by the Office of Student Affairs of the School of Medicine after (1) a formal application has been filed and (2) credentials have been checked.

Certain applicants may be rejected, without interview, because of low pre-medical scholarship, and/or low score in the Medical College Admission Test, and occasionally, for other reasons. No personal interview appointments are given until the applicant's record has been checked except where this would impose serious personal hardship on the applicant.

The Admissions Office will attempt to process applications according to the date of filing so that, usually, an applicant who files early will be interviewed early.

Ordinarily students seeking admission must come to Los Angeles to be interviewed; however, in very exceptional cases, arrangements for interview by faculty members of distant colleges or universities may occasionally be made. However, an applicant coming from a distance for the interview will do so entirely on his own responsibility. Merely appearing for the interview will not guarantee admission.

Notice of acceptance or rejection will be sent applicants as soon as possible after completion of the interviews. In the meantime, no student will be given notice of tentative acceptance.

Immediately upon notice of acceptance, the candidate will be required to make a deposit of \$50, which will apply on the first semester's tuition. This deposit may be refunded if the student fails to complete the requirements, or if prior to January 15 he desires to withdraw his application, but it is not refundable for any other reason.

Admission to Advanced Standing: Students who have completed one or two years in an approved medical school and who desire to transfer to this school should apply to the Office of Student Affairs of the School of Medicine for instructions. Applications will be received after May 1, but not later than July 15. In no case will applications for transfer to the fourth year class be considered.

FEES AND OTHER EXPENSES

School of Medicine fees for all students must be paid to the Cashier, Business Office, Administration Building, University of California, Los Angeles campus, at the time of registration each semester. Fees are determined by the Regents of the University, and are as follows:

FEES PAYABLE EACH SEMESTER

California Residents—

Incidental Fee	\$ 42.00
Tuition Fee	125.00
	\$167.00
Total	\$167.00

Nonresidents—

Incidental Fee	\$ 42.00
Tuition Fee	250.00
	\$292.00
Total	\$292.00

For those who have not obtained a baccalaureate degree and are therefore undergraduates, an additional fee of \$8 is required for membership in the Associated Students.

Aliens who have not made valid declarations of intention to become citizens are classified as nonresidents of California.

One who fails to pay fees on the date fixed for this payment each semester must give up all privileges as a student until his financial relations with the University have been arranged satisfactorily with the Dean of the School of Medicine. The student must have discharged all indebtedness to the School before the M.D. degree may be awarded.

A student registered in the School of Medicine who takes less than the required amount of work in any semester pays only a proportional amount of the tuition fee, but is charged the full incidental fee.

If a student is granted an honorable dismissal before the end of any semester, he may be given a refund on part of his fees. In such cases he must present his fee receipt.

OTHER EXPENSES

The student is required to furnish his own equipment. In addition to paying his fees, he should be prepared to purchase his textbooks, syllabi, and instruments. A microscope is essential and each student must purchase his own.

Each student must purchase a stethoscope and a sphygmomanometer for use in physiology in the first year, and a blood-counting apparatus and an ophthalmoscope for the practical work which starts in the second year.

All students working on wards and in out-patient clinics are required to wear white coats. Each student must have at least three coats.

SCHOLARSHIPS

During the academic year 1956-1957, a number of scholarships will be available to medical students in all classes. Scholarships are granted by the Committee on Scholarships and Fellowships and in general are awarded for a

period of one year, the basis of selection being evidence of scholastic excellence, promise of achievement in the field of medicine, and financial need. The amount of the scholarships will vary. Following acceptance into the School of Medicine, entering students may make application for Medical Scholarships any time prior to May 15. Resident students may also make application for scholarships any time prior to this date. At the end of the academic year, the student's application will be reviewed by the Committee and dependent upon continuing financial need and proof of scholastic excellence, the scholarship may be extended for the following year.

The Scholarships award for the year 1955-1956 are as follows:

ANDREA AND VICTOR CARTER FOUNDATION SCHOLARSHIP

John M. SouthwellFourth Year
 Bruce L. RobisonThird Year

THE HALPER FOUNDATION SCHOLARSHIP

Ralph B. AllisonFourth Year
 Robert B. FaulknerThird Year
 Jerrold A. TurnerThird Year
 John T. NicoloffSecond Year

THE HENRY J. KAISER FOUNDATION SCHOLARSHIP

Thomason C. ShawFourth Year
 James K. EkegrenFourth Year
 Daniels D. HansenFourth Year
 David H. ArmstrongThird Year
 Jack W. CoburnThird Year

THE SAMUEL GOLDWYN FOUNDATION SCHOLARSHIP

Robert NeerhoutThird Year
 Robert ElstadSecond Year
 John M. NeffFirst Year

THE BETTY ANN SCHNEE MEMORIAL SCHOLARSHIP

Brigid GrayFirst Year
 Joan GormleyFirst Year

THE STACEY MEMORIAL AWARD

Donald G. Siegel.....Resident in Psychiatry

THE NATHAN AND ZARA VOLIN MEDICAL SCHOLARSHIPS

Established through the UCLA Progress Fund

Louis ConwayFourth Year

THE MEDICAL SCHOLARSHIP OF THE MEDICAL, DENTAL AND PHARMACEUTICAL ASSOCIATION OF SOUTHERN CALIFORNIA

Donald M. SmallSecond Year

REGULATIONS

Registration

Students in the School of Medicine register on the announced dates at the University of California, Los Angeles.

Approval of Study Cards

Immediately after registration, each first-year student should mail his study card to the Dean's Office of the School of Medicine. It will be approved at once and returned to him.

Honors with the A.B. Degree

Students finishing the first year's work in the School of Medicine who announce their expectation of receiving the Bachelor of Arts degree in the College of Letters and Science are recommended for honors on the basis of the quality of work done in that year.

Absence and Withdrawal

Absence with permission. Short leaves of absence, not to exceed six weeks in any one academic year (to comply with the provisions of the Medical Practice Act of the State of California), may be granted in cases of illness or other emergency with the understanding that the student will arrange with the instructors concerned to make up all of the work which he has missed.

Students who withdraw from the School of Medicine without notice or who fail to report after leave of absence, will automatically terminate their connection with the School of Medicine.

In addition, if he fails to register for any term within one month after the opening of such term, the student will be considered as having terminated his connection with the School, unless such student has requested an honorable dismissal because of illness, or for some other reason.

Honorable dismissals. Students who are unable to return to School at the opening of any semester or who are forced to discontinue their work for any reason during the academic year will be granted honorable dismissals, provided their scholastic record is satisfactory. Should such students desire to return to school they must apply in the same manner as other applicants for admission to advanced standing.

DISMISSAL

The faculty has the right to sever, at any time, the connection with the School of Medicine of any student who is considered to be physically, morally, or mentally unfit for a career in medicine.

A student may be dropped upon recommendation of the Executive Faculty Committee. The committee meets regularly at the end of each semester, but may also meet at other times to act upon specific cases. It may recommend, (A) promotion to the next class, (B) promotion to the next class, subject to certain conditions, such as special work, probation, etc., or (C) dismissal.

Recommendations are made to the Dean, who has the authority to carry these out.

While the majority of the students whose dismissal is recommended by the committee are dropped because of low scholarship, in some instances, dismissal may be recommended for other reasons.

Medical and Physical Examination

All new students must appear before the Student Health Service and pass a medical examination to the end that the health of the University community as well as of the individual student may be safeguarded. Those students living in Los Angeles or environs should contact the office of the Student Health Service for an appointment for examination sometime during the summer. Those who are unable to do this may be examined after September 10. Those students who live at some distance from Los Angeles should present a certificate from the Health Service of the University from which they come relative to their fitness to carry on work in the School of Medicine. Whenever possible, defects capable of remedial treatment, such as diseased tonsils or imperfect eyesight should be corrected before registration. Those who are examined elsewhere must be rechecked by the University Health Service at the time of registration. Every new student entering the University must include with his application for admission a certificate testifying to successful vaccination against smallpox within the last seven years. Tests for tuberculosis are part of the examination of all new students. Applicants for admission who have active diseases will be excluded. Those having physical conditions, such as convulsive seizures, which grossly disturb the classwork of other students, should not apply for admission.

Student Health Service

The purpose of the Student Health Service is to conserve the time of students for their classwork and studies, by preventing and treating acute illnesses. To this end an annual physical examination and a full program of immunization is required for each student. Renewal of registration is contingent upon fulfilling these requirements.

Each registered student may, at need, have such consultations and medical care on the campus, from the time of payment of his registration fee to the last day of the current semester. Surgical treatment is also included in the services when, in the opinion of the Director of the Student Health Service, this service is necessary and within the limitations herein outlined.

If illnesses are of a nature requiring long-continued care so that the student may not be returned to classes during the current semester, or if at the end of the semester the patient is still ill, he will be released to his home or community as soon as the Director of the Student Health Service considers it safe. Additional charges will be made for unusual appliances or remedies not ordinarily available.

The Health Service does not take responsibility for chronic physical defects or illnesses present at the time of entrance to the University.

Dental services are not furnished by Student Health Service.

Grading in the School of Medicine

The judgment of an instructor of a student's work is based on personal association and observation, on oral, written, or practical examination, or on a combination of these methods.

Students in the School of Medicine are graded as follows:

- A Excellent
- B Good
- C Fair
- D Barely Passing
- E Not Passing

Grade E denotes a record below passing, but one which may be raised to a passing grade without repetition of the course by passing a further examination or by performing other tasks required by the instructor. The term "incomplete" is not used in reporting the work of students. The instructor is required to assign, for every student, a definite grade based upon the work actually accomplished, irrespective of the circumstances which may have contributed to the results achieved.

Plan of Instruction and Curriculum

General Requirements: The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years. He must be of good moral character. He must have studied medicine as a matriculated student for eight semesters, the last four of which must have been in the University of California School of Medicine at Los Angeles. He must have completed the required work and have fulfilled satisfactorily all special requirements. He must have discharged all indebtedness to the School of Medicine.

Plans of Instruction: In general, the four-year curriculum leading to the degree of Doctor of Medicine is divided into two two-year periods: basic sciences and clinical instruction though every effort is made to integrate the two as much as possible. In the first two years approximately 75 per cent of the instruction is devoted to basic and 25 per cent to clinical instruction. In the last two years a quarter of the instruction is devoted to basic science, and three quarters to clinical subjects. The work of the basic science years includes anatomy, histology, physiology, biochemistry, pathology, infectious diseases, immunology, preventive medicine, hygiene, and pharmacology. Much of the students' time during this period is devoted to laboratory instruction. Also included in the preclinical years is instruction in physical diagnosis, laboratory diagnosis and the basic anatomy and physiology of surgery, medicine, pediatrics, and obstetrics. Correlation clinics are given each week at which patients are presented with clinical aberrations of the organ systems, the anatomy and physiology of which the students are currently studying. A course in family medicine designed to familiarize the student with the growth and development of the child and to orient him with regard to the impact of illness upon the family begins in the first year and will be continued throughout the four years.

Instruction in the third and fourth years includes practical work with patients, supplemented by lectures, conferences, and amphitheater clinics. Students rotate through the different clinical fields, spending an appropriate length of time in each. The practical work takes place in the outpatient clinics, at the bedside and in the clinical laboratory.

ANATOMY

- Charles H. Sawyer, Ph.D., *Professor of Anatomy (Chairman of the Department)*.
- H. W. Magoun, Ph.D., *Professor of Anatomy*.
- John D. Green, M.D., *Associate Professor of Anatomy (Microscopic Anatomy)*.
- Robert B. Livingston, M.D., *Associate Professor of Anatomy and Physiology (Neuroanatomy)*.
- Daniel C. Pease, Ph.D., *Associate Professor of Anatomy (Microscopic Anatomy)*.
- Robert D. Tschirgi, M.D., Ph.D., *Associate Professor of Anatomy and Physiology (Neuroanatomy)*.
- Charles A. Barraclough, Ph.D., *Assistant Professor of Anatomy (Gross Anatomy)*.
- Carmine D. Clemente, Ph.D., *Assistant Professor of Anatomy (Gross Anatomy)*.
- Earl Eldred, M.D., *Assistant Professor of Anatomy (Surgical Anatomy)*.
- *Richard C. Greulich, Ph.D., *Assistant Professor of Anatomy (Growth and Development)*.
- Karl M. Knigge, Ph.D., *Assistant Professor of Anatomy (Microscopic Anatomy)*.
- David M. Prescott, Ph.D., *Assistant Professor of Anatomy (Growth and Development)*.
- Arnold B. Scheibel, M.D., *Assistant Professor of Anatomy (Neuroanatomy) and Psychiatry*.

COURSES FOR MEDICAL AND GRADUATE STUDENTS

101. **Microscopic Anatomy.** (5½) I. Green and Pease and Staff
Microscopic structure of human tissues and organs.
103. **Basic Neurology.** (3) II. Magoun and Staff.
(To be taken concurrently with Physiology 103)
105. **Gross Anatomy of the Human Body.** (11½) I. Sawyer and Staff
Structure of the body as revealed by dissection.
222. **Basic Medical Science.** (½) I or II, 4th Year. The Staff
231. **Surgical Anatomy.** (1) II, 4th Year. Eldred
An elective course for senior medical students, taken concurrently with Surgery 231. A cadaver prosection is carried out, and the regions of the body are discussed by both anatomist and surgeon.
240. **History of Medicine.** (1) II, 1st Year. The Staff
An elective course. Outline of the development of the basic medical sciences from ancient times to the present.

*On leave.

- 241. History of the Clinical Sciences.** (1) II, 4th Year. The Staff
An elective course. Outline of the development of the clinical specialties and comparison between medical practice in western civilization and that which developed in other parts of the world.
- 251. Seminar in Microscopic Anatomy.** (1-2) I, II. Green and Pease
- 253. Seminar in Experimental Neurology.** (1-2) I, II. Magoun
- 255. Seminar in Endocrinology.** (2) II. Sawyer and Barraclough
Neuroendocrinology will be offered 1956-1957.
- 290. Research.** (1-6) I, II. The Staff

BIOPHYSICS

Albert W. Bellamy, Ph.D., *Professor of Biophysics (Chairman of the Department)*.

* Wilbur A. Selle, Ph.D., *Professor of Biophysics.*

Stafford L. Warren, M.D., *Professor of Biophysics.*

Jean D. Bath, Ph.D., *Assistant Professor of Biophysics.*

Marcel Verzeano, M.D., *Assistant Professor of Biophysics.*

Kenneth S. Mills, Ph.D., *Instructor in Biophysics.*

For information concerning the undergraduate interdepartmental curriculum in Biophysics, see the ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES.

COURSES FOR MEDICAL STUDENTS

First Year

- 101. Elements of Medical Biophysics.** (2) II. Verzeano and the Staff
Lectures on the principles of physics in relation to normal physiology and to the diagnosis and treatment of disease. While designed for medical students, a limited number of qualified graduate students will be permitted to take the course with the consent of the instructor.

Fourth Year

- 222. Basic Medical Science.** (†) I or II. The Staff
Lectures, demonstrations and conferences on biophysical principles important in medical science.

COURSES FOR GRADUATE STUDENTS

- † **240. Electrodiagnostic Techniques.** (1) II. Selle
The principles of electrocardiography, electromyography, electroencephalography, electroplethysmography and other electronic methods involving a consideration of electrophysics, action potentials, techniques and procedures of taking records, together with a systematic description of mechanisms. Certain periods will be devoted to experimental work and to the taking of records on hospital patients.

* On leave.

† Not to be given, 1956-1957.

- 241A-241B. Molecular Aspects of Protoplasm.** (2-2) Yr. Bath
Lectures, two hours.
An adaptation of our knowledge of molecular structure to biological concepts of protoplasm and extraneous cell parts. Molecular level considerations are related to the atomic level below and the micellar level above. Electrical aspects as well as structural are included.
- 251A-251B. Seminar in Biophysics.** (1-1) Yr. Mills and the Staff
A review and discussion of current literature on the use of biophysical methods in research, diagnosis and therapy. Consent of the instructor in charge is required.
- 260. Seminar on the Physics of Viruses.** (1) I. Bath
Lectures and discussions 2-3 hours biweekly.
A review of the results of the application of physical concepts and physical tools to the study of viruses.
- 265A-265B. Seminar in Cell Biophysics.** (1-1) Yr. Bath
Lectures and discussion, one to two hours per week.
Survey of living material on subcellular levels with the emphasis on physical concepts. General topics covering the area of cell biophysics, differing each semester for three consecutive years.
- 275. Biophysical Research.** (2-8) I, II. Warren, Bellamy and the Staff
The facilities of the laboratory will be offered to qualified graduate students for the investigation of their own problem or problems which the department is prepared to suggest. Consent of the instructor in charge is required.
- 299. Special Problems for Graduate Students** (1-4) I, II.
Warren, Bellamy, and the Staff
Any properly qualified graduate student who wishes to pursue a problem through reading or advanced study may do so if his proposed project is acceptable to a member of the staff.

INFECTIOUS DISEASES

- Charles M. Carpenter, M.D., *Professor of Infectious Diseases (Chairman of Department).*
- Lenor S. Goerke, M.D., *Professor of Preventive Medicine and Public Health and Infectious Diseases.*
- John F. Kessel, Ph.D., *Professor of Infectious Diseases (Parasitology and Tropic Diseases).*
- Aaron F. Rasmussen, Jr., M.D., *Professor of Infectious Diseases (Virology).*
- Riojun Kinoshita, M.D., *Visiting Professor of Pathology and Infectious Diseases.*
- Ruth A. Boak, M.D. (Mrs. Donald L. Ferris), *Associate Professor of Infectious Diseases and Pediatrics.*
- David L. McVickar, M.D., *Associate Professor of Infectious Diseases (Mycology).*
- David T. Imagawa, Ph.D., *Assistant Professor of Pediatrics and Infectious Diseases.*

Edward K. Markell, M.D., *Assistant Professor of Infectious Diseases (Parasitology and Tropic Diseases)*.

*Leroy C. McLaren, Ph.D., *Assistant Professor of Infectious Diseases (Virology)*.

*Eric L. Nelson, Ph.D., *Assistant Professor of Infectious Diseases (Bacteriology)*.

Margret I. Sellers, Ph.D., *Assistant Professor of Infectious Diseases (Virology)*.

Marietta Voge, Ph.D., *Assistant Professor of Infectious Diseases (Parasitology and Tropic Diseases)*.

Henry E. Weimer, Ph.D., *Assistant Professor of Infectious Diseases (Immunochemistry)*.

Dexter H. Howard, Ph.D., *Instructor in Infectious Diseases (Bacteriology)*.

COURSES FOR MEDICAL STUDENTS

Second Year

201. Infectious Diseases.

The Staff

Lectures and laboratory. Identification of the infectious agents of man usually presented in Medical Bacteriology, Mycology, Parasitology, and Tropic Diseases and Virology, but with special emphasis on host-parasite relationships including immunity, epidemiology, prevention, and laboratory diagnosis.

I, M W F, 8-12; M, 1-5.

267 hr. (10).

Fourth Year

230. Infectious Diseases (Tropical Medicine).

Staff

An elective course.

II, hours to be arranged.

15 hrs. (1).

COURSES FOR GRADUATE STUDENTS

The Department of Infectious Diseases offers advanced study, leading to the M.S. and Ph.D. degrees, in medical bacteriology, mycology, parasitology and tropic diseases, virology, and immunochemistry. The program, however, is designed for the student whose primary interest is in the field of infectious agents as related to medicine and the host-parasite relationship, rather than for students seeking advanced training in one of the specialized fields.

For admission to regular graduate status in Infectious Diseases, a student must meet the requirements of the Graduate Division and hold an approved bachelor's degree with a major in a field related to infectious diseases.

Requirements for the Master's Degree

1. The general requirements of the Graduate Division.
2. Chemistry 108A and 108B, Infectious Diseases 201.
3. A thesis (Plan I).

* On leave.

Requirements for the Doctor's Degree

1. The general Graduate Division requirements.
 2. **Infectious Diseases 201, Microscopic Anatomy 101 (Histology), Pathology 201-202.**
201. **Infectious Diseases.** Carpenter and Staff
Lectures and laboratory.
I, M W F, 8-12; M, 1-5. 267 hrs. (10).
208. **Infectious Diseases (Medical Virology).** (4) S. T.
Presented in alternate years. Rasmussen and Staff
- 251A-251B. **Seminar in Infectious Diseases.** (1-5) Yr.
Hours to be arranged. Carptenter and Staff
- 291A-291B. **Research in Infectious Diseases.** (2-5) Yr.
Carpenter and Staff
- A limited number of qualified graduate students may be admitted with the approval of the staff of the Department of Infectious Diseases.
Hours to be arranged.

MEDICINE

- Fred A. Bryan, M.D., *Professor of Medicine (Industrial Medicine)*.
John S. Lawrence, M.D., *Professor of Medicine (Chairman of the Department)*.
Augustus S. Rose, M.D., *Professor of Medicine (Neurology)*.
Thomas H. Sternberg, M.D., *Professor of Medicine (Dermatology)*.
William S. Adams, M.D., *Associate Professor of Medicine*.
*Charles G. Craddock, Jr., M.D., *Associate Professor of Medicine*.
William L. Hewitt, M.D., *Associate Professor of Medicine (Infectious Diseases)*.
*Albert A. Kattus, Jr., M.D., *Associate Professor of Medicine (Cardiology)*.
William N. Valentine, M.D., *Associate Professor of Medicine*.
Irwin M. Weinstein, M.D., *Visiting Associate Professor of Medicine*.
William G. Figueroa, M.D., *Assistant Professor of Medicine*.
Christian Herrmann, M.D., *Assistant Professor of Medicine (Neurology)*.
Sherman M. Mellinkoff, M.D., *Assistant Professor of Medicine (Gastroenterology)*.
David H. Solomon, M.D., *Assistant Professor of Medicine*.
Sydney M. Finegold, M.D., *Instructor in Medicine*.
Roger K. Larson, M.D., *Instructor in Medicine*.
John Reynolds, M.D., *Instructor in Medicine*.

Instruction in the Department of Medicine will be provided throughout the second, third, and fourth years of the Medical School curriculum. In the second year, instruction includes the course in Introduction to Clinical Medicine (Medicine 201) and the course in Clinical Microscopy (Medicine 202). Medicine 201 is a coöperative effort with the other clinical departments of the School of Medicine to give instruction in medical history-taking and

* On leave.

physical diagnosis, and to provide introductory experience with the major segments of disease—medical, surgical, pediatric, and obstetric. In Medicine 202, instruction is given in clinical laboratory methods with special reference to those applicable in hematology and in the examination of normal and pathological body fluids and secretions.

During the third and fourth years one-fourth of the class at any one time will be engaged in the clinical clerkship under the Department of Medicine. The third-year clerkship centers largely on ward and inpatient work. Further instruction in history, physical diagnosis, diagnostic and therapeutic procedures is given. Patients are assigned on admission to a student who performs initial clinical and laboratory examinations. Each patient is then the subject for bedside instruction to small groups of students. Included in the clerkship is instruction in neurology and dermatology involving assignment of patients, demonstrations and didactic lectures. Joint seminars and conferences with participation of other departments are held with selected patients as the subject for discussion. A systematic course of lectures and formal clinic presentations throughout both semesters of the third and fourth years is given to introduce the student to the major problems of clinical medicine and therapeutics.

During the fourth year, a considerable portion of the instruction will be in the outpatient department. Additional time will be devoted to inpatient work similar in nature to that in the third year. Clinical material in neurology and dermatology will be presented during the clerkship in medicine. In addition, regularly scheduled lecture and clinic sessions will be held for the combined third and fourth year classes to present in systematic fashion the problems of clinical medicine and therapeutics.

COURSES FOR MEDICAL STUDENTS

Second Year

201. Introduction to Clinical Medicine.

Adams and the Interdepartmental Staff

Detailed instruction and experience in medical history-taking and physical examination and introduction to the major segments of disease as seen in medical, surgical, pediatric, and obstetrical practice. The various clinical departments participate jointly.

II, M Th, 1-5, F, 1-5 x 13.

188 hr. (6).

202. Clinical Microscopy.

Valentine and the Staff

Lecture instruction and laboratory experience are provided in hematology and hematologic techniques and in the examination of body fluids and secretions in health and disease.

II, M W, 8-12.

144 hr. (4).

Third Year

210. Medicine.

The Staff

Each student is assigned to a clinical clerkship for nine weeks. During this period bedside instruction is given in history-taking, physical diagnosis, diagnostic and therapeutic procedures. Students are assigned inpatient cases where problems are then discussed after initial evaluation by the student. Cases assigned include those with dermatologic and neurological diseases.

The entire group assigned to Medicine meets weekly for a special two-hour conference at which selected patients are presented by the students assigned and their problem discussed. In addition, systematic lectures and clinical demonstrations covering the major problems of clinical medicine and therapeutics are presented on a weekly basis to the entire third-year class throughout the year. Students on assignment to Medicine attend weekly medical staff conferences during their period of assignment. An additional 14 clinics are presented during the year to the entire class by various medical specialties.

I, II, Th, 12-1; F, 12-1 x 14; M Tu W Th, 8-12, 2-5; F, 8-12; F, 2-5 or S 9-1 for 9 weeks. 358 hr. (10½).

Fourth Year

220. Medicine.

The Staff

Each student is assigned to the medical outpatient service for four and one-half weeks and to inpatient service for four and one-half weeks. During the period in the outpatient department each student receives assignment of patients for complete history, physical examination, and certain laboratory and diagnostic procedures. After evaluation, each patient is discussed in detail with a member of the staff and further procedures or therapy recommended. Follow-up visits are assigned to student making initial evaluation. Special instruction is provided in specialty clinics including dermatology. Inpatient assignments provide bedside instruction in diagnosis and management of illness in the field of general medicine and the medical specialties. Seminars and demonstration clinics supplement individual case work. In addition, weekly clinics are given for the entire class throughout the fourth year. An additional correlation clinic is given weekly immediately following a one-hour period of basic science instruction. This is designed to illustrate basic changes in body structure, function, and chemistry with pertinent clinical material and case problems. Fourteen clinics covering material in the medical specialties are also given to the entire class during the fourth year. Special lectures and seven field trips are conducted in the field of industrial medicine.

I, II, Th, 12-1; F, 12-1 x 14; S, 8-9 x 5, 12-1 x 10; field trips 7, M Tu W Th F, 8-12, 2-5. 375 hr. (10½).

ELECTIVE

231. Clinical Electrocardiography.

The Staff

Special instruction is provided in the theory, practice, and interpretation of electrocardiography.

I, S, 9-11 x 6.

12 hr. (¾).

POSTDOCTORAL TRAINING

The internships at the University of California Medical Center are straight internships. All interns in Medicine rotate through inpatient services (men and women), outpatient department, screening clinic and emergency service, and during a portion of their service are assigned to inpatient student health patients. Inpatient and outpatient assignments include dermatologic and neurologic patients.

Assistant and associate residents rotate through similar divisions but with increased supervisory responsibilities. In addition, all interns, assistant and associate residents and residents are required to attend clinicopathological

conferences, medical staff conferences, specialty conferences and clinics, and, in the case of assistant residents, a period of electrocardiographic interpretation as detailed below. Associate residents spend increased time in specialty clinics covering gastroenterology, cardiopulmonary disease, cardiorenal disease, metabolic diseases, endocrinologic diseases, allergic diseases, and hematologic diseases. On an elective basis provision for two to six months special service on specialty wards covering cardiology, gastroenterology, pulmonary, metabolic and renal disease and neurology may be made for associate residents on the corresponding specialty wards of General Medical and Surgical Hospital, Veterans Administration Center, Los Angeles, under supervision of the department staff. Arrangements are also available for assistant residents, associate residents, and residents to participate, under supervision, in research programs of members of the department on an elective basis. In addition, the chief residents have special administrative, teaching, and clinical responsibilities as detailed subsequently.

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS

250A. Clinicopathological Conferences. Madden, Lawrence, and Staffs

Required for interns. Weekly conferences are held for consideration of the correlation of clinical manifestations of disease with post-mortem findings. Discussion is provided by members of the clinical departments and the Department of Pathology.

250B. Required for assistant residents.

250C. Required for associate residents.

250D. Required for residents.

(48 hours per year—3 units per year)

251A. Medical Staff Conferences. Lawrence and Staff

Required for interns. Conferences are held weekly, with presentation of cases by the interns. The problems are discussed, by members of the faculty and visiting professors in terms of diagnosis, therapy, etiology, and pathophysiology.

251B. Required for assistant residents.

251C. Required for associate residents.

251D. Required for residents.

(52 hours per year—3 units per year)

252A. Specialty Clinics. Lawrence and Staff

Required for interns. Outpatients under the care of interns and resident staff in General Medical Clinic are presented by them to members of the staff in Gastroenterology, Cardiopulmonary, Cardiorenal, Metabolic-Endocrine, Allergy, and Hematology clinics, for recommendations and instruction. Emphasis is placed on continued management of the case by the house officer who initiates the patient's care.

252B. Required for assistant residents.

252C. Required for associate residents.

(30 hours per year for interns and assistant residents—2 units per year)

(312 hours per year for associate residents—20 units per year)

253A. Specialty Conferences.

Rose, Valentine, Kattus and Staff
of Department of Radiology

Required for interns. Conferences are held providing special instruction in neurology, hematology, electrocardiography and in radiologic diagnosis.

253B. Required for assistant residents.

253C. Required for associate residents.

253D. Required for residents.

(156 hours per year—8 units per year)

254A. Electrocardiographic Interpretation.

The Staff

Required for assistant residents. Responsibility for interpretation of all electrocardiograms is rotated among the assistant residents. Instruction in this subject is provided by members of the cardiology staff through daily reviews.

(64 hours per year—4 units per year)

255A. Specialty Ward Work.

Lawrence and Staff

Elective for associate residents. Provision is made for specialized training in cardiology, gastroenterology, pulmonary disease, metabolic and renal disease and neurology on the corresponding specialty wards of the General Medical and Surgical Hospital, Veterans Administration Center, under the supervision of members of the department staff.

(2-6 months per year on elective basis. Units to be arranged)

256A. Research.

Lawrence and Staff

Elective to assistant residents. Arrangements are available for participation, under supervision, in the research programs of members of the department.

256B. Elective for associate residents.

256C. Elective for residents.

(Hours and units to be arranged)

450A. Clinical Work and Ward Rounds.

Lawrence and Staff

Required for interns. Participation in the care of patients on the inpatient and outpatient services includes history-taking, physical examination, laboratory tests, and direction of the patients' diagnostic studies and therapeutic programs. These activities are supervised by the department staff through teaching rounds on the wards and in the clinics. Emergency Service experience is also provided.

450B. Required for assistant residents.

450C. Required for associate residents.

450D. Required for residents.

In addition, the resident is responsible for the following:

1. Admission of patients to the hospital.
2. Daily ward rounds with the house staff.
3. Provision of consultative service to other departments.
4. Administrative assistance to the chairman of the department in supervising the house staff program.
5. Organization of the weekly Medical Staff Clinic.
6. Periodic conferences with senior medical students.
7. Conduction of weekly history meetings with the house staff.

OBSTETRICS AND GYNECOLOGY

Daniel G. Morton, M.D., *Professor of Obstetrics and Gynecology (Chairman of the Department)*.

Nicholas S. Assali, M.D., *Associate Professor of Obstetrics and Gynecology*.

William J. Dignam, M.D., *Assistant Professor of Obstetrics and Gynecology*.

J. G. Moore, M.D., *Assistant Professor of Obstetrics and Gynecology*.

David N. Herzig, M.D., *Instructor in Obstetrics and Gynecology*.

Donald L. Hutchinson, M.D., *Instructor in Obstetrics and Gynecology*.

Instruction is given to students in the second, third, and fourth years by means of lectures, demonstrations, practical work on the wards and in the outpatient clinics, and demonstrations in the delivery and operating rooms.

In the second year an introductory series of lectures and demonstrations is presented so that the student may become familiar with the normal functional anatomy and physiology of the female reproductive organs, including normal pregnancy and labor.

In the third year the pathological aspects of obstetrics and gynecology are presented by means of lectures and demonstrations. The principles of operative obstetrics and gynecology are also discussed. Work on the wards and in the out-patient clinic is designed particularly to familiarize the student with the methods and technique of examination and diagnosis in obstetrical and gynecological patients. Students are assigned to the examination and care of specific patients and have an opportunity to observe the process of labor and delivery. Obstetrical and gynecological pathology will be presented by the Department of Pathology with the cooperation of the gynecological staff.

In the fourth year instruction by means of lectures is kept to a minimum. For a six-week period each student works as a clinical clerk on the wards and in the outpatient clinic, and is given an opportunity to take part in the care of the patients. He will participate in the prenatal care, the conduct of labor and delivery, and the aftercare of obstetrical patients. He will be responsible for the preliminary history and examination of gynecological patients, observe the operation and assist in the postoperative care. The major practical problems in both obstetrics and gynecology will be discussed on rounds and in small conferences.

Manikin exercises are conducted for each group of students while they are doing their practical work on the obstetrical service. These allow the student to visualize more clearly the mechanism of labor in the various presentations, and to go through the steps of obstetrical operations.

COURSES FOR MEDICAL STUDENTS

Second Year

201. Introductory Obstetrics.

The Staff

Sixteen lectures devoted to a presentation of the normal functional anatomy and physiology of the female reproductive organs, including normal pregnancy and labor, as well as methods of examination in obstetrics.

II, F 1-2.

16 hr. (1).

Third Year

- 210. Obstetrics and Gynecology.** The Staff
Lectures and demonstrations on the abnormal aspects of obstetrics and gynecology. The principles of operative obstetrics and gynecology are also discussed.
I, II, S 8-9. 36 hr. (2).
- 211. Obstetrics and Gynecology Clerkship.** Dignam and Hutchinson
On the wards, in the outpatient clinic, and in the delivery and operating rooms, work is designed to familiarize the student with the methods and technique of examination and diagnosis in obstetrical and gynecological patients. Students are assigned to specific patients.
I, II, M Tu W Th F, 9-5. 157 hr. (4).
- 212. Pathology: Obstetrical and Gynecological.** The Pathology Staff
The gynecological staff coöperates with the Department of Pathology in presenting to the students laboratory exercises and discussion of the principal pathological conditions encountered in this branch of medicine.
I, II. (14).

Fourth Year

- 221. Obstetrics and Gynecology Clerkship.** The Staff
Students are assigned to obstetrical and gynecological patients in the Hospital and Outpatient Clinic for examination, diagnosis and care, under the direction of the staff. Work in the delivery and operating rooms is designed to give the student practical experience in these areas.
I, II, M Tu W Th F, 10-5. 210 hrs. (6).

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS

- 250. Obstetrical and Gynecological Clinical-Pathological Seminar.**
University of California, Los Angeles.
Morton, Moore, and the Pathology Staff
The clinical history and pathological findings in cases of patients treated surgically during the previous week are discussed in detail.
Yr., Tu, 8:30-9:30. 52 hr. (2).
- 250H. Obstetrical and Gynecological Clinical-Pathological Seminar.**
Harbor General Hospital. Morton, Moore, and the Pathology Staff
Prerequisite: completion of an internship at an approved hospital.
The clinical history and pathological findings in cases of patients treated surgically during the previous week are discussed in detail.
Yr., M, 9-10. 52 hrs. (2).
- 251. Special Problems in Obstetrics and Gynecology—Seminar.**
University of California, Los Angeles.
Assali, Moore, Dignam, Hutchinson
Subjects are assigned to residents for study and report. The material is then presented by the residents and discussed by various members of the staff.
Yr. 52 hr. (2).
- 251H. Special Problems in Obstetrics and Gynecology—Seminar.**
Harbor General Hospital. Assali, Dignam, Moore

Special subjects are assigned to residents for study and report. These are discussed in detail by the staff.

Yr. 52 hr. (2).

450. Obstetrical and Gynecological Ward Work.

University of California, Los Angeles. Moore, Dignam, Hutchinson

The examination and care of patients admitted to the hospital. Required of first- and second-year assistant residents.

Yr. 180 hr. (5).

450H. Obstetrical and Gynecological Ward Work.

Harbor General Hospital. Moore, Dignam, Hutchinson

Prerequisite: M.D. degree. Intern status at Harbor General Hospital.

Yr., Daily, 9-5. 180 hr. (5).

451. Operative Obstetrics and Gynecology.

University of California, Los Angeles.

Morton, Moore, Dignam, Hutchinson and the Clinical Staff

Work in the operating and delivery rooms. Required of assistant residents and residents.

Yr., W F, 7-12. 200 hr. (5).

451H. Operative Obstetrics and Gynecology.

Harbor General Hospital.

Moore, Dignam, Hutchinson and the Clinical Staff

Prerequisite: completion of internship at an approved hospital. Membership on the obstetrical and gynecological staff at Harbor General Hospital.

Yr., M W F, 7-12. 200 hr. (5).

452. Outpatient Obstetrics and Gynecology.

University of California, Los Angeles.

Dignam, White, and the Clinical Staff

Examination, diagnosis and treatment of ambulatory patients. Required of all assistant residents.

Yr. 624 hr. (13).

452H. Outpatient Obstetrics and Gynecology.

Harbor General Hospital.

The Clinical Staff

Prerequisite: completion of an internship at an approved hospital. Resident status at Harbor General Hospital in obstetrics and gynecology.

Yr. 624 hr. (13).

453. Obstetrical and Gynecological Clinical Management.

University of California, Los Angeles. Morton, Assali, and the Staff

Weekly conferences regarding patients admitted for surgery, and discussion of specific subjects. "Grand Rounds." Required of all residents.

Yr., Th, 9:30-11. 104 hr. (3).

453H. Obstetrical and Gynecological Clinical Management.

Harbor General Hospital.

Morton, Assali, Moore, Dignam, Hutchinson, and the Clinical Staff

Conferences regarding patients admitted for surgery, reviews of Harbor Hospital experience. Prerequisite: resident status at Harbor General Hospital in obstetrics.

Yr., M, 10-12. 104 hr. (3).

PATHOLOGY

Sidney C. Madden, M.D., *Professor of Pathology (Chairman of the Department)*.

Frank W. McKee, M.D., *Professor of Pathology (Director, Clinical Laboratories)*.

Charles L. Yuile, M.D., *Professor of Pathology*.

Louis J. Zeldis, M.D., *Professor of Pathology*.

Biojun Kinoshita, M.D., *Visiting Professor of Pathology and Infectious Diseases*.

Harrison Latta, M.D., *Associate Professor of Pathology*.

Raymond A. Allen, M.D., *Assistant Professor of Pathology*.

W. Jann Brown, M.D., *Assistant Professor of Pathology*.

Clarence H. Johnston, M.D., *Assistant Professor of Pathology*.

Baldwin G. Lamson, M.D., *Assistant Professor of Pathology*.

Robert S. Stone, M.D., *Assistant Professor of Pathology*.

Boy L. Walford, Jr., M.D., *Assistant Professor of Pathology*.

Ralph Fargotstein, M.D., *Instructor in Pathology*.

Dean L. Moyer, M.D., *Instructor in Pathology*.

Pathology instruction is given to candidates for the M.D. degree in the sophomore, junior, and senior years. Extensive instruction of postdoctoral students is also offered in courses as listed. Candidates for other graduate awards may be accepted for instruction by special arrangement if facilities permit.

The facilities of the Medical Center for teaching and investigation are supplemented by those of the affiliated hospitals, the Veterans Administration Hospitals and the Los Angeles County Harbor General Hospital. Additional material is available and used through the cooperation of other hospitals, including the St. John's Hospital, Los Angeles County General Hospital, and the Sepulveda Veterans Administration Hospital.

The cross section of human disease represented in the teaching material of the department is large. The pathology courses for predoctoral and postdoctoral medical students present the relation of lesions to functional abnormalities. Wherever possible causal factors and incipient changes of disease are emphasized in order to foster prevention and early diagnosis and treatment. Opportunities and encouragement for new investigation are presented to properly qualified students and physicians.

COURSES FOR MEDICAL STUDENTS

Second Year

201. Pathological Anatomy and Physiology.

The Staff

Demonstrations, discussions, and individual study of fresh gross autopsy material, and of a student loan collection of microscopic slide preparations, supplemented by fixed museum specimens, Kodachrome photomicrographs, and projection of microslides. The course of study includes general pathology and the special pathology of organ systems, emphasizing the correlation of abnormal anatomy with deranged physiology and chemistry. Laboratory exercises illustrative of major phenomena of disease are performed by students under staff supervision.

I, Tu, 8-12, 1-5; Th, 8-10, 1-5; F, 1-5.

314 hr. (10¼).

202. Autopsy Pathology.

The Staff

Students are assigned by rotation in small groups to observe staff members in performing autopsies, and to practice in their proper recording. After microscopic and other laboratory studies are completed, students and staff members meet in conference to reanalyze the clinical course of the patient in search of aids for future improvements in prevention and care.

I, hours to be arranged.

42 hr. (2).

Third Year**212. Pathology.**

The Staff

The third-year course consists of two parts, a junior clerkship in surgical pathology and a junior clinical pathological conference.

Each clerkship group studies current surgical pathology cases by examining the specimens grossly and microscopically, reviewing the clinical records and the pertinent literature and arriving at an independent analysis. The results of this effort are presented daily at Surgical Pathology Seminar. This portion of the course is correlated in time and content with Radiology 212.

In the Junior Clinical Pathological Conference the students present and discuss with the staff selected cases recently studied on the clinical and then on the pathological services.

I, II, M, 12-1; for 4½ weeks: M Tu W Th, 8-10, 3:30-5, F, 8-10, F, 3:30-5, or S 9-11.

111 hr. (3¾).

Fourth Year**220. Clinical-Pathological Conferences.**

The Staff, together with associated medical staffs

The clinical course, differential diagnosis and treatment are discussed and the underlying pathology demonstrated and correlated in illustrative autopsy cases in order better to elucidate disease processes and their prevention and management.

I, II, W, 12-1.

34 hr. (2).

221. Forensic Medicine.

Stone and the Staff

Several lecturers from the University and the community present major aspects of legal medicine.

II, S, 8-9 x 8.

8 hr. (½).

222. Medical Ethics.

The Staff

Lecturers from the University and the community discuss the essence of physician-physician, physician-patient, and physician-community ethical relations. This brief series is designed to epitomize the general attention awarded this subject throughout the four-year curriculum.

I, S, 8-9 x 4.

4 hr. (¼).

ELECTIVES**230. Research in Pathology.**

The Staff

The opportunity for investigation of disease through study of surgical pathology or autopsy pathology material or through laboratory experiment is offered to qualified students.

I, II, S.T.

(Hours and credit to be arranged).

232. Neuropathology.

Brown, Johnston, and the Staff

A survey of disease of the nervous system through study of lesions in gross and microscopic specimens and of pertinent clinical findings. A histopathologic study set is loaned each student. Lectures and laboratory. Open to qualified students. Prerequisite: Pathology 201 and 202 or equivalents.

II and S.T.r, Tu Th, 8-10 for 6 weeks.

24 hr. (1).

COURSES FOR GRADUATE STUDENTS

Graduate study programs in the department are offered to a limited number of medical students between the second and third or between the third and fourth years. For further information consult the chairman of the department.

The following courses are open to qualified non-medical graduate students insofar as facilities permit.

230. Research in Pathology.

The Staff

See course description above.

I, II, S.T.

(Hours and credit to be arranged).

231. Pathological Anatomy and Physiology.

The Staff

Demonstrations, discussions, and individual study of fresh gross autopsy material, and of a student loan collection of microscopic slides preparations, supplemented by fixed museum specimens, Kodachrome photomicrographs, and projection of microslides. The course of study includes general pathology and the special pathology of organ systems, emphasizing the correlation of abnormal anatomy with deranged physiology and chemistry. Laboratory exercises illustrative of major phenomena of disease are performed by students under staff supervision. The topic for the term paper should be selected in consultation with the instructor.

Prerequisite: regular graduate student status and completion of a curriculum satisfying basic requirements for the study of human pathology. Candidates should make application to the Department of Pathology office. Limited to twelve students.

I, Tu, 8-12, 1-5; Th, 8-10, 1-5; F, 1-5.

350 hr. (11).

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS

Internship in Pathology is offered to young physicians who are interested in pathology either as a career or as a foundation for other general or special fields of medicine. Autopsy case work, surgical pathology diagnosis, teaching of medical students, and participation in research are all parts of the service and are done in consultation and collaboration with associates on the staff.

Residency in Pathology is offered for those specializing in pathology, and also for residents in other specialties, in the University of California Medical Center, the General Medical and Surgical Hospital, Veterans Administration Center, and the Los Angeles County Harbor General Hospital. Both anatomical and clinical pathology study and training programs are available and are aided by rotation through the several specialty divisions. The basic science and experimental aspects of pathology are afforded as well as the clinical applications.

Special pathology residencies or training programs are offered for those with general pathology backgrounds who wish to emphasize a specific field, such as neuropathology.

250. Clinical-Pathological Conference.

The Staff, together with associated Clinical Staffs

The Pathology house staff prepare their autopsy cases for this conference and participate in it. This is required for interns, University of California Medical Center (250A), first-year assistant residents (250B), second-year assistant residents (250C), third-year assistant residents (250D), residents (250E), fellows (250F), and house staff from other services on rotation in Pathology (250G).

Yr., W, 12-1.

48 hr. ($\frac{1}{4}$ each mo.).**251. Pathology Staff Seminar.**

The Staff

Current surgical pathology and autopsy cases are presented by the house staff and discussed by the faculty. This is required for interns, University of California Medical Center (251A), first-year assistant residents (251B), second-year assistant residents (251C), third-year assistant residents (251D), residents (251E), fellows (251F), and house staff from other services on rotation in Pathology (251G).

Yr., M, 6:30-8.

72 hr. ($\frac{3}{8}$ each mo.).**252. Neuropathology Conference.** Brown, Johnston, Allen, and the Staff

Current specimens from the nervous system are examined by house staff and faculty and discussed in relation to the clinical findings. Reports and study of the literature are essential. Required for house staff while on assignment to the neuropathology service, University of California Medical Center.

Yr., W, 1:30-3.

72 hr. ($\frac{3}{8}$ each mo.).**253. Obstetric and Gynecologic Pathology Seminar.**

Zeldis, Moyer, and the Staff

Current cases are reviewed and discussed by the house staff and faculty. Required for house staff while assigned to this specialty service, University of California Medical Center.

Yr., F, 9-11.

96 hr. ($\frac{1}{4}$ each mo.).**254. Ophthalmologic Clinical Pathological Conference.**

Irvine, Brown, Allen, and the Staffs

The clinical and pathological aspects of recent cases of importance in teaching are presented and discussed. Required for house staff while assigned to this specialty service, University of California Medical Center.

Yr., F, 5-6 every second week.

24 hr. ($\frac{1}{8}$ each mo.).**255. Orthopedics Pathology Conference.** Bailey, Stone, and the Staffs

Pathologic aspects of bone and joint diseases as seen in recent cases are discussed in the Orthopedics Staff Conference. Required of house staff assigned to this service, University of California Medical Center.

Yr., S, 8-9.

48 hr. ($\frac{1}{8}$ each mo.).**256. Pediatrics Pathology Conference.** Adams, Latta, and the Staffs

Pathology cases from the Pediatrics Service are reviewed and discussed at the Pediatrics Staff Conference. Required of house staff assigned to this service, University of California Medical Center.

Yr., F, 11-12.

48 hr. ($\frac{1}{8}$ each mo.).

257. Radiology Pathology Conference.

The Staff

All autopsy cases having radiologic procedures are presented for correlations of findings in collaboration with the Radiology staff. Required for interns (257A) and house staff on the general medical pathology service (257B,-C,-D,-E,-F,-G), University of California Medical Center.

Yr. (hours and credit to be arranged).

258. Surgical Pathology Conference.

The Staff

Recent cases of teaching value are presented and discussed by the house staff in conference with the Surgical house staff. Required for house staff on surgical pathology service, University of California Medical Center.

Yr., Th, 7-8. 48 hr. ($\frac{1}{8}$ each mo.).

259. Urology Pathology Conference.

Goodwin, Lamson, and the Staffs

Discussion of current cases supplemented by an orderly review of the field is presented in the Urology Seminar. Required for house staff, University of California Medical Center, for two semesters.

I, II, M, 8-9 p.m. as scheduled. 12 hr. ($\frac{1}{4}$ each semester).

260. Dermatopathology Conference.

Sternberg, Yuile, and the Staffs

In collaboration with the Dermatology staff the current cases of teaching importance are presented and discussed by members of the respective house staffs and faculties. Required for house staff assigned to dermatopathology service, University of California Medical Center.

Yr., Th, 8:30-9:30 biweekly. 24 hr. ($\frac{1}{8}$ each mo.).

261. Forensic Pathology Seminar.

Stone and the Staff

Pathology cases having medicolegal aspects are presented and discussed by house staff and faculty. Required for house staff assigned to this specialty, University of California Medical Center. (Not offered 1956-1957.)

Yr. (hours and credit to be arranged).

262. Head and Neck Pathology Conference.

Pressman, Lamson, and Staffs

Surgical and autopsy cases involving disease of the head or neck, and particularly of the ear, nose, sinuses, throat, and external features, are reviewed with clinical correlation. Required for house staff assigned to surgical pathology, University of California Medical Center.

Yr. (hours and credit to be arranged).

263. Hematopathology Conference.

Valentine, Smith, Walford, and Staffs

The pathological aspects of cases involving diseases of the blood and blood-forming organs are presented and discussed in collaboration with interested physicians. Required for house staff assigned to general medical pathology service, University of California Medical Center.

Yr. (hours and credit to be arranged).

264. Obstetrics and Gynecology Pathology Conference.

Morton, Zeldis, and the Staffs

Material from current cases illustrating diseases of the female reproductive system is presented and discussed with correlation of the relationships of pathologic processes to clinical manifestations and therapy. Required for house staff assigned to this specialty, University of California Medical Center.

Yr., Th, 8:30-9:30 weekly. 48 hr. ($\frac{1}{4}$ each mo.).

275. Experimental Pathology.

The Staff

Studies of the functional and anatomical sequences of experimentally induced disease are performed by the students under supervision of the faculty. Progression from standard protocols to fully original research is adjusted to the interest and ability of the student. Elective for house staff and fellows, University of California Medical Center.

Yr. (hours and credit to be arranged).

276. Research.

The Staff

Original investigation into medical problems is encouraged for house staff members and fellows. Time, facilities, and assistance are provided within available limits, University of California Medical Center, General Medical and Surgical Hospital, Veterans Administration Center, Los Angeles County Harbor General Hospital.

Yr. (hours and credit to be arranged).

280. Surgical Pathology Conference.

The Staff

Required for first-year residents (280B), second-year residents (280C), third-year residents (280D), fourth-year residents (280E), and house staff from other services on rotation in Pathology (280F), General Medical and Surgical Hospital, Veterans Administration Center.

Yr., Tu, 4-5. 48 hr. ($\frac{1}{8}$ each mo.).

281. Autopsy Pathology Conference.

The Staff

Required for first-year residents (281B), second-year residents (281C), third-year residents (281D), fourth-year residents (281E), and house staff from other services on rotation in Pathology (281F), General Medical and Surgical Hospital, Veterans Administration Center.

Yr., F, 4-5. 48 hr. ($\frac{1}{8}$ each mo.).

282. Neuropathology Conference. Brown, Johnston, Allen, and the Staff

Required for first-year residents (282B), second-year residents (282C), third-year residents (282D), fourth-year residents (282E), and house staff from other services on rotation in Pathology (282F), General Medical and Surgical Hospital, Veterans Administration Center.

Yr., W, 3:30-5. 72 hr. ($\frac{3}{8}$ each mo.).

283. Obstetric and Gynecologic Pathology Conference.

Hummer, Zeldis, Morton, and the Staff

Required for first-year residents (283B), second-year residents (283C), third-year residents (283D), fourth-year residents (283E), and house staff from other services on rotation in Pathology (283F), General Medical and Surgical Hospital, Veterans Administration Center.

Yr., Th, 4-5. 48 hr. ($\frac{1}{4}$ each mo.).

284. Neurology-Neurosurgery-Pathology Conference.

Rose, Stern, Brown, and the Staffs

Required for house staff assigned to this specialty.

Yr., F, 9-11. 96 hr. ($\frac{1}{4}$ each mo.).

285. Exfoliative Cytology Seminar.

Stone and the Staff

Required for third-year residents (285D), and fourth-year residents (285E), General Medical and Surgical Hospital, Veterans Administration Center.

Yr. (hours to be arranged). 20 hr. ($1\frac{1}{4}$).

290. Obstetrics and Gynecology Pathology Conference.

Morton, Zeldis, and the Staffs

Required for house staff assigned to this specialty, Los Angeles County Harbor General Hospital.

Yr., M, 9-10.

48 hr. ($\frac{1}{4}$ each mo.).

291. Radiology Pathology Conference.

Woodruff, Fargotstein, and the Staffs

Required for first-year assistant residents (291B), second-year assistant residents (291C), third-year assistant residents (291D), fourth-year assistant residents (291E), and house staff from other services on rotation in Pathology (291F), Los Angeles County Harbor General Hospital.

Yr., W, 10-11.

48 hr. ($\frac{1}{8}$ each mo.).

292. Pediatrics Pathology Conference.

Wright, Latta, and the Staffs

Required for first-year assistant residents (292B), second-year assistant residents (292C), third-year assistant residents (292D), fourth-year assistant residents (292E), and house staff from other services on rotation in Pathology (292F), Los Angeles County Harbor General Hospital.

Yr., Tu, 11-12.

48 hr. ($\frac{1}{8}$ each mo.).

293. Clinical Pathological Conference. Kaplan, Konwaler, and the Staffs

Required for first-year assistant residents (293B), second-year assistant residents (293C), third-year assistant residents (293D), fourth-year assistant residents (293E), and house staff from other services on rotation in Pathology (293F), Los Angeles County Harbor General Hospital.

Yr., Tu, 9-10, monthly.

12 hr. ($\frac{1}{2}$).

294. Pathology Staff Seminar.

Fargotstein and the Staff

Required for first-year assistant residents (294B), second-year assistant residents (294C), third-year assistant residents (294D), fourth-year assistant residents (294E), and house staff from other services on rotation in Pathology (294F), Los Angeles County Harbor General Hospital.

Yr., Th, 3-4:30.

72 hr. ($\frac{3}{8}$ each mo.).

450. Surgical and Autopsy Pathology.

The Staff

This is the basic course for house staff and initiates their study of pathology in general. By attending as many of the second-year medical student teaching sessions as possible the house staff member makes a systematic review and survey of the field at the same time that he is studying a representative portion of the material regularly arriving in the department. He participates directly in a portion of the laboratory instruction of medical students either from standard teaching material or from cases he himself has under study. The house staff member performs autopsies in rotation with others on the service and reviews the cases at various stages in their study with members of the staff. He studies surgical pathology at the daily diagnostic conference unless on other assignment. Familiarity with the appropriate literature is expected.

During the latter part of the year, the first-year house staff man holds initial responsibility for the work-up of surgical pathology and exfoliative cytology cases received in the department and presents the material at the morning surgical pathology diagnostic conference. He also participates in

such specialty seminars as are indicated by his interests and departmental assignments. Before the year is over he acquires familiarity with basic aspects of tissue and microslide preparation, though the development of technical skill is not a special objective.

For students beyond the first-year level the course is essentially similar to that which preceded, but is more flexible in order to permit greater opportunity for intensive rather than extensive study. Pathology specialties are emphasized to a greater extent and the student is given responsibility for presentations at specialty conferences. Exfoliative cytology study is included wherever appropriate. The advanced student gathers considerable background material such as by review of the literature and of examples from the department or associated hospital files in the preparation of his autopsy and surgical cases. He assists in instruction of junior house staff members and has administrative responsibilities insofar as these have teaching value.

Required for interns (450A), first-year assistant residents (450B), second-year assistant residents (450C), third-year assistant residents (450D), residents (450E), fellows (450F), and house staff from other services on rotation in Pathology (450G), University of California Medical Center. Not to be taken concurrently with Pathology 451.

Yr.

1440 hr. ($\frac{5}{8}$ each wk.).

451. Clinical Pathology.

McKee and the Staff

This course is a study of the significance, interpretation, and technique of the various clinical laboratory procedures. The student spends a specified time in each of the laboratory divisions in order to develop general facility in the performance of procedures and to learn to make critical appraisals of results in terms of patient care. He participates in discussions and consultations with the patient's physician. He aids in the selection of examinations to be used and in setting up and performing new or unusual procedures. Through conferences with the Director of the Clinical Laboratory he has an opportunity to examine the administrative requirements for laboratory operation. He is a member of seminars and conferences analyzing patient problems, in the light of laboratory determinations, and of other meetings for the discussion of technical problems with the technical and administrative staffs of the laboratories.

Required for first-year assistant residents who desire clinical pathology training (451B), second-year (451C), third-year (451D), fourth-year (451E), fellows (451F), and house staff from other services rotating through Pathology (451G), University of California Medical Center. Not to be taken concurrently with Pathology 450.

Yr.

1440 hr. ($\frac{5}{8}$ each wk.).

452. Specialty Pathology.

The Staff

Elective for advanced pathology students, University of California Medical Center, who desire a longer period of study and training in a specific field of pathology than is provided in the regular program. Areas in which this advanced work is offered include neuropathology, forensic pathology, obstetric and gynecologic pathology, pediatric pathology, dermatopathology, ophthalmologic pathology, oncologic pathology, exfoliative cytologic pathology, and others.

Yr. (hours and credit to be arranged).

460. Surgical and Autopsy Pathology. Fishkin, Madden, and Staffs

This is the basic course for house staff members. They perform autopsies with others on the service and review cases with the teaching staff during various stages in their work-up and study. Familiarity with the appropriate literature is expected.

During the latter part of the year, the first-year house staff man holds initial responsibility for the work-up of surgical pathology and exfoliative cytology cases received in the department and presents the material at the morning surgical pathology diagnostic conference. He also participates in such specialty seminars as are indicated by his interests and departmental assignments. Before the year is over he acquires familiarity with basic aspects of tissue and microslide preparation, though the development of technical skill is not a special objective.

For students beyond the first-year level the course is essentially similar to that which preceded but is more flexible in order to permit greater opportunity for intensive rather than extensive study. Pathology specialties are emphasized to a greater extent and the student is given responsibility for presentations at specialty conferences. Exfoliative cytology study is included wherever appropriate. The advanced student gathers considerable background material such as by review of the literature and of examples from the department or associated hospital files in the preparation of his autopsy and surgical cases. He assists in instruction of junior house staff members and has administrative responsibilities insofar as these have teaching value.

Required for first-year assistant residents (460B), second-year assistant residents (460C), third-year assistant residents (460D), residents (460E), fellows (460F) and house staff from other services on rotation in Pathology (460G), General Medical and Surgical Hospital, Veterans Administration Center.

Yr.

1440 hr. ($\frac{5}{8}$ each wk.).

470. Surgical and Autopsy Pathology. Fargotstein and the Staff

This is the basic course for house staff members. They perform autopsies with others on the service and review cases with the teaching staff during various stages in their work-up and study. Familiarity with the appropriate literature is expected.

During the latter part of the year, the first-year house staff man holds initial responsibility for the work-up of surgical pathology and exfoliative cytology cases received in the department and presents the material at the morning surgical pathology diagnostic conference. He also participates in such specialty seminars as are indicated by his interests and departmental assignments. Before the year is over he acquires familiarity with basic aspects of tissue and microslide preparation, though the development of technical skill is not a special objective.

For students beyond the first-year level the course is essentially similar to that which preceded but is more flexible in order to permit greater opportunity for intensive rather than extensive study. Pathology specialties are emphasized to a greater extent and the student is given responsibility for presentations at specialty conferences. Exfoliative cytology study is included wherever appropriate. The advanced student gathers considerable background material such as by review of the literature and of examples from the department or associated hospital files in the preparation of his autopsy and surgical

cases. He assists in instruction of junior house staff members and has administrative responsibilities insofar as these have teaching value.

Required for first-year assistant residents (470B), second-year assistant residents (470C), third-year assistant residents (470D), residents (470E), fellows (470F), and house staff from other services on rotation in Pathology (470F), Los Angeles County Harbor General Hospital. Not to be taken concurrently with Pathology 471.

Yr.

1440 hr. ($\frac{5}{8}$ each wk.).

471. Clinical Pathology.

Fargotstein and the Staff

This course is a study of the significance, interpretation, and technique of the various clinical laboratory procedures. The student spends a specified time in each of the laboratory divisions in order to develop general facility in the performance of procedures and to learn to make critical appraisals of results in terms of patient care. He participates in discussions and consultations with the patient's physician. He aids in the selection of examinations to be used and in setting up and performing new or unusual procedures. Through conferences with the Director of the Clinical Laboratory he has an opportunity to examine the administrative requirements for laboratory operation. He is a member of seminars and conferences analyzing patient problems, in the light of laboratory determinations, and of other meetings for discussion of technical problems with the technical and administrative staffs of the laboratories.

Required for first-year assistant residents who desire clinical pathology training (471B), second-year (471C), third-year (471D), fourth-year (471E), fellows (471F), and house staff from other services rotating through Pathology (471G), Los Angeles County Harbor General Hospital. Not to be taken concurrently with Pathology 470 or 450.

Yr.

1440 hr. ($\frac{5}{8}$ each wk.).

PEDIATRICS

John M. Adams, M.D., *Professor of Pediatrics (Chairman of the Department)*.

Forrest H. Adams, M.D., *Associate Professor of Pediatrics.*

Ruth A. Boak, M.D., *Associate Professor of Infectious Diseases and Pediatrics.*

Margaret H. Jones, M.D., *Associate Professor of Pediatrics.*

David T. Imagawa, Ph.D., *Assistant Professor of Pediatrics and Infectious Diseases.*

Arthur H. Parmalee, Jr., M.D., *Assistant Professor of Pediatrics.*

Nathan J. Smith, M.D., *Assistant Professor of Pediatrics.*

Stanley W. Wright, M.D., *Assistant Professor of Pediatrics.*

Phyllis M. Wright, M.D., *Assistant Professor in Residence in Pediatrics.*

Ernest M. Heimlich, M.D., *Instructor in Pediatrics.*

Pediatric instruction is given in each of the four years of the curriculum. In the first two years, this instruction is incorporated in the Family Medicine course, and in the course, Introduction to Clinical Medicine. The third-year teaching centers around the outpatient pediatric clerkship, and work with patients is emphasized. This course is closely integrated with child psychiatry.

Fourth-year students are instructed in the care of hospitalized children in a clinical clerkship. A pediatric clinic is held weekly for all third- and fourth-year students on the pediatric service, as well as for pediatric interns and residents.

COURSES FOR MEDICAL STUDENTS

First Year

101. Family Medicine.

The Staff

This course is required throughout the four years of the School of Medicine curriculum.

The first-year student is assigned a family in the well-baby clinic. He follows the growth and development of the baby in this family by monthly visits to the clinic and by home visits. In the clinics he also observes well-baby care and preventive medicine. He also participates in conferences each month on problems of the family. These conferences are attended by source experts from various interested disciplines, such as social welfare, nursing, social anthropology, psychiatry, medicine, surgery, obstetrics, and pediatrics.

I, II, $\frac{1}{4}$ class each W, 1-3, entire class monthly W, 4-5. 27 hr. ($1\frac{3}{4}$).

Second Year

201. Family Medicine.

The Staff

A continuation of course 101.

The second-year student is assigned a family in an elementary school. He observes the school-age child in the classroom, studies the elementary school curriculum from the standpoint of growth and development, and makes home visits to his assigned family. Monthly conferences are held to discuss the problems of assigned families and their children both at home and at school. These conferences are attended by various consultants from the departments of education and psychology and other interested disciplines, such as pediatrics, psychiatry, surgery, and medicine. The second-year student also continues to follow his first-year family by home visits and visits to the well-baby clinic at three-month intervals.

I, II, $\frac{1}{4}$ class each Th, 10-12, entire class monthly W, 4-5, trimonthly W, 1-3. 33 hr. (2).

Third Year

210. Pediatrics.

The Staff

This course is centered around the general pediatric outpatient clinic. The student is assigned patients for diagnosis and care. Special pediatric clinics such as allergy, developmental, cardiac, and metabolic are attended regularly by the students. Informal group conferences and selected clinical roentgenologic, child psychiatric, and chart review conferences are held weekly. The student assumes responsibility for each of his patients under the guidance of the staff.

One hour each week selected cases from the clinics and wards are presented to the entire third-year class. These sessions are attended by the pediatric staff. Detailed discussion of the problems presented is designed to supplement instruction given in the clinical clerkship.

I, II, W, 12-1; for 6 weeks: M Tu W Th, 8-12, 2-5; F, 8-12.

228 hr. (7).

211. Family Medicine.

The Staff

A continuation of course 201.

The third-year student continues to follow the progress of his first- and second-year families. There is no assigned curriculum time. A new family will be chosen by the student from one of his clinical services, to follow the remaining two years along with the previously assigned families. Individual conferences are arranged at the student's request, and a brief progress report on the families is required.

Hours to be arranged.

Fourth Year**220. Pediatrics.**

The Staff

The major portion of the fourth-year pediatric curriculum is the in-patient clinical clerkship. Hospitalized patients are assigned to the student for training in diagnostic and treatment procedures. General pediatric patients, newborn infants, and children with special problems are assigned to the student for supervised medical care, as well as correlation of emotional, social, and economic aspects of the hospitalized child and his family. A teaching laboratory is available for the student, as well as instruction in its use. Daily clinical bedside rounds are conducted. Informal group conferences are used in place of formal didactic sessions. The fourth-year clerkship includes attendance at certain graduate teaching sessions.

One hour each week is devoted to the presentation of selected cases from the hospital wards. The pediatric staff, including fourth-year students, interns and residents, participate actively at these weekly sessions.

I, II, S, 12-1 x 8; for 6 weeks: M Tu W Th F, 8-12, 2-5. 211 hr. (4¼).

221. Family Medicine.

The Staff

A continuation of course 211.

In the fourth year there is no assigned curriculum time; however, the student continues to follow the progress of the previously assigned families by home visits and clinic visits. No new family is assigned. Individual conferences are arranged at the student's request, and a brief progress report on the families is required.

Hours to be arranged.

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS

The Department of Pediatrics accepts interns, first- and second-year assistant residents, and residents (third year) for postdoctoral training. It also accepts individuals for special postdoctoral training fellowships. Applicants for internship may have completed one year of postdoctoral training before applying (such as rotating internship), although this is not required. Applicants for assistant residency must have completed at least one year of postdoctoral training in an approved hospital. All appointments are for one year and afford opportunity for supervised study and research in the field of general pediatrics and its subspecialties. Appointments may be renewed for a second or third year of training.

The pediatric internship consists of training in the outpatient and inpatient areas. In addition to general pediatric work, special clinics in the field of heart, neurology, allergy, and metabolic diseases are held weekly, and a special child psychiatric conference is also conducted at weekly intervals. The

inpatient service includes the care of the newborn infant and infectious diseases. Training is provided not only in the field of general pediatrics but also in the various specialties.

The first two years of the residency training program are considered as orientation in the general field of pediatrics. For six months of each of the first two years the resident spends time rotating through the various inpatient services, including the newborn nursery and contagion, the resident works in the general pediatric clinic, and in the special clinics. The head resident supervises and instructs students, interns, and assistant residents. The clinical training of the resident is integrated with the basic sciences in the form of clinical pathological conferences, correlation clinics, staff rounds, laboratory sessions within the department, X-ray conferences, and departmental seminars.

Residents at the Los Angeles County Harbor General Hospital receive instruction from the staff of the Pediatric Department.

250. Pediatric Staff Conferences.

The Staff

Students prepare and present case histories of patients at Pediatric Staff Conferences. These include references to literature, laboratory work, special studies, etc. Faculty members and consultants from other departments furnish discussions of new developments in the respective fields. This course is required for interns (250A), first-year assistant residents (250B), second-year assistant residents (250C), residents (250D), and fellows (250F).

Yr., F, 11-12.

48 hr. ($\frac{1}{16}$ each wk.).**255. Pediatric-Roentgenology Conferences.**

The Staff

Review and discussion of recent X-ray studies on pediatric cases on the ward and on the outpatient service. This course is required for interns (255A), first-year assistant residents (255B), second-year assistant residents (255C), residents (255D), and fellows (255F).

Yr., F, 12-1.

48 hr. ($\frac{1}{16}$ each wk.).**260. Pediatric Seminar.**

The Staff

Reports on special research topics with review of recent literature and clinico-pathological conferences on pediatric cases are presented. Research by members of the staff is reported at the Pediatric Seminar. This course is required for interns (260A), first-year assistant residents (260B), second-year assistant residents (260C), residents (260D), and fellows (260F).

Yr., F, 8-9.

48 hr. ($\frac{1}{16}$ each wk.).**265. Research in Pediatrics.**

The Staff

Elective for residents (265D) and fellows (265F).

I, II, and S.T.

1440 hr. ($\frac{5}{8}$ each wk.).**450. Clinical Work.**

The Staff

Responsibility for the care of patients in the wards and outpatient department under the direction of attending staff. History-taking, physical examination, laboratory tests, diagnosis and treatment of patients. This course is required for interns (450A), first-year assistant residents (450B), second-year assistant residents (450C), and residents (450D). In addition the resident is responsible for the following:

A. Administrative

1. Scheduling of programs for Pediatric Staff Conferences and Pedi-

atric-Roentgenology Conferences, with the assistance of the full-time teaching staff.

2. Supervision of house staff assigned to hospital duties.
 3. Selection of suitable cases for hospital admission for teaching and research purposes.
 4. Liaison between faculty members and members of the house staff.
 5. Scheduling of faculty consultants in compliance with the attending staff.
 6. Responsibility for proper coding and correspondence regarding medical records.
- B. Teaching
1. Hospital ward rounds daily with house staff and five times a week with attending staff on the pediatric ward.
 2. Consultative service in pediatrics to teaching patients in other departments when requested.
 3. Consultative work in the outpatient department.

C. Clinical

1. Outpatient well-baby care to children of house staff members.
I, II, and S.T. 1440 hr. ($\frac{5}{8}$ each wk.).

260. Clinical Work.

The Staff

Required for interns (460A), first-year residents (460B), and second-year assistant residents (460C) at the Los Angeles County Harbor General Hospital.

- I, II, and S.T. 1440 hr. ($\frac{5}{8}$ each wk.).

PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*

Dermot B. Taylor, B.A., M.B., B.Ch., B.A.O., *Professor of Pharmacology (Chairman of the Department)*.

Gordon A. Alles, Ph.D., *Professor of Pharmacology in Residence*.

Emery M. Gal, M.Sc., Ph.D., *Assistant Professor of Pharmacology*.

†Donald J. Jenden, B.Sc., M.B., B.S., *Assistant Professor of Pharmacology*.

George W. Stevenson, A.B., M.S., M.D., *Visiting Assistant Professor of Pharmacology*.

Richard C. Ursillo, Ph.D., *Instructor in Pharmacology*.

COURSES FOR MEDICAL STUDENTS

Second Year (Required)

201. Pharmacology and Toxicology.

The Staff

A detailed consideration of the fundamental pharmacologic and toxicologic action and uses of drugs, including chemotherapeutic agents. Lectures, laboratory exercises, demonstrations and discussions.

- II, Tu, 8-12, 1-5, F, 1-5 x 5. 164 hr. (8).

* See ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, for details on Graduate Program and other courses offered by the department.

† On leave.

Fourth Year (Required)

- 222. Basic Medical Sciences.** The Staff
 Given jointly with the departments of Anatomy, Physiological Chemistry, Biophysics and Physiology. Discussions, conferences and correlation clinics on special topics designed to serve as the basis for a physiological approach to medical problems on an advanced level.
 I, II, S, 11-12. 7 hr. ($\frac{1}{2}$).

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS

- 235. Pharmacology for Anesthesiologists.** Taylor, Dillon and Staffs
 Given jointly with the Division of Anesthesiology of the Department of Surgery. Structure and mode of action of therapeutic agents of importance in Anesthesiology.
 I, by arrangement. 18 hr. (1).

ELECTIVES

(Admission on consent of instructor)

- 232. Fundamental Principles of Drug Action.** Taylor and Staff
 I, by arrangement. 36 hr. (2).
- 233. Bioassay Theory.** Taylor and Staff
 I, by arrangement. 18 hr. (1).
- 234. Experiments in Bioassay and Modes of Drug Action.** Taylor and Staff
 I, by arrangement. 108 hr. (2).
- 251A-251B. Seminar in Pharmacology.** Staff
 I, II, W, 1-2. 36 hr. (1-1).
- 290. Research in Pharmacology.** Staff
 I, II, by arrangement. 72-432 hr. (1-6).

GRADUATE PROGRAM

Details of the requirements for admission to candidacy for advanced degrees in Pharmacology and of the Graduate Program of the Department can be found in the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.

PHYSIOLOGICAL CHEMISTRY

- Wendell H. Griffith, Ph.D., *Professor of Physiological Chemistry (Chairman of the Department).*
 Ralph W. McKee, Ph.D., *Professor of Physiological Chemistry.*
 Robert M. Fink, Ph.D., *Associate Professor of Physiological Chemistry.*
 James F. Mead, Ph.D., *Associate Professor (in Residence Atomic Energy Project) of Physiological Chemistry.*
 Joseph F. Nyc, Ph.D., *Associate Professor of Physiological Chemistry.*
 John G. Pierce, Ph.D., *Associate Professor of Physiological Chemistry.*

Sidney Roberts, Ph.D., *Associate Professor of Physiological Chemistry.*

David R. Howton, Ph.D., *Assistant Professor (in Residence Atomic Energy Project) of Physiological Chemistry.*

John Rowen, Ph.D., *Assistant Professor (in Residence Atomic Energy Project) of Physiological Chemistry.*

John E. Snoke, Ph.D., *Assistant Professor of Physiological Chemistry.*

Irving Zabin, Ph.D., *Assistant Professor of Physiological Chemistry.*

COURSES FOR MEDICAL STUDENTS

First Year

Physiological Chemistry 101A, B and C are parts of the required curriculum for first-year medical students. Basic Medical Science, course 222, in which the department participates, is a portion of the required curriculum for fourth-year medical students.

101A. Physiological Chemistry.

The Staff

An introduction to medical biochemistry; lectures and conferences on the properties of living matter and on the chemistry of foodstuffs and of tissues.

I, M W F, 8-9, F, 2-3, F, 3-5 x 3.

76 hr. ($4\frac{3}{4}$).

101B. Physiological Chemistry.

The Staff

Lectures, demonstrations and conferences on chemical transformations in the body including the biochemical significance of electrolytes, hormones and nutrients in health and in disease.

II, Tu Th, 8-9, F, 2-3, 3-5 x 8.

68 hr. ($4\frac{1}{4}$).

101C. Physiological Chemistry Laboratory.

The Staff

Qualitative and quantitative analysis of tissues including blood and urine; studies on enzymes and on tissue respiration; demonstrations of functions of hormones and of vitamins; quantitative study of metabolism in health and disease.

II, Tu Th, 9-12, Th, 2-5.

156 hr. ($3\frac{1}{4}$).

Fourth Year

222. Basic Medical Science.

The Staff

Lectures, demonstrations and conferences on basic biochemical principles important in medical science given as part of Physiology 222.

I or II, S, 11-12.

8 hr. ($\frac{1}{2}$).

COURSES FOR GRADUATE STUDENTS

Courses of study for the degrees of Master of Science and Doctor of Philosophy with physiological chemistry as the major field will be arranged for students who are admitted to the Graduate Division. Requirements are listed in the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION. Normally, all candidates will be expected to register for courses 220A, 251 and 290. Additional courses in the major and in other fields will be taken in accordance with the recommendations of the guidance committee.

- 210. Hormones and Metabolism. (3) I.** Roberts
Lectures, three hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent.
Recommended: Zoölogy 118A-118B-118C.
Chemical nature, biogenesis and metabolic fate of hormones in the vertebrates; significance of metabolic end products in health and disease; mechanism of action of hormones; their effect on the metabolism of the major foodstuffs, including salt and water; relation of hormones to normal and neoplastic growth.
- 212. Chemistry of Hormones. (2) I.** Pierce
Lectures, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent. Recommended: Zoology 118A-118B-118C.
The isolation and identification of hormones; chemical and physical properties.
- 220A-220B. Biochemical Preparations and Techniques. (3-3) I, II.** Nyc, Zabin, Pierce, and Roberts
Lecture or conference, one hour; laboratory, six hours.
Prerequisite: course 101A, 101B, 101C, or equivalent.
Laboratory techniques important in biochemical research; isolation, identification and determination of biologically active compounds.
Either or both semesters may be taken.
- 221. Animal Metabolism Laboratory. (3) I, II.** Roberts
Conference, one hour; laboratory, six hours.
Consent of instructor required.
Laboratory methods employed in the study of the metabolism of animals, organs and isolated tissues; demonstration of effect of hormones, dietary essentials and enzymes on metabolism.
- 230. Cytochemistry. (4) I.** McKee
Lectures, two hours; laboratory, six hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent.
Chemical composition of the animal cell with special reference to identification and significance of sites of chemical activity.
- 232. Biochemistry of Nutrition: Minerals and Vitamins. (2) I.** Griffith
Lectures, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent. Recommended: Chemistry 137, 138.
Metabolic interrelationships of vitamins and minerals; recognition of dietary deficiencies.
- 234. Problems in Human Nutrition. (2) II.** Griffith
Lectures, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent. Recommended: Chemistry 107.
Qualitative and quantitative requirements of nutrients during growth and aging; minimal and optimal diets; relations of the food supply, of food habits and of environmental factors to nutritional health.

- 235. Physical Biochemistry of Macromolecules.** (2) II. Rowen
Lectures, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent; Chemistry 110A-110B, 111.
Application of principles of physical chemistry to the study of the physical characteristics and functions of proteins and other macromolecules in cells, tissues and body fluids of animals.
- 242. Advanced Metabolism.** (3) II. Zabin and Snoko
Lectures, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent. Recommended: Chemistry 138, 240.
Advanced treatment of in vivo and vitro methods of study of the biogenesis synthesis and degradation of carbon compounds; kinetics of metabolic systems in animals.
- 245. Biochemistry of Lipides.** (2) II. Howton and Mead
Lectures and conferences, two hours.
Prerequisite: courses 101A, 101B, 101C, or equivalent.
Biochemistry of lipides including methods of isolation, characterization and determination; role of lipides in animal metabolism.
- 251A-251B. Seminar in Physiological Chemistry.** (1-1) I, II. The Staff
Oral reports by graduate students on topics selected from current biochemical literature.
- 290A-290B. Research in Physiological Chemistry.** (2-6; 2-6) I, II.
The Staff

PHYSIOLOGY*

- John Field, Ph.D., *Professor of Physiology (Chairman of the Department)*.
Victor E. Hall, M.D., *Professor of Physiology*.
Allan Hemingway, Ph.D., *Professor of Physiology*.
Robert B. Livingston, M.D., *Associate Professor of Anatomy and Physiology*.
Robert E. Smith, Ph.D., *Associate Professor of Physiology*.
Ralph R. Sonnenschein, Ph.D., M.D., *Associate Professor of Physiology*.
Robert D. Tschirgi, Ph.D., M.D., *Associate Professor of Anatomy and Physiology*.
Aaron A. Cohen, M.D., *Assistant Professor of Physiology in Residence*.
Daniel H. Simmons, Ph.D., M.D., *Assistant Professor of Physiology and Medicine in Residence*.
William J. Whalen, Ph.D., *Assistant Professor of Physiology*.
Bennett J. Cohen, Ph.D., D.V.M., *Instructor in Physiology in Residence and Veterinarian, Division of Sanitation*.

The Department of Physiology offers instruction to medical students which is intended to provide the basis for a physiological approach to medical problems. Its facilities are also available to a limited number of graduate students seeking a professional career in medical science.

* See the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, for details of the graduate program and other courses offered by the department.

COURSES FOR MEDICAL STUDENTS**First Year**

- 101. Mammalian Physiology.** The Staff
Lectures, laboratory exercises, demonstrations, and conferences on the functional activities of the body as a whole and of lower levels of organization such as organ systems, organs, tissues, cells and subcellular structures, with emphasis on man. Topics include the circulation, blood, general and cellular metabolism, muscle function, respiration, digestion, kidney function, water and electrolyte balance, endocrine function, temperature regulation and an analysis of the physiological consequences of stress.
II, M W F, 8-12, F, 3-5 x 9. 234 hr. (8).
- 103. Basic Neurology. (2) II.** Livingston, Tschirgi, and the Staff
Lectures, laboratory exercises, demonstrations, and conferences dealing with the structure and function of the receptors, peripheral and central nervous system. Given jointly with the Department of Anatomy. Concomitant registration in Anatomy 103 required.
II, M Tu, 1-5 x 9. 72 hr. (3).

Fourth Year (Required)

- 222. Basic Medical Sciences.** The Staff
Given jointly with the departments of Anatomy, Physiological Chemistry, Biophysics and Pharmacology. Discussions, conferences and correlation clinics on special topics designed to serve as the basis for the physiological approach to medical problems on an advanced level.
I, II, S, 11-12. 8 hr. (½).

ELECTIVES

(Admission upon consent of the instructor)

- 199. Undergraduate Problems.** The Staff
I, II, by arrangement. 72-432 hr. (1-6).
- 201. Physiological Methods.** Hemingway
I, by arrangement. 36 hr. (2).
- 202. Physicochemical Principles in Physiology.** Smith
I, by arrangement. 36 hr. (2).
- 203. Cellular Physiology.** Field
I, by arrangement. 36 hr. (2).
- 204. Cardiovascular Physiology.** Hall
I, by arrangement. 36 hr. (2).
- 205. Physiology of Respiration.** Hemingway
I, by arrangement. 36 hr. (2).
- 206. Gastrointestinal Physiology.** Sonnenschein
I, by arrangement. 36 hr. (2).
- 207. Neurophysiology.** Livingston
I, II, by arrangement. 36 hr. (2).

208. **Theoretical Physiology.** Tschirgi
I, by arrangement. 36 hr. (2).
- 251A-251B. **Seminar in Physiology.** The Staff
I, II, W 1-2. 18, 18 hr. (1, 1).
- 299A-299B. **Research in Physiology.** The Staff
I, II, by arrangement. 72-432 hr. (1-6).

GRADUATE PROGRAM

Details of the requirements for admission to candidacy for advanced degrees in physiology and of the Graduate Program of the Department are set forth in the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, which can be obtained from the Registrar's Office.

PREVENTIVE MEDICINE AND PUBLIC HEALTH

- Wilfrid J. Dixon, Ph.D., *Professor of Preventive Medicine and Public Health.*
L. S. Goerke, M.D., M.S.P.H., *Professor of Preventive Medicine and Public Health.*
Wilton L. Halverson, M.D., Dr.P.H., *Professor of Preventive Medicine and Public Health (Chairman of the Department).*
A. Harry Bliss, M.S., M.P.H., *Associate Professor of Preventive Medicine and Public Health.*
John M. Chapman, M.D., M.P.H., *Associate Professor of Preventive Medicine and Public Health*
Byron O. Mork, M.D., M.P.H., *Visiting Associate Professor of Preventive Medicine and Public Health.*

Preventive medicine and public health instruction is given to candidates for the M.D. degree in all four years. Specific courses are scheduled for the freshman, sophomore, and senior years. Other instruction in preventive medicine is provided in coöperation with other departments.

COURSES FOR MEDICAL STUDENTS

First Year

101. **Biostatistics.** (1) I. Dixon
Students are taught the value of accurate information concerning population size, components and changes, trends in morbidity, mortality, and natality rates. An introduction to the concept of variability, range of normal values, appraisal of scientific data, design of experiments, and methods of presenting data is included.

Second Year

201. **Epidemiology.** (2) II. Chapman
The course is a study of factors and their interrelationships which affect the occurrence and course of health and disease in a population including characteristics of the host population, the causative agents, and the biological, physical, and social environment.

Fourth Year**220. Health Administration. (1) I.**

Goerke

The administrative and socioeconomic aspect of medical care as related to everyday practice is considered. Medical care programs including official and nonofficial agencies, insurance plans, industrial and union plans as they concern the private practitioner are presented.

PSYCHIATRY

Norman Q. Brill, M.D., *Professor of Psychiatry (Chairman of the Department)*.

Donald B. Lindsley, Ph.D., *Professor of Medical Psychology (Acting Head, Division of Medical Psychology)*.

Frank F. Tallman, M.D., *Professor of Psychiatry (Head, Division of Preventive Psychiatry)*.

Charles W. Tidd, M.D., *Professor of Psychiatry (Head, Division of Adult Psychiatry)*.

Henry H. Work, M.D., *Associate Professor of Psychiatry (Head, Division of Child Psychiatry)*.

Justin D. Call, M.D., *Assistant Professor of Psychiatry*.

Floyd M. Estess, M.D., *Assistant Professor of Psychiatry*.

James T. Marsh, Ph.D., *Assistant Professor of Medical Psychology*.

Arnold B. Scheibel, M.D., *Assistant Professor of Psychiatry and Anatomy*.

Robert J. Stoller, M.D., *Assistant Professor of Psychiatry*.

Charles W. Wahl, M.D., *Assistant Professor of Psychiatry*.

Frederic G. Worden, M.D., *Assistant Professor of Psychiatry*.

Claude E. Fiske, Ph.D., *Instructor in Medical Psychology*.

Rogers H. Wright, Ph.D., *Instructor in Medical Psychology in Residence*.

The Department of Psychiatry will present courses of instruction in each of four years. In the first year the introductory course will outline the field of psychiatry, showing its relationships to the other branches of medicine, together with a detailed description of the development of personality and the mental mechanisms. The department will also participate in the Correlation Clinics of the first year.

The work of the second year will include a detailed study of the classification of the mental disorders together with their pathology. Also, instruction in psychiatric history-taking and mental examination will be given in the course, Introduction to Clinical Medicine.

The work of the third year will be devoted, through work with out-patients, to a study of the principles of psychotherapy as applied to general medical practice. Instruction will be provided on the nature, use, and limitations of psychological tests as applied to patients in this setting. Basic principles of the diagnosis and treatment of emotional disorders in children will be taught in a Clinical Clerkship in Child Psychiatry which will be integrated with the Clinical Clerkship in Pediatrics.

The work in the fourth year will be in the form of a clinical clerkship with hospitalized patients. In addition, a series of weekly clinics will be used to illustrate through case presentations the many ways in which emotional problems manifest themselves in all types of clinical disorders and diseases.

The Department of Psychiatry accepts qualified physicians for post-doctoral (American Board approved) residency training, leading to a Certificate in Psychiatry awarded in the Graduate Division of the University.

In collaboration with the State Department of Mental Hygiene, three programs varying from three to five years' duration are offered. Residents are appointed annually but are ordinarily expected to complete a training program. The three years of training include experience with the examination, diagnosis and treatment of adults and children in hospitals and outpatient clinics. Intensive, continuing, individual supervision is provided each resident. Opportunity for training in basic and clinical neurology is provided in the third year of training. Third-year residents are encouraged to engage in research and are offered a variety of elective activities under supervision. Throughout the training program seminars, case conferences and clinical demonstrations are held.

COURSES FOR MEDICAL STUDENTS

First Year

101. Introduction to Psychiatry. Tidd, Work, and the Staff

The course presents a description of the scope, materials, and basic concepts included in the field of psychiatry. Further, a description of the development of the personality in its several aspects and the interactions between the individual and the environment to illustrate normal development will be given. This is to serve as a basis for the study of psychopathology in the second year and clinical work in the third and fourth years.

I, M, 10-12.

36 hrs. (2).

Second Year

201. The Psychiatric Disorders and Their Pathology.

Tidd, Work, and the Staff

The course presents in a systematic way the causes, nature, and symptoms of mental and emotional disorders. The relationship between stress and the period of development in which it occurs and psychiatric disorders will be studied. Factors entering into failure of adjustment and their relationship to earlier life experiences will be explored. This study of psychopathology will be made concurrently with twelve additional hours of instruction in psychiatric history-taking and mental examination given in Introduction to Clinical Medicine. The two courses are planned to prepare the student for the clinical work of the third and fourth years.

II, F, 8-10, Brentwood Neuropsychiatric Hospital.

36 hrs. (2).

Third Year

210. Outpatient Clinical Clerkship. Tallman, Estess, Wahl, and the Staff

The course is designed to improve skill in history-taking and psychiatric examination, to help the student understand and use the basic principles involved in the physician-patient relationship in the practice of medicine and to recognize clinical manifestations of mental mechanisms as exhibited by patients. Emphasis is on the use of brief psychotherapeutic methods in treating the less severe emotional disturbances commonly encountered in medical practice.

I, II, Section 1, F, 2-5; Section 2, S, 9-1.

120 hrs. (4).

211. Child Psychiatry.

Work, Call, Wahl, and the Staff

This course provides continued instruction in history-taking and psychiatric examination. Emphasis is on work with children and their parents. The use of doctor-patient relationships, the recognition of clinical disorders and the principles of psychotherapy with children and their parents are stressed.

Daily 8-12.

105 hrs. (3) 3 wks.

M T W Th, 2-5.

Fourth Year

220. Inpatient Clinical Clerkship.

Stoller, Worden, and the Staff

This course consists of supervised clinical work with inpatients. Each student will be assigned to do the admission work-up on a series of newly hospitalized patients. He will also have the opportunity to see and interview a number of other patients presenting a wide variety of clinical disorders. The student will visit several psychiatric hospitals, and will observe the various care and treatment resources, such as occupational therapy, insulin and electric shock therapy, etc. Students will observe the community responses to the mentally ill patient, including the problems of the family, the role of the psychiatric hospital, the court procedure of commitment, and the contributions of clinical psychologists, social workers, and others in the diagnosis, care and treatment of the mentally ill.

Brentwood Neuropsychiatric Hospital, M W F.

105 hrs. (3) 3 wks.

L. A. Gen. Hosp., Psychiatric Unit, Tu Th, 8-5.

221. Role of Emotions in Illness.

Brill, Estess, Stoller, Tallman, Tidd, and Work

Clinical case material selected by the students will serve as the basis for discussion of the psychiatric aspects of general clinical medicine, further elaboration of the diagnosis and treatment of psychiatric disorders and presentation of the relationships of the practicing physician to various community agencies.

II, M, 12-1.

36 hrs. (2).

Fourth-Year Elective Courses

230. Advanced Courses in Psychiatric Outpatient Clinic.

Brill, Tallman, Wahl

Continuation of work with selected patients suffering from emotional disorders.

I, II, S, 9-11.

72 hrs. (2).

231. Psychodiagnostic Testing.

Marsh and Staff

A study of the construction, techniques of application, and interpretation of psychological tests. The uses of psychological tests in various medical settings will be emphasized.

I or II, S, 9-11.

18 hr. (1).

232. Advanced Course in Psychiatric Hospital.

Stoller and Staff

Observation of various advanced psychiatric treatment methods.

I or II, S, 9-11, Brentwood Neuropsychiatric Hospital.

72 hrs. (2).

COURSES FOR PROFESSIONAL POSTDOCTORAL STUDENTS**First Year**

- 250. Personality Development.** Tidd and the Staff
This lecture course introduces the beginning psychiatric resident to the scope and concepts of psychiatry. A description of normal personality development is presented. The course serves as a basis for the subsequent study of psychopathology.
I, M, 10-12. 36 hrs. (2).
- 251. Continuous Case Seminar.** Kupper
This seminar utilizes the presentation by a resident of a case in treatment to illustrate principles of psychotherapy, personality theory and related topics.
II and S.T., M, 12-1. 36 hrs. (2).
- 252. Seminar in Psychology.** Marsh and the Staff
This course presents the theory, methodology and clinical technics of clinical psychology.
I, II, Alternate Tu, 12-2. 36 hrs. (2).
- 253. Psychiatric Grand Rounds.** Brill and the Staff
This conference utilizes case presentations by the resident to illustrate problems in diagnosis, care and treatment of both hospital and clinic patients.
Yr., W, 8:30-10. 75 hrs. (4).
- 254. Milieu Therapy Conference.** Tidd and the Staff
This conference provides instruction in the function of hospital staff in the collaborative treatment of psychiatric patients.
Yr., W, 4-5. 50 hrs. (3).
- 255. Outpatient Conference.** Tallman and the Staff
This conference utilizes the presentation of residents' work with adults and children in the outpatient clinic to illustrate the discussion of diagnosis, psychodynamics, principles of office psychotherapy, and other forms of treatment.
Yr., Th, 4:30-6. 75 hrs. (4).
- 256. Psychiatric Clinic Intake Conference.** Wahl, Marsh, and the Staff
This conference utilizes the residents' work with applicants to the clinic for discussion of diagnostic methods, treatment planning and community resources.
Yr., F, 11:30-1. 75 hrs. (4).
- 257. Seminar in Psychiatry.** Brill and the Staff
This seminar presents systematically the causes, nature and symptoms of mental and emotional disorders and the principles of their treatment.
Yr., S, 9-11. 100 hrs. (5).
- 258. Seminar on Group Therapy.** Rosow
The principles and practice of group psychotherapy are discussed utilizing illustrative clinical data presented by the residents and staff.
I, II, F, 4-5. 36 hrs. (2).

259. Individual Case Supervision.

Brill and the Staff

Each resident receives one hour of individual supervision each week for his work with adult patients and one hour for work with child patients. The preceptor method is utilized in supervision to teach the practice of clinical psychiatry.

Yr., 2 hours/week by individual arrangement.

100 hrs. (5).

450. Inpatient Clinical Practice.

Tidd and the Staff

The residents, under supervision of the staff, observe, take histories from, examine, diagnose, prescribe for, and treat hospitalized patients. The use of psychotherapy, drugs, and somatic therapies in the treatment of severe mental disorders is taught. Psychiatric consultations for other clinical services are performed.

Yr., M Tu W Th F S, hours by individual arrangement. 500 hrs. (10).

451. Outpatient Clinical Practice.

Tallman and the Staff

The residents, under supervision of the staff, observe, examine, diagnose, and treat adult and child patients in the psychiatric outpatient clinic. Clinic operation and relationships to ancillary workers are taught. Consultations for other outpatient clinics are performed.

Yr., M Tu W Th F S, hours by individual arrangement.

1000 hrs. (20).

Second Year

465. Psychiatric Hospital Clinical Practice.

Brill and the Staff

Until the completion of the Neuropsychiatric Institute, the second year of psychiatric residency training is spent at one of the affiliated psychiatric hospitals. At these institutions residents will have the opportunity to diagnose and treat a large number and variety of the more seriously ill psychiatric patients who require specialized institutional treatment. Residents will gain experience in the various treatment methods used in such a setting. In addition to the clinical work, a series of seminars covering psychopathology, psychotherapy and other topics will be presented. Individual supervision will be given each resident. All work is supervised by members of the faculty and the hospital staff.

Yr., M Tu W Th F, 8-5.

2000 hrs. (30).

Metropolitan St. Hospital, Brentwood Neuropsychiatric Hospital.

Third Year

265. Continuous Case Seminar.

Kupper

This seminar utilizes the presentation by a resident of a case in treatment to illustrate advanced principles of psychotherapy, personality theory and related topics.

Yr., M, 12-1.

50 hrs. (3).

266. Seminar in Psychology.

Marsh and the Staff

This course presents the methodology and clinical technics of clinical psychology.

I, II, Alternate Tu, 12-2.

36 hrs. (2).

267. Psychiatric Grand Rounds.

Brill and the Staff

This conference utilizes case presentations by the resident to illustrate problems in diagnosis, care, and treatment of both hospital and clinic patients.

Yr., W, 8:30-10.

75 hrs. (4).

268. Milieu Therapy Conference.

Tidd and the Staff

This conference provides instruction in the function of hospital staff in the collaborating treatment of psychiatric patients. This course is elective for third-year residents.

Yr., W, 4-5.

50 hrs. (3).

269. Outpatient Conference.

Tallman and the Staff

This conference utilizes the presentation of residents' advanced work with adults and children in the outpatient clinic to illustrate the discussion of diagnosis, psychodynamics, principles of office psychotherapy, and other forms of treatment.

Yr., Th, 4:30-6.

75 hrs. (4).

270. Psychiatric Clinic Intake Conference.

Wahl and the Staff

This conference utilizes the residents' work with applicants to the clinic for discussion of diagnostic methods, treatment planning, community resources and relationships to related ancillary workers.

Yr., F, 11:30-1.

75 hrs. (4).

271. Seminar on Group Therapy.

Rosow

The principles and practice of group psychotherapy are discussed utilizing illustrative clinical data presented by the residents and staff.

I, II, F, 4-5.

36 hrs. (2).

272. Individual Case Supervision.

Brill and the Staff

Each resident receives one hour of individual supervision each week for his work with adult patients and one hour for work with child patients. The preceptor method is utilized in supervision to teach the practice of clinical psychiatry.

Yr., 2 hours/week by individual arrangement.

100 hrs. (5).

273. Literature Seminar in Psychiatry.

Brill and the Staff

This seminar will survey important selections from the psychiatric literature. Residents will present reading assignments for discussion with the faculty.

Yr., S, 9-11.

100 hrs. (5).

480. Outpatient Clinical Practice.

Tallman and the Staff

The residents, under supervision of the staff, observe, examine, diagnose, and treat adult and child patients in the psychiatric outpatient clinic. Clinic operation and relationships to ancillary workers are taught. Consultations for other outpatient clinics are performed.

Yr., M Tu W Th F S, hours by individual arrangement.

1500 hrs. (30).

RADIOLOGY

Andrew H. Dowdy, M.D., *Professor of Radiology (Chairman of the Department)*.

Joseph F. Ross, M.D., *Professor of Radiology and Medicine.*

Justin J. Stein, M.D., *Professor of Radiology.*

Ross Golden, M.D., *Visiting Professor of Radiology.*

Leslie R. Bennett, M.D., *Associate Professor of Radiology.*

Moses A. Greenfield, Ph.D., *Associate Professor of Radiology.*

Raymond L. Libby, Ph.D., *Associate Professor of Radiology.*

Bernard J. O'Loughlin, M.D., *Associate Professor of Radiology.*

Richard E. Ottoman, M.D., *Associate Professor of Radiology.*

Richard F. Riley, Ph.D., *Associate Professor of Radiology.*

John H. Woodruff, M.D., *Associate Professor of Radiology.*

Wm. Norman Hanafee, M.D., *Assistant Professor of Radiology.*

Joseph L. Westover, M.D., *Assistant Professor of Radiology.*

Stefan P. Wilk, M.D., *Assistant Professor of Radiology.*

John H. Simonton, M.D., *Instructor in Radiology.*

COURSES FOR MEDICAL STUDENTS

Instruction in the Department of Radiology will be provided throughout the School of Medicine curriculum.

First Year

101. **Radiology in Anatomy.** Ottoman
 Instruction in roentgen anatomy correlated with the findings in Anatomy 105.
 I, hours and units included within Anatomy 105. 9 hrs. ($\frac{1}{2}$).

Second Year

201. **Radiology in Clinical Medicine.** Golden and O'Loughlin
 Departmental participation in Introduction to Clinical Medicine 201.
 II, hours and units included within Medicine 201. 4 hrs. ($\frac{1}{4}$).
202. **Basic Principles in Radiology.**
 Bennett, Greenfield, Libby, O'Loughlin, Ottoman, Stein
 Lectures on the physics of radiology, radioisotopes, radiation biology, protection, and clinical applications of radiology.
 I or II, F, 11-12. 16 hrs. (1-1).

Third Year

212. **Radiology-Pathology Clerkship.** Dowdy and Staff
 Junior students study current cases from the radiological and pathological standpoints under the direct supervision of the staffs of the two departments. This controlled experience in the description, analysis and diagnosis of radiologic and pathologic cases is supplemented by course reports and participation in certain conferences.
 I or II, F, 12-1 x 5; for 4½ weeks: M Tu W Th, 10-12, 2-3:30; F, 10-12, 2-3:30, or S, 11-1. 82 hrs. (2).

Fourth Year**226. Therapeutic Radiology.**

Dowdy, Stein, and Ottoman

A summary of the use of ionizing radiations in the treatment of malignancy.

I, F, 12-1 x 5.

5 hrs. ($\frac{1}{4}$).**COURSES FOR GRADUATE STUDENTS**

Courses of study for the degree of Master of Science in the radiological sciences will be arranged for students who are admitted to the Graduate Division. Study in the fields of radiation biology and radiation physics will be open to qualified graduate students and radiology residents. Upon application and with the approval of the departments concerned, the Department of Radiology will permit selected students from the other science departments of the University to do a portion of their doctoral research in the Department of Radiology. Requests for information regarding prerequisites and appointments for qualificative interviews may be addressed to the Office of the Chairman, Department of Radiology.

210. Introduction to Foundations of Radiobiology. (5) I.

Libby, Greenfield, Bennett, Riley

Physical foundations of radiation including its production, interaction with matter, and its effects on chemical and biological systems; medical and biological applications of tracer methods. This course is intended primarily for residents in radiology and graduate students in radiobiology. Moderately advanced courses in physics, mathematics, and chemistry will be required. Consent of instructors needed.

220. Roentgenoscopy.

O'Loughlin and the Staff

A survey of the mobility and density characteristics of various fluids, fat, protein, and mineral solids naturally occurring in the body, with more intensive study of their interrelationships and their abnormal alterations. Methods of inducing contrast between otherwise similar tissues will also be explored. Dynamic physiological and pathological changes will be studied.

I or II, hours and units to be arranged.

96 hrs. (2-6).

221A-221B. Combined Diagnostic Conference. O'Loughlin and the Staff

Group analysis of diagnostic problems found in hospital and clinical practice.

I, II, M Tu W Th F, 8-9.

160 hrs. (5-5).

222. Radiation Therapy.

Stein

A review of basic principles of radiobiology, with special attention to reactions of neoplastic and inflammatory processes to ionizing radiation of various types. The distribution and summation of radiation effects and their relationship to the growth of cancer will be intensively studied. The systemic effects of radiation, radiation sickness, and the pharmacological problems posed will be of particular interest.

I or II, hours and units to be arranged.

96 hrs. (2-6).

- 223A-223B. Radiation Therapy Conference.** (1-1) I, II. The Staff
Presentation of selected current therapeutic problem cases of general interest.
I, II, W, 11-12. 32 hrs. (1-1).
- 224. Roentgen Diagnosis.** O'Loughlin and the Staff
Deliberate analysis of the graphically recorded changes noted roentgenoscopically as well as the tissue changes apparent with various disease entities. An attempt is made to understand the pathogenesis of these processes and to arrive at diagnostic and prognostic conclusions in each instance. Anatomical development is also studied, and differentiation between normal and abnormal growth is estimated.
I or II, hours and units to be arranged. 96 hours. (2-6).
- 225. Consultative Tumor Board.** Dowdy and Stein
I or II, hours and units to be arranged. 48 hrs. (1-3).
- 248A-248B. Pediatric Radiology.** O'Loughlin
Special methods in diseases of children.
I, II, F, 12-1. 32 hrs. (1-1).
- 250. Introductory Nuclear Physics.** Greenfield and the Staff
Physics of radioactivity, interaction of alpha, beta, and gamma rays with matter, etc. Laboratory includes mathematical techniques, measurement of nuclear radiations, etc.
I, M, 1-5. 64 hrs. (2).
- 251. Applied Nuclear Physics.** Libby and the Staff
Isotope methodology in biological research; instrumentation, detection and the quantitative determination of radioactivity.
II, M, 1-5. 64 hrs. (2).
- 252A-252B. Clinical Radioisotopes.** Bennett and Staff
Application of radioisotopes to clinical problems. Course intended for physicians and radiation physicists.
I, II, hours and units to be arranged 480 hrs. (1-4).
- 253. Radiation Safety.** Libby and the Staff
This course is designed to instruct graduate students, residents, technicians and others in methods for safely handling and confining radioactive materials.
I or II, hours to be arranged. 32 hrs. (no credit).
- 256. Radiological Physics.** Greenfield and the Staff
Physics of the production of X rays, interaction of X rays and gamma rays with matter, etc. Laboratory includes instruction in necessary mathematical techniques, measurement of quality and quantity of X rays, study of electrical components used in X-ray generators.
I or II, S, 9-1. 64 hr. (2).
- 257. Radiation Measurements.** Greenfield and the Staff
Isodose determinations in phantoms, X-ray and isotope dosimetry, calibrations of equipment, radiation surveys, etc.
I or II, hours to be arranged. 64 hr. (2).

258. Reactor Theory.

Greenfield and the Staff

Neutron physics with application to the construction and operation of reactors.

I, hours to be arranged.

32 hrs. (2).

260. Radiology Seminar. (1-3) Yr.

Dowdy and the Staff

Joint critical study by students and instructors of the fields of organized knowledge pertaining to radiology. Periodic contributions are made by visiting professors. Research in progress is discussed.

I, II, Th, 5-6.

48 hrs. (1-3).

280. Research in Radiology.

Dowdy and the Staff

Approval of the Chairman of the Department will be required.

I, II, hours and units to be arranged.

192 hrs. (2-6).

451A, 451B, 451S. Seminar in Radiology.

Dowdy and Staff

The Seminar in Radiology will consist of daily clinical teaching exercises in the form of a conference on diagnosis and therapy.

Prerequisite: M.D. degree and completion of one-year internship in an approved hospital.

I, II, and S.T. 30 hours per week minimum.

(10).

Residency Training and Postdoctoral Graduate Work

Although residencies in radiology have been established in the affiliated hospitals, advanced work is offered primarily in the University of California Medical Center. Requests for information concerning prerequisites and application for appointment may be addressed to the Office of the Chairman, Department of Radiology.

Research

Investigative activities are encouraged throughout the department, and other departments are encouraged to make use of the personnel and facilities of the Department of Radiology in research pertaining to radiology.

SURGERY

John B. Dillon, M.D., *Professor of Surgery (Anesthesiology)*.

Willard E. Goodwin, M.D., *Professor of Surgery (Urology)*.

William P. Longmire, Jr., M.D., *Professor of Surgery (Chairman of the Department)*.

Joel J. Pressman, M.D., *Professor of Surgery (Head and Neck)*.

W. Eugene Stern, M.D., *Associate Professor of Surgery (Neurosurgery)*.

Franklin L. Ashley, M.D., *Assistant Clinical Professor of Surgery*.

Robert W. Bailey, M.D., *Assistant Professor of Surgery (Orthopedics)*.

Wiley F. Barker, M.D., *Assistant Professor of Surgery*.

Jack A. Cannon, M.D., *Assistant Professor of Surgery*.

William H. Dornette, M.D., *Assistant Professor of Surgery (Anesthesiology)*.

Bruce V. Leamer, M.D., *Assistant Professor of Surgery (Head and Neck)*.

Harvey N. Lippman, M.D., *Assistant Professor of Surgery*.

James V. Maloney, M.D., *Assistant Professor of Surgery*.

Robert W. Rand, M.D., *Assistant Professor of Surgery (Neurosurgery)*.
 Edward R. Woodward, M.D., *Assistant Professor of Surgery*.
 B. David Averbook, M.D., *Instructor in Surgery*.
 Verne L. Brechner, M.D., *Instructor in Surgery (Anesthesiology)*.
 Charles C. Hedges, M.D., *Instructor in Surgery (Ophthalmology)*.
 Eva M. Kavan, M.D., *Instructor in Surgery (Anesthesiology)*.
 Jack H. Seltsam, M.D., *Instructor in Surgery (Head and Neck)*.
 David B. Sheldon, M.D., *Instructor in Surgery*.
 Roderick D. Turner, M.D., *Instructor in Surgery (Urology)*.

COURSES REQUIRED FOR MEDICAL STUDENTS

Second Year

201. Introduction to Clinical Medicine. (6) II.

Cannon, Goodwin, Bailey, Pressman, Irvine, Stern and the Staff

In the second year, students are given instruction in surgery in the course, Introduction to Clinical Medicine. At this time they learn the techniques of examination and the various diagnostic procedures used in surgery and the surgical specialties, including urology, ophthalmology, neurosurgery, orthopedics, and otorhinolaryngology. They attend special clinics and demonstrations, and by the end of the course are able to take a complete history and perform a physical examination. In addition, they are given instruction in the diagnosis and treatment of the common surgical problems and diseases.

Third Year

210. Surgery. 358 hr. (11½).

Barker, Goodwin, Bailey, Pressman, Irvine, Stern, and the Staff

In the third year, most of the student's time is spent in outpatient clinics. Here they perform histories and physical examinations on new ambulatory patients and do supervised diagnostic studies. A portion of the time is devoted to the outpatient clinics of the surgical specialties and the students' work in the Ophthalmology, Otorhinolaryngology, Urology, Orthopedics, and Neurosurgery clinics, as well as the General Surgery Clinic. Didactic lecture material is presented during this time and the students also attend certain clinic seminars. One afternoon each week is devoted to instruction in operative technique and the principles of asepsis. The emphasis in the third year is on basic surgical principles.

Clerkship.—History-taking and physical examinations on new ambulatory outpatients, supervised and checked by the attending staff. Includes experiences in general surgery and all of the surgical specialties.

Outpatient Seminar.—A demonstration clinic, discussion, and lecture using selected outpatients.

General Surgery Clinic.—A lecture-clinic presented weekly to the combined third- and fourth-year classes.

Lectures in Surgical Specialties.—Didactic lectures in neurosurgery, urology, orthopedics, ophthalmology, and head and neck surgery for combined third- and fourth-year classes.

Surgery Seminar.—A weekly meeting of the faculty of the Department of Surgery with presentation of cases for discussion by the resident staff. For third- and fourth-year classes.

Operative Surgery.—In this course students are taught principles of operating room sterile technique and are taught to perform major operative procedures on laboratory animals. Many aspects of surgical research are discussed during this course. These include methods of approaching a research problem and necessary steps to carry out such a problem. It is hoped that students will be stimulated to initiate research problems of their own and participate in those being carried out by staff members.

Fourth Year

220. Surgery. 451 hr. (12) Longmire, Woodward, Goodwin, Bailey, Pressman, Stern, Irvine, and the Staff

In the fourth year, students work on the wards as clinical clerks and have patients assigned to them. They perform a history and physical examination and certain laboratory work on these patients. They assist at surgery and take part in the pre- and postoperative care of their patients in general surgery and the surgical specialties. The students present their cases at ward rounds and a small group discussion is led by the instructor. During the fourth year the students are assigned to the Emergency Ward where they assist in the care of patients requiring emergent treatment. Also during the fourth year the students have a clerkship in anesthesia where they participate in the selection and in techniques of administration of various anesthetic agents.

CLERKSHIPS

General Surgery, Urology, Neurosurgery, Head and Neck, Orthopedics, and Ophthalmology.—Students are assigned patients on the various wards and are responsible for histories, physical examinations, and certain laboratory studies on these patients. Students follow each patient to the operating room and scrub on the operation. They then follow the patient during the postoperative period and until the time of his discharge. They are supervised by residents and by full-time members of the surgical staff. Students attend ward rounds, lectures, and demonstrations conducted by the various surgical divisions.

Anesthesia.—Lectures and demonstrations are presented to students. During a two-week period they also visit the surgical operating rooms where they observe and are taught the administration of anesthetic agents and principles of pre- and postanesthesia care. They are likewise instructed in the administration of anesthetic agents to animals during the course in Operative Surgery.

Emergency Surgery.—The students are assigned to the emergency room for a period of three weeks. Acute surgical illnesses and injuries are seen, examined, and where possible treated under supervision of the attending staff.

General Surgery Clinic.—A lecture-clinic presented weekly to the combined third- and fourth-year classes.

Lectures in Surgical Specialties.—Didactic lectures in neurosurgery, urology, orthopedics, ophthalmology, and head and neck surgery for the combined third- and fourth-year classes.

General Surgery Seminar.—A weekly meeting of the attending staff in General Surgery with presentation of cases for discussion by the resident staff for third- and fourth-year classes.

ELECTIVE COURSES

230A-230B. Surgery-Advanced Urology. (1) Yr. Goodwin and the Staff
Staff conference and seminar discussion of clinical urology problems.
Open to third- and fourth-year students.

231. Surgical Anatomy. (1) II. Longmire and the Staff
In conjunction with the Department of Anatomy, a cadaver prosection is carried out and the regions of the body are discussed by both anatomists and surgeons.

POSTDOCTORAL TRAINING

The Outpatient Clinics of the Department of Surgery were open in June, 1955, and include clinics in General Surgery, Head and Neck, Neurological Surgery, Ophthalmology, Orthopedics, and Urology. These clinics are open for patients on regular scheduled hours each week. The Emergency Suite is open at all hours for the admission, examination and treatment of patients with acute illnesses or injuries that require prompt care.

Approximately 80 beds are available for the hospitalization of adult patients with surgical conditions in the University of California Hospital. In addition there are approximately 30 beds on the Pediatrics ward for the care of surgical patients. Additional surgical patients are treated in the Student Health area of the University of California Hospital.

General Surgery.—The internship in surgery in the University of California Hospital is organized to provide experience in general surgery, as well as the various surgical specialties. The time is divided between General Surgery, Head and Neck, Neurosurgery, Ophthalmology, Orthopedics, Urology, and Anesthesiology. Experience is provided in both outpatient and inpatient care. The intern participates in the diagnostic studies and in the pre- and postoperative care of surgical patients. Additional experience is provided in the emergency room in the diagnosis and management of acute illness and trauma.

The first year of assistant residency is designed to give a broad experience at a junior level in many fields of surgery, so that the man will be prepared to continue in general surgery or to continue his training in one of the surgical specialties. Each man spends three months in general surgery, half of this time on the wards and half in the Outpatient Department and emergency services. He supervises the work of the intern and students. On ward cases he interviews and examines each patient and dictates an admission and discharge summary. He assists at operations and performs some of the minor procedures under supervision. He attends the conferences of the residents and staff. The resident may participate in investigative programs, chiefly of a clinical nature. When assigned to a specialty, he works in the Outpatient Department and supervises the work of the intern and student.

A certain amount of latitude is permitted in assignments during the second year, depending upon the interests and abilities of the individual. The program for the year is based upon six months' work in a research laboratory, either working on an independent problem or with one of the faculty members, and six months' training in surgical pathology. Both the laboratory and pathology experience bring the resident into firsthand contact with the basic sciences. The year is designed to increase his knowledge in these fields

and to stimulate his interest in some of the unsolved surgical problems, as well as to prepare him to evaluate the experimental work of others.

The third year is designed to increase the resident's experience and knowledge of certain of the surgical specialties. During this year he will select two or three of the surgical specialties for an additional four or six months of experience. He will either serve as chief resident of the specialty or as first assistant resident. He will have an opportunity to gain further experience in the field at a fairly responsible level. He will supervise the work of students, interns, and junior residents. He assists in arranging ward rounds and teaching conferences and staff meetings. He interviews and examines patients, assists at operations, and begins to function as the responsible surgeon under supervision in selected cases. He participates in selected investigative programs, chiefly of a clinical nature.

The fourth year, the resident serves as first assistant resident on the general surgical service. He supervises the students, interns, and junior residents. He interviews and examines patients. He assists the chief resident and various members of the attending staff at operations. He assumes, under supervision, responsibility for operations of greater magnitude. He assists the chief resident in the administrative duties of the resident service. He aids in organizing teaching rounds for the fourth-year students. He is encouraged to participate in clinical and laboratory investigation. The experience during this year prepares him to assume the duties and responsibilities of the chief resident position the following year.

The resident during the fifth (final) year of his training, gives immediate supervision of the entire general surgical house staff. He conducts regular evening meetings five days a week for the instruction of the resident staff. His activities are under supervision through daily ward rounds with a senior member of the staff. He performs under supervision or assists one of the staff surgeons in the more major operative cases on the ward service. He consults with members of other services in regard to the management of ward cases with surgical problems. He is encouraged to initiate clinical or other investigative problems. At the completion of this year he is prepared to assume full patient responsibility as a practicing surgeon. He has been introduced to the methods of clinical and laboratory investigation, and he has been encouraged to develop special interests which he may pursue further after completing his residency training.

450A-450B-450C. Clinical Work.

Longmire and the Staff

Required for interns. Under the direction of the staff, responsibility is assumed for preparation of case records, laboratory work, the preoperative and postoperative care of patients and assisting at operations. Assignments are made by rotation to the general surgical and surgical specialty services. Experience is gained in the various surgical outpatient clinics and on the emergency service.

450D-450E-450F. Required for first-year assistant residents. Assignments are made by rotation to the general surgical and surgical specialty services. The assistant resident supervises the ward and clinic activities of the students and interns. Cases are summarized on admission and discharge. Operations are performed under supervision and the assistant resident assists at other operations.

450G-450H-450L. Required for third-year assistant resident, General Surgery. Assignments are made by rotation for periods of three months on certain of the surgical specialty services. The assistant resident participates in the activities of these services at an increased level of responsibility for patient care and supervision of the junior house officers.

450J-450K-450L. Required for fourth-year assistant resident, General Surgery. The fourth-year assistant resident serves as executive officer for the general surgery resident on the clinic service. He supervises the work of medical students and junior house officers. Less complicated major surgical procedures are performed under supervision and experience continues as a surgical assistant.

450M-450N-450O. Required for resident surgeons. Direction, under supervision of the faculty, of the inpatient and outpatient general surgery clinic service. Duties include, under direction of the faculty, the following according to the resident surgeons' skill and competence:

1. Supervision of the clinical work of the interns and assistant residents.
2. Teaching of medical students, interns and assistant residents.
3. Preparation of material for surgical seminars and conferences.
4. Major responsibility for the diagnosis, preparation, operation, and postoperative care of surgical patients, including daily ward rounds with the resident staff.
5. Arranging consultations with other services.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

451A-451B-451C. Basic Science in Surgery. Longmire and the Staff

Required for second-year assistant residents in General Surgery. A certain latitude is allowed in the activities of this year by special arrangement with the department chairman. Essentially the year is spent in the study of certain basic sciences as they relate to specific surgical problems. The time may be spent in original laboratory investigation or in one of the basic science departments by special arrangement. Staff conferences of the Department of Surgery are attended.

I, II and S.T. (30 hours per week minimum—10 units each semester.)

452A-452B. Surgery Seminar. Stern and the Staff

Required for surgical interns. A weekly meeting of the faculty of the Department of Surgery with presentation of cases for discussion by the resident staff. Reviews of topics of general surgical interest and original laboratory and clinical investigations are presented by staff members.

452C-452D. Required for first-year assistant residents.

452E-452F. Required for second-year assistant residents.

452G-452H. Required for third-year assistant residents.

452I-452J. Required for fourth-year assistant residents.

452K-452L. Required for the resident surgeon.

I and II. (24 hours per semester—1½ units each semester.)

453A-453B. Surgery-General Surgery Clinic. Longmire and the Staff

Required for surgical interns. A lecture-clinic presented weekly to the

combined third- and fourth-year medical school classes and the house staff of the Department of Surgery.

453C-453D. Required for first-year assistant residents.

453E-453F. Required for second-year assistant residents.

453G-453H. Required for third-year assistant residents.

453I-453J. Required for fourth-year assistant residents.

453K-453L. Required for the resident surgeon.

I and II. (18 hours per semester—1½ units each semester.)

454A. Surgery—Lectures in Surgical Specialties.

Goodwin, Bailey, Irvine, Stern, Pressman, and Dillon

Required for surgical interns assigned to surgical specialties. Didactic lectures in neurosurgery, urology, orthopedics, ophthalmology, and head and neck surgery, for combined third- and fourth-year classes and interns.

I. (9 hours per semester—½ unit.)

455A-455B. Surgical Pathology.

Barker, Latta, and the Staffs

Presented jointly with Department of Pathology. Required for interns. Weekly review of available pathological material. Presentation of case records and gross and histological material from pathology.

455C-455D. Required for first-year assistant residents.

455E-455F. Required for third-year assistant residents.

455G-455H. Required for fourth-year assistant residents.

455I-455J. Required for senior resident.

I and II. (16 hours per semester—1 unit each semester.)

456A. Surgical Anatomy.

Woodward, Eldred, and the Staffs

Presented jointly with Department of Anatomy. Required for interns. Lectures and cadaver dissection with emphasis on surgical anatomy.

456B. Required for first-year assistant residents.

456C. Required for third-year assistant residents.

456D. Required for fourth-year assistant residents.

456E. Required for senior resident.

II. (24 hours per semester—½ unit.)

Residency programs are also being organized in the following surgical specialties within the Department of Surgery: Anesthesiology, Head and Neck, Ophthalmology, Orthopedics, Neurological Surgery, and Urology. The programs which are proposed in the above specialties are as follows:

Anesthesiology.—The assistant resident in Anesthesiology is required to have at least one year's experience in an approved internship, preferably of the rotating type. During his first year as assistant resident in Anesthesiology, emphasis is placed on the basic physiological process of the body as related to the use of anesthetic agents, and to the pharmacology of specific

anesthetic agents. He is introduced to the techniques utilized in clinical anesthesia, and under close supervision, gives anesthetics of the less complicated types. During the second year of residency the student continues his studies of the pharmacological and physiological aspects of anesthesiology, and increases his clinical experience under supervision in the use of the various anesthetic agents and the evaluation of patients for anesthesia, as well as the selection of the appropriate agents to be used. The residency program in Anesthesiology is fully approved by the American Board of Anesthesiology.

457A-457B-457C. Clinical Work.

Dillon and the Staff

Required for first-year assistant residents, Anesthesiology, as outlined in the preceding statement.

457D-457E-457F. Required for all second-year assistant residents, Anesthesiology.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

458A-458B-458C. Anesthesia Seminar.

Dillon and the Staff

Required course for first-year assistant residents, Anesthesiology. One hour weekly devoted to a discussion of anesthetic records for previous week and selected cases.

458D-458E-458F. Required for second-year assistant residents, Anesthesiology.

I, II and S.T. (18 hours per semester—1 unit each semester.)

459A-459B. Basic Science Lectures.

Dillon, Dornette, and the Staff

Required for first-year assistant residents, Anesthesiology. Series of didactic lectures on physiology and pharmacology as related to anesthesia, held weekly.

459C-459D. Required for second-year assistant residents, Anesthesiology.

I and II. (18 hours per semester—1 unit each semester.)

460A-460B-460C. Staff Meeting.

Dillon and the Staff

Required for all first-year residents, Anesthesiology. Weekly staff meeting of faculty and residents.

460D-460E-460F. Required for all second-year residents, Anesthesiology.

I, II and S.T. (18 hours per semester—1 unit each semester.)

Head and Neck.—The first-year assistant resident in Head and Neck participates in the general surgery program, and rotates through the various surgical specialties, as well as receives experience in general surgery. The second-year assistant resident will confine his experience to the clinical services of the Head and Neck Service. Here he is introduced to the usual otolaryngological diagnostic procedures, diseases, and treatments, as well as techniques of endoscopy and the diagnosis and treatment of diseases of the oral cavity, including neoplasms. Time is spent in the study of the regional anatomy, and pathology of this specialty. Patients are seen in the Outpatient Clinic. During the third year the resident continues his studies of diseases of this particular field, their diagnosis and treatment and, under supervision, participates in the care of patients as the responsible surgeon. Original laboratory and clinical investigation is encouraged.

450D-450E-450F. Clinical Work.

Pressman and the Staff

Required course in general surgery for first-year assistant residents. See General Surgery.

461A-461B-461C. Required for second-year assistant residents, Head and Neck. Course of instruction as outlined above.

461D-461E-461F. Required for resident in Head and Neck.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

462A-462B. Lectures on Diseases of Head and Neck.

Pressman and the Staff

Required for second-year assistant residents, Head and Neck. A comprehensive series of didactic lectures on diseases of the head and neck region.

462C-462D. Required for resident in Head and Neck.

I and II. (16 hours per semester—1 unit each semester.)

463A. Technique of Foreign Body Endoscopy. Pressman and the Staff

Required for second-year residents, Head and Neck. A practical course of instruction in the use of instruments for endoscopy and the removal of foreign bodies.

463B. Required for resident, Head and Neck.

II. (12 hours per semester— $\frac{1}{4}$ unit.)

464A. Cadaver Surgery of the Head and Neck Region.

Pressman and the Staff

Required for second-year resident, Head and Neck. A cadaver dissection and study of the anatomy of the head and neck region.

464B. Required for resident, Head and Neck.

I. (30 hours per semester— $\frac{3}{4}$ unit.)

465A-465B. Staff Rounds, General Medical and Surgical Hospital, Veterans Administration Center.

Mumma and the Staff

Required for second-year assistant resident, Head and Neck. Presentation of selected cases for general discussion.

465C-465D. Required for resident, Head and Neck.

I and II. (24 hours per semester— $1\frac{1}{2}$ units each semester.)

Neurosurgery.—Following completion of an approved internship and one full year of approved residency training in general surgery, applicants are qualified for admission to the residency program of neurological surgery. The first clinical year of the program consists of a junior house officership in neurological surgery. The house officer is familiarized with methods of neurological history-taking, examination, and detailed observation of the patients. He is instructed in the details of pre- and postoperative care, and serves as second assistant in major surgical procedures. Training is given in the special diagnostic methods of this field. Studies are conducted in neuro-anatomy, neuropathology, and neurophysiology. The second year of training is designed to afford the house officer twelve months of clinical organic neurology. His time will be spent on the active neuromedical ward, where he will be responsible to the resident in Neurology for the complete diag-

nostic study and evaluation of neurological problems. This service is currently given at the General Medical and Surgical Hospital, Veterans Administration Center. Six months is spent in the pathology laboratory, with special emphasis on neurological material. The third year of assistant residency consists of supervision of the junior trainees and increasing responsibility in the performance of all diagnostic tests. The assistant resident will serve as first assistant resident in major surgical procedures and, under supervision of the resident or attending surgeon, may perform certain major operative procedures. During the fourth year the trainee serves as chief resident of the Neurosurgical service, where he assumes a major share of responsibility of the operating work of this service, under supervision of the chief of the service. He directs the work of the assistant residents, interns, and students on the service, and is responsible to the chief of the service for the care of all inpatients. He also serves as neurosurgical consultant to the other services within the hospital.

466A-466B-466C. Clinical Work.

Stern and the Staff

Required for first-year assistant residents, Neurosurgery. Examination, diagnosis, preoperative and postoperative care of patients on the Neurosurgical service as indicated above.

466D-466E-466F.

Stern, Rose, and the Staffs

Required for second-year assistant residents, Neurosurgery. Experience in clinical organic neurology.

466G-466H-466I. Required for third-year assistant residents, Neurosurgery.

466J-466K-466L. Required for senior residents, Neurosurgery.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

467A-467B. Neurosurgical Seminar.

Stern and the Staff

Required for first-year assistant residents, Neurosurgery. Presentation by faculty and resident staff of selected topics and cases in the field of neurosurgery.

467C-467D. Required for second-year assistant residents, Neurosurgery.

467E-467F. Required for third-year assistant residents, Neurosurgery.

467G-467H. Required for senior residents, Neurosurgery.

I and II. (18 hours per semester—1 unit each semester.)

468A-468B. Neuropathology and Neuroradiology Conference.

Stern, Bumpus, Brown, and the Staffs

Required for first-year assistant residents, Neurosurgery. Conference of Neurosurgery, Pathology, and Radiology representatives to discuss and correlate the clinical course, radiographic and pathological findings of cases from the neurosurgical service.

468C-468D. Required for second-year assistant residents, Neurosurgery.

468E-468F. Required for third-year assistant residents, Neurosurgery.

468G-468H. Required for senior residents, Neurosurgery.

I and II. (18 hours per semester—1½ units each semester.)

Ophthalmology.—An applicant for assistant residency on the ophthalmological service must have completed one year of an approved internship. During his first year the assistant resident is introduced to the diagnostic studies, diseases, and treatments of various conditions of the eye. He works in the ophthalmological outpatient department and participates in the pre- and postoperative care of ward patients. The anatomy, physiology, and pathology of the eye are emphasized during this year. During the second year the assistant resident of Ophthalmology assumes greater responsibility in the examination and diagnosis of patients with diseases of the eye, and performs certain minor operative procedures under supervision. He attends the regular meetings of the staff of Ophthalmology and participates in daily ward rounds. During the final or third year of the program, the student serves as resident on the ophthalmological service, and is in charge of the clinic service under the supervision of the chief of the service. He supervises and directs the pre- and postoperative care of these patients and, under supervision, gains experience in the more major surgical procedures in ophthalmology. Clinical and laboratory investigation are encouraged.

469A–469B–469C. Clinical Work.

Irvine and the Staff

Required for first-year assistant residents, Ophthalmology. Experience in diagnosis and preoperative and postoperative management of ophthalmological patients on the outpatient and inpatient service as outlined in preceding paragraph.

469D–469E–469F. Required for second-year assistant residents, Ophthalmology.

469G–469H–469I. Required for senior residents, Ophthalmology.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

470A–470B. Seminar in Ophthalmology.

Irvine and the Staff

Required for first-year assistant residents, Ophthalmology. Presentation of selected topics by members of faculty and resident staff. Ophthalmological cases of unusual interest are presented by resident staff for general discussion.

470C–470D. Required for second-year assistant resident, Ophthalmology.

470E–470F. Required for senior resident, Ophthalmology.

I and II. (18 hours per semester—1 unit each semester.)

471A–471B. Basic Science Lectures in Ophthalmology.

Irvine and the Staff

Required for first-year assistant residents, Ophthalmology. Presentation of basic science topics related to ophthalmology by members of the staff and by speakers from other departments. Original investigative work in progress in the division is presented for discussion.

471C–471D. Required for second-year assistant residents, Ophthalmology.

471E–471F. Required for senior resident, Ophthalmology.

I and II. (36 hours per semester—2 units each semester.)

472A-472B. Lectures on Physiological Optics and Refraction.

Irvine and the Staff

Required for first-year assistant residents, Ophthalmology. A series of didactic lectures presented by members of the staff covering the basic principles of physiological optics and the techniques of refraction.

472C-472D. Required for second-year assistant residents, Ophthalmology.

472E-472F. Required for senior resident, Ophthalmology.

I and II. (24 hours per semester—1½ units each semester.)

473A-473B-473C. Ophthalmological Clinical-Pathological Conference.

Irvine, Madden, and the Staffs

Required for first-year assistant residents, Ophthalmology. A bimonthly meeting of the Ophthalmology staff and representatives from the Department of Pathology to review the clinical course and pathological findings of selected cases from the ophthalmological service.

473D-473E-473F. Required for second-year assistant residents, Ophthalmology.

473G-473H-473I. Required for senior resident, Ophthalmology.

I, II, and S.T. (12 hours per semester—1 unit each semester.)

Orthopedics.—Prerequisites for selection of the assistant resident in Orthopedics will be the following: (1) graduation from a Class A medical school, (2) completion of a minimum of one year approved general surgical residency, and (3) completion of a year's training at the assistant resident level in general surgery. The applicant may meet this requirement by completing the first year of assistant residency on the general surgical service of the University of California Hospital, Los Angeles. As a first-year assistant resident in Orthopedics, he is assigned to the Department of Anatomy for a period of five months. His studies here emphasize the anatomy, histology, and embryology of the musculoskeletal system. He attends the formal lectures and staff rounds of the Division of Orthopedics. During the remaining portion of the first year the assistant resident participates in the outpatient clinics and inpatient care, together with the other members of the Orthopedics house staff. The second-year assistant resident participates in the outpatient activities. The care of inpatients, however, is his major responsibility. He serves as first surgical assistant at all operations and is assigned as responsible surgeon in certain of the minor operative procedures. Experience is emphasized in the diagnosis and care of trauma of the musculoskeletal system. During the third year the resident serves as senior resident and is responsible for the care of patients in the outpatient clinic and on the clinic ward service. This portion of his work is supervised by the faculty of the Division of Orthopedics. He performs the major orthopedic procedures, under supervision, and helps to arrange formal conferences and lectures of the staff and participates in the teaching program to junior house officers and members of the medical school student body.

474A-474B-474C. Clinical Work.

McMaster, Bailey, and the Staff

Required for first-year assistant residents, Orthopedics (6 months). Preparation of clinical records, examination, and management of outpatients and inpatients, as indicated in preceding paragraph.

474D-474E-474F. Required for second-year assistant resident, Orthopedics.

474G-474H-474I. Required for senior resident, Orthopedics.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

475A. Applied Anatomy.

Bailey, Magoun, and the Staffs

Required for first-year assistant residents, Orthopedics (6 months). The first-year assistant residents in Orthopedics are assigned in rotation to the Department of Anatomy for intensive anatomical study of the musculo-skeletal system. During this period the formal lectures and seminars of the Division of Orthopedics are attended.

I and II. (30 hours per week minimum—10 units each semester.)

476A-476B-476C. Orthopedic Rounds.

Bailey and the Staff

Required for first-year assistant residents, Orthopedics. Presentation by the resident staff of selected cases from the orthopedic service with general discussion of diagnostic and therapeutic problems by members of the staff.

476D-476E-476F. Required for second-year assistant residents, Orthopedics.

476G-476H-476I. Required for senior residents, Orthopedics.

I, II, and S.T. (18 hours per semester—1 unit each semester.)

Urology.—Requirements for admission to the resident in Urology training program consist of the following: (1) graduate of a Class A medical school, (2) completion of one full year of approved general surgery or rotating internship, and (3) completion of one year's assistant residency in general surgery. Completion of the first-year assistant residency in the Division of General Surgery at the University of California Hospital, Los Angeles, fulfills this requirement. The first-year assistant resident in Urology is trained in basic urology, the diagnostic procedures, and treatment of urological conditions. Emphasis is placed on regional anatomy, physiology, and pathology of the genitourinary system. The assistant resident participates in the outpatient clinic and in the pre- and postoperative care of urological ward patients. He assists on urological operations. The second-year assistant resident continues his experience in the diagnosis and treatment of outpatients on the urological service. He assumes a greater degree of responsibility in diagnostic urology. He devotes a great portion of his time to elective, experimental laboratory research and to urological pathology. In the third year he will broaden his experience in the field of urology by additional experience in an affiliated program, either at the General Medical and Surgical Hospital, Veterans Administration Center or in the Harbor County General Hospital urological service. Here he participates in the care and treatment of both inpatients and outpatients. He attends the formal lectures and staff meetings of the urological service, and is expected to participate in either clinical or laboratory investigative work. During the fourth year the resident serves as senior resident of the urological service, where he is responsible, under supervision, for the care of both inpatients and outpatients on the urological clinic service. Under supervision he performs major urological operative procedures. He assists in arranging clinics and rounds for the urological staff, and participates in the teaching program for the medical students and junior house officers. He is expected to continue an active interest in laboratory or clinical investigation, and to submit, during his final

year, a completed thesis on an appropriate subject approved by the chief of the Division of Urology.

477A-477B-477C. Clinical Work.

Goodwin and the Staff

Required for first-year assistant residents, Urology. The assistant residents are assigned to both the outpatient clinics and inpatient ward service to participate in patient study and care as outlined above.

477D-477E-477F. Required for second-year assistant residents, Urology.

477G-477H-477L. Required for third-year assistant residents, Urology.

477J-477K-477L. Required for senior residents, Urology.

I, II, and S.T. (30 hours per week minimum—10 units each semester.)

478A-478B. Urology Seminar.

Goodwin and the Staff

Required for first-year assistant residents, Urology. Presentation of selected topics by guest speakers and members of the staff. Discussion of investigative work in progress and presentation of completed projects.

478C-478D. Required for second-year assistant residents, Urology.

478E-478F. Required for third-year assistant residents, Urology.

478G-478H. Required for senior resident, Urology.

I and II. (27 hours per semester—1½ units each semester.)

479A-479B-479C. Urology Rounds, General Medical and Surgical Hospital, Veterans Administration Center.

Goodwin, Thomas, Belt, and the Staff

Required for first-year assistant residents, Urology. Cases are selected from the urological service, General Medical and Surgical Hospital, Veterans Administration Center, for presentation by resident staff and general discussion.

479D-479E-479F. Required for second-year assistant residents, Urology.

479G-479H-479L. Required for third-year assistant residents, Urology.

479J-479K-479L. Required for senior resident, Urology.

I, II, and S.T. (18 hours per semester—1 unit each semester.)

480A-480B-480C. Urology Grand Rounds, University of California Hospital.

Goodwin, Belt, Thomas, and the Staff

Required for first-year assistant residents, Urology. Members of the resident staff present selected cases from the urological service of the University Hospital for general discussion. Cases are selected which present unusual diagnostic and therapeutic problems, or cases which illustrate basic urological principles. Distinguished guests are invited from time to time to conduct these rounds.

480D-480E-480F. Required for second-year assistant residents, Urology.

480G-480H-480I. Required for third-year assistant residents, Urology.

480J-480K-480L. Required for senior resident, Urology.

I, II, and S.T. (18 hours per semester—1 unit each semester.)

PHYSICAL MEDICINE

Fourth Year

Lectures and Clinical Demonstrations.

Emphasis is placed on the role of physical medicine in physical rehabilitation, or in management of various diseases in which there are abnormalities of neuromuscular function.

Clinical Field Experience (Small Groups).

Clinical training in the outpatient clinics and Department of Physical Medicine of the University of California Hospital, Los Angeles, and affiliated institutions in the employment of physical agents in the diagnosis and treatment of diseases in the medical and surgical specialties, and the relationship of physical medicine to internal medicine, surgery, orthopedics, pediatrics and neuropsychiatry. The utilization of occupational therapy and rehabilitation procedures in the over-all care of the disabled, in relationship to paraplegia, hemiplegia, arthritis, cerebral palsy, poliomyelitis, and the psychiatric patient.

POSTGRADUATE MEDICAL EDUCATION

Thomas H. Sternberg, M.D., *Professor of Medicine (Dermatology), and Assistant Dean for Postgraduate Medical Education.*

Gertrude H. McSpedden, *Principal Extension Representative.*

Clara E. Cartt, *Principal Clerk.*

Medical Extension, a department within University Extension, and the Division of Postgraduate Medical Education in the School of Medicine, operates as a single unit in offering a variety of postgraduate programs to both medical and paramedical groups. The over-all program utilizes both the full- and part-time School of Medicine resident faculty, as well as outstanding guests from throughout the world.

The demand for postgraduate educational opportunities in medicine has greatly increased during recent years. The curriculum has been developed insofar as possible to meet the expressed desire, need, and convenience of medical personnel. Short courses of varying length are planned in the basic sciences and in the various subdivisions of medicine primarily for practicing physicians. In these short courses, no attempt is made to prepare physicians for a specialty, but rather to present a thorough discussion of the subjects listed, identifying the new procedures in practice with the underlying or fundamental principles of operation. In addition, programs are also organized for specialty groups in either medical or research fields.

INTRAMURAL

The following is a partial list of courses to be offered during 1956-1957 on the Los Angeles campus of the University of California. Other courses will be added as needs arise.

Aviation Medicine
Basic Ophthalmology
Dermatology in General Practice

Electrocardiography
Emotional Problems in Office
Practice, Basic and Advanced

Industrial Medicine	Problems in Sterility
Medical Lecture Series	Surgical Anatomy
Obstetrics and Gynecology	Surgical Lecture Series
Pathological Physiology	Surgical Pathology
Pediatrics	Surgery of Trauma

Medical Extension has also initiated a Summer Medical Series. Programs now planned for the summer of 1956 are as follows:

<i>Program</i>	<i>Length</i>
Medical Review Course.....	5 days
Surgical Review Course	5 days
Anesthesiology	5 days
Techniques of Hypnosis.....	5 days

Other courses to be announced later.

EXTRAMURAL

The extramural courses are given in various locations in southern California selected with regard to professional population, hospital and classroom facilities, and accessibility from neighboring communities. The teaching program is usually planned with the coöperation of the local county medical society. During the coming year, courses will be offered in areas away from the University of California Medical Center, Los Angeles. In addition, the staff of Medical Extension coöperates with various official and nonofficial medical groups in either a consulting or operational capacity in organizing programs to meet special needs.

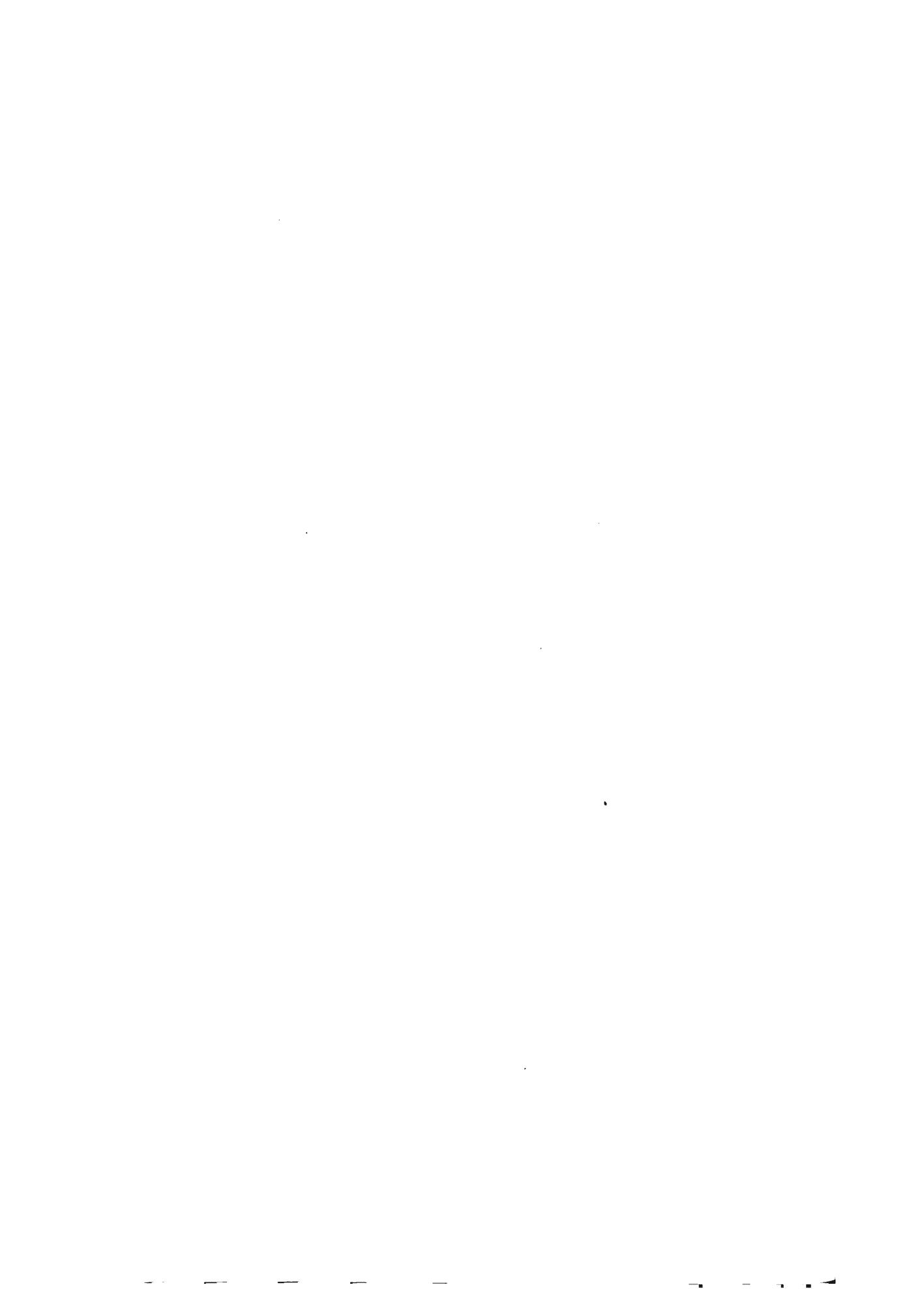
PARAMEDICAL

During the past four years, courses have been organized for ancillary medical personnel such as laboratory technicians, medical technologists, and X-ray technicians. The courses are primarily intensive lecture and laboratory refresher courses with annual symposia given for certain groups. During 1956-1957, the following will be offered:

Diagnostic Bacteriology for Laboratory Technicians
 Cytology for Laboratory Technicians
 Mycology for Laboratory Technicians
 Annual Symposium: Clinical Laboratory Technicians
 Annual Symposium: X-ray Technicians
 Prosthetics

Special announcements giving details with regard to program, time, meeting place, and fees will be mailed to qualified physicians upon request.

Requests for information regarding the program or for the organization of special courses should be referred to the Assistant Dean for Postgraduate Medical Education, Office of Medical Extension, University Extension, University of California, Los Angeles 24.





Bulletin

Announcement of the

School of Nursing

BERKELEY AND SAN FRANCISCO

Fall and Spring Semesters, 1956–1957

MAY 15, 1956



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All announcements herein are subject to revision. Changes in the list of Officers of Administration and Instruction may be made subsequent to the date of publication, May 15, 1956.

Announcement of the

School of Nursing

Berkeley and San Francisco

Fall and Spring Semesters

1956–1957

MAY 15, 1956

UNIVERSITY OF CALIFORNIA

BERKELEY AND SAN FRANCISCO



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CALENDAR, 1956-1957

FALL SEMESTER, 1956-1957

Sept. 10, Monday	Fall semester begins.
Sept. 11, Tuesday	} Registration.
Sept. 12, Wednesday	
Sept. 13, Thursday	
Sept. 17, Monday	Instruction begins.
*Nov. 22, Thursday	} Thanksgiving holiday.
*Nov. 23, Friday	
Nov. 22, Thursday, to	} Fall recess.
Nov. 24, Saturday	
†Dec. 19, Wednesday, to	} Christmas recess.
†Jan. 1, Tuesday	
*Dec. 24, Monday	} Christmas holiday.
*Dec. 25, Tuesday	
*Dec. 31, Monday	} New Year's holiday.
*Jan. 1, Tuesday	
Jan. 2, Wednesday	Instruction resumes.
Jan. 12, Saturday	Instruction ends.
Jan. 14, Monday, to	} Final examinations.
Jan. 23, Wednesday	
Jan. 24, Thursday	Fall semester ends.

SPRING SEMESTER, 1957

Jan. 28, Monday	Spring semester begins.
Jan. 29, Tuesday	} Registration.
Jan. 30, Wednesday	
Jan. 31, Thursday	
Feb. 4, Monday	Instruction begins.
*Feb. 22, Friday	Washington's Birthday.
†Apr. 18, Thursday, to	} Spring recess.
†Apr. 20, Saturday	
May 22, Wednesday	Instruction ends.
May 24, Friday, to	} Final examinations.
June 4, Tuesday	
*May 30, Thursday	Memorial Day.
June 5, Wednesday	Spring semester ends.

* Academic and administrative holiday.

† Classes will not be held during recess but clinical practice may continue.

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

- His Excellency, GOODWIN J. KNIGHT, A.B.
Governor of California and President
of the Regents
State Capitol, Sacramento 14
- HAROLD J. POWERS
Lieutenant-Governor of California
State Capitol, Sacramento 14
- LUTHER H. LINCOLN
Speaker of the Assembly
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721 Capitol av, Sacramento 14
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902 River lane, Santa Ana
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804 Mechanics' Institute bldg,
San Francisco 4
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609 S Grand av, Los Angeles 17
- ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

- EDWIN W. PAULEY, B.S. (1970)
717 N Highland av, Los Angeles 38
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5657 Wilshire blvd, Los Angeles 36
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100 Montgomery st, San Francisco 4
- VICTOR R. HANSEN, LL.B. (1962)
Superior Court, Courthouse,
Los Angeles 12
- EARL J. FENSTON, A.B. (1964)
504 Helm bldg, Fresno 1
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995 Market st, Room 810,
San Francisco 3
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111 Sutter st, San Francisco 4
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100 Bush st, San Francisco 4
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Clarksburg
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Central Bank bldg, Oakland 12
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(1968)
University of California Medical Center,
San Francisco 22
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401 S Broadway, Los Angeles 18
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202 W First st, Los Angeles 53
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Santa Barbara News-Press,
De La Guerra plaza, Santa Barbara
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2855 Ralston av, Hillsborough
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811 W Seventh st, Los Angeles 17

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Attorney in Residence Matters
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Associate Counsel of the Regents
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- John P. Sparrow, A.B., LL.B.
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Assistant Counsel of the Regents
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- Mark Owens, Jr., A.B., LL.B.
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4
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Treasurer and Assistant Secretary
240 Administration bldg, Berkeley 4
- Miss Marjorie J. Woolman
Assistant Secretary
240 Administration bldg, Berkeley 4



University of California Medical Center, San Francisco

UNIVERSITY OF CALIFORNIA

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Hazel B. Jordan, A.B., M.A. (*Representing Director of Admissions at the Medical Center*).

SCHOOL OF NURSING

- June T. Bailey, R.N., Ed.D., *Assistant Professor of Nursing, Acting Dean of the School of Nursing (Acting Chairman of the Department).*
- Amy A. MacOwan, R.N., Ed.D., *Associate Professor of Nursing and Assistant Dean of the School of Nursing.*
- Margaret A. Tracy, R.N., M.S., *Dean of the School of Nursing, Emeritus, and Associate Professor of Nursing, Emeritus.*
- Pearl Castile, R.N., Ed.D., *Assistant Dean of the School of Nursing, Emeritus, and Associate Professor of Nursing, Emeritus.*
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- Mary T. Harms, R.N., Ed.D., *Assistant Professor of Nursing.*
- Ann E. Hill, J.D., R.N., P.H.N., M.P.H., *Assistant Professor of Nursing.*
- Marion E. Kalkman, R.N., M.A., *Assistant Professor of Nursing.*
- Dorothy K. Loveland, R.N., M.A., *Assistant Professor of Nursing.*
- Lura M. Morse, Ph.D., *Assistant Professor of Home Economics.*
- Kathryn M. Smith, R.N., M.A., *Assistant Professor of Nursing.*
- Jeanne S. Berthold, B.S., M.S., *Instructor in Nursing.*
- *Evelyn E. Cohelan, R.N., M.S., *Instructor in Nursing.*
- Marjorie H. Newton, B.S., M.S., *Instructor in Nursing.*
- Thelma F. Foreman, R.N., M.S., *Instructor in Nursing.*
- Dorothy C. Gunnell, R.N., M.S., *Instructor in Nursing.*
- Mary L. Hawkins, R.N., M.S., *Instructor in Nursing.*
- Winifred H. Incerti, R.N., B.S., *Instructor in Nursing.*
- Jean I. Jordan, R.N., M.Ed., *Instructor in Nursing.*
- Miriam F. Laycook, R.N., M.S., *Instructor in Nursing.*
- Ruth E. Nutting, R.N., M.S., *Instructor in Nursing.*
- , *Instructor in Nursing.*
- , *Instructor in Nursing.*
- Alice Kim, R.N., B.S., *Acting Instructor in Nursing.*
- Mildred T. McGregor, R.N., B.S., *Acting Instructor in Nursing.*
- Betty Lou McLaughlin, R.N., B.S., *Acting Instructor in Nursing.*
- , *Acting Instructor in Nursing.*
- Marilyn J. Zabrowski, R.N., B.S., *Acting Instructor in Nursing.*
- Olive E. Walkley, R.N., B.N., A.B., *Lecturer in Nursing.*

* On leave.

**UNIVERSITY OF CALIFORNIA HOSPITALS AND
OUTPATIENT DEPARTMENT**

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 J. B. Lagen, M.D., *Associate Dean, School of Medicine.*
 Marian W. Metz, M.S.W., *Chief, Social Service Department, Medical Center.*
 ———, *Administrator, University Hospitals.*
 H. H. Hixson, *Associate Administrator, University Hospitals.*
 G. H. Vogt, B.S., M.P.H., *Assistant Administrator, University Hospitals.*
 J. M. Yalon, B.S., *Assistant Administrator, University Hospitals.*
 Stanley C. Bateman, *Business Manager.*

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 R. B. Aird, M.D., *Neurology.*
 T. L. Althausen, M.D., *Medicine.*
 H. H. Anderson, M.D., *Pharmacology.*
 H. G. Bell, M.D., *Surgery.*
 K. M. Bowman, M.D., *Psychiatry.*
 E. B. Boldrey, M.D., *Neurological Surgery.*
 F. C. Cordes, M.D., *Ophthalmology.*
 W. C. Deamer, M.D., *Pediatrics.*
 ———, M.D., *Pathology.*
 R. S. Stone, M.D., *Radiology.*
 H. F. Traut, M.D., *Obstetrics and Gynecology.*

Nursing Service

- Harriet Gutermute Phelps, R.N., B.S., *Superintendent of Nurses.*
 Irene Pope, R.N., B.S., M.S., *Assistant Superintendent of Nurses.*
 Arthea B. Little, R.N., *Assistant Superintendent of Nurses.*
 Mary Lou Wootton, R.N., B.S., *Assistant Superintendent of Nurses.*
 Dorothy Keane, R.N., *Nursing Supervisor.*
 Barbara Brugge, R.N., B.S., *Nursing Supervisor.*
 Helen Guild, R.N., *Operating Room Supervisor.*
 Dorothy Lym, R.N., B.S., *Nursing Supervisor.*
 Elizabeth McDonald, R.N., B.S., *Nursing Supervisor, Outpatient Department.*
 Thelma Vertrees, R.N., *Nursing Supervisor.*
 Mary King Vickery, R.N., B.S., *Operating Room Supervisor.*
 Hideko Wada, R.N., B.S., *Nursing Supervisor.*
 L. Fern Williams, R.N., B.S., M.A., *Nursing Supervisor.*
 Eva Green, R.N., *Assistant Nursing Supervisor.*
 ———, *Assistant Nursing Supervisor.*

Administrative and Instructional Assistants

Herbert C. Meffitt Hospital

Nancy Ann Alexander, R.N., B.S., *Head Nurse, Operating Room.*
Frances Z. Ezzaoui, R.N., *Head Nurse, Fourteenth Floor.*
Lois A. Grant, R.N., B.S., *Head Nurse, Obstetrical Service.*
Alicie Henry, R.N., *Head Nurse, Pediatric Service.*
Lois F. Knott, R.N., B.S., *Head Nurse, Delivery Room.*
Susan Lagaipa, R.N., *Head Nurse, Operating Room.*
Maybel M. LaGree, R.N., *Head Nurse, Operating Room.*
Colleen Low, R.N., B.S., *Head Nurse, Eighth Floor.*
Loretta Lundby, R.N., *Head Nurse, Twelfth Floor.*
Mary Mayr, R.N., *Head Nurse, Pediatric Service.*
Margaret McAndrews, R.N., B.S., *Head Nurse, Nursery.*
Barbara McKinley, R.N., B.S., *Head Nurse, Tenth Floor.*
Florence G. Norton, R.N., B.N., *Head Nurse, Central Supply Room.*
Vivienne Patterson, R.N., B.A., M.N., *Head Nurse, Eleventh Floor.*
Mary Puterbaugh, R.N., *Head Nurse, Operating Room.*
Helen Ridge, R.N., B.S., *Head Nurse, Operating Room.*
June Soelberg, R.N., B.S., *Head Nurse, Operating Room.*
Janet Stoddart, R.N., B.N., *Head Nurse, Operating Room.*
Pauline Stoffer, R.N., *Head Nurse, Post-Anesthesia Room.*
Catherine B. Sullo, R.N., *Head Nurse, Operating Room.*
Lois Taylor, R.N., *Head Nurse, Emergency Room.*
Lucille Thomas, R.N., *Head Nurse, Operating Room.*
Zuletta M. Waylan, R.N., *Head Nurse, Operating Room.*
Joan D. Wellenkamp, R.N., B.A., M.N., *Head Nurse, Seventh Floor.*
Eiko Yamamoto, R.N., B.S., *Head Nurse, Ninth Floor.*

Outpatient Department

Marjorie Brownwood, R.N., B.S., *Head Nurse, Well-Baby Clinic.*
Norma Crestetto, R.N., B.S., P.H.N., *Head Nurse, Obstetrical and Gynecological Clinics.*
Betty Hemmingsen, R.N., B.S., *Head Nurse, Ear, Nose, and Throat Clinic.*
Camille Legeay, R.N., B.S., *Head Nurse, Medical Clinic.*
Dorothy Liles, R.N., *Head Nurse, Surgical Clinic.*
Ruth A. Lotspeich, R.N., B.S., *Head Nurse, Eye Clinic.*
Lucy Skelton, R.N., *Head Nurse, Orthopedic Clinic.*
Doris Wolfe, R.N., *Head Nurse, Thoracic Surgery Clinic.*
Fay Woo, R.N., B.S., *Head Nurse, Pediatric Clinic.*

**Nursing Directors of Affiliated Agencies and Institutions Providing
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- Ruth E. Burcham, R.N., B.S., B.N., *Executive Director of The Visiting Nurse Association of San Francisco.*
- Helen W. Goodenough, R.N., M.A., P.H.N., *Director, Public Health Nursing, County of Santa Clara Health Department.*
- Ramona Hopkins, R.N., B.S., M.P.H., P.H.N., *Director, Public Health Nursing, Alameda County Health Department.*
- Gladys Keyes, R.N., B.S., M.P.H., *Director, Public Health Nursing, Contra Costa County Health Department.*
- Dorothy Offenbach, R.N., B.S., *Director of Nursing, San Francisco Hospital.*
- Corrine Parsons, R.N., A.B., *Superintendent of Nurses, Langley Porter Clinic, San Francisco.*
- Ella Rechnitzer, *Director of Lad 'n Lassie Nursery School, San Francisco.*
- Doris L. Robinson, R.N., P.H.N., *Director of Public Health Nursing, San Francisco Department of Public Health.*
- Florence Ofenheim, *Director, Presidio Hill Nursery School, San Francisco.*
- Helen Hatchett, *Director of Sunset Nursery School, San Francisco.*
- Wilma York, R.N., B.S., *Director of Public Health Nursing, Marin County.*

UNIVERSITY OF CALIFORNIA

SCHOOL OF NURSING

HISTORY

NURSING WAS FIRST OFFERED in 1907 by the University of California when it established the University of California Training School for Nurses as a department of the University of California Hospital. The traditional three-year program continued until 1934.

On November 19, 1917, the University of California adopted a five-year curriculum in nursing offering the student a combined program of class and clinical experience. The curriculum grew out of the need for well-prepared women in the newer and broadening social fields of nursing. Between 1917 and 1934 the Training School offered both a three-year and a five-year basic curriculum, but in the spring of 1934 the three-year curriculum was discontinued. The present basic nursing program of the School of Nursing leads to a Bachelor of Science degree in nursing and a Certificate of Completion in nursing upon completion of the prenursing curriculum and twenty-eight months of clinical instruction.

Instruction for graduate nurses was first offered in 1919 on the Berkeley campus as a result of the establishment of a Chair of Public Health Nursing in July, 1918. Seven years later, in 1925, a Chair of Nursing Education was established. This made possible the offering of much-needed instruction for graduate nurses wishing to prepare themselves for teaching and administrative positions in nursing schools. The impetus for the establishment of the instruction in nursing education came from the nurses of the State who fostered in the State Legislature a bill providing for an appropriation to the University from accumulated fees in the Bureau of Registration of Nurses. The bill was passed and the Foundation in Nursing Education thus created was placed in the Department of Hygiene in the University at Berkeley. Additional appropriations from the same source in 1929 and 1931 have further assisted the University in the maintenance of the curricula for graduate nurses.

In July, 1934, all nursing curricula for graduate and undergraduate nurses, both academic and clinical, were placed under the direction of one person, thereby making possible a more unified program and bringing closer together the academic and clinical instruction offered by the University.

The Board of Regents, on March 17, 1939, authorized the establishment of a School of Nursing, the first autonomous school of nursing in any state university. It administers all curricula in nursing leading to the degree of Bachelor of Science and certificates of completion in the various nursing curricula.

In 1949 the Graduate Division approved a program on the Berkeley campus which leads to the Master of Science degree in nursing. The first students enrolled in this curriculum in February, 1950.

ACCREDITATION

The basic curriculum of the School of Nursing is accredited by the Board of Nurse Examiners, State of California, and the National Nursing Accrediting Service. It is also approved for the teaching of public health nursing. Graduates of this basic curriculum are eligible to apply for the Public Health Nurse Certificate and the Health and Development Credential for School Nursing which are issued by the Department of Public Health and Department of

Education, State of California. The curricula for graduate nurses offered in Berkeley and San Francisco are similarly approved.

FACILITIES FOR INSTRUCTION

All facilities of the academic departments of the University, as well as the facilities of the University of California Medical Center, San Francisco, are available to students in the nursing curricula. The School benefits by its close association with the School of Medicine, the School of Pharmacy, and the College of Dentistry, all of which are situated at the Medical Center, San Francisco. Other facilities are also available in affiliating institutions.

The Herbert C. Moffitt Hospital is essentially a teaching hospital with a capacity of 500 beds. It offers an excellent field for the study of nursing, providing experience in medical, surgical, pediatric, obstetrical, and gynecological nursing. The hospital is approved for standardization by the American College of Surgeons and for internship by the American Medical Association.

The Outpatient Department, which treats more than 540 patients daily, provides additional clinical experience in all major services and their specialties.

The San Francisco Hospital, the Visiting Nurse Association, and the San Francisco Department of Public Health supply the needed community nursing experience. The San Francisco Hospital with 430 beds for tuberculosis patients and contagious pavilions with 50 beds, furnish experience in tuberculosis and communicable disease nursing.

Three cooperative nursery schools in San Francisco; the Sunset, Lad 'n Lassie, and Presidio Hill Nursery Schools provide opportunity for students to observe normal children and participate in a program which utilizes modern methods in the guidance of children.

Langley Porter Clinic, the psychiatric hospital on the San Francisco campus, affords excellent facilities for the teaching of psychiatric nursing. It accommodates 100 patients and includes departments in which the latest advances in the treatment of the mentally ill are practiced.

The George Williams Hooper Foundation for Medical Research, the Metabolic Research Building, and other research units are located on the San Francisco campus. Patients being investigated by the research staff are admitted to the hospital for special studies and the students assist with their care.

The School of Nursing occupies the second floor of the Medical Sciences Building. Conference room and additional lecture rooms are provided in the adjacent buildings. In addition, the Herbert C. Moffitt Hospital also provides offices and classrooms for clinical teaching.

The Anatomical-Pathological Museum of the School of Medicine is available to students for teaching and demonstration purposes.

LIBRARIES

The Library of the University of California Medical Center on the San Francisco campus is an extensive collection of monographic and periodical literature in the health sciences comprising the collection of the School of Medicine, College of Dentistry, School of Pharmacy, School of Nursing, the various small departmental working collections, and that of the George William Hooper Foundation in the special fields of bacteriology, public health and veterinary medicine. The collection in the health sciences contains over 110,000 volumes, and some 41,000 foreign University medical dissertations. Approximately 1,640 leading periodicals of the world in the health sciences are received currently and complete sets of most of the important journals are on file.

The principal collection is housed in the south wing of the School of Medicine Building. The pharmacy library is located on the second floor of

the Medical Sciences Building. Some library facilities for staff and students are also provided in the San Francisco Hospital. A small collection of neurological and psychiatric reference material in the Langley Porter Clinic is also available to students, faculties and research workers.

A special room houses the historical collection. Of particular interest is the material on the history of anesthesia, medical Californiana, the Osler Collection, the medical portraits and prints and several manuscripts.

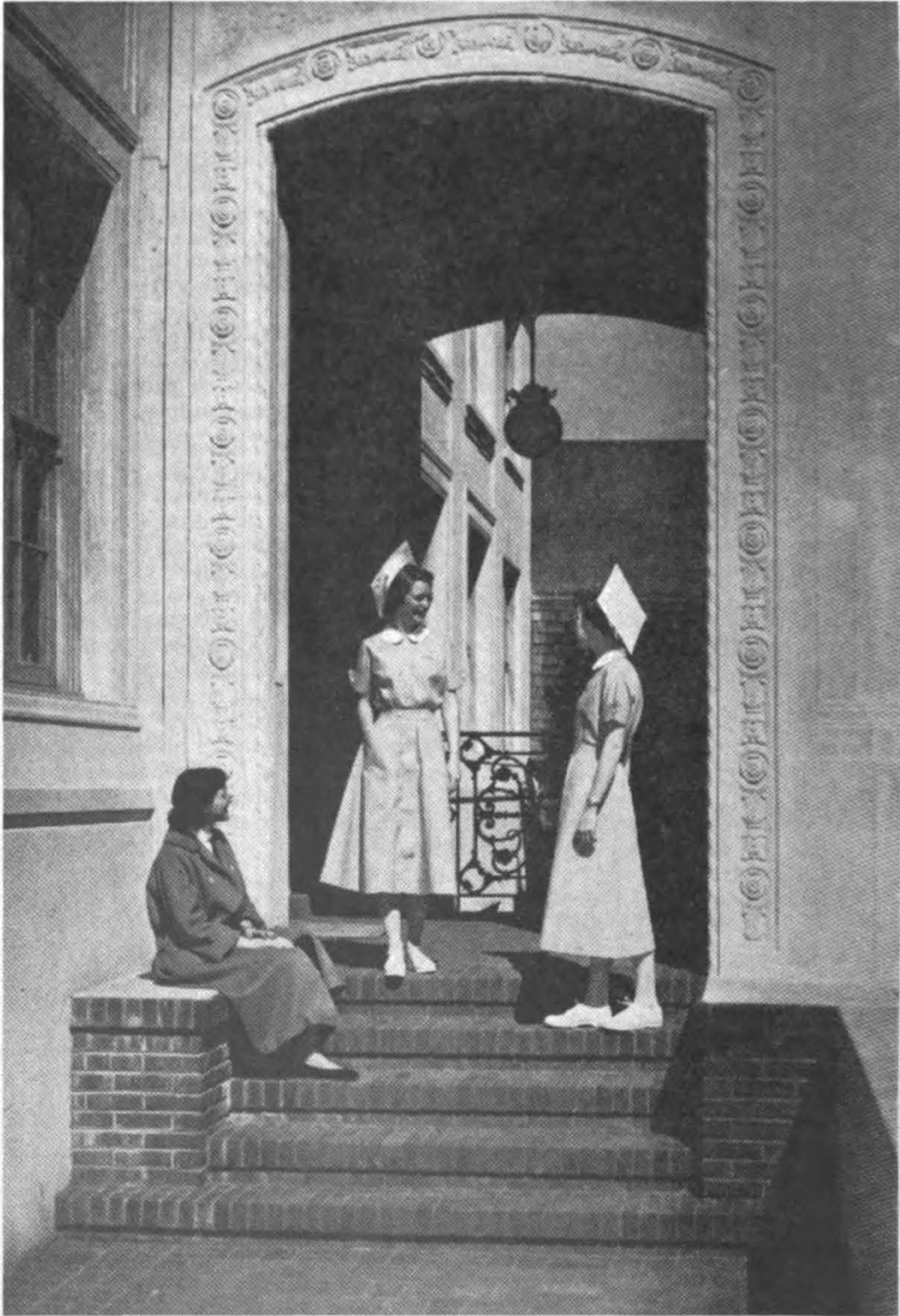
Libraries of the several campuses of the University of California are open to students, research workers and faculty members of the University of California Medical Center, San Francisco.

Library materials not available on the San Francisco campus may be requested on interlibrary loan by faculty members and research workers through the Medical Center Library.

A professional library staff is available to assist staff, faculty members, students, and research workers of the professional schools, University Hospitals and Clinics, research foundations and special research projects of the University of California Medical Center, San Francisco campus.

The Library is usually open:

Monday-Friday	8 A.M.-10 P.M.
Saturday	8 A.M.- 5 P.M.
Sunday	10 A.M.- 3 P.M.



Entrance to Student's Residence

SCHOOL OF NURSING CURRICULA

THE SCHOOL OF NURSING offers three curricula for students:

1. The basic curriculum leading to the Bachelor of Science degree in nursing. (See below.)
2. Curriculum for graduate nurses leading to the Bachelor of Science degree in nursing and the Certificate of Completion in either nursing education or public health nursing. (See page 32.)
3. Curriculum for graduate nurses leading to the Master of Science degree. (See page 36.)

SCHOOL OF NURSING BASIC CURRICULUM

The basic nursing curriculum is designed to enable the nurse to give complete, intelligent, skillful nursing care; to understand and appreciate the emotional and physical needs of patients; to assist in community programs for the prevention of disease and the promotion of health. It also aims to develop a professional nurse who is able to direct her own life, to accept responsibilities as a citizen, and to continue to grow personally and professionally.

The basic nursing curriculum requires four semesters of general arts and science courses to be taken at the University of California, Berkeley, or at other universities, state colleges, or junior colleges where comparable courses are offered. The professional program in the School of Nursing, San Francisco, is twenty-eight months in length.

Upon satisfactory completion of this curriculum the student receives the degree of Bachelor of Science and the Certificate of Completion in nursing. She is prepared to take the California State Board examination for a license as a registered nurse and to apply for the California Public Health Nurse Certificate and also for the Health and Development Credential for School Nursing. An applicant for the California State Board examination must be either a citizen of the United States or have declared her intention to become a citizen of the United States.

REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF NURSING BASIC CURRICULUM

Two years of academic work in an accredited university or college are prerequisite to admission to the basic curriculum. Such work, if taken on the Berkeley campus of the University of California, must include fulfillment of the requirements for the Associate of Arts degree in the College of Letters and Science. If the work is taken on another campus of this University, or at an institution other than the University of California, it must include fulfillment of requirements for the Associate of Arts degree of either the College of Letters and Science, University of California, Berkeley, or the College of Applied Arts, University of California, Los Angeles. Under either plan, the equivalent of the following courses offered on the Berkeley campus must be included:

Chemistry 1A	5
Bacteriology 2	4
Physiology 1 and 1L	5
Anatomy 102	3
Psychology 1A	3
English 1A-1B or Speech 1A-1B	6
American History and American Institutions examinations or courses. See page 23.	

Lower Division Requirements in the College of Letters and Science, Berkeley, for the Associate of Arts degree:

Certain of these requirements may be satisfied by courses taken in the high school. It is desirable that the student should so arrange her high school program as to reduce the required work in the fields of foreign language, mathematics, and natural science. This makes her program more flexible, gives her a greater freedom of choice, and prepares her to pass more quickly into advanced work or into new fields of study. The satisfaction of requirements in the high school does not, however, reduce the amount of work required in the University for the degree of Associate in Arts (60 units).

The degree of Associate in Arts will be granted on the completion of not less than 60 units of college work, including at least the last two semesters in residence at the University and at least the last semester in this college, with a grade-point average in all work done in the University of not less than 1.00 (a C average), and the fulfillment of requirements (a) to (e).

(a) *General University Requirements.*† Subject A.

(b) *Foreign Languages.* At least 16 units in not more than two languages, with not less than 4 units in any one language. The first two years of high school work in a foreign language will be counted in satisfaction of 4 units of this requirement and each year thereafter as 4 units. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement. A student may satisfy this requirement either in whole or in part by giving such evidence of his proficiency in foreign language as may be authorized by the Executive Committee of the College. The College of Applied Arts program does not require foreign language in addition to the amount required for admission to the University.

(c) *Mathematics.* Elementary algebra and plane geometry.

(d) *Natural Science.* At least 12 units chosen from the following list:

High school physics,* 3 units
(1 high school credit).

High school chemistry,* 3 units
(1 high school credit).

Anthropology 1.

Astronomy 1A, 1B, 2, 7A-7B.*

Bacteriology 1,* 2,* 4.*

Botany 1,* 12, 15,* 16.*

Chemistry 1A*-1B,* 5,* 8.

‡Geography 1.

Geology 1, 2 or 10, 3, 5.

Paleontology 1, 10.

Physics 2A-2B, 3A-3B,* 4A-4B-4C,** 10.

Physiology 1, 1L.*

Zoology 1A,* 1B,* 10.

The student must include among the courses taken in satisfaction of the requirement in natural science at least one course in laboratory science. Any of the courses marked with an asterisk in the foregoing list will be accepted in fulfillment of this requirement. Courses with but one unit of laboratory science are not accepted as fulfilling this requirement and are not marked above unless they have as prerequisite a course that also requires one unit of laboratory work.

§(e) *Additional.* A sequence (of 5 or 6 units) in subjects of college level, except as otherwise provided, in four of the following six groups, one of which may be postponed to the upper division. Prenursing students need to complete year courses in only three of the six groups.

(1) English, speech.

* Will be accepted as a laboratory course.

† For information concerning exemption from this requirement, apply to the Registrar.

‡ Geography 1 may be used in partial satisfaction of the natural science requirement; if so used, it may not be included in requirement (e), group 4.

§ A list of the courses acceptable in fulfillment of the requirement (e) will be found in the CIRCULAR OF INFORMATION, DEPARTMENTS AT BERKELEY.

** Two courses from 4A-4B-4C satisfy the laboratory requirement.

- (2) Foreign language—additional to (b). This may be satisfied by one college course of not less than 4 units, or by two years of high school Latin.
- (3) Mathematics. This may be satisfied partly in the high school, as indicated below.
- (4) Social sciences.
- (5) Philosophy.
- (6) Fine arts (art, architecture, music) and literature. This may be satisfied by two or more courses which may or may not form a sequence.

MEDICAL AND PHYSICAL EXAMINATION

Candidates for the School of Nursing at the time of registration on the San Francisco campus must report to the Student Health Dispensary for smallpox vaccination regardless of previous vaccination, and must pass a medical and physical examination given by a member of the Student Health staff before final acceptance is approved. A full program of immunization for diphtheria, tetanus and typhoid as well as tests for tuberculosis, by the Student Health staff, is also required. Final acceptance of applicants is contingent upon fulfilling these requirements to the end that the health of the University community, as well as the individual student, may be safeguarded.

Medical and physical examinations and immunizations and tests in advance of registration are not required and certificates of same will not be recognized by Student Health Service. Physical examinations, chest X rays and tuberculin tests are repeated at regular intervals throughout the course.

Before coming to the University every student is urged to have her own physician and dentist examine her for fitness to carry on her professional training and to have all physical defects capable of remedial treatment, as diseased tonsils, defective vision, dental defects, etc., corrected. Correction of such handicaps prior to entering training will help appreciably to prevent loss of time from classes and ward assignments. Students having handicapping physical conditions such as chronic eczema, diabetes, convulsive disorders, etc., should not apply for admission.

APPLICATION AND INFORMATION

Application for admission to the University of California School of Nursing, San Francisco, should be made directly to the Director of Admissions, University of California Medical Center, San Francisco 22, who will supply the necessary forms for application. Every applicant for admission to the University is required to pay an application fee of \$5 when the first application is filed.* Remittance should be made by draft or money order payable to The Regents of the University of California. Prospective students who plan to complete the prerequisite courses at other institutions than the University of California are advised to submit to the Director of Admissions two transcripts of completed work and a statement of their proposed additional preclinical courses not later than the end of their first college year. All transcripts and requests for evaluation of credentials should be sent to the Director of Admissions at the Medical Center.

In order to give time for necessary correspondence and for due notice to applicants who may be required to make up entrance deficiencies, application should be made as early as possible. For admission to the first clinical year, School of Nursing, San Francisco, the application should be filed prior to March 1 for the class entering in September. Consideration will be given later

* Veterans who expect to enroll under the provisions of Public Law 346 or Public Law 16, are not required to remit this fee with their applications, nor are students previously matriculated on another campus of this University.

physical examinations, tuberculin tests, chest X rays and a full program of immunization are required for each student. *Renewal of registration is contingent upon fulfilling these requirements when students are notified of appointments for such examinations.*

Each registered student at San Francisco may, at need, have such consultations and medical care on the campus as the Student Health Service is staffed and equipped to provide, from the time of approval of her registration to the last day of the current semester. Surgical treatment is also included in the services when, in the opinion of the Director of the Student Health Service, this service is necessary and within the limitations herein outlined. During the semester, hospital care for a period up to thirty days may be given in the event of serious illness on recommendation of the Director of the Student Health Service. The Health Service does not take responsibility for chronic physical defects or illnesses present at the time of entrance to the University.

If illnesses are of a nature requiring long, continued care so that the student may not be able to return to classes during the current semester, or if at the end of the semester the student is still ill, she will be released to her home or community as soon as the Director of the Student Health Service considers it safe.

Dental services are not furnished by Student Health Service. However, dental care is provided at very reasonable rates by appointment with the dental externs. Consultation with members of the staff of the College of Dentistry and facilities of the Dental Out-Patient Department are available.

NURSES' RESIDENCE

The students live in comfortable and attractive residences. One is across the street from the hospital and the other located a block away on the campus. Rooms are usually shared by two students. An auditorium, kitchenette, lounges, and other facilities for recreation are provided. Students may live outside the residence if they prefer, providing their quarters have easy access to the Medical Center.

VACATIONS

A total of eight weeks vacation is arranged for every student during the first and second years in the School of Nursing.

ABSENCES

A total of one month of sick leave may be granted. However, if more than 10 per cent of any one clinical assignment is lost by absence, the student will be reassigned to that clinical area.

THE SCHOOL OF NURSING PROGRAM

The study of the patient in his family and community relationships is emphasized throughout the entire program. The case study method of teaching is used in all departments. In each clinical specialty, the student has experience in the Outpatient Department as well as in the hospital. An effort is made in each clinical specialty to help the student to understand both the techniques of nursing care and the place of the nurse in the hospital and community service. These clinical specialties include medical, surgical, maternity, pediatric, psychiatric, communicable, and community nursing. Related aspects of nutrition, hygiene, psychology, and social conditions are given emphasis throughout the clinical instruction.

Lectures in each clinical subject are given by members of the faculty who are also on the staff of the University of California Hospital and School of Medicine. The instruction in such courses as social welfare, preventive medi-

*Clinical Experiences Contributing to
Student Learning Include*

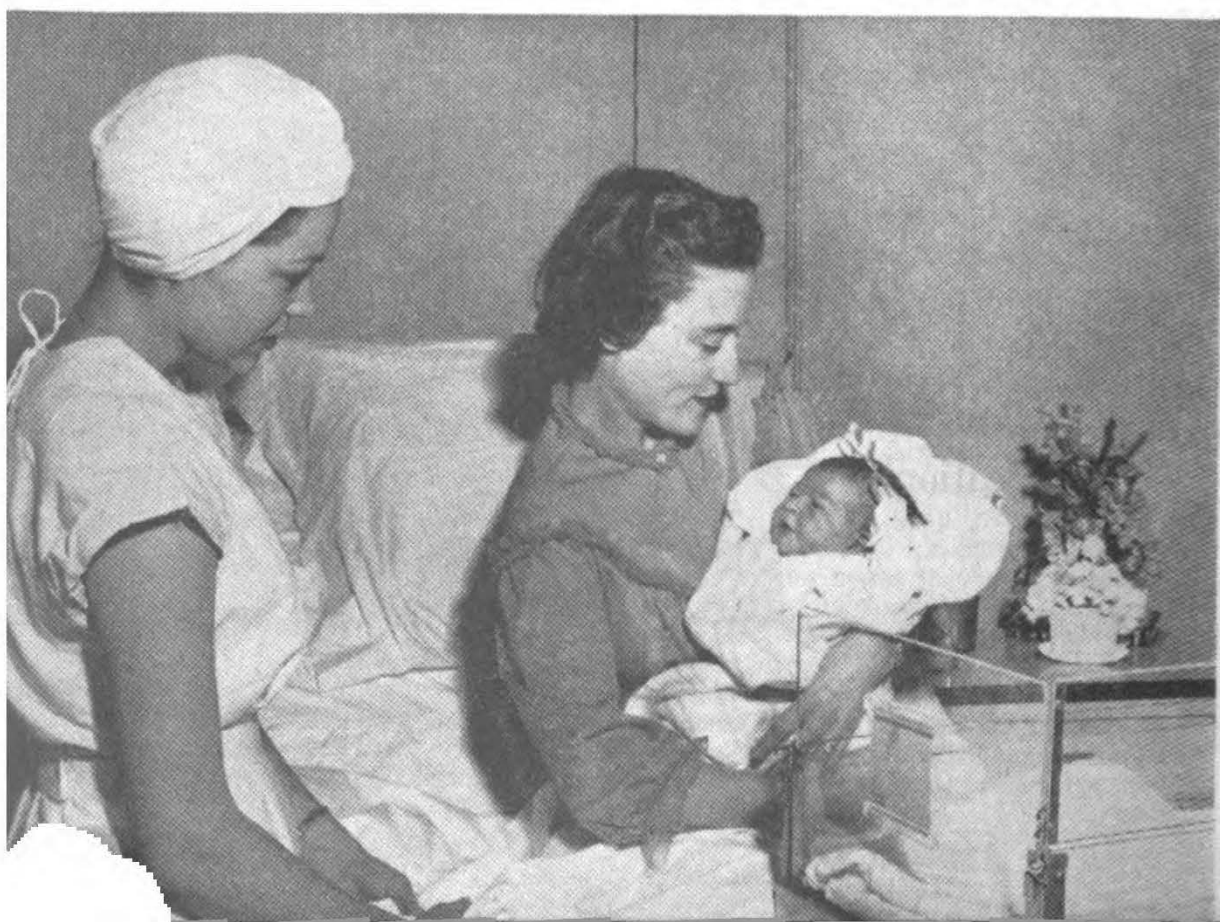


**Pouring
Medications**



Giving Bedside Care

Teaching the New Mother





Acting as the Play Nurse

Making a Home Visit





Participating in the Operating Room

cine, and education is given by faculty members who are teaching similar courses in the departments at Berkeley.

Concurrent with each clinical assignment, instructors plan conferences, readings, nursing care studies, and give individual supervision of patient care.

Beginning with the second semester of the first year, students are assigned to the wards and clinics for supervised practice. Class and clinical practice total not more than forty hours per week. Throughout her course the student has two days a week free, without class or clinical assignment.

During the second and third years final comprehensive examinations are given in medicine, surgery, pediatrics, obstetrics, and public health nursing. These examinations include anatomy, physiology, pathology, materia medica, diet therapy, and nursing principles as they relate to the care of patients in each of these clinical specialties.

Candidates for the bachelor's degree must satisfy the University requirements of American History and Institutions.

TYPICAL PROGRAM

<i>First Semester</i>	<i>Units</i>	<i>Second and Third Semesters</i>	<i>Units</i>
Nursing 435A	5	Nursing 440A-E.....	4
Home Economics 111.....	3	Nursing 442A-E.....	4½
Nursing 427A	2	Nursing 444A-E.....	4
Nursing 425	1	Nursing 448A-E.....	5
Psychology 111.....	2	Nursing 427B	1
		Home Economics 104.....	3
		Nursing 441A	1
	—		—
	13		22½
 <i>Fourth Semester</i>		 <i>Fifth Semester</i>	
Nursing 446	2	Social Welfare 100.....	3
Education 110.....	3	Nursing 421	2
Public Health 100A.....	3	Nursing 423	1
Nursing 444F	2	Sociology 160	3
Nursing 442F	2	Nursing 418	3
	—	Nursing 416A	1
	12		—
			13
 <i>Sixth Semester</i>		 <i>Seventh Semester</i>	
Nursing 448F	2	Nursing 442D	3
Nursing 418E	2	Nursing 440F	3
Nursing 441B-E.....	2½		
	—		—
	6½		6

**SUMMARY OF THE 133 UNITS REQUIRED FOR THE DEGREE OF BACHELOR OF
SCIENCE AND THE CERTIFICATE OF COMPLETION**

	<i>Units</i>		<i>Units</i>
Entrance requirements	60	Second year	31½
First year	35½	Third year	6

**SUMMARY OF REQUIRED COURSES, 1956-1957, AND
TOTAL HOURS IN EACH SUBJECT**

Subjects	Pre-nursing Course	First Year			Second Year			Third Year	Total
		1	2	3	1	2	3	1	
Biological and Physical Sciences:									
Anatomy.....	78	...	...	...	...	...	...	..	78
Physiology.....	138	...	...	...	...	...	...	..	138
Bacteriology and Microbiology	123	...	...	...	...	...	...	..	123
Chemistry.....	123	...	...	...	...	...	...	..	123
Social Sciences:									
Psychology—general.....	48	...	...	...	...	...	...	..	48
—child.....	..	32	...	...	...	...	...	..	32
—educational.....	48	...	...	..	48
Social Welfare—Field of.....	48	...	..	48
Sociology—The City.....	48	...	..	48
History of Nursing.....	32	...	..	32
Professional Adjustments.....	16	...	..	16
Principles of Health Teaching..	16	...	..	16
Medical Sciences:									
Pathology.....	..	16	...	...	...	...	...	..	16
Pharmacology—Therapeutics..	..	32	16	...	...	...	...	..	48
Nursing and Allied Arts:									
Nursing Arts.....	..	140	...	...	...	...	...	..	140
Elementary Nutrition.....	..	78	...	...	...	...	...	..	78
Diet Therapy.....	78	...	...	...	..	78
Introduction to Medicine.....	32	...	...	...	...	..	32
Medical Nursing.....	32	...	...	...	48	80
Introduction to Psychiatry...	16	...	...	...	8	..	24
Psychiatric Nursing.....	32	..	32
Introduction to Communicable Diseases.....	32	...	...	..	32
Introduction to Surgery.....	40	...	...	...	...	..	40
Surgical Nursing.....	32	32	...	...	48	112
Introduction to Pediatrics....	32	...	...	...	...	..	32
Pediatric and Communicable Disease Nursing.....	32	32	...	...	..	64
Introduction to Obstetrics and Gynecology.....	48	...	...	...	...	..	48
Obstetrical Nursing.....	32	...	...	32	..	64
The Nurse in Public Health...	48	...	..	48
Community Nursing.....	32	..	32
Introduction to Health Administration.....	48	...	...	..	48
Totals.....	510	298	184	206	192	208	104	96	1798

GRADES OF SCHOLARSHIP; GRADE POINTS

In the University (except in the College of Dentistry and in the School of Medicine in San Francisco), the result of the student's work in each course (graduate and undergraduate, including courses in which credit is sought by examination) is reported to the Registrar in one of six scholarship grades, four of which are passing, as follows: A, excellent; B, good; C, fair; D, barely passing; E and F, not passing. Grades are not otherwise defined, as for example, by percentages, or by a rule stipulating the manner in which the several grades shall be distributed.

Grade E (not passed) indicates a record below passing, but one which may be raised to a passing grade without repetition of the course by passing a further examination or by performing other tasks required by the instructor. Grade F (not passed) denotes a record so poor that it may be raised to a passing grade only by repeating the course.

Grade points are assigned to the respective scholarship grades as follows: for each unit of credit, the scholarship grade A is assigned 3 points; B, 2 points; C, 1 point; D, E, and F, no points.

In order to qualify for the degree of Associate in Arts in the College of Letters and Science, or for the bachelor's degree in the College of Letters and Science, the College of Agriculture, the College of Architecture, the College of Chemistry, or in the School of Business Administration, the School of Forestry, the School of Nursing, the School of Optometry, the School of Pharmacy, or the School of Public Health, the student must have obtained at least as many grade points as there are units in the total credit value of all courses undertaken by him in the University of California.

PROBATION AND DISMISSAL

Probation. A student will be placed on probation:

(1) If at the close of her first semester her record shows a total deficiency of six or more grade points; or

(2) If at the close of any subsequent semester, her grade-point average is less than 1 (a C average), computed on the total of all courses undertaken in this University for which she has received a final report.

Dismissal. A student will be subject to dismissal from the University:

(1) If during any semester she fails to pass with a grade of C or higher courses totaling at least 4 units; or

(2) If while on probation her grade-point average for the work undertaken during any semester falls below 1 (a C average); or

(3) If after two semesters of probationary status she has not obtained a grade-point average of 1 (a C average), computed on the total of all courses undertaken in this University for which she has received a final report.

Students in the School of Nursing may, at the discretion of the faculty of the School of Nursing, be placed on probation or made subject to dismissal, not only under the above provisions, but also for deficiencies in other qualifications for their profession.

THE ASSOCIATED STUDENTS

In the interest of self-government and in order that students may feel that they are integral parts of the Medical Center community, every student is urged to become a member of the student body association. A membership card, the fee for which is \$15 for the period of three years payable at the beginning of the first clinical year, entitles a student to participate in all the social activities and meetings of the group.

The conduct of student affairs and activities is entrusted, to a large extent, to the Associated Students, which includes in its membership students in residence at the University Hospital. The officers of the association, elected by the student body, are a president, a vice-president, a secretary, and a treasurer. These, together with representatives from each class, form an executive committee which constitutes the governing body of the association. A member of the faculty acts as an adviser.

CALIFORNIA CLUB

In the fall of 1939 a chapter of the California Club was organized on the San Francisco campus. The aim of the club is to strengthen the common interests of all students of the eight campuses of the University. The students who enter the School of Nursing are eligible for appointment.

FLORENCE NIGHTINGALE AWARD FOR EXCELLENCE IN CLINICAL NURSING

In November, 1944, the Florence Nightingale Award for Excellence in Clinical Nursing was established. This award is granted to the student in the graduating class who, throughout her course, has exhibited the highest degree of excellence in the practice of nursing. Her performance is judged in the home, clinic, ward, or other agencies to which she might be assigned. She is judged on her ability to establish a friendly, helpful relationship with her patient, which, combined with technical skill, gives that patient the necessary support and reassurance.

DESCRIPTION OF COURSES FOR BASIC CURRICULUM IN NURSING

The credit value of each course in semester units is indicated for each semester by a number in parentheses following the title. The roman numeral I denotes the fall semester, numeral II denotes the spring semester. S.T. denotes the summer term.

PRENURSING COURSES—SPECIFIC REQUIREMENTS

(Offered at Berkeley)

See General Catalogue for Course Descriptions

BIOLOGICAL AND PHYSICAL SCIENCES

Anatomy 102. General Human Anatomy. (3) II.
Physiology 1. Introductory Physiology, Lectures. (3) I.
Physiology 1L. Introductory Physiology, Laboratory. (2) I.
Bacteriology 2. General Bacteriology. (4) II.
Chemistry 1A. General Chemistry. (5) I and II.

SOCIAL SCIENCES

Psychology 1A. General Psychology. (3) I and II.

ENGLISH AND SPEECH

English 1A-1B. First-Year Reading and Composition. (3-3) I and II.

or

Speech 1A-1B. Elements of Speech. (3-3) I and II.

SCHOOL OF NURSING COURSES

(Offered at San Francisco)

SOCIAL SCIENCES

Nursing 416A. Principles of Health Teaching. (1) I and II. Mrs. Hiller
Planned health instruction in nursing situations, based upon needs of selected groups.

Nursing 421. History of Nursing. (2) I. Miss Allen
The development of nursing in past centuries, with special reference to its relation to religion, science, and social institutions and attitudes; the qualifications and sphere of the nurse in relation to the needs of the times, the professional adjustments demanded by the career of nursing.

Nursing 423. Professional Adjustments. (1) I and II. Miss Harms
A study of the important current problems in nursing and nursing education; a survey of the various fields of nursing; a consideration of the responsibilities of the nurse of today.

Education 110. Introduction to Educational Psychology. (3) I and II.
Parallels Education 110, offered in Berkeley. Mr. Loret
Original nature and tendencies of man; the learning process; individual differences and their measurement.

Psychology 111. Child Psychology. (2) I and II. Mr. McKee
Parallels Psychology 111, offered in Berkeley.
Behavior of normal children; parental development; the period of infancy; mental, social, and personality development in childhood.



Students Relaxing in the Residence Lounge

Social Welfare 100. The Field of Social Welfare. (3) I and II.

Parallels Social Welfare 100, offered in Berkeley. Mrs. Oswald

A survey of the field of social welfare, and of social work functions; the rise of modern social work and the distinctive techniques of the social work profession.

Sociology 160. The City. (3) I and II.

Parallels Sociology 160, offered in Berkeley.

Social structure of the urban community. Comparative materials from earlier historical periods and from contemporary societies will be used. Emphasis is placed on the effects of urbanization upon various social institutions.

MEDICAL SCIENCES

Nursing 425. Pathology. (1) I and II.

Mrs. Irvine

A study of the common disease processes and pathological conditions.

Nursing 427A-427B. Pharmacology and Therapeutics. (2-1) I, II and S.T.

Miss Binhammer, Miss Laycook, Mrs. Adler

A study of the measurement of dosage, methods of administration of medicines; the use of drugs in relation to the various systems of the body. Dosage, effect, idiosyncrasies, symptoms, and treatment of overdose. The use of drugs in medical and surgical diseases, with particular emphasis on the relation to nursing care. Lectures and group assignments.

NURSING AND ALLIED ARTS

Nursing 435. Nursing Arts. (5) I.

Mrs. Gunnell, Miss Jordan, Mrs. Foreman, Miss McLaughlin

A study of the fundamentals of nursing related to the care of the patient, promotion of health, and prevention of disease.

Class and demonstration, 3 hours; laboratory, 6 hours; supervised ward practice, 6 hours weekly, 72 hours for semester.

Home Economics 111. Elementary Nutrition. (3) I and II.

(Offered in Berkeley and San Francisco.) Miss Morse, Mrs. Newton

Prerequisite: Chemistry 1A (or high school chemistry) and Physiology 1.

A brief study of food constituents, the nutritional value of the more important foods; the food needs of the normal individual.

Home Economics 104. Diet Therapy. (3) I and II and S.T.

Prerequisite: Home Economics 111. Miss Morse, Mrs. Newton

The planning and calculation of dietaries to meet the needs of pregnancy, lactation, growth, and certain diseases.

MEDICAL AND SURGICAL NURSING

Nursing 440A. Introduction to Medicine. (2) II.

Mr. Barbour, Miss Torrey

A study of the causes, symptoms, treatments, prevention, and control of medical and skin diseases, including tuberculosis and syphilis. Lectures, lantern slides, bedside clinics, and discussion of individual cases.

Nursing 440E-440F. Medical Nursing. (2-3) I and II and S.T.

Miss Binhammer, Miss Laycook, Miss Jordan, Miss Kim, Mrs. Hiller

Conferences and supervised practice in continuation of Nursing 440A, Home Economics 111 and 104.

Conferences, demonstrations, clinics, and care studies designed to familiarize the student with the nursing care employed in the prevention and treat-

ment of medical diseases, including venereal, skin, and nervous diseases. Supervised practice in the care of patients in the wards and clinics.

Conferences on principles of diet therapy as illustrated by patients in the hospital. Practice in planning, preparing, and serving of special diets, as in malnutrition, obesity, diabetes, nephritis, and nutritional disturbances.

Clinical assignment: medical floors and clinics.

Nursing 441A-441B. Introduction to Psychiatry. (1-½) I and II and S.T.
Mr. Prestwood

A study of the physiological, pathological, and psychological aspects of psychiatry.

Nursing 441E. Psychiatric Nursing. (2) I and II and S.T.

Miss Walkley, Mrs. Berthold

Guided practice in the nursing care and participation in the medical and social treatment of the more exaggerated deviations from positive mental health. Discussions, conferences, clinics, and practice on acute, convalescent, and children's wards and in special therapy departments.

Clinical assignment: psychiatric wards, Langley Porter Clinic.

Nursing 442A. Introduction to Surgery. (2½) II. Mr. Visalli, Mr. Lucas

A study of the causes, treatment, and prevention of the conditions requiring surgical intervention in the field of general surgery; orthopedics; eye, ear, nose, and throat; urology; neurology; and thoracic surgery.

Lectures, clinics, demonstrations, and study of individual patients.

Nursing 442D-442E-442F. Surgical Nursing. (3-2-2) I and II and S.T.

Miss Loveland, Miss Allen, Miss Hawkins, Miss McGregor, Mrs. Hiller

Conferences and supervised practice in continuation of Nursing 442A.

Bedside clinics, conferences, care studies, dealing with nursing of specific surgical patients. Conferences and demonstrations in operating-room technique. Supervised practice in care of various types of surgical patients.

Clinical assignment: general surgery and surgical specialty floors, surgical clinics, operating rooms.

Nursing 446. Introduction to Communicable Diseases. (2) I and II.

Mr. Hammond

A study of the causes, symptoms, treatment, and prevention of the communicable diseases. Special emphasis is placed on modes of transmission, general manifestations, complications, and convalescence in infectious diseases.

NURSING FOR CHILDREN

Nursing 444A. Introduction to Pediatrics. (2) II. Mr. Hammond

A study of the principles of child management, infant feeding, and methods of treatment and prevention of diseases in childhood.

Lectures and clinics.

Nursing 444E-444F. Pediatric and Communicable Disease Nursing. (2-2)
I and II and S.T.

Miss Smith, Miss Nutting, Miss McLaughlin, Mrs. Hiller

Conferences and supervised practice in continuation of Nursing 444A and 446.

A study of the normal child and of the preventive, remedial, and supportive aspects of the care of the child. Prepares the nurse for beginning competency as a member of the health team in meeting the physical, mental, social, and emotional needs of the child in health and disease.

Clinical assignment: nursery school, outpatient clinic, pediatric department, and communicable disease department.

OBSTETRICAL NURSING

Nursing 448A. Introduction to Obstetrics and Gynecology. (3) II and S.T.
Mr. Hill, Mr. Brown

A study of the basic reproductive physiology and fetal development, the course of normal pregnancy, labor and puerperium and the possible complications. A study of the causes, symptoms and treatment of the common gynecologic diseases.

Nursing 448E-448F. Obstetrical and Gynecological Nursing. (2-2) I and II and S.T.

Miss Evitts, Miss Zabrowski, Mrs. Foreman, Miss Kim, Mrs. Hiller

Conferences and supervised practice in continuation of Nursing 448A. Bed-side clinics, conferences, and care studies dealing with the nursing care of obstetrical and gynecological patients.

Clinical assignment: maternity floor, delivery room, rooming-in, prenatal and postpartum clinic, and gynecology floor.

COMMUNITY NURSING

Public Health 100A. Introduction to Health Administration. (3) I and II.
Parallels Public Health 100A offered in Berkeley. Mr. Stiles

Principles of public administration and fundamentals of organization and administration in public health.

Nursing 418. The Nurse in Public Health. (3) I and II. Mrs. Hiller
Parallels Nursing 418 offered in Berkeley.

A study of public health nursing functions and activities, with special emphasis upon the responsibilities of the public health nurse in family health services.

Nursing 418E. Community Nursing. (2) I and II and S.T.

Mrs. Hiller, Miss Hill

Under the supervision of the San Francisco Visiting Nurse Association or the San Francisco Department of Public Health, Bureau of Public Health Nursing, the student is introduced to the social and health problems of the community. This supplementary practice provides her with the opportunity to apply the basic principles and skills of nursing in actual situations in homes, schools, clinics, and health centers.

Conferences, demonstrations, field observation trips, care studies, and home and school visits.

Clinical assignment: San Francisco Visiting Nurse Association or San Francisco Health Department, Bureau of Public Health Nursing.

CURRICULA FOR GRADUATE NURSES

Berkeley Campus

THE BACHELOR OF SCIENCE DEGREE

THE COURSES comprising the curricula for graduate nurses are selected from offerings of the School of Nursing and other schools and colleges of the University at Berkeley. The undergraduate curricula lead to the Bachelor of Science degree and to the Certificate of Completion in either public health nursing or nursing education. The purpose is to prepare nurses for staff positions in public health nursing agencies or for clinical teaching and departmental supervision in schools of nursing.

Application

Application for admission to the bachelor's degree curricula should be made to the Director of Admissions, 127 Administration Building, University of California, Berkeley 4. The application, together with official transcripts from all schools attended, including nursing school, should be on file in that office preferably two months before the opening of the semester in which it is desired to enroll, and in no case later than August 15 for the fall semester or January 15 for the spring semester. Every applicant for admission to the University is required to pay an application fee of \$5 when the first application is filed.* Remittance should be made by draft or money order payable to The Regents of the University of California.

Requests for information or for consultation should be directed to the Dean of the School of Nursing, Room 210 Building T-8, University of California, Berkeley 4, California.

Requirements for Admission

Graduates of approved nursing schools who have met the matriculation requirements of the University may be admitted to the School of Nursing. They must have completed with at least a C grade average, a minimum of 60 units of academic work in an accredited university or college, in courses selected in accordance with one of two possible plans. Normally, if the work is taken on the Berkeley campus of the University of California, it must include fulfillment of the requirements for the Associate in Arts degree in the College of Letters and Science (Plan I). If the work is taken on another campus of this University, or at an institution other than the University of California, it must include fulfillment of requirements for the Associate in Arts degree of either the College of Letters and Science, Berkeley (Plan I) or of the College of Applied Arts, University of California, Los Angeles (Plan II).

Nurses are urged to write or come to the office of the School of Nursing, Room 210 Building T-8, for guidance in meeting admission requirements, after application has been made to the Director of Admissions and a statement of entrance status has been received from that office.

* This applies to veterans who expect to enroll under the provisions of Public Law 550 and to nonveterans. Veterans under Public Law 346 or Public Law 16 are not required to remit this fee with their applications.

Alternative Lower Division Programs Preparatory to Admission to Graduate Nurse Curricula, School of Nursing

Plan I—LETTERS AND SCIENCE

(For a more detailed statement of course requirements see lower division requirements of College of Letters and Science, in CIRCULAR OF INFORMATION, BERKELEY.)

- (a) Subject A
- (b) Foreign Language—16 units (less acceptable high school credits)
- (c) Mathematics—Elementary algebra and plane geometry
- (d) Natural Science—12 units including a laboratory course (less high school credits in physics and/or chemistry)
- (e) THREE Year Courses. (A year course is a sequence of 5 or 6 units)
 - * (1) English 1A-1B or Speech 1A-1B
 - (2) Foreign Language, in addition to (b) above
 - (3) Mathematics
 - (4) Social Sciences
 - * (includes Psychology)
 - (5) Philosophy
 - (6) Fine Arts

Plan II—APPLIED ARTS

(For a more detailed statement of course requirements see lower division requirements of College of Applied Arts, in CIRCULAR OF INFORMATION, LOS ANGELES. Only certain students transferring from other collegiate institutions may elect this plan.)

- (a) Subject A
- (b) Natural Science—12 units, all in college courses and including a laboratory course
- (c) Mathematics—Elementary algebra and plane geometry
- (d) THREE Year Courses. (A year course is a sequence of 5 or 6 units)
 - * (1) English 1A-1B or Speech 1A-1B
 - (2) Foreign Language—2 college semesters of same language
 - (3) Mathematics
 - (4) Social Sciences (does not include Psychology)
 - Sociology and Social Institutions 1-2
 - History 4A-4B; 8A-8B; 17A-17B
 - (5) Psychology
 - * Psychology 1A (and 1B or 33)
 - (6) Philosophy 6A-6B; 12A-12B; 20A-20B
 - (7) Music, Art (sequence)
 - Art 1A, B, C, D (any two); 2A-2B
 - Music 1A-1B; 3A-3B; 21A-21B; 27A-27B

Required of all candidates for a bachelor's degree:

AMERICAN HISTORY AND AMERICAN INSTITUTIONS (See CIRCULAR OF INFORMATION, BERKELEY)

One course in each of the following groups:

- (a) American History; (b) American Institutions

* Under either plan, English 1A-1B (or Speech 1A-1B) and Psychology 1A are required for entrance to the School of Nursing.

Undergraduate Program in the School of Nursing

The student is required to complete such academic work as may be prescribed by the faculty of this School. The total number of units in lower and upper division courses offered for the Bachelor of Science degree must be at least 120. Nurses who qualify for admission to the School of Nursing are granted a variable number of units of upper division credit for courses taken during their basic nursing preparation, dependent upon the program in the school in which the work was taken. The maximum amount of credit granted for such work is 30 units. Normally, before admission to the School of Nursing the student will have earned 60 units of acceptable lower division credit plus the upper division credit granted for basic nursing courses, and will be required to take a sufficient number of upper division courses to bring the total number of acceptable units to 120.

A minimum of 24 units of credit must be earned at the University of California, Berkeley, while enrolled in this School of Nursing. This minimum program of final work for the degree must not be interrupted by attendance at another institution.

Students who already have a bachelor's degree from another institution are required to fulfill degree requirements in the University of California School of Nursing, including the minimum of 24 units earned in attendance here, before they may be accepted for enrollment in a field course.

A grade average of at least C in all courses undertaken is required.

JUNIOR YEAR

Requirements for this year can be met wholly or in part through courses taken in another school of nursing as stated above. Students receiving less than 30 units of credit for such work will complete requirements for the junior year by electing courses which supplement their basic nursing preparation. See later pages of this bulletin for suggested courses.

SENIOR YEAR

General Requirements

Education, including Education 110).... 5 units
 Social Welfare, Sociology, or Economics
 (including Social Welfare 100).....5 units

Major in Nursing Education		Major in Public Health Nursing	
	<i>Units</i>		<i>Units</i>
General requirements	10	General requirements	10
Nursing 432	2	Public Health 145	3
Nursing 434	3	Public Health 100A	3
Electives	15	*Education 151	2
	—	Nursing 418-419	6
	30	Nursing 416	3
In lieu of electives, students specializing in psychiatric nursing include:		Electives	3
Psychology (including 111, 136, 168)	8		—
Anthropology 118A	3		30
Sociology and Social Institutions 130	3		

* May be counted as satisfying 2 units of general requirement in Education.

Certificates in Public Health Nursing and Nursing Education

Graduate nurses who have completed the requirements for the Bachelor of Science degree in attendance at the University of California School of Nursing, including all courses prerequisite to the field course, may qualify for the Certificate of Completion in public health nursing or in nursing education upon satisfactory completion of four months of supervised field experience in public health nursing (Nursing 420) or nursing education (Nursing 433).

Field experience in public health nursing is provided through affiliations with a number of local health agencies.

Exceptional opportunities for field experience in nursing education are offered through the clinical resources of the University of California Medical Center in San Francisco.

Psychiatric Nursing

In cooperation with the United States Public Health Service and the Langley Porter Clinic, a program in psychiatric nursing has been established under the provisions of the National Mental Health Act. To be admitted to the program, the student must have fulfilled the general requirements for admission to the School of Nursing. It is recommended that, as additional preparation, Psychology 33 (3 units) and Sociology and Social Institutions 1 and 2 (6 units) be included in the lower division program. Psychiatric nursing experience is advantageous.

The program is three semesters (12 months) in length. During the first two semesters the student is enrolled on the Berkeley campus to complete requirements for the Bachelor of Science degree, including the courses for the major in nursing education with specialization in psychiatric nursing. One semester of field experience at the Langley Porter Clinic in San Francisco completes the program.

Stipends partially covering the expenses of the psychiatric nursing program are available to students who are not simultaneously receiving a Public Health Service stipend or any other educational benefit directly from the federal government. Stipends will not be approved unless the student is ready and willing to complete the entire three semesters of the curriculum.

THE MASTER OF SCIENCE DEGREE

The program of study leading to the Master of Science degree offers fields of emphasis in nursing education, nursing administration, psychiatric nursing, and public health nursing. The aim of this program is to prepare graduate nurses for administrative, supervisory, and teaching positions in schools of nursing and public health agencies.

Application

Two applications are required, one addressed to the Dean of the Graduate Division, 102 Administration Building, University of California, Berkeley 4, and one addressed to the Dean of the School of Nursing, Room 210 Building T-8, University of California, Berkeley 4. Forms may be obtained by writing to these offices. The application to the Graduate Division, together with full official transcripts of all previous academic work and a money order or bank draft for \$5 payable to The Regents of the University of California, should be filed several months in advance of the planned date of enrollment, and must be filed no later than July 15 for the fall semester or December 15 for the spring semester.

An official transcript of the applicant's record in the school in which the basic nursing preparation was received should be sent by that school to the University of California School of Nursing, Berkeley, at the time application is filed, unless such transcript has been submitted previously.

Requirements for Admission

The student must qualify for admission to the Graduate Division, Northern Section, of the University of California. She must have completed at least 36 units of acceptable upper division courses numbered in the 100 series, including at least 15 units of work basic to the proposed field of emphasis. She is expected to have maintained a grade average of B in upper division courses. She must be certified by the Dean of the School of Nursing as eligible for admission to the program leading to the degree. She should have had at least two years of successful experience in clinical nursing practice, in clinical instruction, or in a community health agency.

Program for the Master of Science Degree

After admission to the program, the candidate will follow Plan I or Plan II as outlined by the Graduate Division, Northern Section.

Under Plan I, the student must present 20 units and, in addition, a thesis. The courses must be graduate courses or upper division undergraduate courses. At least 8 of the 20 units must be in graduate courses in nursing; no unit credit is allowed for the thesis. It is expected that the work of the graduate courses, together with the thesis, will ordinarily amount to not less than half of the entire work presented for the degree. Provided the foregoing general and special requirements be met, the work may be distributed among any courses in the 100 or 200 series. The student is subject to guidance by the graduate adviser in the School of Nursing with regard to the distribution of her work.

Under Plan II, 24 units of upper division and graduate courses are required. At least 12 units must be in graduate courses in nursing. The student is subject to guidance by the graduate adviser in the School of Nursing with regard to the distribution of her work. A comprehensive final examination is required of every candidate.

Students should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION, for study-list limits.

DESCRIPTION OF COURSES

CURRICULA FOR GRADUATE NURSES

The credit value of each course in semester units is indicated for each semester by a number in parentheses following the title. The roman numeral I denotes the fall semester, numeral II denotes the spring semester. S.T. denotes the summer term.

Undergraduate Courses in Nursing

- 416. Health Teaching. (3) I and II.** Miss MacOwan
Planned health instruction in nursing situations based upon individual, family, and community needs; methods and materials of instruction; appraisal and evaluation. Students are given an opportunity to develop units of instruction in the field of their major interest.
- 418. The Nurse in Public Health. (3) I and II.** Mrs. Curtis
A study of public health nursing functions and activities, with special emphasis on the responsibilities of the public health nurse in family services.
- 419. The Field of Public Health Nursing. (3) I and II.** Miss MacOwan
Prerequisite: Nursing 418.
Consideration of the essentials of a good public health nursing service and the responsibilities of the public health nurse to the public health agency and its program.
- 432. Principles of Nursing Education. (2) I.** Mrs. Bailey
Objectives in nursing education; principles and procedure in curriculum construction and administration, coordination of didactic instruction and nursing practice.
- 434. Principles of Ward Management and Teaching. (3) II.** Mrs. Bailey
The problems of construction, organization, personnel, and operation of a hospital unit, ward, or clinic. The application of the principles and methods of teaching to the various clinical services.
Prerequisite: Education 110, Nursing 432, or consent of the instructor.
- 420. Field Work in Public Health Nursing. (12) I and II.** Mrs. Curtis, Miss Hill
Prerequisite: completion of requirements for the B.S. degree with a major in public health nursing at the University of California, Berkeley.
Instruction and supervised practice in public health nursing in selected agencies. Approximately forty hours a week continuous field experience.
Experience is arranged in cooperation with the health agencies of the San Francisco Bay region and selected rural and urban communities. Application to pursue this course must be made at least two months before work is to begin.
Required of all candidates for the Certificate of Completion in public health nursing.
- 410. Field Work in Public Health Nursing. (6-9) I and II.** Miss Hill, Mrs. Curtis
Prerequisite: completion of requirements for the B.S. degree with a major in public health nursing at the University of California, Berkeley, and previous experience in a public health agency.
Instruction and supervised practice in public health nursing in selected agencies. Approximately forty hours a week for two to three months. (See Nursing 420.) This course does not satisfy requirements for the Certificate of Completion in public health nursing.

433. Field Work in Nursing Education. (12) I and II and S.T.

Mrs. Bailey and the Staff

Prerequisite: completion of requirements for the B.S. degree with a major in nursing education at the University of California, Berkeley.

Instruction and practice in nursing education techniques at the University of California Medical Center. Approximately forty hours a week continuous field experience.

Head nurse experience is offered only in the semester that basic courses are given for that service.

Required of all candidates for the Certificate of Completion in nursing education.

443. Field Work in Nursing Education. (12) I and II. Miss Kalkman

Prerequisite: completion of requirements for the B.S. degree with a major in nursing education at the University of California, Berkeley, and Nursing 433.

Instruction and supervised practice in psychiatric nursing techniques at Langley Porter Clinic. Approximately forty hours a week continuous field experience.

Continuation of Nursing 433 for students specializing in advanced psychiatric nursing under the National Mental Health Act.

Graduate Courses in Nursing*

Specific prerequisites: (Academic) 5 units of education courses including Education 110, and 5 units of upper division social science courses including Social Welfare 100; (Professional) 5 or 6 units of appropriate nursing courses chosen, in consultation with adviser, from courses 416, 418, 419, 432, and 434.

200. Problems of Administration in Nursing. Seminar. (2) I. Mrs. Bailey

Basic material of study will be school surveys, national surveys and contributions to education in the field of administration.

201. Surveys in Nursing. (3) II.

Miss Harms

Lectures and laboratory.

Training in practical application of principles and techniques developed in school surveys, including additional field work equivalent to two hours per week.

202. Principles and Techniques of Supervision in Nursing. Seminar. (2) I and II.

Miss MacOwan

A consideration of the principles and techniques of supervision appropriate for a modern program of education.

203. Nursing Staff Personnel Problems. (3) I and II. Mrs. Ingmire

A course designed for administrators and teachers in leadership positions and for those concerned with teacher welfare.

204. Curriculum Development in Nursing. (3) I and II. Miss MacOwan

Problems of curriculum construction as they relate to the selection and organization of material into units of instruction.

* Any graduate course may not be given if fewer than four students enroll.

- 205. Problems in Curriculum Development.** (2) I and II. Miss MacOwan, ——
Prerequisite: course 204.
Designed especially for administrators, supervisors, and teachers who have problems in curriculum development.
- 206. Curriculum and Teaching Problems in Nursing. Practicum.** (4-6) I and II. Mrs. Bailey, Miss MacOwan, Miss Kalkman
Prerequisite: course 204.
An opportunity for qualified students to work on practical curriculum and teaching problems under guidance.
- 207. Historical Foundations of Nursing.** (3) I and II. Mrs. Ingmire
An evaluation of cultural, religious, secular, military, and educational influences upon nursing. Emphasis on international relationships.
- 208. Counseling.** (3) I and II. Mrs. Ingmire
A comprehensive analysis of the problems and programs of counseling in nursing.

Suggested Courses in Departments Other Than Nursing

(See ANNOUNCEMENT OF COURSES, DEPARTMENTS AT BERKELEY, for course descriptions.)

EDUCATION

101. **The History of Education—General Course.** (3) I and II.
110. **Introduction to Educational Psychology.** (3) I and II.
111. **Growth and Development of Children.** (2) I and II.
114. **Statistical Methods in Education.** (2) I.
116. **The Exceptional Child.** (2) I.
119. **Standard Tests in Education.** (3) II.
151. **Administration of the School Health Program.** (2) I and II.
164. **Introduction to Student Personnel Work.** (2) I and II.
181. **Adult Education.** (3) I and II.

HOME ECONOMICS

111. **Nutrition.** (3) I.

PSYCHOLOGY

111. **Child Psychology.** (2) I.
113N. **Adolescence.** (2) II.
136. **Psychology of the Unconscious.** (3) II.
160. **Mental Deficiency.** (3) I.
168. **Abnormal Psychology.** (3) II.

PUBLIC HEALTH

- 100A. **Introduction to Health Administration.** (3) I and II.
125. **Child Health.** (3) I.
145. **Community Control of the Communicable Diseases.** (3) I and II.
186. **Social, Medical and Public Health Aspects of Venereal Disease Control.** (2) I and II.
189. **Nutrition Problems in Public Health.** (1) I and II.

SOCIAL SCIENCES GROUP

Anthropology 118A. The Nature of Culture. (3) I.

Social Welfare 100. The Field of Social Welfare. (3) I and II.

Sociology and Social Institutions 110. Inter-Ethnic Contacts. (3) I.

Sociology and Social Institutions 115. Major Social Problems. (3) II.

Sociology and Social Institutions 130. Sociology of the Family. (3) I.

Sociology and Social Institutions 160. The City. (3) I.

GENERAL INFORMATION FOR GRADUATE NURSES

EXPENSES OF STUDENTS

WHILE the student is in residence at the University of California in Berkeley she will be required to meet all the expenses as outlined in the CIRCULAR OF INFORMATION and the ANNOUNCEMENT OF COURSES. These bulletins may be obtained upon application to the Registrar. (A charge of 26 cents is made for the ANNOUNCEMENT OF COURSES.) An incidental fee of \$42 a semester is paid by all students. Out-of-state students must pay the nonresident tuition fee of \$150 a semester. Advice and information about all types of living accommodation may be obtained from the Housing Office, Building Q, University of California, Berkeley 4, California.

Students who take the field course in the University of California Hospital receive board and laundry, but provide their own rooms. Students taking the field course at Langley Porter Clinic provide their own rooms and board.

LOANS AND SCHOLARSHIPS

All students enrolled or planning to enroll on the Berkeley campus may obtain information concerning loans and scholarships from the Committee on Undergraduate Scholarships, 201 Administration Building, University of California, Berkeley 4.

Assistance from the following sources is restricted to qualified graduate nurses.

Alameda County Nurses' Association

Loan Fund and Scholarships

The Alameda County Nurses' Association provides a loan fund for members of at least one year's standing in the Association or for graduates (within a year) of a school of nursing in Alameda County who have applied for membership. Applicants must be enrolled in the University of California and must meet the regular University requirements as to residence and scholarship. Applications for loans may be made at any time at the Office of the Dean of Students, Berkeley.

Scholarships or fellowships may be awarded members of this Association attending the University of California or any other educational institution of collegiate grade. They also may be awarded for the purpose of travel and research. Application forms and additional information may be obtained from the office of the Committee on Undergraduate Scholarships, University of California, Berkeley 4.

Scholarship for Graduates of San Francisco Nursing Schools

The Minnie Fecheimer Memorial Fund Scholarship was established at the University of California in 1940. Graduates from any nursing school in the city and county of San Francisco are eligible for this scholarship. The sum available, \$250 a year, will be awarded to a graduate nurse pursuing post-graduate nursing studies at the University. The trustees who established this memorial have suggested that "scholarship shall not be the only qualification in the choice of beneficiary, but due weight shall be given to character, human qualities, and economic needs."

For further information eligible nurses may write to the Chairman of the Committee on Undergraduate Scholarships, 201 Administration Building, University of California, Berkeley 4, California.

VETERANS AFFAIRS

The Office of the Dean of Students maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits; and assists veterans in becoming assimilated into the life and spirit of the University. On the San Francisco campus, this office is located in Room 52A University Hospital. Offices of the United States Veterans Administration are located as follows:

Regional Office, 49 Fourth Street, San Francisco 3

Regional Office, 1380 South Sepulveda Boulevard, Los Angeles 25

Regional Office, 325 B Street, San Diego 1

Veterans wishing to enroll under the provisions of Public Law 550 (Korean G.I. Bill) should obtain from the United States Veterans Administration a Certificate for Education and Training which should be filed in the Office of the Dean of Students upon completion of registration. These veterans must be prepared to pay all fees and educational costs at the time of registration, as education and training allowances are paid to the veteran by the Veterans Administration. The first monthly payment will normally be received 60 to 75 days after compliance with the above.

Information regarding educational benefits available from the State of California (CVEI) may be obtained from the State Department of Veterans Affairs located at 711 N Street, Sacramento, California; or by writing either to 357 South Hill Street, Los Angeles, California; or to 515 Van Ness Avenue, San Francisco, California.



Bulletin

Announcement of the

School of Pharmacy

Fall and Spring Semesters, 1956–1957

JUNE 15, 1956

UNIVERSITY OF CALIFORNIA
MEDICAL CENTER
SAN FRANCISCO



UNIVERSITY OF CALIFORNIA

BULLETIN

PUBLISHED AT BERKELEY, CALIFORNIA

Volume L

June 15, 1956

Number 33

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All announcements herein are subject to revision. Changes in the list of Officers of Administration and Instruction may be made subsequent to the date of publication, June 15, 1956.

Announcement of the

**School of
Pharmacy**

**Fall and Spring Semesters
1956–1957**

JUNE 15, 1956

**UNIVERSITY OF CALIFORNIA MEDICAL CENTER
SAN FRANCISCO**

GENERAL INFORMATION

Requests for information concerning admission to the University and to the curricula in the School of Pharmacy should be addressed to the Office of Admission, Room 62A University of California Hospital, University of California Medical Center, San Francisco 22, California.

Requests for information concerning other matters pertaining to the School of Pharmacy should be addressed to the Dean of the School of Pharmacy, University of California Medical Center, San Francisco 22, California.

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CALENDAR, 1956-1957

FALL SEMESTER, 1956-1957

Sept. 10, Monday	Fall semester begins.
Sept. 11, Tuesday	} Registration.
Sept. 12, Wednesday	
Sept. 13, Thursday	
Sept. 17, Monday	Instruction begins.
*Nov. 22, Thursday	} Thanksgiving holiday.
*Nov. 23, Friday	
Nov. 22, Thursday, to Nov. 24, Saturday	} Fall recess.
Dec. 19, Wednesday, to Jan. 1, Tuesday	} Christmas recess.
*Dec. 24, Monday	} Christmas holiday.
*Dec. 25, Tuesday	
*Dec. 31, Monday	} New Year's holiday.
*Jan. 1, Tuesday	
Jan. 2, Wednesday	Instruction resumes.
Jan. 12, Saturday	Instruction ends.
Jan. 14, Monday, to Jan. 23, Wednesday	} Final examinations.
Jan. 24, Thursday	Fall semester ends.

SPRING SEMESTER, 1957

Jan. 28, Monday	Spring semester begins.
Jan. 29, Tuesday	} Registration.
Jan. 30, Wednesday	
Jan. 31, Thursday	
Feb. 4, Monday	Instruction begins.
*Feb. 22, Friday	Washington's Birthday.
Apr. 18, Thursday, to Apr. 20, Saturday	} Spring recess.
May 22, Wednesday	Instruction ends.
May 24, Friday, to June 4, Tuesday	} Final examinations.
*May 30, Thursday	Memorial Day.
June 5, Wednesday	Spring semester ends.

* Academic and administrative holiday.

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

- His Excellency, **GOODWIN J. KNIGHT, A.B.**
Governor of California and President
of the Regents
State Capitol, Sacramento 14
- HAROLD J. POWERS**
Lieutenant-Governor of California
State Capitol, Sacramento 14
- LUTHER H. LINCOLN**
Speaker of the Assembly
4000 Redwood rd, Oakland 19
- ROY E. SIMPSON, M.A., Litt.D.**
State Superintendent of Public
Instruction
721 Capitol av, Sacramento 14
- ARTHUR J. MCFADDEN, B.S., LL.B.**
President of the State Board of
Agriculture
902 River lane, Santa Ana
- WILLIAM G. MERCHANT**
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4
- EDWIN L. HARBACH**
President of the Alumni Association of
the University of California
609 S Grand av, Los Angeles 17
- ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.**
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

- EDWIN W. PAULEY, B.S. (1972)**
717 N Highland av, Los Angeles 38
- BRODIE E. AHLPORT, A.B. (1972)**
5657 Wilshire blvd, Los Angeles 36
- EDWARD H. HELLER, A.B. (1958)**
100 Montgomery st, San Francisco 4
- VICTOR R. HANSEN, LL.B. (1962)**
Superior Court, Courthouse,
Los Angeles 12
- EARL J. FENSTON, A.B. (1964)**
504 Helm bldg, Fresno 1
- CORNELIUS J. HAGGERTY (1966)**
995 Market st, Room 810,
San Francisco 8
- JESSE H. STEINHART, A.B., LL.B. (1962)**
111 Sutter st, San Francisco 4
- DONALD H. MOLAUGHLIN, B.S., M.A.,
Ph.D., D.Eng. (1966)**
100 Bush st, San Francisco 4
- GUS OLSON, B.S. (1960)**
Clarksburg
- GERALD H. HAGAR, A.B., J.D. (1964)**
First Western Bank bldg,
14th and Broadway, Oakland 12
- HOWARD C. NAFFZIGER, B.S., M.S., M.D.
(1968)**
University of California Medical Center,
San Francisco 22
- EDWARD W. CARTER, M.B.A. (1968)**
401 S Broadway, Los Angeles 13
- Mrs. DOROTHY B. CHANDLER (1970)**
202 W First st, Los Angeles 53
- THOMAS M. STORKE, A.B. (1960)**
Santa Barbara News-Press,
De La Guerra plaza, Santa Barbara
- Mrs. CATHERINE HEARST (1958)**
2855 Ralston av, Hillsborough
- SAMUEL B. MOSHER, B.S. (1972)**
811 W Seventh st, Los Angeles 17

OFFICERS OF THE REGENTS

- His Excellency, **Goodwin J. Knight, A.B.**
Governor of California
President
State Capitol, Sacramento 14
- Edwin W. Pauley, B.S., Chairman**
717 N Highland av, Los Angeles 38
- Robert M. Underhill, B.S.**
Secretary and Treasurer
240 Administration bldg, Berkeley 4
- James H. Corley, B.S., Vice-President—
Business Affairs**
250 Administration bldg, Berkeley 4
- Raymond W. Kettler, M.A., Controller**
401 Administration bldg, Berkeley 4
- George E. Stevens, Assistant Controller**
401 Administration bldg, Berkeley 4
- Thomas J. Cunningham, A.B., LL.B.**
General Counsel of the Regents
128 Administration bldg, Berkeley 4
- Ashley H. Conard, B.L., J.D.**
Associate Counsel of the Regents and
Attorney in Residence Matters
128 Administration bldg, Berkeley 4
- John E. Landon, A.B., LL.B.**
Associate Counsel of the Regents
128 Administration bldg, Berkeley 4
- John P. Sparrow, A.B., LL.B.**
Associate Counsel of the Regents
128 Administration bldg, Berkeley 4
- R. Bruce Hoffe, A.B., LL.B.**
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4
- Robert A. Mackey, A.B., LL.B.**
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4
- Mark Owens, Jr., A.B., LL.B.**
Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4
- George D. Mallory, A.B., Assistant
Treasurer and Assistant Secretary**
240 Administration bldg, Berkeley 4
- Miss Marjorie J. Woolman**
Assistant Secretary
240 Administration bldg, Berkeley 4

UNIVERSITY OF CALIFORNIA

GENERAL ADMINISTRATIVE OFFICERS

Robert Gordon Sproul, B.S., LL.D., Litt.D., *President of the University.*
Clark Kerr, Ph.D., LL.D., *Chancellor at Berkeley.*
Raymond B. Allen, M.D., Ph.D., LL.D., D.Sc., *Chancellor at Los Angeles.*
Harry R. Wellman, Ph.D., *Vice-President—Agricultural Sciences.*
James H. Corley, B.S., *Vice-President—Business Affairs.*
Richard J. Stull, A.B., *Vice-President—Medical and Health Sciences.*
Baldwin M. Woods, Ph.D., *Vice-President—University Extension.*
Claude B. Hutchison, M.S., LL.D., D.Agr. (hon.c.), *Vice-President of the University and Dean of the College of Agriculture, Emeritus.*
Robert M. Underhill, B.S., *Secretary and Treasurer of the Regents.*
Herman A. Spindt, Ph.D., *Director of Admissions.*
———, *Director of Relations with Schools.*

GENERAL ADMINISTRATIVE OFFICERS—SAN FRANCISCO

MEDICAL CENTER

Morris A. Stewart, Ph.D., *Acting Dean of the Graduate Division, Northern Section.*
———, *Administrator, University of California Hospitals.*
M. Helen Chryst, *Recorder.*
Herbert G. Johnstone, Ph.D., *Dean of Students.*
Carmenina Tomassini, A.B., B.S., *Administrative Librarian.*
Stanley C. Bateman, *Business Manager.*
William W. Robertson, B.S., *Accounting Officer.*
Elenore J. Erickson, M.D., *Student Health Service.*
Edith H. Wadleigh (*Representing Director of Admissions at the Medical Center*).

SCHOOL OF PHARMACY

OFFICERS OF ADMINISTRATION AND INSTRUCTION

Administration

Troy C. Daniels, Ph.D., *Dean of the School of Pharmacy, and Professor of Pharmaceutical Chemistry.*
John J. Eiler, Ph.D., *Assistant Dean of the School of Pharmacy and Professor of Pharmacy and Biochemistry.*
Juanita S. Emerson, *Administrative Assistant.*

Instruction

Hamilton H. Anderson, A.B., M.S., M.D., *Professor of Pharmacology and Toxicology.*
Eric C. Bellquist, Ph.D., *Professor of Political Science and Lecturer in American Institutions.*
Donald C. Brodie, Ph.D., *Professor of Pharmacy.*
Frank M. Goyan, Ph.D., *Professor of Chemistry.*

- Ernest Jawetz, M.S., Ph.D., M.D., *Professor of Microbiology.*
Herbert G. Johnstone, A.B., M.A., Ph.D., *Professor of Parasitology.*
Warren D. Kumler, Ph.D., *Professor of Chemistry and Pharmaceutical Chemistry.*
Max S. Marshall, Ph.D., *Professor of Microbiology.*
John F. Oneto, Ph.D., *Professor of Pharmaceutical Chemistry and Pharmacy.*
Robertson Pratt, Ph.D., *Professor of Pharmacognosy and Antibiotics.*
Louis A. Strait, Ph.D., *Professor of Biophysics.*
Warren L. Bostick, A.B., M.D., *Associate Professor of Pathology.*
Einar Brochmann-Hanssen, Ph.D., *Associate Professor of Pharmaceutical Chemistry and Pharmacy.*
Nathan Cooper, B.S., *Associate Professor of Military Science and Tactics.*
Stephen J. Dean, Jr., Ph.G., Ph.C., B.S., *Associate Professor of Pharmacy and Manufacturing Pharmacist.*
Charles H. Hine, M.D., Ph.D., *Associate Clinical Professor of Pharmacology and Toxicology.*
Benjamin Libet, Ph.D., *Associate Professor of Physiology.*
Stuart Lindsay, A.B., M.D., *Associate Professor of Pathology.*
Henry D. Moon, A.B., M.A., M.D., *Associate Professor of Pathology.*
Isabella H. Perry, M.D., *Associate Professor of Pathology.*
Kenneth G. Scott, Ph.D., *Associate Professor of Experimental Radiology, Director of the Radioactivity Research Center.*
William W. Stiles, M.D., *Associate Professor of Public Health.*
E. Leong Way, Ph.D., *Associate Professor of Pharmacology and Toxicology.*
William F. Ganong, M.D., *Assistant Professor of Physiology.*
Janet B. Gunnison, A.B., M.A., *Associate Professor of Microbiology.*
Eugene C. Jorgensen, Ph.D., *Assistant Professor of Chemistry and Pharmaceutical Chemistry.*
Kwan Hua Lee, Ph.D., *Assistant Professor of Pharmaceutical Chemistry.*
Frederick H. Meyers, A.B., M.D., *Assistant Professor of Pharmacology and Toxicology.*
Eino Nelson, Ph.D., *Assistant Professor of Pharmacy.*
Chin-tzu Peng, B.S., Ph.D., *Assistant Professor of Chemistry and Assistant Research Radiochemist.*
Sidney Riegelman, Ph.D., *Assistant Professor of Pharmacy.*
Thomas W. Schwarz, Ph.D., *Assistant Professor of Pharmacy.*
Reinhard S. Speck, M.D., *Assistant Professor of Microbiology.*
Wilfred E. Toreson, M.D., Ph.D., *Assistant Professor of Pathology.*
L. Dallas Tuck, Ph.D., *Assistant Professor of Chemistry.*
H. H. Weisengreen, D.D.S., *Assistant Professor of Anatomy.*
Jerome M. Yalon, B.S., *Assistant Clinical Professor of Hospital Pharmacy, Assistant Administrator, University Hospital.*
Russell Coleman, B.S., D.D.S., *Assistant Professor of Anatomy.*
Stanley R. Marincik, B.S., *Clinical Instructor in Hospital Pharmacy, Chief Pharmacist, University Hospital.*
John E. Preston, B.S., *Instructor in Pharmacy.*
Margit Sainio, M.D., *Instructor in Anatomy.*
Allen B. Barbour, A.B., M.D., *Lecturer in Orientation in Medicine.*
David D. Kendrick, B.S., M.A., *Lecturer in Economics and Pharmacy Administration.*

David B. Nemer, A.B., M.B.A., LL.B., *Lecturer in Accounting and Laws of Pharmacy.*

Helen Gray Burke, A.B., *Lecturer in American History.*



Howard Fifer, B.S., *Senior Pharmacist, Pharmaceutical Manufacturing Laboratory.*

William Green, *Associate in Pharmacy.*

Ralph Sweet, *Principal Medical Illustrator.*

UNIVERSITY OF CALIFORNIA

SCHOOL OF PHARMACY

HISTORY

THE CALIFORNIA COLLEGE OF PHARMACY was organized on July 10, 1872, through the work and vision of the members of the California Pharmaceutical Society, and was incorporated on August 7 of that year. This group of far-seeing men brought into being the first law governing the practice of pharmacy in California, and the Board of Pharmacy. On June 2, 1873, the College became affiliated with the University of California, maintaining, however, its own Board of Trustees and business management. This relationship continued until July 1, 1934, when the California College of Pharmacy became an integral part of the University of California. In 1955 the University adopted a program leading to the professional degree Doctor of Pharmacy. Two years of University work was made a requirement for admission to this program, and accordingly the College of Pharmacy was changed to the *School of Pharmacy*.

PURPOSE

The School of Pharmacy has for its objective the training of men and women of ability, integrity, and character to select, identify, prepare, manufacture, and dispense the various agents known as pharmacological remedies; to spread information on the uses and value of scientific medicine; to win, and deservedly to keep, public confidence and respect for their profession; to aid the state and federal governments in the control of habit-forming drugs and the enforcement of all laws for public welfare; to encourage original work and study on the part of qualified persons who will make unselfish use of their services in the interests of medical science; and to assist public health agencies in the prevention and control of disease.

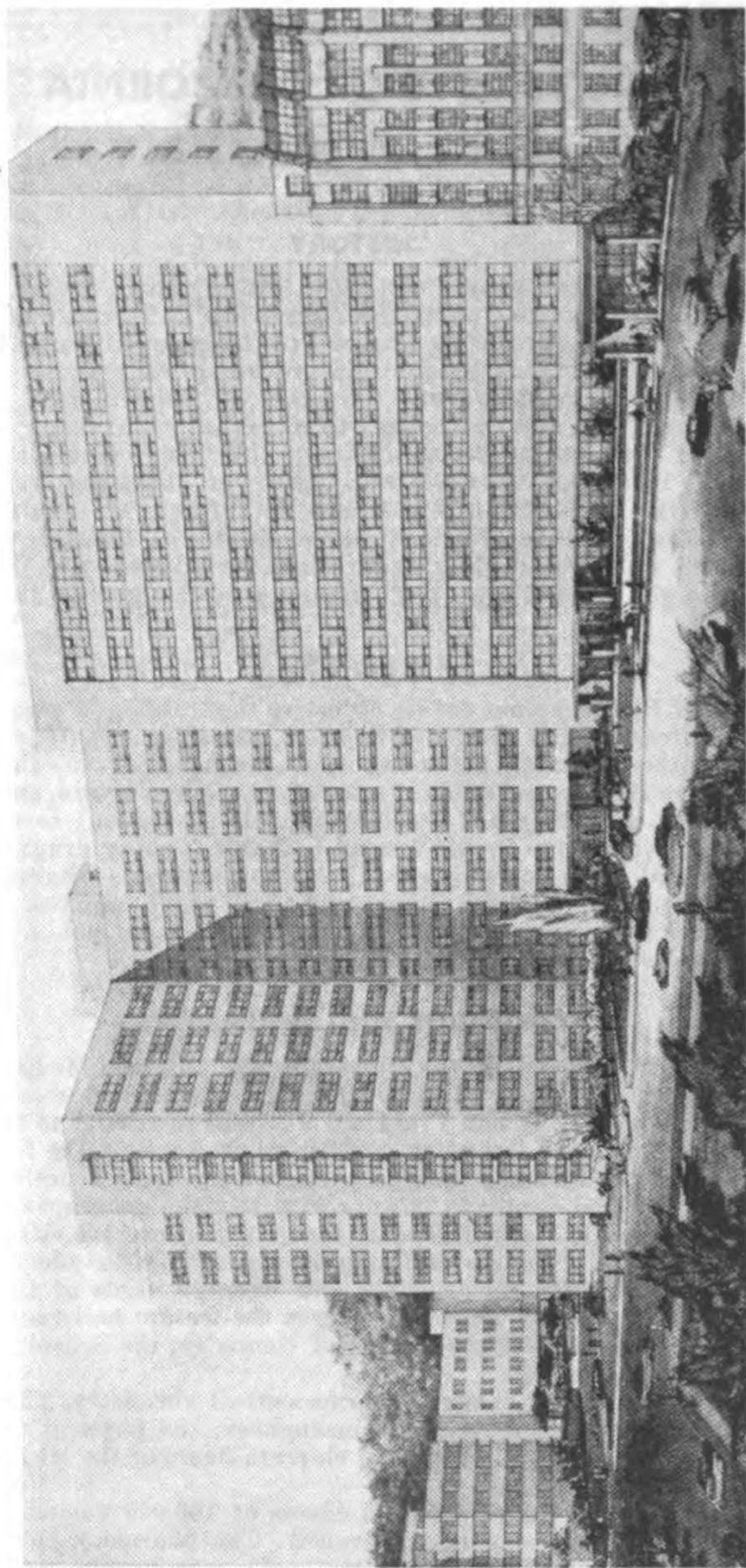
SITUATION AND EQUIPMENT

The School of Pharmacy is in the University of California Medical Center on Parnassus Avenue, between First and Fourth avenues, and overlooks Golden Gate Park and the city of San Francisco. Its close proximity to the School of Medicine, the College of Dentistry, the School of Nursing, the Hooper Foundation for Medical Research and Langley Porter Clinic is decidedly advantageous. The Medical Center is in approximately the geographical center of San Francisco, and is easily accessible from all parts of the city.

The new Medical Sciences Building is provided with adequate modern laboratory facilities for the teaching and research needs of the School of Pharmacy. The School of Pharmacy shares the lecture hall facilities of the San Francisco campus with the College of Dentistry, the School of Medicine, and the School of Nursing.

The laboratories of chemistry, pharmaceutical chemistry, pharmacy, dispensing, food and drug analysis, pharmacognosy, and physical chemistry are located on the eighth, ninth, tenth, and eleventh floors of the Medical Sciences Building.

The Medical Center Library has in excess of 100,000 volumes relating to medicine, dentistry, nursing and pharmacy. The pharmacy holdings are in excess of 7,500 volumes, consisting of textbooks, monographs, reference books and bound volumes of scientific periodicals and journals.



An architectural drawing of the H. C. Moffitt Hospital and the Medical Sciences Building as seen from Parnassus Avenue.
The School of Pharmacy is housed in the Medical Sciences Building

OPPORTUNITIES

There is today a greater demand than ever before for well-trained men and women in pharmacy. The increase in educational requirements for entering the profession has resulted in better recognition of the professional qualifications and responsibilities of the pharmacist, by both the government and the public.

Pharmacists are employed in retail pharmacies, hospital pharmacies, analytical laboratories, and in industrial plants, where control and research are required in the manufacture and development of medicinals, biological products, insecticides, and related substances. Of the total number of pharmacists, approximately 5 per cent are women. There are certain types of work in pharmacy for which women are well suited. They are frequently employed in hospitals, manufacturing laboratories, and retail pharmacies.

The curriculum of the School of Pharmacy is designed to prepare students not only for positions in prescription and retail pharmacies, but also for the various branches of pharmacy as a whole. The fusing of the theoretical and applied sciences gives the student excellent preparation for a wide range of specialties closely related to pharmacy. By a choice of majors, students can arrange their curriculum so as to concentrate in their special fields of interest without sacrifice of the basic training in pharmacy.

The state and the federal governments employ many pharmacists in the enforcement of laws pertaining to the Federal Food, Drug, and Cosmetic Act, to sanitation, and to board of health work. Graduates in pharmacy are eligible for commissions in the U. S. Public Health Service and in the Medical Service Corps of the Army, the Air Force, and the Navy. The United States Civil Service Commission employs pharmacists for services in the many hospitals operated by the Veterans Administration. To be eligible for appointment by the Civil Service Commission, applicants must hold at least a bachelor's degree in pharmacy, or its equivalent, from an approved institution. In addition to the appointments and commissions named, pharmacists are engaged in various other governmental departments for work in the field of pharmacy.

For the past several years the number of graduates from colleges of pharmacy has been insufficient for normal replacement needs in the profession. Persons contemplating the study of pharmacy will find the following brochure of interest: *Shall I Study Pharmacy?* published by the American Association of Colleges of Pharmacy. Copies of this brochure may be obtained directly from Dr. Richard A. Deno, Secretary of the American Association of Colleges of Pharmacy, University of Michigan College of Pharmacy, Ann Arbor, Michigan. The price for single copies is 35 cents each.

CURRICULA

The program leading to the degree Doctor of Pharmacy consists of two pre-professional years and four years of professional study. A student who is admitted to the School of Pharmacy on the San Francisco campus no later than September, 1957, is eligible to receive the degree Bachelor of Science in Pharmacy upon completion of the first three professional years on the San Francisco campus, provided his second preprofessional year was taken while enrolled in the College of Pharmacy on the Berkeley or Los Angeles campus of the University. Only the Doctor of Pharmacy degree will be available to students admitted after that date. For detailed information, see page 20.

In addition to the professional curricula, a graduate program leading to the degrees of Master of Science and Doctor of Philosophy in Pharmaceutical Chemistry may be taken under the direction of the Graduate Council of the University.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy and is accredited by the American Council on Pharmaceutical Education as a Class A College.

ADMISSION TO THE UNIVERSITY

ADMISSION IN UNDERGRADUATE STATUS

An applicant who wishes to enter the University must fulfill the general requirements for admission to the academic departments as set forth below. Applicants should realize that admission to the academic departments of the University is separate and distinct from admission to the School of Pharmacy. Application blanks may be obtained from the Director of Admissions, 127 Administration Building, University of California, Berkeley 4. Application blanks will be supplied by the Office of Admissions upon request. The application should be filed during the semester preceding that for which the applicant wishes to register, and must be filed not later than August 15 for the fall semester or January 15 for the spring semester. Every applicant for admission is required to pay a fee of \$5 when the first application is filed.* Remittance by bank draft or money order should be made payable to The Regents of the University of California.

Admission in Freshman Standing

ADMISSION ON THE BASIS OF THE HIGH SCHOOL RECORD

The applicant must file with the Admissions Office a regular application, on or before the last date for the receipt of applications for the semester desired, and must have the secondary schools he has attended send to the Admissions Office complete transcripts of record of all studies undertaken in such schools. The transcripts must show that the applicant has been graduated from an accredited high school. The Admissions Office will then evaluate the high school record, and the applicant will be eligible for admission if he qualifies under any one of the following methods:

1. Complete the high school courses listed under (a) to (f) below with marks that demonstrate ability to do university work with good prospects of success. Courses in the (a) to (f) list taken in the ninth grade need show passing marks only; courses in the (a) to (f) list taken in the tenth, eleventh, and twelfth grades must be passed with marks that will make an average of grade B. Courses in which a grade of D is received may not be counted either in reckoning the required scholarship or in satisfaction of the subject requirements. An A grade in one course will balance a C grade in another. Only courses used to meet the subject requirements are considered. Grades are considered on a semester basis, except from schools that give only year marks.

The courses that must be completed under this plan of admission are as follows:

- (a) History1 unit. —This requirement must be satisfied by one unit of United States history or one unit of United States history and civics.
- (b) English3 units.—These may consist of any six semesters that give preparation in written and oral expression and in the reading and study of literature. Reading and study of contemporary literature may be included. The requirement in English must be satisfied by credit designated "English."

* Veterans who expect to enroll under the provisions of Public Law 16 or Public Law 894 are not required to remit this fee if a photostatic copy of their discharge papers accompanies their application. Korean veterans under Public Law 550, however, must pay this fee.

- (c) **Mathematics** 2 units.—These must consist of two semesters of elementary or advanced algebra, and two semesters of plane geometry, or solid geometry and trigonometry.
- (d) **Science** 1 unit. —This may consist of a year course in one field of science, namely, biology, botany, chemistry, physics, physical science, physiology, or zoology. The science selected must be an advanced (third- or fourth-year) laboratory science, and the two semesters must be in the same subject field.
- (e) **Foreign language**. 2 units.—These must be in one language.
- (f) **Advanced course chosen from one of the following: 1 (or 2) units.**—1. Mathematics, a total of 1 unit (second-year algebra, $\frac{1}{2}$ or 1 unit; solid geometry, $\frac{1}{2}$ unit; trigonometry, $\frac{1}{2}$ unit);
2. Foreign language, either 1 additional unit in the same foreign language offered under (e), or 2 units of a different foreign language;
3. Science, 1 unit of either chemistry or physics in addition to the science offered under (d) above.

2. Achieve a scholarship rank in the highest tenth of his graduating class, with a substantial academic preparation, although he need not complete the exact pattern of subjects (a) to (f) listed above.

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

4. Complete not less than 15 high school units with no grade lower than C in work taken in the ninth, tenth, eleventh, and twelfth years, or not less than 12 high school units with no grade lower than C in work taken in the tenth, eleventh, and twelfth years; and not less than 6 high school units of grade A or B selected from the following 10 units of academic subjects:

Third- and fourth-year English

Third- and fourth-year mathematics

Third- and fourth-year laboratory science

Third- and fourth-year foreign language

Third- and fourth-year history.

5. By College Entrance Examination Board examinations. (Applicable only to mature persons and to high school graduates. See the CIRCULAR OF INFORMATION, BERKELEY.)

Subject A: English Composition

Every undergraduate entrant (except those who have received a satisfactory rating in the College Entrance Examination Board examination in English composition) must at the time of his first registration in the University, take an examination designed to test his ability to write English without gross errors in spelling, grammar, sentence structure, or punctuation. This is known as the *Examination in Subject A*.

Students who fail to pass the Subject A examination must take a three-hour course known as the *Course in Subject A*, without unit credit toward graduation. A fee of \$20 is charged for this course.

Removal of Admission Deficiencies

Deficiencies in high school scholarship or subject requirements must be removed by examination or additional studies before admission is approved. The applicant whose only deficiency arises from not having studied a required subject may remove the deficiency by a satisfactory grade in a course acceptable for that purpose, and by maintaining a satisfactory scholarship average in other studies pursued in the meantime. The applicant whose deficiency is caused by a low scholarship average or by a combination of low scholarship and incomplete subject preparation, may remove his deficiencies as follows:

1. By college courses of appropriate content and amount completed with satisfactory scholarship in junior colleges, or State colleges of California, or in other approved colleges. The applicant must include in his program courses acceptable for removing his subject shortages and present either:

- (a) Sixty units with at least an average of grade C in college transfer courses, or
- (b) A minimum of 15 units of college transfer courses with a grade-point average of 1.5, or
- (c) A C average or higher on completion of all published requirements for junior standing in a college or school in the University.

2. By college courses in one of the three following divisions of the University of California:

- (a) *University Extension*.—These courses are of three types—correspondence, general adult education classes marked “X,” “XB,” “XL,” “XR,” or “XSB,” and special classes designed to make up entrance deficiencies. There are no restrictions on enrollment in correspondence courses, but only those with 5 units or less of scholarship deficiencies in their high school records are eligible for the special program of class courses designed to make up entrance deficiencies. To be acceptable, grades received in this program must be definitely above the C average, and must serve, not merely as specific make-up of deficiencies, but also as a demonstration of ability to do college work successfully.
- (b) *Combination Program of the College of Agriculture at Davis*.—Courses in the Combination Program of the College of Agriculture at Davis (open only to students who have not more than 3 units of scholarship and/or subject-matter deficiencies). A grade of D or F on the high school transcript shall count as both a scholarship and subject deficiency. Students cannot remove entrance deficiencies in the Two-Year Curriculum (nondegree course). See PROSPECTUS OF THE COLLEGE OF AGRICULTURE.
- (c) *Summer Session*.—For students with only one or two deficiencies the first summer session on the Berkeley campus may be used to make up shortages.

3. By postgraduate courses in accredited high schools.

4. By College Entrance Examination Board examinations.

5. As an alternative to making up high school subject deficiencies, an applicant may be admitted on the basis of a record showing completion of at least 60 units of C average work or higher, in which must be included all of the subjects required for junior standing in a school or college of the University.

Admission in Advanced Standing

An applicant for admission to the University in advanced standing must present evidence that:

- (1) He has satisfied, through either high school or college courses, the subjects required for admission of high school graduates in freshman standing.
- (2) His advanced work, in institutions of college level, has met the minimum scholarship standard required of transferring students (namely, an average of grade C or higher in all college courses undertaken, including at least a C average in the last institution attended).
- (3) He is entitled to return as a student in good standing to the last college attended.

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

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

Subject A: English Composition.—Credit for Subject A (English Composition) is given to those students who enter the University with credentials showing the satisfactory completion elsewhere of the required training in composition. An examination is required of all other students by this University. Students who fail to pass the Subject A examination must take a three-hour course known as the *Course in Subject A*, without unit credit toward graduation. A fee of \$20 is charged for this course.

Removal of Scholarship Deficiencies by Applicants from Other Colleges

Applicants otherwise eligible who seek to transfer from other institutions of collegiate rank but whose college records fail to show a satisfactory scholarship average may be admitted only when the deficiency has been removed by additional work completed with grades sufficiently high to offset the shortage of grade points. This may be accomplished by work in other approved higher institutions, in Summer Sessions, or in correspondence courses in University Extension. Except for veterans, applicants for advanced standing who have scholarship deficiencies will not be admitted to the admissions program classes of University Extension.

American History and American Institutions Requirements

In order to meet the California requirements in American History and American Institutions, a student must either complete acceptable courses of instruction or pass examinations satisfactorily in each of the areas.

1. American History and American Institutions may be satisfied by examination or by a semester of work in American History and a semester of work in American Government or Institutions.

2. **If a student has satisfied a part of the requirement before the fall of 1953, he may complete the requirement under the old regulation of one year of American Institutions, or one year of American History, or one semester of each.**
3. **If a student has attended a school that permits satisfaction of the requirement in American History and American Institutions by some means other than those listed above, the transcript must bear an official statement that the requirement has been met, or an official letter to this effect, from the registrar of the school attended, must be filed *with the application*.**
4. **A student is expected to fulfill the American History and American Institutions requirement prior to his admission to the San Francisco campus of the School of Pharmacy. After July 1, 1956, a student must complete the American History and American Institutions requirement before being admitted to the San Francisco campus of the School of Pharmacy.**

ADMISSION TO THE SCHOOL OF PHARMACY

The curriculum of the School of Pharmacy leading to the degree Doctor of Pharmacy consists of four years of professional study on the San Francisco campus of the University. In order to be eligible to apply for admission to this curriculum, two years of preprofessional study, comprising a minimum of 60 units of prescribed and elective courses as outlined below, must have been completed with an average grade of C or better. This may be taken in the University or in any other approved collegiate institution. Students taking this training in the University will normally be enrolled in the College of Letters and Science. (*See also* the requirements for the degree Bachelor of Science in Pharmacy, page 18.)

PREPHARMACY CURRICULUM

	Units	
	First Semester	Second Semester
FIRST YEAR		
Chemistry 1A-1B	5	5
Elective ¹	3	-
Botany 12	-	4
English 1A-1B or Speech 1A-1B.....	3	3
Elective ²	3-4	3-4
Military Science	2	2
Subject A (English Composition) ³	-	-
	16-17	17-18
SECOND YEAR		
Zoology 1A-1B	4	4
Physics 2A-2B	3	3
Physics 3A-3B	1	1
Mathematics 16A-16B (or 3A-3B).....	3	3
History 17A ⁴	3	-
Political Science 1 ⁴	-	3
Military Science	2	2
	16	16

Application for admission to the School of Pharmacy should be made during the student's second year of prepharmacy instruction. Application blanks are available at the Office of Admissions, Room 62A, University of California Hospital, University of California Medical Center, San Francisco 22, California. *The application must be received between October 1 and March 1 in order to be considered for admission to the School of Pharmacy in the following September.* A copy of the applicant's high school record and a transcript of all college records completed to date must accompany or immediately follow the application.

¹ Trigonometry and Intermediate Algebra are prerequisite to Mathematics 16A.

² A year course chosen from foreign language, mathematics, social science, philosophy, or the fine arts and selected from the courses offered in satisfaction of the "e" requirement in the College of Letters and Science (*See CIRCULAR OF INFORMATION, DEPARTMENTS AT BERKELEY, or ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES*).

³ See p. 13 for Subject A requirement.

⁴ If the University requirements in American History and American Institutions have been satisfied, electives may be taken.

If the number of qualified applicants exceeds the available facilities selection of students will be made on the basis of the scholastic record and the result of a special aptitude examination. A personal interview may be required.

Bachelor of Science in Pharmacy.—Students who have completed the first two years of the prepharmacy program before September, 1957, are eligible to receive the degree Bachelor of Science in Pharmacy upon satisfactory completion of the first three years of the professional training in the School of Pharmacy on the San Francisco campus. In order to qualify for this degree the student must have been enrolled in the *College of Pharmacy* on the Berkeley or the Los Angeles campus of the University during his second prepharmacy year. Students who have completed the first prepharmacy year in the College of Letters and Science must file a petition of transfer with the Registrar in order to enroll in the College of Pharmacy.

The procedure for admission to the School of Pharmacy, San Francisco campus, for students preparing for the bachelor's degree is identical to that described above for those preparing for the degree Doctor of Pharmacy.

Mr. D. C. Brodie, Mr. J. J. Eiler, Mr. D. D. Kendrick, and Mr. J. E. Preston, advisers to the students in the College of Pharmacy on the Berkeley campus, hold office hours in Room 2009, Life Sciences Building, Berkeley, during registration, and at announced times each semester. They may also be contacted at the School of Pharmacy, San Francisco campus.

Mr. O. A. Plunkett, adviser to the students in the College of Pharmacy on the Los Angeles campus, may be contacted at his office in the Physics-Biology Building.

STUDENT FEES

The law of the State of California requires all nonresident students to pay a nonresident tuition fee.

If the student is in doubt about his residence status, he should consult or communicate with the Attorney for the Regents in Residence Matters, Room 128, Administration Building, Berkeley 4, California.

Fees per Semester of Professional Study

California Residents—	
Tuition fee	\$100.00
Incidental fee	42.00
	<hr/>
Total	\$142.00
Nonresidents—	
Tuition fee	\$175.00
Incidental fee	42.00
	<hr/>
Total	\$217.00

Other Fees

Condition examinations—(one course)	\$2.00
Condition examinations—(two or more courses)	3.00
Changes in study lists after third week of the semester	(each petition) 1.00
Duplicate registration card	1.00
Late application for degree	2.00
Late filing of study list	2.00
Late payment of fees	2.00
Late registration	2.00

Late Subject A examination.....	1.00
Returned check collection.....	1.00
Transcripts of Record: Issued by Recorder; fee assessed upon request for transcript.	

All checks, money orders, or drafts should be made payable to The Regents of the University of California.

Students registering after the stated day or days set aside for this purpose, are required to pay an additional \$2 fee for late registration.

An additional charge of \$2 is made for failure to pay required fees or deposits within ten days after the student's registration.

Resident graduate students in academic status pay no tuition fees; non-resident graduate students pay the nonresident fee of \$150 per semester. The above fees for graduate students apply in all cases unless the fees are specifically waived by the Dean of the Graduate Division. Every graduate student who believes himself entitled to a waiver of fees must apply to the Dean of the Graduate Division for a "fee exemption slip" before registering.

Pharmacy students who are registered for less than 10 units a semester will be charged at the rate of \$10 per unit of instruction, plus the incidental fee of \$42 a semester. Nonresidents will be charged a nonresident fee of \$17.50 per unit in addition to the incidental fee.

Students who are registered primarily on the Berkeley campus and who are taking some course work on the San Francisco campus should pay the incidental fee at Berkeley. These students are permitted to take 4 units of course work in the School of Pharmacy without payment of tuition. Students registered on the San Francisco campus and who are taking some course work on the Berkeley campus should pay the incidental fee in San Francisco.

Laboratory.—Students will be held accountable for the replacement or repair of lost or damaged equipment.

Students are not permitted to remove glassware or any other laboratory items or any chemicals from the building.

Other Expenses.—Books and stationery cost on an average of \$137 for the first year; \$100 for the second year; \$110 for the third year.

Membership in the Associated Students of the University for students on the San Francisco campus costs \$10 each year (fall and spring semesters), and though membership is not obligatory, it is advisable. A membership card entitles the holder to a subscription to the student newspaper, the *Daily Californian*; membership in the Henry Morse Stephens Memorial Student Union, which is the center of the campus life in Berkeley; privilege of admission free or at reduced rates to athletic contests; and participation in all student affairs, including athletics and student-body and class activities.

Summer Session Fees

Tuition	\$42.00
Health fee	4.50
General Laboratory Fee	11.50*
	<hr/>
	\$58.00

* Students not taking laboratory instruction during a Summer Session are not required to pay the general laboratory fee.

CURRICULA IN PHARMACY

REQUIREMENTS FOR THE DEGREE DOCTOR OF PHARMACY

A CANDIDATE FOR THE DEGREE Doctor of Pharmacy must fulfill the following requirements:

(1) He must have completed the course requirements for the curriculum outlined below. The minimum requirements are 129 units of work, exclusive of the preprofessional years required for admission to the curriculum.

(2) He must have attained at least as many grade points as units of credit undertaken.

(3) He must have completed at least four years of residence in an accredited school or college of pharmacy. *See also*, Excerpts from the Pharmacy Laws of California.*

(4) He must have paid all fees and financial obligations to the University.

(5) He must give evidence of possessing satisfactory professional qualifications.

(6) He must be recommended for the degree by the faculty of the School of Pharmacy.

(7) He must fulfill the general regulations of the University relating to the granting of degrees.

REQUIREMENTS FOR THE DEGREE BACHELOR OF SCIENCE IN PHARMACY

A candidate for the degree of Bachelor of Science in Pharmacy must fulfill the following requirements:

(1) He must have completed the course requirements in a curriculum consisting of the following: (a) The second year of the prepharmacy curriculum (see page 17) taken while enrolled in the College of Pharmacy on the Berkeley or the Los Angeles campus of the University. (b) The first, second, and third years of the professional curriculum as set forth on page 22. The minimum requirements are 129 units of work, exclusive of the first prepharmacy year, which is required for admission to the curriculum.

(2) He must have attained at least as many grade points as units of credit undertaken.

* Excerpts from the Pharmacy Laws of California.

4090. The board shall register as licentiates in pharmacy and issue a certificate to all applicants who meet the following requirements: (a) That the applicant is 21 years of age. (b) That the applicant has been graduated from a college of pharmacy or department of pharmacy of a university recognized by the board, which school or college of pharmacy or department of pharmacy of a university requires a resident attendance of not less than eight calendar months of each year of its course. The course in pharmacy shall consist of not less than 3,200 hours distributed over a period of not less than four years. Any student, however, may complete the required course of 3,200 hours in a lesser period of time. (c) That the applicant has had one year of practical experience in a pharmacy recognized by the board. (d) That the applicant has passed a written and practical examination given by the board. The amendments to this section shall be effective January 1, 1950.

4093. Pharmaceutical experience constitutes service and experience obtained after the applicant's fifteenth birthday in a pharmacy under the personal supervision of a registered pharmacist or licentiate in pharmacy, and which consists of service and experience predominantly related to the selling of [*sic*] drugs, compounding physician's prescriptions, preparing pharmaceutical preparations, and keeping records and making reports required under State and Federal statutes.

4095. A pharmaceutical year shall consist of not less than 1,900 clock hours of pharmaceutical experience as defined by Section 4093.

4096. Each applicant shall be of good moral character and temperate habits; he shall be a citizen of the United States, or, if eligible for citizenship and not a citizen, he shall have filed and proven his intention of becoming one. If citizenship is later denied to any person registered under this chapter, then such denial of citizenship shall automatically cancel all such registration and privileges.

(3) He must have completed at least four years of residence in an accredited school or college of pharmacy

(4) He must have paid all fees and financial obligations to the University.

(5) He must give evidence of possessing satisfactory professional qualifications.

(6) He must be recommended for the degree by the faculty of the School of Pharmacy.

(7) He must fulfill the general regulations of the University relating to the granting of degrees.

PROGRAMS OF STUDY

The curriculum in the School of Pharmacy leads to the degree Doctor of Pharmacy. The program leading to this degree consists of two years of pre-professional study, which may be taken at any approved collegiate institution, and a four-year professional curriculum. The professional curriculum is taken in the School of Pharmacy on the San Francisco campus.

Students entering the School of Pharmacy on the San Francisco campus as late as September, 1957, may elect the course of study leading to the degree Bachelor of Science in Pharmacy. (For details, see page 18.) After that date only the curriculum leading to the degree Doctor of Pharmacy will be available.

Curriculum

The four-year curriculum outlined below leads to the degree Doctor of Pharmacy.

Requirements for Admission: To be admitted to the School of Pharmacy, students must have satisfied the requirements for admission to the academic colleges of the University (see page 12) and must have completed in the University of California or in another institution of approved standing, and with an average grade of C or better, at least 60 units of the program set forth on page 17 under the heading "Prepharmacy Curriculum."

Program for the Degree Bachelor of Science in Pharmacy.—For a limited time only, students may elect a program leading to the degree Bachelor of Science in Pharmacy. Admission to this program requires completion of the courses in the first year of the prepharmacy curriculum (see page 17). The curriculum leading to this degree consists of the second year of the prepharmacy curriculum and the first three years of the professional curriculum set forth below. In order to be eligible to apply for this degree the second year of the prepharmacy curriculum must have been taken while enrolled in the College of Pharmacy on the Berkeley or the Los Angeles campus of the University. Students commencing the second prepharmacy year later than September, 1956, will not be eligible to apply for this degree. Admission to the College of Pharmacy on the Berkeley or Los Angeles campus of the University does not guarantee admission to the San Francisco campus. (See Admission to the School of Pharmacy, page 17.)

Graduation.—The requirements for graduation are set forth under "Requirements for the Degree Doctor of Pharmacy" and "Requirements for the Degree Bachelor of Science in Pharmacy," pages 20 and 21.

	Units	
	First Semester	Second Semester
FIRST YEAR		
Anatomy 100	4	-
Chemistry 5	-	3
Chemistry 11A	3	-
Chemistry 11B	3	-
Chemistry 11C	-	3
Pharmacognosy 100	-	3
Pharmacy 10A-10B	1	1
Pharmacy 20	2	-
Pharmacy 104	-	2
Pharmacy Administration 124	2	-
Physiology 105	-	4
	15	16
SECOND YEAR		
Biochemistry 100	4	-
Chemistry 109A-109B	4	2-3
Microbiology 111	-	5
Pharmaceutical Chemistry 100	4	-
Pharmaceutical Chemistry 114	-	3
Pharmacy 105A-105B	5	4
Pharmacy Administration 103	-	2
	17	16-17
THIRD YEAR		
Pathology 125	4	-
Pharmaceutical Chemistry 110A-110B.....	2	3
Pharmaceutical Chemistry 120	3	-
Pharmacognosy 115	3	-
Pharmacology and Toxicology 105.....	1	-
Pharmacology and Toxicology 101.....	-	4
Pharmacy 115A-115B	4	5
Public Health 100	-	2
Electives	0-2	2-4
	17-19	16-18
FOURTH YEAR		
Parasitology and Mycology 126.....	-	3
Pharmaceutical Chemistry 115	-	3
Pharmacy 405A-405B	4	4
Pharmacy 425A-425B	1	1
Pharmacy 455	-	2
Public Health 400.....	3	-
Electives	7-9	3-5
	15-17	16-18

Elective Programs

A minimum of 14 units of elective courses is required after entering the professional curriculum. The elective courses normally will be taken during the third and fourth years. Students with unusual educational objectives may take elective courses earlier in the program by making special arrangements for postponement of certain required courses.

A minimum of 4 units of elective courses is required for the degree Bachelor of Science in Pharmacy.

Students are encouraged to plan individual elective programs. However, individual programs must be given very careful consideration, and require the approval of the Adviser. Students who do not submit detailed plans may select one of the following programs designed to meet the needs of the majority. Logical substitutions in these programs may be made with the approval of the Adviser.

General Pharmacy.—Students in this group will complete Pharmacy Administration 112 and 134 (4 units). Additional courses should be selected from the following: Pharmacognosy 130 (2), Pharmacology 141 (2), Pharmacy 122 (2), Pharmacy 414 (2), Pharmacy 434 (2), Pharmacy 445 (2-3), Pharmacy 454 (2), Pharmacy Administration 144 (2).

Analytical Pharmaceutical Chemistry.—Students in this group will complete Pharmaceutical Chemistry 125 and 130 (6 units). Additional courses should be selected from the following: Biophysics 125 (2), Chemistry 100 (3-4), Chemistry 150 (3), Pharmaceutical Chemistry 126 (3), Pharmacognosy 144 (3), Pharmacology 141 (2), Pharmacy 122 (2), Pharmacy 414 (3), Pharmacy Administration 112 (2), Pharmacy Administration 134 (2), Pharmacy Administration 144 (2).

Hospital and Manufacturing Pharmacy.—Students in this group will complete Pharmacy 424A-424B (3 or 4-3 or 4) and Pharmacy 435A-435B (3-3) or any permitted combination of these courses which includes one complete year sequence (9-14) units. Additional courses should be selected from the following: Biophysics 125 (2), Pharmacognosy 140 (2), Pharmacology 141 (2), Pharmacy 122 (2), Pharmacy 434 (2), Pharmacy 445 (2-3), Pharmacy 414 (3), Pharmacy 454 (2), Pharmacy Administration 112 (2), Pharmacy Administration 134 (2), Pharmacy Administration 144 (2).

COURSES OF INSTRUCTION

EXPLANATORY NOTE

THE CREDIT VALUE of each course in semester units is indicated by a number in parentheses following the title. The session in which the course is given is shown as follows: I, first semester; II, second semester; Yr., throughout the year. The hours stated are to be interpreted as hours per week per semester.



For courses not described in these pages, see the ANNOUNCEMENT OF COURSES, DEPARTMENTS AT BERKELEY, or the ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES.

AMERICAN HISTORY AND INSTITUTIONS*

LOWER DIVISION COURSES

- 12. American Institutions.** (2) I. Bellquist
Lectures, 2 hours.
A study of the provisions and principles of the United States Constitution. Required of all candidates for the bachelor's degree. In the event this requirement is satisfied by examination, 2 units of other elective courses must be substituted for this course.
- 14. American History.** (2) II. Burke
Lectures, 2 hours.
A study of the history and development of the United States. Required of all candidates for the bachelor's degree.



See the CIRCULAR OF INFORMATION, DEPARTMENTS AT BERKELEY, or the ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES, for courses in other departments which satisfy the University's requirements of American History and American Institutions.

ANATOMY

UPPER DIVISION COURSE

- 100. Functional Anatomy and Histology.** (4) I.
Lectures, 2 hours. Laboratory, 6 hours. Weisengreen, Coleman, Sainio
Prerequisite: Zoology 1A-1B.
A study of the human body and its tissues by means of lectures, dissections, demonstrations, and microscopic slides. The gross anatomy will follow the systematic approach, and structure will be studied with reference to its function. The histology of human tissues will be discussed with emphasis on the fundamental properties of each tissue.

BIOCHEMISTRY

UPPER DIVISION COURSES

- 100. Biochemistry.** (4) I. Eiler, Lee
Lectures, 4 hours.
Prerequisite: Anatomy 100, Physiology 105, and Chemistry 11C.

* Courses will not be offered in 1956-1957 unless justified by enrollment.

An introduction to the study of the physicochemical basis of life processes, a survey of those classes of substances which are to be found in animals and plants, and a discussion of the changes which these substances undergo in the animal body. Special consideration is given to the enzymes, the vitamins, and the endocrines.

***199. Special Study for Advanced Undergraduates.** (2-5) Either I or II.

Prerequisite: Biochemistry 100.

Eiler, Lee

Enrollment is limited to outstanding students. Permission to enroll in this course must be obtained from the Dean of the School.

GRADUATE COURSE

211. Enzyme Action and Biological Oxidation. (3) I. Lee, Eiler

Lectures, 3 hours.

Prerequisite: Biochemistry 100, Chemistry 109A-109B.

Classification, sources, methods of isolation and purification, physicochemical properties, kinetics and mechanism of action of enzymes.

COURSES IN ANOTHER DEPARTMENT OF THE UNIVERSITY

See courses listed under Biochemistry in the ANNOUNCEMENT OF COURSES, DEPARTMENTS AT BERKELEY.

BIOPHYSICS

UPPER DIVISION COURSES

119. Biophysics. (3) I. Strait

Lectures, 3 hours.

Prerequisite: Physics 10 or equivalent.

Fundamental concepts and principles of physics. The illustrations and applications of physical laws and principles include physiological phenomena and therapeutic practice, such as treatment of forces in muscles and joints and the principles of traction apparatus in mechanics. Selected topics in elementary physics are elaborated, for example, the electromagnetic spectrum is studied from the viewpoint of biologically active radiation.

125. Bioradiology. (2) I or II. Scott, Peng

Lecture, 1 hour. Laboratory, 3 hours.

Prerequisite: Biochemistry 100, Physics 2A-2B.

A study of the physical and chemical characteristics of radioisotopes, nuclear decay, transmutation, measurement of ionizing radiations, tracer studies, radioautography, radiochemistry, and the techniques involved in the application of radioisotopes to biology.

CHEMISTRY

LOWER DIVISION COURSES

5. Quantitative Analysis. (3) II. Goyan, Tuck

Lecture, 1 hour. Laboratory, 6 hours.

Prerequisite: Chemistry 1A-1B.

11A. Organic Chemistry. (3) I. Kumler

Lectures, 3 hours.

Prerequisite: Chemistry 1A-1B.

An introductory study of the compounds of carbon.

11B. Organic Chemistry—Laboratory. (3) I. Jorgensen

Lecture, 1 hour. Laboratory, 6 hours.

The experimental preparation and study of the common classes of organic compounds. Open to students who have taken or are taking Chemistry 11A.

* Course with no final examination.

11C. Organic Chemistry. (3) II.

Kumler

Lectures, 3 hours.

Prerequisite: Chemistry 11A, 11B.

A continuation study of the compounds of carbon, including some of the more complex aromatic, hydroaromatic, and heterocyclic compounds.

UPPER DIVISION COURSES**100. Organic Chemistry—Analytical Methods. (3-4) I or II.** Jorgensen

Lecture, 1 hour. Laboratory, 6-9 hours.

Prerequisite: Chemistry 5, 11A and 11B (completed or in progress).

A study of the reactions of organic compounds by applying a system of qualitative analysis to the determination of characteristic groups.

103. Advanced Organic Chemistry. (3) II.

Kumler

Lectures, 3 hours.

Prerequisite: Chemistry 11A, 11B, and 11C.

109A. Physical Chemistry. (4) I.

Goyan, Tuck

Lectures, 2 hours. Laboratory, 6 hours.

Prerequisite: Chemistry 5, 11A-11B; Physics 2A-2B (or Biophysics 119), Physics 3A-3B; Mathematics 16A-16B or equivalent.

Lectures and laboratory exercises in physical chemistry selected to systematize, clarify, and review certain theoretical aspects of chemistry presented in previous courses; and to develop new topics of special interest to students of pharmacy.

109B. Physical Chemistry. (2-3) II.

Goyan, Tuck

Lectures, 1 (or 2) hour. Laboratory, 3 hours.

Prerequisite: Chemistry 109A or equivalent lecture and laboratory work.

A continuation of Chemistry 109A with special emphasis on the accumulation and interpretation of physicochemical data of interest in pharmacy and pharmaceutical chemistry.

150. Chemical Toxicology. (3) I or II.

Lee

Lecture, 1 hour. Laboratory, 6 hours.

The methods of chemical detection and analysis of the common poisons. Normally open to third- and fourth-year students.

190. Topics in Physical Chemistry. (3) I or II.

Tuck

Lectures, 3 hours.

Prerequisite: Chemistry 109A, Mathematics 16A-16B or equivalent.

Topics will be chosen with regard for their importance to interpretations and understanding of research problems and will be modified from year to year in compliance with the interests of the class members. Among others, topics which will be developed include the following: chemical kinetics, thermodynamics, structure of atoms, the chemical bond, kinetic theory of matter, properties of solutions. Enrollment is limited to outstanding students, with the consent of the instructor.

***199. Special Study for Advanced Undergraduates. (2-5) Either I or II.**

The Staff

Enrollment is limited to outstanding students. Permission to enroll in this course must be obtained from the Dean of the School.

COURSES IN ANOTHER DEPARTMENT OF THE UNIVERSITY

Chemistry 101 (3), 102 (3), 110A-110B (3-3), 111 (3), 118 (2), 185 (2-5).

Chemistry 111 (3) will be accepted in lieu of Chemistry 109A (4). Courses in chemistry in the School of Pharmacy having the same designation as in other departments of the University are regarded as being equivalent.

* Course with no final examination.

MICROBIOLOGY AND PUBLIC HEALTH

UPPER DIVISION COURSES

100. Public Health Programs. (2) II.

Stiles

Lectures, 2 hours.

Prerequisite: Microbiology 111, completed or taken concurrently.

A comprehensive survey of the programs for emergency medical care, accident prevention, disaster preparedness, control of communicable diseases, nutrition, environmental sanitation, medical entomology, veterinary medicine, industrial hygiene, sociosexual problems, maternal and child care, mental hygiene, geriatrics, socioeconomic problems associated with medical care, statistics, and history of medicine. Special consideration will be given to the administrative programs of federal, state, and local health agencies as they relate to dentistry and pharmacy. Group meetings and field observations are an integral part of the instruction in this course.

111. Microbiology. (5) II.

The Staff (Marshall in charge)

Lectures, 3 hours. Laboratory, 6 hours.

A study of: properties and activities of microorganisms; sterilization and disinfection; antibiotics; principles of serology; bacteriology of food, water, milk; infections due to bacteria, viruses, and other microorganisms; immunity; manufacture, standardization, and use of biologic products.

Normally, substitute courses for Microbiology 111 will not be allowed.

***199. Special Study for Advanced Undergraduates. (2-5) Either I or II.**

Marshall and Staff

Permission to enroll in this course must be obtained from the Dean of the School and from the department.

400. Public Health Administration. (3) I.

Stiles

Seminars and field observations, 3 hours.

Prerequisite: Public Health 100

Exploration of the potential and actual relationships between pharmacy and various public health agencies. Some of the meetings of the class will be scheduled at selected facilities with representatives of the agencies participating in the discussions. Each student will be required to prepare a paper on some particular phase of the subject, acceptable for publication in a scientific journal. Group meetings and field observations are an integral part of the instruction in this course.

COURSE IN ANOTHER DEPARTMENT OF THE UNIVERSITY

Bacteriology 101 (6). This course will be accepted in lieu of Microbiology 111.

PATHOLOGY AND PARASITOLOGY

UPPER DIVISION COURSES

125. Pathology. (4) I.

The Staff (Moon in charge)

Lectures, 2 hours. Laboratory, 6 hours.

Prerequisite: Anatomy 100, Physiology 105, Biochemistry 100.

The fundamental principles of pathologic (morphologic) and physiologic changes incident to abnormal states. Inflammation, infection, degenerations, regeneration and repair, metabolic, vitamin and endocrine disturbances, and tumors are discussed and studied with the aid of gross material and microscopic slides.

* Course with no final examination.

- 126. Medical Parasitology and Mycology.** (3) II. Johnstone and the Staff
Lectures, 2 hours. Laboratory, 3 hours.
Prerequisite: Microbiology 111.

The animal parasites and fungi which cause disease in man and animals considered with special orientation to the needs of the practicing pharmacist. The biology, morphology, host relationships and epidemiology of the etiologic agents associated with the parasitoses and mycoses commonly found in North America.

PHARMACEUTICAL CHEMISTRY

UPPER DIVISION COURSES

- 100. Chemistry of Natural Products.** (4) I. Oneto
Lectures, 3 hours. Laboratory, 3 hours.
Prerequisite: Chemistry 5, 11A, 11B, 11C, Pharmacognosy 100.
The physical and chemical properties of the principal constituents of crude drugs and the methods employed for their separation and identification.
- 110A-110B. Chemistry of Synthetic Drugs.** (2-3) Yr. Daniels, Jorgensen
Lectures, 2 and 3 hours.
Prerequisite: Biochemistry 100, Pharmaceutical Chemistry 100.
A study of the chemistry, physical properties and general biological action of selected synthetic drugs; relation of physicochemical properties and biological response; and a survey of the important drugs in current use.
- *112. Proseminar.** (1) Either I or II. The Staff (Daniels in charge)
Permission to enroll in this course must be obtained from the instructor.
Presentation and discussion of newer aspects of the subject.
- 114. Synthesis of Organic Medicinals.** (3) II. Oneto
Lectures, 2 hours. Laboratory, 3 hours.
Prerequisite: Pharmaceutical Chemistry 100.
The preparation and properties of representative synthetic drugs.
- 115. Interaction of Drugs and Tissues.** (3) II. Lee, Eiler
Lectures, 3 hours.
Prerequisite: Biochemistry 100.
A study of the interaction of drugs and tissues. Consideration will be given to the various transformations which drugs undergo in the several tissues of mammalian forms. Special attention will be given to the effect of drugs on the enzyme systems present in the several tissues and in selected biological material. An attempt will be made to correlate the influence of drugs on the kinetics of enzyme systems with the recognized pharmacologic effect of the drugs. Brief consideration will be given to the relation of a drug and its ability to penetrate the cell wall.
- 116. Advanced Synthesis of Organic Medicinals.** (3) I or II. Daniels, Oneto
Laboratory, 9 hours.
Prerequisite: Pharmaceutical Chemistry 114.
A continuation of course 114.
- 120. Assay of Drugs.** (3) I. Brochmann-Hanssen
Lectures, 2 hours. Laboratory, 3 hours.
Prerequisite: Pharmaceutical Chemistry 100.
The chemical and physico-chemical assays of the more important drugs.

* Course with no final examination.

- 125. Drug and Food Analysis.** (3) II. Brochmann-Hanssen
Lecture, 1 hour. Laboratory 6 hours.
Prerequisite: Pharmaceutical Chemistry 100.
Modern methods of analysis used in the control of manufactured drug and food products, including vitamins and hormones; legal standards for drugs and foods.
- 126. Drug and Food Analysis.** (3) I or II. Brochmann-Hanssen
Lecture, 1 hour. Laboratory, 6 hours.
Prerequisite: Pharmaceutical Chemistry 125.
Modern methods of analysis used in the control of manufactured drug and food products, including vitamins and hormones; legal standards for drugs and foods.
- 130. Physical Measurement.** (3) II. Strait, Goyan, Tuck
Lectures, 2 hours. Laboratory and demonstration, 3 hours.
Prerequisite: Physics 2A-2B (or Biophysics 119); Physics 3A-3B; Mathematics 16A-16B or equivalent.
The fundamentals of physical measurement applied to the selection and use of common scientific instruments.
- 150. Chemistry of the Heterocyclics.** (2) II. Jorgensen
Lectures, 2 hours.
Prerequisite: Pharmaceutical Chemistry 110A.
Chemistry of the heterocyclic drugs including the alkaloids.
- *199. Special Study for Advanced Undergraduates.** (2-5) Either I or II.
The Staff
Enrollment is limited to outstanding students. Permission to enroll in this course must be obtained from the Dean of the School.

COURSES IN OTHER DEPARTMENTS OF THE UNIVERSITY

Biochemistry 123 (3), Chemistry 102 (3), 103 (3), Entomology 128 (4), Food Technology 112 (3).

GRADUATE COURSES

The Graduate Council of the University has established the field of pharmaceutical chemistry in which properly qualified persons may be accepted as graduate students and as prospective candidates for higher degrees. The field of pharmaceutical chemistry runs across departmental lines. Representatives of a number of departments serve on the committee concerned with the field of pharmaceutical chemistry. For course and other requirements, consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION, and the Graduate Division Bulletin entitled ANNOUNCEMENT IN THE BIOLOGICAL SCIENCES.

The following courses are listed here on behalf of the field of pharmaceutical chemistry.

210. Research in Pharmaceutical Chemistry. I and II.

The Staff (Daniels in charge)

Not less than 3 units during any semester except by special permission of the Chairman of the Group in Pharmaceutical Chemistry. Enrollment is limited to those who have been accepted for graduate work in the field of pharmaceutical chemistry.

* Course with no final examination.

211A-211B. Selected Topics in Pharmaceutical Chemistry. (1-1) Yr.

Lecture, 1 hour.

Jorgensen

Prerequisite: Pharmaceutical Chemistry 110A-110B. Course 211A is not prerequisite to 211B.

Reports and discussion of topics of current interest in pharmaceutical chemistry, with emphasis on relationships between chemical structure, physical properties, and biological response.

212. Research Conference in Pharmaceutical Chemistry. I and II. No credit.

The Staff (Daniels in charge)

Prerequisite: same as for course 210.

215. Aspects of the Mechanism of Drug Action. (3) II.

Eiler, Lee

Lectures, 3 hours.

Prerequisite: Pharmaceutical Chemistry 110B, Biochemistry 211.

Recent advances in the interaction of drugs and enzyme systems with special emphasis on the kinetics and mechanism of drug action; correlation of structure and physicochemical properties of chemical agents with their action on selected biological systems.

216. Experimental Methods Related to Enzymes and Drug Action. (3) II.

Lecture, 1 hour. Laboratory, 6 hours.

Lee

Prerequisite: Biochemistry 211.

Experimental methods used in the study of enzymes and the action of drugs on enzyme systems. Students may emphasize either the study of enzymes or the action of chemical agents on enzymes.

230. Physical Measurement. (3) I.

The Staff (Strait in charge)

Lectures, 2 hours. Laboratory, 3 hours.

Prerequisite: Physics 2A-2B, 3A-3B, Chemistry 109A or Pharmaceutical Chemistry 130, Mathematics 16A-16B.

The theory and practice of physical measurements applied to the solution of research problems related to pharmaceutical chemistry and biophysics. Facilities for research in spectroscopy and in other fields will be studied.



For the number of graduate and upper division units that full-time graduate students and teaching assistants are permitted to take, consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

PHARMACOGNOSY**(PLANT SCIENCES)****UPPER DIVISION COURSES****100. Pharmacognosy. (3) II.**

Pratt

Lectures, 2 hours. Laboratory, 3 hours.

The study of drugs of plant and animal origin. Major emphasis is on the cell as a biosynthesizing structure, and its products. The physicochemical and physiologic properties of these products and the basis for their therapeutic, prophylactic, and other uses are stressed. Consideration also is given to gross and microscopical anatomic features, nomenclature, sources, habitat, production, storage, and constituents.

***112. Proseminar. (1) I or II.**

Pratt

Prerequisite: Pharmacognosy 100.

Reports and discussion of special topics relating to drugs of biologic origin. Emphasis is on recent developments.

Permission to enroll must be obtained from the instructor.

* Course with no final examination.

115. Antibiotics. (3) I.

Pratt

Lectures, 3 hours.

Prerequisite: Pharmacognosy 100, Microbiology 111, Chemistry 11A, 11B, 11C.

A consideration of the more prominent antibiotics, including discussion of their sources in nature, isolation and commercial cultivation of the producing organisms, isolation and chemical purification of the active agents, their chemistry, pharmaceutical preparations, and therapeutic applications. The broad concepts fundamental to the proper use of antibiotic agents of microbial origin are emphasized.

130. Insecticides, Fungicides, and Herbicides. (2) I.

Pratt

Lectures and demonstrations.

Prerequisite: Pharmacognosy 100, Chemistry 11A, 11B, 11C, Biochemistry 100 (completed or in progress).

A study of the principles applied in the control of detrimental organisms; the composition, uses, and standards of important synthetic and natural products used as insecticides, fungicides, and weed killers; pharmacology and toxicology of the above agents; and legal restrictions.

140. Antibiotics. (2) II.

Pratt

Lectures and conferences, 2 hours.

Prerequisite: Antibiotics 115, completed or in progress. For advanced students the prerequisite may be waived.

Advanced course in antibiotics: discussion of the chemistry and mechanism of action of antibiotics in general, and of the sources, properties, and applications of the less well-known antibiotics.

Permission to enroll in this course must be obtained from the instructor.

144. Powdered Vegetable Drugs and Spices. (3) I.

Pratt

Lecture, 1 hour. Laboratory, 6 hours.

Prerequisite: Pharmacognosy 100, Chemistry 11A, 11B, 11C.

The macro- and microanalysis of the more important powdered vegetable drugs and spices; detection of impurities and adulterants.

***199. Special Study for Advanced Undergraduates. (2-5) Either I or II.**

Pratt

Enrollment is limited to outstanding or specially qualified students.

Permission to enroll in this course must be obtained from the Dean of the School.

PHARMACOLOGY AND TOXICOLOGY**UPPER DIVISION COURSES****101. Pharmacology and Toxicology. (4) II.**

The Staff (Anderson in charge)

Lectures, 3 hours. Laboratory and demonstrations, 3 hours.

Prerequisite: Biochemistry 100, Physiology 105.

The composition, properties, physiological and toxicological action of drugs, and the purpose for which chemicals may be used in medicine are discussed. The relation between chemical constitution, physical properties, and pharmacological action is stressed. Principles of chemotherapy and an introduction to rational therapy by means of chemical and biologic agents are given.

102. Pharmacology and Toxicology—Laboratory. (1) II.

The Staff (Meyers in charge)

Prerequisite: Pharmacology 101 (lectures) completed or in progress.

Laboratory work in pharmacology.

Permission to enroll in this course must be obtained from the instructor.

* Course with no final examination.

- 105. Toxicology.** (1) I. The Staff (Hine in charge)
Lectures and demonstrations, 1 hour.
Prerequisite: Biochemistry 100; Physiology 105.
Lectures and demonstrations on the common household, industrial, agricultural, and economic poisons. The recognition and treatment of poisoning, with discussion of use and misuse of antidotes. The mode of action of poisons and their effects on the different tissues and systems of the body. The routes of absorption, metabolism, and excretion of poisons.
- *112. Proseminar.** (1) I. The Staff (Way in charge)
Informal reports on current studies in pharmacology, toxicology and experimental therapeutics once a week.
Permission to enroll in this course must be obtained from the instructor.
- †141. Biological Assay.** (2) I. The Staff (Way in charge)
Lecture, 1 hour. Laboratory, 3 hours.
Prerequisite: Pharmacology 101.
Biological methods used for the evaluation and standardization of pharmaceutical products.
Offered in alternate years.
- *199. Special Study for Advanced Undergraduates.** (1-5) Either I or II. The Staff (Way in charge)
Special experimental technique, quantitative pharmacology and bioassay, and principles of biochemorphology.

PHARMACY†

LOWER DIVISION COURSES

- 10A-10B. Orientation in Pharmacy.** (1-1) Yr. Brodie, Daniels and Eiler
Orientation to Pharmacy.
- 20. Introduction to Pharmacy.** (2) I. Nelson
Lectures, 2 hours.
The class will be given in two sections.
A study of the calculations involved in compounding and dispensing, and the classification of pharmaceutical products.

UPPER DIVISION COURSES

- 104. Inorganic Pharmaceuticals.** (2) II. Brochmann-Hanssen
Lectures, 2 hours.
A study of inorganic compounds used in pharmacy, with special consideration given to pharmaceutical preparations, their properties, specifications and uses.
- 105A-105B. Theoretical and Applied Pharmacy.** (5-4) Yr. Schwarz
Lectures, 3 and 2 hours. Laboratory, 6 hours.
Prerequisite: Chemistry 109A completed or in progress, Pharmacy 10A-10B, Pharmacy 20 and Pharmacy 104.
A study of the theoretical and practical aspects of pharmaceutical processes and of the manufacture, components and use of official and related preparations.
- *112. Proseminar.** (1-2) I or II. The Staff (Brodie in charge)
Pharmacy literature and newer developments in the field of pharmacy.
Normally open to second- and third-year students.

* Course with no final examination.

† Courses in pharmacy may be taken only by students registered in the School of Pharmacy.

‡ Not to be given, 1956-1957.

115A-115B. Prescription Study and Practice. (4-5) Yr. Brodie, Preston
Lectures, 2-3 hours. Laboratory, 6 hours.
Prerequisite: Pharmacy 105A-105B.

The course is intended to provide an application of the basic instruction in the biological and physical sciences as it relates to the compounding and dispensing of medicinal agents. Laboratory instruction is designed to study the regular disciplines of dispensing pharmacy, in addition to particular consideration of such specialized techniques as illustrated in ointment bases, ophthalmic solutions, parenteral solutions, etc.

122. History of Pharmacy. (2) II. Schwarz
Prerequisite: Pharmacy 115A-115B completed or in progress.

***199. Special Study for Advanced Undergraduates.** (2-5) Either I or II.
The Staff

Enrollment is limited to outstanding students. Permission to enroll in this course must be obtained from the Dean of the School.

PROFESSIONAL COURSES

405A-405B. Drug Product Formulation. (4-4) Yr. Riegelman
Lectures, 2 hours. Laboratory, 6 hours.
Prerequisite: Pharmacy 115A-115B.

A study of the principles involved in the development of medicinal products in suitable dosage forms. Special consideration is given to solubilization, dispersion, stabilization, and the role of vehicles in controlling the availability of drugs for absorption.

414. External Drug Products. (3) I. Riegelman
Lectures, 2 hours. Laboratory, 3 hours.
Prerequisite: Pharmacy 105A-105B.

Discussion and laboratory exercises on selected drug products intended for external application, and a survey of their ingredients, properties, methods of application, and uses.

424A-424B. Manufacturing Pharmacy. (3 or 4-3 or 4) Yr. Dean
Lecture, 1 hour. Laboratory, 6 or 9 hours.
Prerequisite: Pharmacy 105A-105B; Pharmaceutical Chemistry 120 completed or in progress.

A study of the methods of manufacture and control of pharmaceutical preparations on a semicommercial scale.

425A-425B. Seminar in Pharmacy. (1-1) Yr. The Staff (Brodie in charge)
Prerequisite: Pharmacy 115A-115B.

A discussion of selected and assigned topics of current scientific and professional interest.

434. Pharmaceutical Specialties. (2) I. Preston
Lectures, 2 hours.
Prerequisite: Pharmacy 105A-105B.

A discussion of currently used biological therapeutic agents with emphasis on hormones and vitamins.

435A-435B. Hospital Pharmacy. (3-3) Yr.
Lecture, 1 hour. Laboratory, 6 hours. Brodie, Preston, Marincik, Yalon
Prerequisite: Pharmacy 115A-115B.

Fundamentals of hospital pharmacy operation with emphasis on the relation of hospital pharmacy to over-all hospital operation. Special attention is given to management and business principles involved in hospital pharmacy operation.

* Course with no final examination.

- 445. Parenteral Products. (2-3) II.** Schwarz
Lecture, 1 hour. Laboratory, 3 or 6 hours.
Prerequisite: Pharmacy 115A.
An introduction to the technology of parenteral preparations and specific problems of parenteral formulation.
- 454. Veterinary Products. (2) II.** Brodie
Lectures, 2 hours.
Prerequisite: Pharmacy 105A-105B.
A survey of the drugs used in the control of diseases affecting farm animals.
- 455. Orientation in Medicine. (2) II.** Barbour
Lectures, 2 hours.
Prerequisite: Public Health 100, Pharmacy 115A-115B.
A series of lectures designed to acquaint the student with the problems inherent in the care of patients. The differential diagnosis of disease states will be outlined and the pharmacological and other therapeutic approaches to treatment will be discussed. Emphasis will be on the interrelationship of pharmacist and physician in the care of the patient.

PHARMACY ADMINISTRATION

UPPER DIVISION COURSES

- 103. Pharmacy Laws. (2) II.** Nemer
Lectures, 2 hours.
Consideration of the laws which relate to the practice of pharmacy and the legal responsibilities of the pharmacist; regulations relating to the standards and sale of drugs, licensing and taxation requirements. Some principles of commercial law.
- 112. Accounting. (2) I.** Nemer
Lecture, 1 hour. Laboratory, 2 hours.
The laboratory work is designed to give experience in bookkeeping and accounting procedures and in the preparation and analysis of financial statements.
- 124. Economics. (2) I.** Kendrick
Lectures, 2 hours.
General principles of economics with emphasis on application to problems of pharmacy. Students who have completed Economics 1A-1B should consult the instructor before enrolling.
- 134. Business Administration (Drug Store Management). (2) II.** Kendrick
Lectures, 2 hours.
Prerequisite: Pharmacy Administration 124, Economics 1A-1B, or permission to enroll from the instructor. Open to students in the third and fourth years of the professional curriculum.
Principles of retailing, specially directed toward developing familiarity with current problems peculiar to drug store operation. Attention is paid to elements in locating, organizing, operating, and adapting a drug retail establishment.
- 144. Business Administration (Marketing). (2) II.** Kendrick
Lectures, 2 hours.
Prerequisite: Pharmacy Administration 124, Economics 1A-1B, or permission from the instructor.

A study of the flow of goods significant to the drug industry with analysis of functions performed by manufacturers, wholesalers, and retailers and of decisions concerning price and agency structure. Public and private regulation, technological innovations, and changes in markets will be considered as influences upon market structure and behavior.

COURSE IN ANOTHER DEPARTMENT OF THE UNIVERSITY

Economics 1A-1B (3-3).

PHYSIOLOGY

UPPER DIVISION COURSE

105. **Physiology.** (4) II.

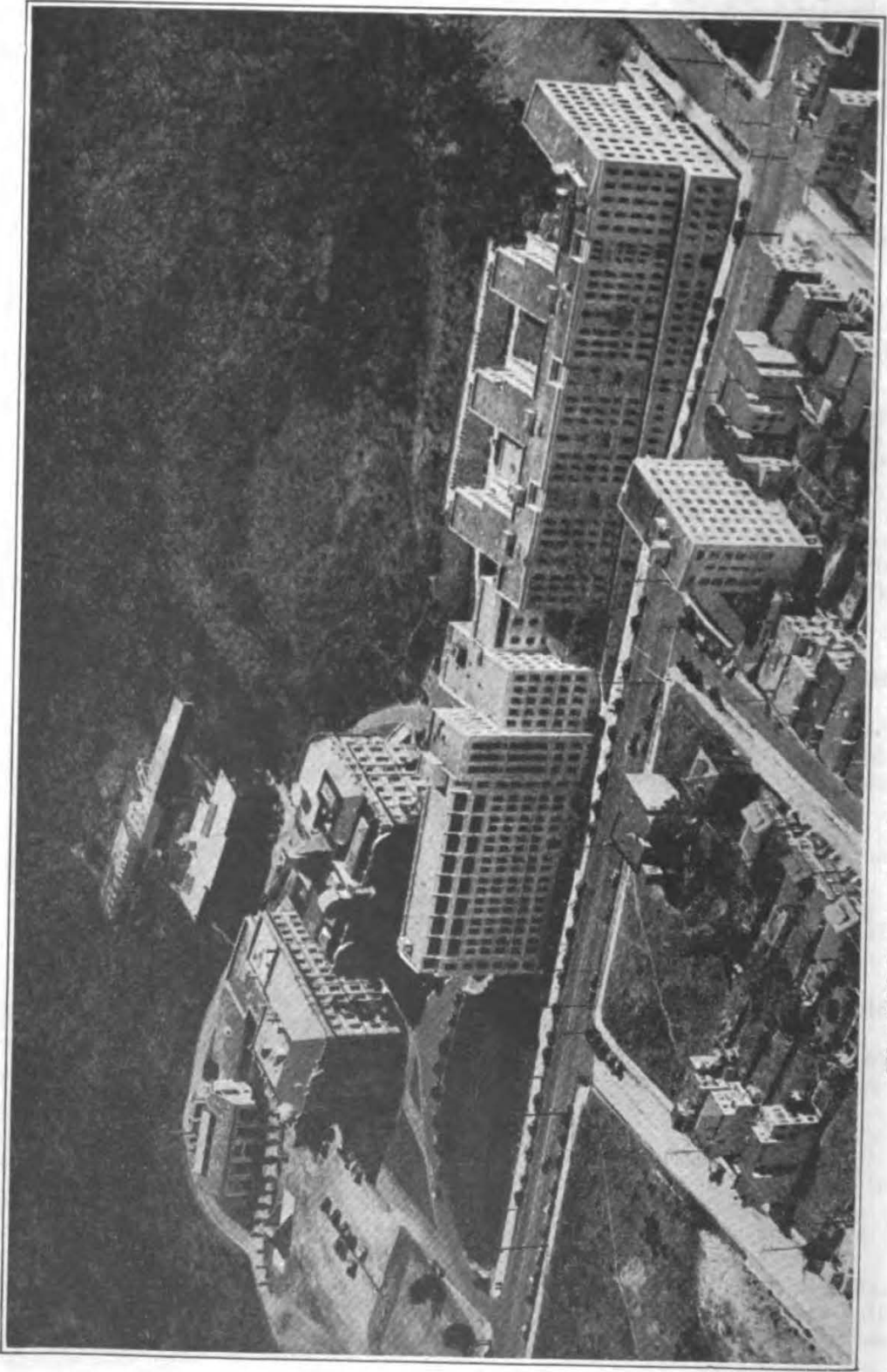
Libet, Ganong

Lectures: 4 hours.

An introduction to the study of the mechanisms by which living organisms function, especially as related to the human body; the interaction of the internal and external environments of the organism and the responses to changes in these; excitation, transmission, muscle, central and autonomic nervous system, body fluids and blood, circulation, respiration, gastrointestinal function, excretion, and endocrine actions. Development of some familiarity with scientific method.

COURSES IN ANOTHER DEPARTMENT OF THE UNIVERSITY

Physiology 112 (3), 100A (3), 100B (3), 110A-110B (3-3).



The Old University of California Medical Center in San Francisco

GENERAL UNIVERSITY REGULATIONS

The following regulations governing attendance and study in the School of Pharmacy conform with similar regulations adopted by the Academic Senate for students in all departments of the University.

REGISTRATION

No student in the School of Pharmacy may undertake any work or examination for credit toward a University degree without registration with the Recorder of the Medical Center campus for such work or examination. His registration must be approved by the faculty adviser and be accepted by the Dean of the School before the proposed work may be undertaken.

Any qualified student who fails to register at the time and place designated may register within two weeks after the registration date, provided he obtains the written approval of all instructors in charge of his proposed courses and the written approval of the Dean. The fee for late registration is \$2.

The names of students who fail to comply with the regulations governing registration will not appear on the official class rolls.

No person will be admitted as a student to the exercises of any instructor, except as authorized by the official certificate of registration approved by the Dean or the faculty adviser.

After study cards are filed, students are given an opportunity to discontinue any course or courses, provided a formal petition, obtained from the Office of the Recorder, duly approved by the instructors concerned, is approved by the Dean not later than the third Tuesday following the first day of instruction and filed in the Office of the Recorder. After the expiration of this period, students who discontinue a course are considered to have been dropped from the course and are subject to scholarship penalty.

For registration in the prepharmacy curriculum at Berkeley or Los Angeles consult the CIRCULAR OF INFORMATION, BERKELEY, or the ANNOUNCEMENT OF COURSES AND CURRICULA, LOS ANGELES.

STUDENT HEALTH SERVICE

The purpose of the Student Health Service is to conserve the time of students for their classwork and studies, by preventing and protecting them from developing acute illnesses and treating them if such occur. To this end routine physical examinations, tuberculin tests, chest X rays and a full program of immunization are required for each student. *Initial registration and renewal of registration are contingent upon fulfilling these requirements when students are notified of appointments for such examinations.*

Each registered student at San Francisco may at need, have such consultations and medical care on the campus as the Student Health Service is staffed and equipped to provide, from the time of approval of his registration to the last day of the current semester. Surgical treatment is also included in the services when, in the opinion of the Director of Student Health Service, this service is necessary and within the limitations herein outlined. During the semester hospital care for a period of thirty days may be given in the event of serious illness, on the recommendation of the Director of Student Health Service. The Student Health Service does not take responsibility for chronic physical defects or illnesses present at the time of entrance to the University.

If illnesses are of a nature requiring long, continued care so that the student may not be able to return to classes during the current semester or if at the end of the semester the student is still ill, he will be released to his home or his community as soon as the Director of Student Health Service considers

it safe. Additional charges may be made for unusual appliances or remedies not ordinarily available or for hospitalization in excess of thirty days, if need be.

Dental services are not furnished by Student Health Service. However, dental care is provided at very reasonable rates by appointment with the dental externs. Consultation with members of the staff of the College of Dentistry and facilities of the Dental Outpatient Department are available.

Students who are registered on the Berkeley campus come under the scope and care on that campus as the Ernest V. Cowell Memorial Hospital is staffed and equipped to provide with the approval of the University Physician on that campus.

MEDICAL AND PHYSICAL EXAMINATION

All new students (graduate and undergraduate) just after filing their registration papers on the San Francisco campus must report to the Student Health Dispensary for smallpox vaccination regardless of previous vaccination, and must pass a medical and physical examination given by a member of the Student Health Staff before final acceptance is approved. A full program of immunization for diphtheria, tetanus and typhoid as well as tests for tuberculosis, by the Student Health Staff, is also required. Final acceptance of applicants is contingent upon fulfilling these requirements to the end that the health of the University community as well as the individual student may be safeguarded. Medical and physical examinations and immunizations and tests in advance of registration are not required and certificates of same will not be recognized by Student Health Service.

Before coming to the University, every student is urged to have his own physician and dentist examine him for fitness to carry on his professional training at the University and to have all physical defects capable of remedial treatment, as diseased tonsils, defective vision, dental defects, etc., corrected. Correction of such handicaps prior to registration will appreciably help to prevent loss of time from classes during the school year. Students having handicapping physical conditions such as chronic eczema, convulsive disorders, etc., should not apply for admission.

CREDIT AND SCHOLARSHIP

Units of Credit.—Both matriculation and University work are measured in "units." In the University a unit is one hour weekly of a student's time at the University for the duration of one semester, in lecture or recitation, together with the time necessary for preparation, or a longer time in laboratory or other exercises not requiring outside preparation. Credit for 129 units, distributed in accordance with the requirements of the School, is required for any degree in pharmacy.

Grades of Scholarship.—The final result of the student's work in every course of instruction is reported to the Recorder of the Medical Center campus in six grades, four of which are passing grades, as follows: A, excellent; B, good; C, fair; D, barely passing; E and F, not passing. Grades are not otherwise defined, as for example, by percentages or by a rule stipulating the manner in which the several grades are to be distributed.

Grade E (not passing) indicates a record below passing but one which may be raised to a passing grade without repetition of the course by passing a further examination or by performing other tasks required by the instructor. Grade F (not passing) denotes a record so poor that it may be raised to a passing grade only by repeating the course.

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

In the School of Pharmacy, as in all the colleges and schools at Berkeley, grade points are assigned to each scholarship grade, as follows: A, 3 points a unit; B, 2 points a unit; C, 1 point a unit; D, E, and F, no points.

In order to qualify for a degree in the School of Pharmacy, the student must have attained at least as many grade points as there are units in the credit value of all courses undertaken by him while enrolled in the School or College of Pharmacy. The total number of grade points corresponding to the number of required units must not be less than 129.

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

Every student who desires to obtain his scholarship grades at the end of the semester should deposit a self-addressed stamped envelope with the Recorder of the Medical Center campus. The grades will be mailed to the student.

REMOVAL OF SCHOLARSHIP DEFICIENCIES

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

A student in the School of Pharmacy who has received grade D, E, or F in an upper division professional course may, upon successful repetition of the course and with the approval of the instructor concerned and the Dean of the School, receive the grade assigned by the instructor and petition to receive grade points appropriate thereto. Petitions may be obtained from the Office of the Recorder.

Special provision is made for students whose University work has been interrupted by one year or more of service with the armed forces of the United States and who, prior to such service, had undertaken one or more courses forming part of an announced sequence of courses. Such a student may, with the approval of the dean of his college or school (or, in the case of graduate students, with the approval of the Dean of the Graduate Division concerned), be permitted to repeat any course previously undertaken in the sequence, irrespective of the grade previously assigned, and to receive the new grade assigned by the instructor and grade points appropriate thereto; provided, however, that for a course so repeated the student may receive unit credit toward graduation, or toward the satisfaction of major requirements, only in an amount not to exceed the difference between the full unit value of the course and the number of units, if any, which he has previously received from the same course.

For the purpose of raising grade E to a passing grade the student may, with the consent of the instructor and of the Dean of the School, have the privilege of a "condition examination."

Any examination, term paper, or other exercise which the instructor may require in order for the student to have grade E raised to a passing grade in a course is a "condition examination." For every such examination a formal permit, to be obtained in advance from the Recorder of the San Francisco campus, must be shown to the instructor in charge; otherwise the instructor will lack authority to consider and report upon the work submitted by the student. There is a fee of \$2 for every permit (\$3 if the permit is for two or more examinations), except that there is no fee for a reexamination (final examination taken with the class), if the final examination is the only task required by the instructor of the student for the purpose of raising grade E to a passing grade, and if this final examination is taken with the class not

later than the close of the next succeeding semester of the student's residence in which the course is offered. A form of petition for a condition examination, with instructions concerning procedure, may be obtained from the Recorder of the San Francisco campus. Grade E received in a course in which a final examination is regularly held can be raised to a passing grade only by passing a satisfactory final examination in the course.

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

A student who raises grade E or F, incurred in an upper division or graduate course, to a passing grade by *successful repetition* of the course, and a student who raises a grade E, incurred in any course, lower division, upper division, or graduate, to a passing grade by *examination* or by performing other tasks required by the instructor (short of actual repetition of the course), shall ordinarily receive no grade points. An exception to this rule is permitted, however, when the deficiency consists solely in the *omission* of the final examination or other required exercises because of illness or other unavoidable circumstances, the student's performance in all other respects having been satisfactory. Further, it is to be noted that a student in the School of Pharmacy who has received grade D, E, or F in an upper division professional course may, upon successful repetition of the course and with the approval of the instructor concerned and the Dean of the School, receive the grade assigned by the instructor and the grade points appropriate thereto. Under these circumstances the student may petition to have the grade assigned that would have been assigned by the instructor if the completion of the work had not been delayed. The petitioner must set forth in detail the circumstances that made it impossible for him to complete the course within the usual limit of time. The petition must be endorsed by the instructor concerned, and must be submitted for final approval to the Dean of the School or his authorized representative.

EXAMINATIONS

No student will be excused from examinations. A student tardy at an examination will be debarred from taking it, unless an excuse for the tardiness, entirely satisfactory to the examiner, is given.

A \$2 fee is charged for every reexamination or deferred final examination. Students taking two or more such examinations in courses taken during *any one semester* will be charged not to exceed \$3. Reexaminations are permitted only for the purpose of raising grade E (not passed) to a passing grade. A student who has received grade B, C, or D in a course is not allowed reexamination for the purpose of raising the grade.

Petition for a reexamination or a deferred final examination should be made on a blank which may be obtained from the Office of the Recorder, San Francisco campus.

MINIMUM SCHOLARSHIP REQUIREMENTS

A student who fails to maintain at least a C average, may, by the proper authority, be (1) warned, (2) assigned to a special adviser, (3) limited with respect to his study list, or (4) placed on probation.

Probation.—A student on the Berkeley or the Los Angeles campus of the College of Pharmacy will be placed on probation (a) if at the close of his first semester his record shows a deficiency of six or more grade points; or (b) if at the close of any subsequent semester, his grade-point average is less than one (a C average), computed on the total of all courses undertaken in this University for which he has received a final report.

A student on the San Francisco campus of the School of Pharmacy will be placed on probation if at the close of *any* semester his record shows a grade-point average of less than one (a C average) *computed on the total of all courses undertaken in the School of Pharmacy at San Francisco* for which he has received a final report.

A student who, at the end of any academic year, has attained fewer grade points than units, may be required to pass an examination in all subjects undertaken by him during the year or previous years before being permitted to continue his studies.

Dismissal.—A student on the Berkeley or Los Angeles campus of the College of Pharmacy becomes subject to dismissal from the College of Pharmacy (a) if during any semester he fails to pass with a grade of C or higher courses totaling at least 4 units; or (b) if while on probation his grade-point average for the work undertaken during any semester falls below one (a C average); or (c) if after two semesters of probationary status he has not obtained a grade-point average of at least one (a C average), computed on the total of all courses undertaken in this University for which he has received a final report.

A student on the San Francisco campus of the School of Pharmacy will be subject to dismissal (a) if he fails to maintain a grade point average of at least one (a C average) for two out of three consecutive semesters; or (b) if during any semester he fails to pass with a grade of C or higher courses totaling at least 6 units; or (c) if during any three consecutive semesters he receives a total of 6 or more units of grade F in courses which the faculty of the School regards as a test of professional competence.

A student in the School or College of Pharmacy who becomes subject to the provisions of this regulation shall be under the supervision of the faculty of the School. The faculty, or persons designated by it, shall have the power to dismiss from the University students under its supervision, or to suspend the provisions of this regulation and permit the retention in the University of the students thus subject to dismissal, and the return to the University of students who have been dismissed under this regulation.

Any student who receives a notice of dismissal may petition the Dean of the School for a hearing. Ordinarily, however, students dismissed for unsatisfactory scholarship will be excluded from the University for an indefinite period, with the presumption that their connection with the University will be ended by such exclusion.

LEAVE OF ABSENCE AND HONORABLE DISMISSAL

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

Petition forms for leaves of absence and honorable dismissal may be obtained from the Recorder of the San Francisco campus.

A student must apply for leave to be absent, or excuse for having been absent from any college exercise other than a final examination, to the instructor in charge of the exercise; unless, for unavoidable cause, the student is obliged

to absent himself from all college exercises for one day or for several days, in which event he should apply for a brief leave of absence as directed above.

An *honorable dismissal* or an *indefinite leave of absence* may, upon petition, be issued to any student in good standing, provided he complies with the instructions on the form of petition, which may be obtained from the Recorder of the San Francisco campus.

A student is in good standing if he is entitled to enjoy the normal privileges of a student in the status in which he is officially registered. Students disqualified because of scholarship deficiencies, students on probation, students under censure, and students under suspension are not regarded as students in good standing.

Refunds.—For students who leave before the end of any semester, part of the fees may be refunded. A schedule of refunds and other information will be found in a separate circular, **STUDENT FEES AND DEPOSITS**, which may be obtained from the Office of the Recorder, San Francisco campus.

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

DISCIPLINE

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

Students who violate the laws regulating the practice of pharmacy are subject to discipline.

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

Student Self-Government.—The Student Council of the School of Pharmacy, the executive body of the Associated Students of the University of California School of Pharmacy, is charged with the responsibility of advising the Dean of the School of Pharmacy on matters pertaining to student conduct and of making specific recommendations concerning disciplinary actions deemed to be appropriate in individual cases. It is also responsible for developing a program for creating among the students attitudes and opinions favorable to good conduct.

AUTHORITY OF INSTRUCTORS

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

Every student is required to attend all of his class exercises and to satisfy the instructor in each of his courses of study, in such ways as the instructor may determine, that he is performing the work of the course in a systematic manner. Instructors will report to the Dean, from time to time, the names of students whose attendance or work is unsatisfactory.

Any instructor, with the approval of the Dean, may at any time exclude from his course any student guilty of unbecoming conduct toward the instruc-

tor or any member of the class, or any student who, in his judgment, has neglected the work of the course. A student so excluded will be recorded as having failed in the particular course, unless the faculty determines otherwise.

Instructors have no authority to change the grade of any student after the grade has been reported to the Recorder. A student's grade may be changed only by consent of the President of the University.

Other General Requirements.—The attention of the student is directed to further University regulations concerning the requirements in scholarship, and for candidacy for degrees (see also the CIRCULAR OF INFORMATION, BERKELEY).

TRANSFERS FROM OTHER COLLEGES OR SCHOOLS OF PHARMACY

A student from another college or school of pharmacy in which he has been in good standing who desires to transfer to the School of Pharmacy of the University of California must present credentials to the Office of Admissions, Room 62A, University of California Hospital, University of California Medical Center, San Francisco 22, California, showing the courses which he has completed in the institution from which he desires to transfer. Credit for work taken in another college or school will be granted for such courses as are equivalent to those given in the School of Pharmacy of the University of California, provided the institution from which he desires to transfer has the same or higher requirements for admission as the University of California. Examinations in subjects for which the student requests credit may be required of applicants for advanced standing. Students thus admitted must spend at least the fourth year and take not less than 24 units of work at the School of Pharmacy of the University of California in order to become eligible for the degree Doctor of Pharmacy.

A student from a foreign university will not be admitted unless he has an adequate knowledge of the English language.

HONORS

Students who, at the end of the first year, have an average of at least 2 grade points for each unit of work taken will be included in the honor list. Such students may elect additional courses over and above those which are prescribed. The total number of units, however, must not exceed 18. This privilege will be granted during the subsequent years as long as the student maintains an average grade of at least B.

On recommendation of the faculty of the School, students who have completed the course in pharmacy with distinction will be recommended for distinction at graduation. Normally, no student will be considered by the faculty of the School as a candidate for graduation with honors unless he has attained, on an average, not less than 2.25 grade points for each unit of work in the University.

Students who have displayed marked superiority may be recommended for University highest honors.

MISCELLANEOUS INFORMATION

LIBRARIES

The Library of the University of California Medical Center on the San Francisco campus is an extensive collection of monographic and periodic literature in the health sciences comprising the collections of the College of Dentistry, School of Medicine, School of Nursing, School of Pharmacy, the various small departmental working collections, and that of the George William Hooper Foundation in the special fields of bacteriology, public health, and veterinary medicine. The collection in the health sciences contains over 110,000 volumes, and some 41,000 foreign university medical dissertations. Approximately 1,640 leading periodicals of the world in the health sciences are received currently and complete sets of most of the important journals are on file.

The principal collection is housed in the south wing of the Medical School Building. The pharmacy collection is located on the second floor of the Medical Sciences Building. Some library facilities are provided for staff and students in the San Francisco Hospital. A small collection of neurological and psychiatric reference material in the Langley Porter Clinic is also available to students, faculties, and research workers.

A special room houses the historical collection. Of particular interest is the material on the history of anesthesia, medical Californiana, the Osler Collection, medical portraits and prints, and several manuscripts.

Libraries of the several campuses of the University of California are open to students, research workers and faculty members of the University of California Medical Center, San Francisco.

Library materials not available on the San Francisco campus may be requested on interlibrary loan by faculty members and research workers through the Medical Center Library.

A professional library staff is available to assist staff, faculty members, students, and research workers of the professional schools, University hospitals and clinics, research foundations and special research projects of the University of California Medical Center, San Francisco campus.

Medical Center Library—Second Floor, Medical School Building

Monday through Friday—8 a.m.—10 p.m.

Saturday—8 a.m.—5 p.m.

Sunday—10 a.m.—3 p.m.

School of Pharmacy Collection—Second Floor, Medical Sciences Building

Monday through Friday—8 a.m.—5 p.m.

ADMISSION OF STUDENTS IN OTHER SCHOOLS OR COLLEGES OF THE UNIVERSITY TO COURSES GIVEN IN THE SCHOOL OF PHARMACY

A limited number of students who are enrolled in other schools or colleges of the University will be permitted to enroll in certain of the courses offered in the School of Pharmacy, provided the student has the necessary prerequisites to the courses which he desires to take. For further information the student should apply at the Dean's Office.

LIVING ACCOMMODATIONS

For a statement concerning *living expenses* in Berkeley the student should consult the CIRCULAR OF INFORMATION, BERKELEY; for expenses in Los Angeles, consult the ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES.

For the convenience of students on the San Francisco campus the Office of the Dean of Students maintains a list of rooms (some with kitchen privileges), apartments, and flats. It is necessary for the prospective tenant to interview the householder personally, since it is not possible for the Office of the Dean of Students to make reservations. It is suggested that students visit the Office of the Dean of Students, Room 52, University of California Hospital Building, a week or so before the beginning of the semester and examine the listings of accommodations. Because of the demand for family-type quarters, it is advisable for married students, especially if they have children, to begin making arrangements early for housing. The average cost of board and room is \$85 a month.

EDUCATIONAL VISITS

Educational visits may be arranged by instructors. These visits are entirely at the option of the student. Since educational visits are not required and no credit is offered, the School of Pharmacy assumes no responsibility in offering these additional facilities and opportunities.

ORGANIZATIONS

American Pharmaceutical Association.—The American Pharmaceutical Association is a national organization of pharmacists and others directly interested in pharmacy. Its aim is the establishment and improvement of professional standards both in education and in the practice of pharmacy. Students are encouraged to take part in the activities of the local Student Branch of the association.

California Pharmaceutical Association.—The California Pharmaceutical Association, together with a number of its women's auxiliary chapters, has sponsored scholarships for needy, qualified students in the School of Pharmacy. Membership in this organization is open to graduates of the School of Pharmacy.

Alumni Association.—The University of California Alumni Association is open to all graduates of the University and offers an opportunity to the graduate for continuing contact with the progress and activities of the University. Members of the Association who are graduates of the School of Pharmacy may also belong to the *Pharmacy Chapter* of the association. The Pharmacy Chapter contributes a number of scholarships for needy and promising students in the School of Pharmacy.

Rho Chi.—The Rho Chi Society, national pharmacy honor society, maintains a chapter on the San Francisco campus. Third- and fourth-year students who show promise of graduating with honors may become members upon the invitation of the chapter.

Sigma Xi.—The Society of Sigma Xi maintains a chapter on the Berkeley campus of the University. Membership in this organization is open upon invitation to advanced students who have shown aptitudes in scientific research.

STUDENT EMPLOYMENT

Although it is possible for students to obtain outside employment while attending college, they are strongly advised to devote their entire time to the requirements of the School. Students who find it necessary to seek part-time employment should limit their study lists to 12 units a semester.

The student should be prepared to pay his tuition and purchase his textbooks, syllabi, and such additional equipment as may be required, at the beginning of the semester. Textbooks and other college supplies may be purchased at the Associated Students' Store, in the basement of the Medical School Building.

VETERANS AFFAIRS

The Office of the Dean of Students maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits; and assists veterans in becoming assimilated into the life and spirit of the University. On the San Francisco campus, this office is located in Room 52, University of California Hospital. Offices of the United States Veterans Administration are located as follows:

Regional Office, 49 Fourth Street, San Francisco 3

Regional Office, 1380 South Sepulveda Boulevard, Los Angeles 25

Regional Office, 325 B Street, San Diego 1

Veterans wishing to enroll under the provisions of Public Law 550 ("Korean" G.I. Bill) should obtain from the United States Veterans Administration a Certificate for Education and Training which should be filed with the Office of the Dean of Students upon completion of registration. These veterans must be prepared to pay all fees and educational costs at the time of registration as education and training allowances are paid to the veteran by the Veterans Administration. The first monthly payment will normally be received 60 to 75 days after compliance with the above.

Information regarding educational benefits available from the State of California (CVEI) may be obtained from the State Department of Veterans Affairs located at 711 N Street, Sacramento, California; or by writing either to 357 South Hill Street, Los Angeles, California or 515 Van Ness Avenue, San Francisco, California.

SCHOLARSHIPS

Application for scholarships should be made through the Office of the Dean of the School of Pharmacy, on blanks provided for this purpose. The closing date for filing applications for scholarships to be awarded by the School of Pharmacy for 1957-1958 will be March 1, 1957. For closing dates for other scholarships consult the Dean of Students of the Medical Center.

In making awards, the Committee on Scholarships considers scholastic standing, financial need, and professional promise. Normally, to be eligible for a scholarship in the School of Pharmacy a student must have completed at least one semester of residence in the School on the San Francisco campus. For purposes of determining the scholastic standing of students, the grade-point average is calculated on the basis of work taken on the San Francisco campus.

Scholarships Awarded by the School of Pharmacy

The Barnes-Hind Scholarship. The Barnes-Hind Laboratories offer an annual scholarship of \$500 for properly qualified students in the School of Pharmacy. Selection of the recipient by the Scholarship Committee is based on scholarship, character, professional promise, and the financial need of the applicant. At the discretion of the Committee this scholarship may be divided into two awards of \$250 each.

The Henry Benjamin Carey Scholarship of \$500 is given by the Cutter Foundation of Berkeley, California, in memory of the late Acting Dean H. B. Carey and is awarded to a senior student on the recommendation of the scholarship committee of the faculty of the School of Pharmacy.

The Coffin-Redington Company, Division of Brunswick Drug Company, Scholarship. The Coffin-Redington Company offers annually an award of \$500 to a student in the School of Pharmacy, University of California, who is within one year of completing the requirements for graduation and who is largely interested in retail pharmacy. The award is made on the basis of

character, professional promise, scholarship and need. The purpose of the scholarship is to help a worthy student and to contribute to the improvement of pharmacy and its services to the community.

Pharmacy Foundation Scholarships. The Board of Grants of the American Foundation for Pharmaceutical Education provides two scholarships of \$200 each. The scholarships are awarded on a basis of scholarship, promise, and need to the applicants who, in the opinion of the Scholarship Committee, show greatest merit.

State of California Scholarship yields \$300 per annum. At the discretion of the committee, this scholarship may be divided into two awards of \$150 each.

The Ladies Auxiliary of the California Pharmaceutical Association Scholarship yields \$300. The scholarship is awarded to a worthy junior or senior student whose high school work was completed in California.

The Bear Photo Service Scholarship yields \$50 per annum. The scholarship is awarded on the basis of scholarship, promise, and need. The award is provided by the Bear Photo Service in memory of Mr. Albert A. Hansen. At the discretion of the committee, this scholarship may be awarded in alternate years, providing a fund of \$100.

University of California Alumni Association, Pharmacy Chapter Scholarship of \$100 is provided by the Pharmacy Chapter of the University of California Alumni Association. It is awarded on the basis of scholarship, promise, and need.

The Pharmaceutical and Physical Chemistry Scholarship provided by Mr. Kenneth B. Bowerman yields \$100. It is awarded on the basis of scholarship, promise, and need.

The Pharmacy Scholarship Fund was established jointly by the San Francisco Retail Druggists' Association and the Alameda Pharmaceutical Association, in order to encourage scholarship and studies of an investigative nature. The annual income from this fund (which amounts to approximately \$90) is awarded in whole, or in part to the student who, in the judgment of the faculty, merits the scholarship.

Other Scholarships

The LaVerne Noyes Scholarship Fund was established for the benefit of veterans of World War I and their descendants. Such veterans must have served in the Army or Navy of the United States for at least three months during the United States' participation in World War I, the date of entry into active service being prior to July 1, 1918, unless the service was overseas. Recipients must be citizens of the United States, and preference is given to children of veterans who lost their lives in action in World War I. The scholarship consists of the remission of the incidental fee of \$84 for the year.

The Werner R. Scott Scholarship, established in 1945 from the estate of Werner R. Scott, is available on any campus of the University to undergraduate students who are worthy, faithful, and needy Caucasian residents of the Territory of Hawaii. This award yields approximately \$500.

PRIZES

The Bacon Prize, maintained by the Women's Pharmaceutical Association of the Pacific Coast in honor of Mr. Gaston E. Bacon, consists of a copy of a pharmaceutical book. It is awarded to the student who at the end of the first year has attained the highest scholastic record.

The Borden Graduate Award in Pharmaceutical Chemistry is an award of \$500 provided by the Borden Foundation to assist a qualified graduate of this School in graduate studies related to pharmaceutical chemistry. Normally, the award will be made to the student who has achieved the highest scholarship average in the professional curriculum at the time of graduation.

The O. C. Hansen Memorial Plaque is awarded to the senior student who maintains the highest scholarship throughout his four years of study in pharmacy. The award is provided by the Bear Photo Service in memory of Mr. O. C. Hansen, the founder.

The Lehn and Fink Gold Medal maintained by the Lehn and Fink Products Corporation is awarded to the graduating senior, chosen by the Dean or the faculty, who has done the best work in his college courses, or in a thesis, or both.

The Merck Award has been established by Merck and Company, Rahway, New Jersey. It consists of a copy of each of the following books: *The Merck Index*, latest edition, *The Merck Manual of Therapeutics and Materia Medica*, and *Reagent Chemicals and Standards*, by Joseph Rosin. One award will be made to the student who has obtained the highest grades in Pharmacy 115A-115B and the other to the student who has obtained the highest grades in Pharmaceutical Chemistry 110A-110B.

The John Walter Millar Award in Pharmacy Administration is made each year to the student who has demonstrated the highest scholarship in Pharmacy Administration. The award consists of a plaque on which the name of the recipient is inscribed.

The Hugh O'Connor Prize. The interest, amounting to approximately \$50, on a fund donated in memory of Hugh O'Connor will be awarded to the student who in the opinion of the committee submits the best essay in the field of pharmacy. A committee of the faculty will examine all essays submitted and select the prize essay. The committee reserves the right to reject all essays in the event that no meritorious essays are submitted. The winning essay may, at the discretion of the Committee, be submitted for publication in the *PACIFIC DRUG REVIEW*. This prize is awarded in alternate years.

The Phi Delta Chi Cup is sponsored by the Phi Delta Chi Fraternity. Annually the name of the student from the junior class who has the highest scholarship record is engraved on the cup.

LOAN FUNDS

All loan funds for schools and colleges on the San Francisco campus are administered by the Loan Fund Committee to which application should be made on forms available in the Dean's Office. Generally, it requires five to ten days for applications to be processed and for money to be made available to applicants. The committee's representative for the School of Pharmacy is Professor Robertson Pratt, from whom students registered in the School of Pharmacy may obtain further information. Students are also invited to obtain information from the Office of the Dean of Students, Room 52, University of California Hospital.

School of Pharmacy Loan Funds

The following loan funds are available to needy students in good standing in the School of Pharmacy:

The California Club of California has established a loan fund which is available to all students in the School of Pharmacy.

The Ladies' Auxiliary of the Santa Clara County Pharmaceutical Association has established a loan fund which is available to any student in good standing in the School of Pharmacy.

The Peninsula Women's Auxiliary of the California Pharmaceutical Association has established a loan fund which is available to students in good standing in the School of Pharmacy.

Pharmacy Chapter of the University of California Alumni Association, established by the Pharmacy chapter, available only to students registered in the School of Pharmacy.

The San Francisco Ladies' Auxiliary of the California Pharmaceutical Association has established a loan fund which is available to any student in good standing in the School of Pharmacy.

The Stockton Pharmacists' Wives' Association maintains a loan fund available for the financial assistance of any student in good standing in the School of Pharmacy.

The Women's Auxiliary of the Alameda County Pharmaceutical Association maintains a loan fund available to students in the School of Pharmacy.

Medical Center Loan Funds

The following loan funds are available to any student on the San Francisco campus of the University of California:

The California Federation of Women's Clubs, established by the Junior Membership for the benefit of women students who have completed one year of college work, have at least a grade C average, and have a definite need for financial assistance. Loans shall not exceed \$100 per year and the total loan per applicant shall not exceed \$300. A repayment schedule is specified. This loan fund is open to any student on the San Francisco campus who meets the requirements.

Marie Weldt Hollingsworth Memorial, established by the California Alumni Association, is available to any student on the San Francisco campus.

Jugoslav Student Loan Fund, open to students of Yugoslav parentage, the term being extended to include South Slavic people and not merely those limited to the country known as Jugoslavia.

Martin A. Meyer Loan Fund, for Jewish students.

James P. Tolman Loan Fund, restricted to graduate students.

Loan Fund Pool Reserve, San Francisco campus.

INTERNSHIPS AND RESIDENCIES IN THE PHARMACY OF THE UNIVERSITY HOSPITAL

The University Hospital offers appointments as Interns and Residents in Hospital Pharmacy to graduates of an accredited college of pharmacy. These appointments are offered as a continuation of the educational program in the science of pharmacy, particular emphasis being placed on pharmacy as actually practiced in the modern general hospital.

Appointees must hold a bachelor's degree in pharmacy or its equivalent and are required to register for a minimum of six units per semester. Appointees who have no major academic deficiencies can normally be expected to satisfy the requirements either for the degree of Doctor of Pharmacy or for the degree of Master of Science in Pharmaceutical Chemistry (Plan II) in a two-year period (4 semesters).

1. The appointments are on a yearly basis. Applicants shall obligate themselves not to resign for any reason except that of illness.

2. Appointees must have graduated from an accredited school or college of pharmacy.

3. Interns in Hospital Pharmacy are required to complete an approved course of study leading to the degree Doctor of Pharmacy or, if registered in the Graduate Division, Master of Science in Pharmaceutical Chemistry.

4. Interns will receive the following remuneration from the Hospital:

- a) \$1,700 per year payable in twelve monthly installments. This includes a yearly stipend of \$600 and \$1,100 to cover living expenses which may be used in any manner decided by the intern to pay for meals, quarters and laundry.

- b) Paid tuition:
 Residents.....minimum \$102 per semester.
 Nonresidents.....minimum \$147 per semester.
- c) Student Health Service.
- d) Two weeks' vacation per year.

Hospital Pharmacy Assistant Resident and Resident appointments are open to those who have completed an internship. Assistant Residents will receive \$2,144 per year payable in twelve monthly installments. This includes a yearly stipend of \$1,044 and \$1,100 to cover living expenses, which may be used in any manner decided by the Assistant Resident to pay for meals, quarters and laundry. Residents will receive \$2,840 per year, payable in twelve monthly installments. This includes a yearly stipend of \$1,740 and \$1,100 to cover living expenses, which may be used in any manner decided by the Resident to pay for meals, quarters and laundry

5. The interns shall spend approximately half time in the actual practice of the operation of the Hospital Pharmacy. This practice will include the extemporaneous preparation of sterile solutions, the filling of medications both for hospital and out-patients, the filling and controlling of ward stocks of narcotics, intravenous solutions, and other medications, the full opportunity for acquaintance with other operating departments of a hospital by means of discussions presented by those in charge of these departments, and the opportunity of observing the purchasing and placing of orders.

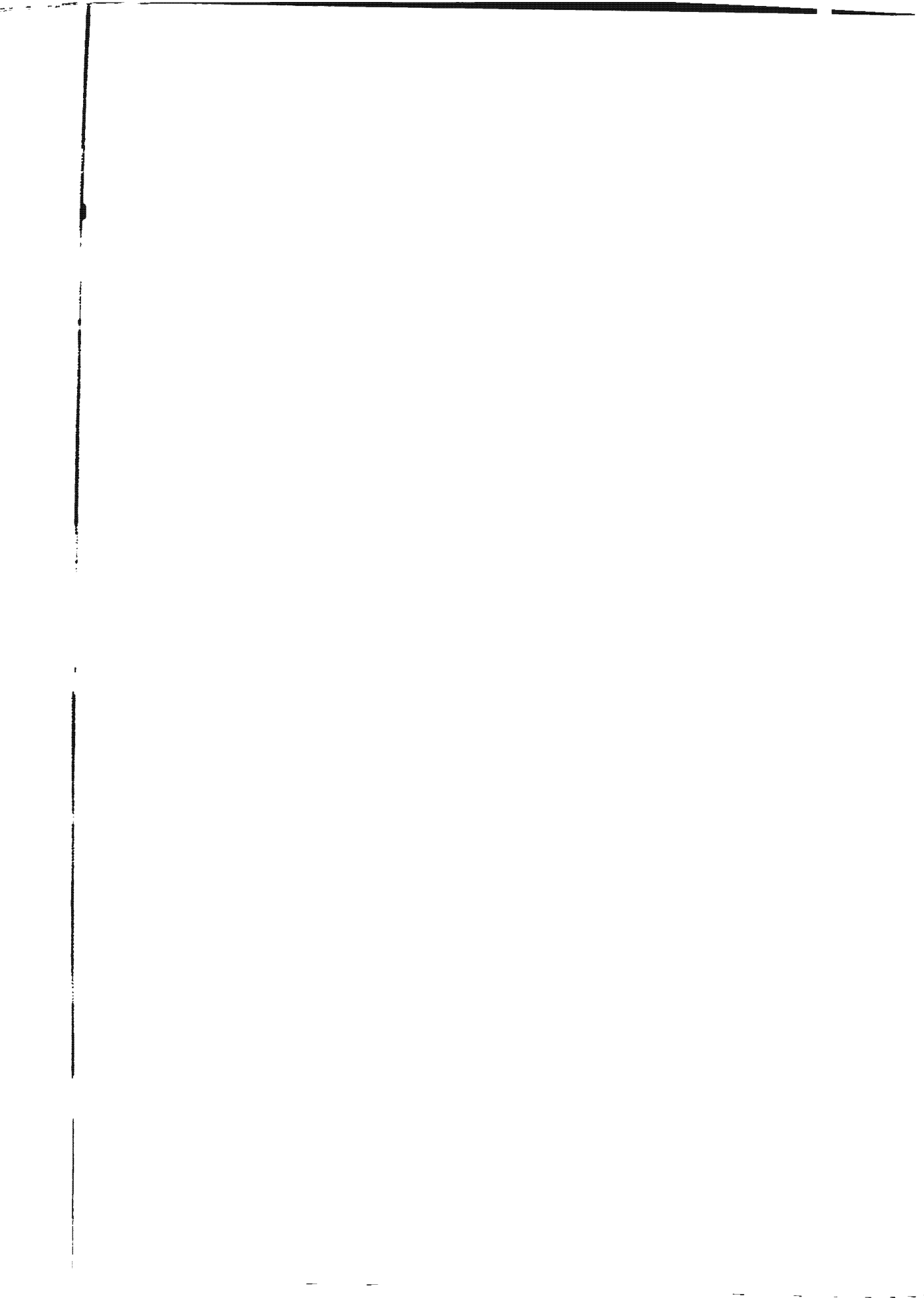
Application for a Hospital Pharmacy Internship or Hospital Pharmacy Resident appointment should be made to the Dean's Office.

STATE LAW REGULATING THE PRACTICE OF PHARMACY

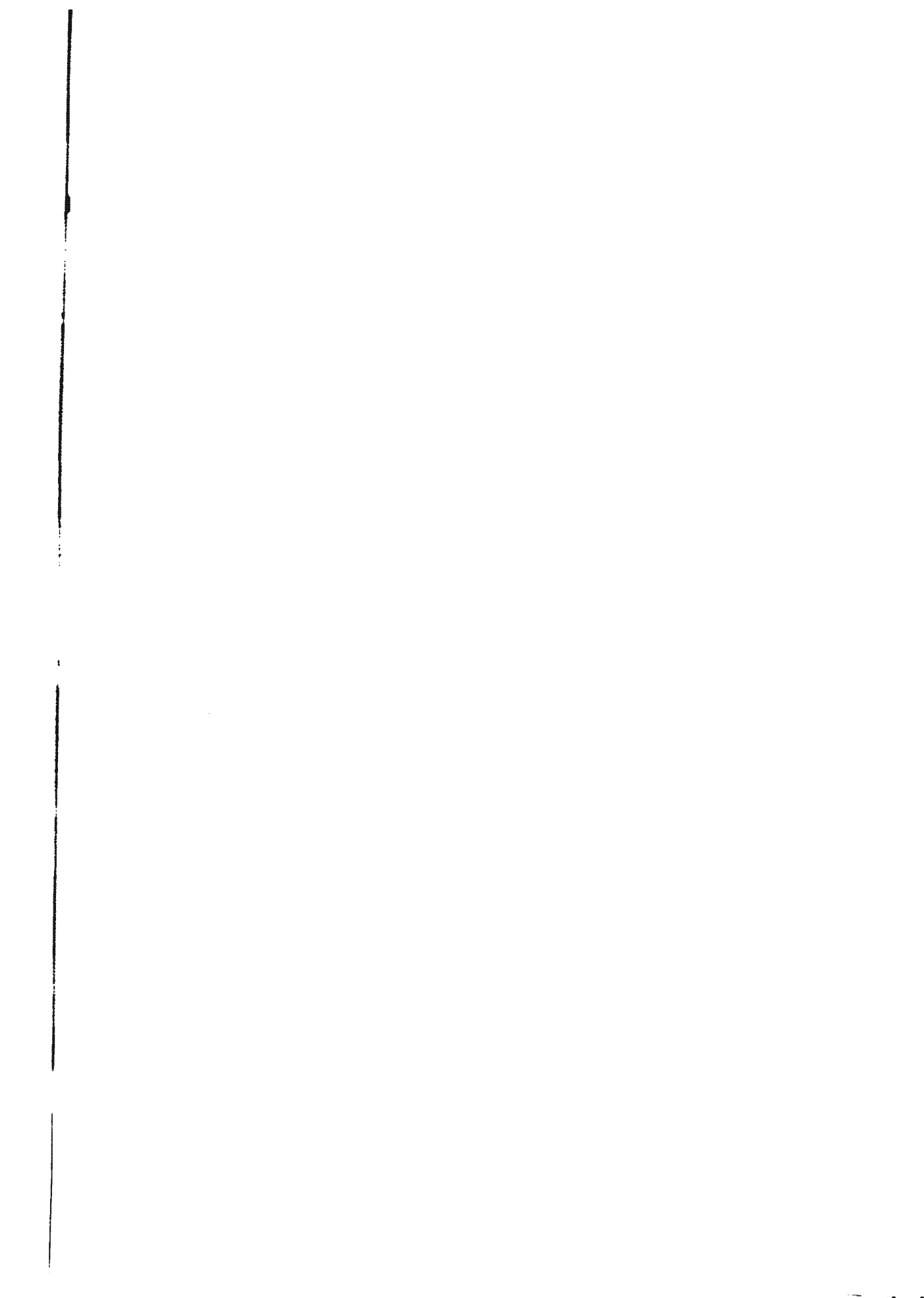
In order to practice pharmacy in the State of California it is necessary that individuals meet the requirements of the State law. A copy of the laws may be obtained from the State Printing Office, Sacramento.

Students should communicate directly with the Secretary of the State Board of Pharmacy, 507 Polk Street, San Francisco, for information pertaining to specific requirements and other qualifications for examinations and licensure, as a pharmacist.





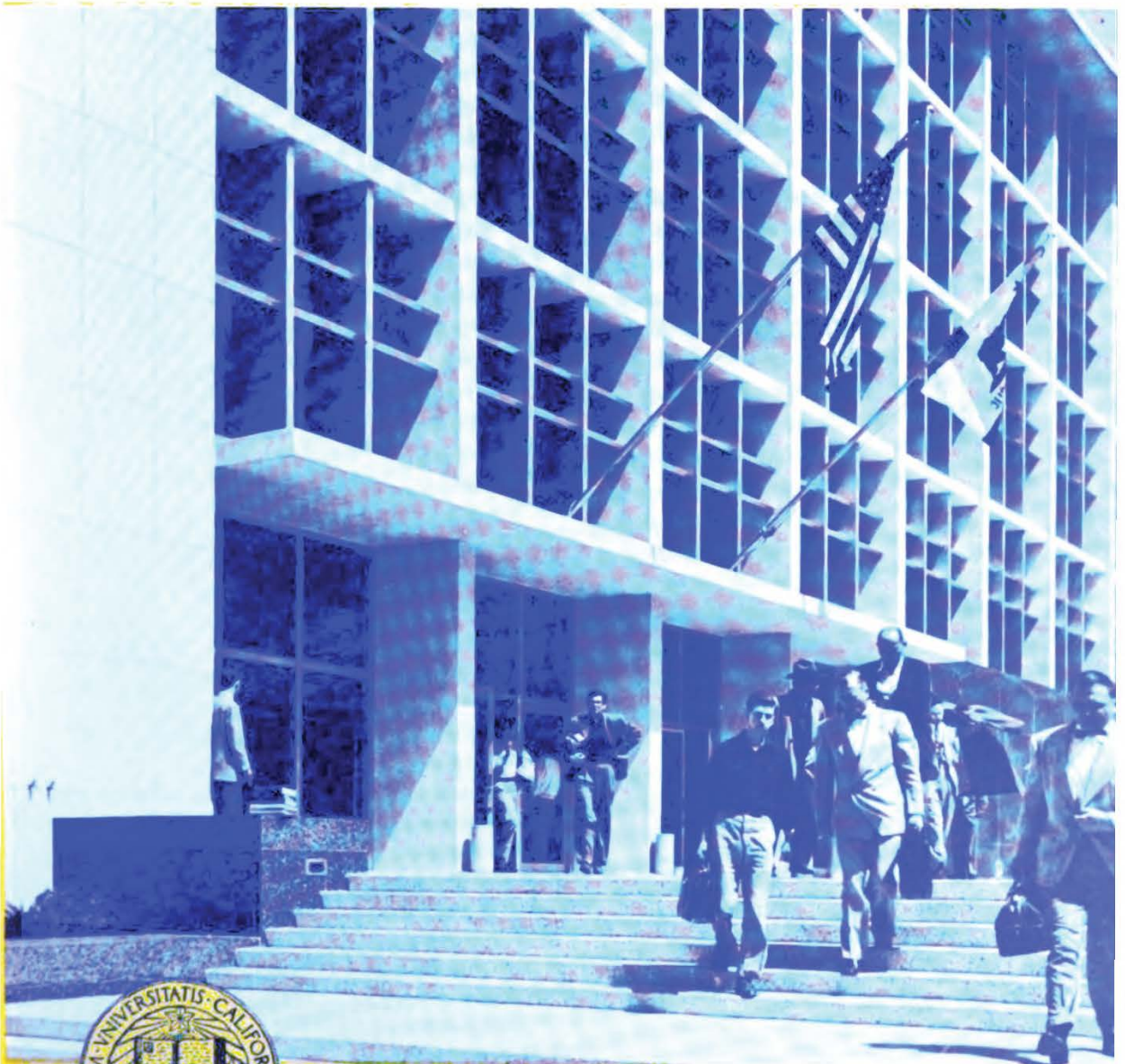




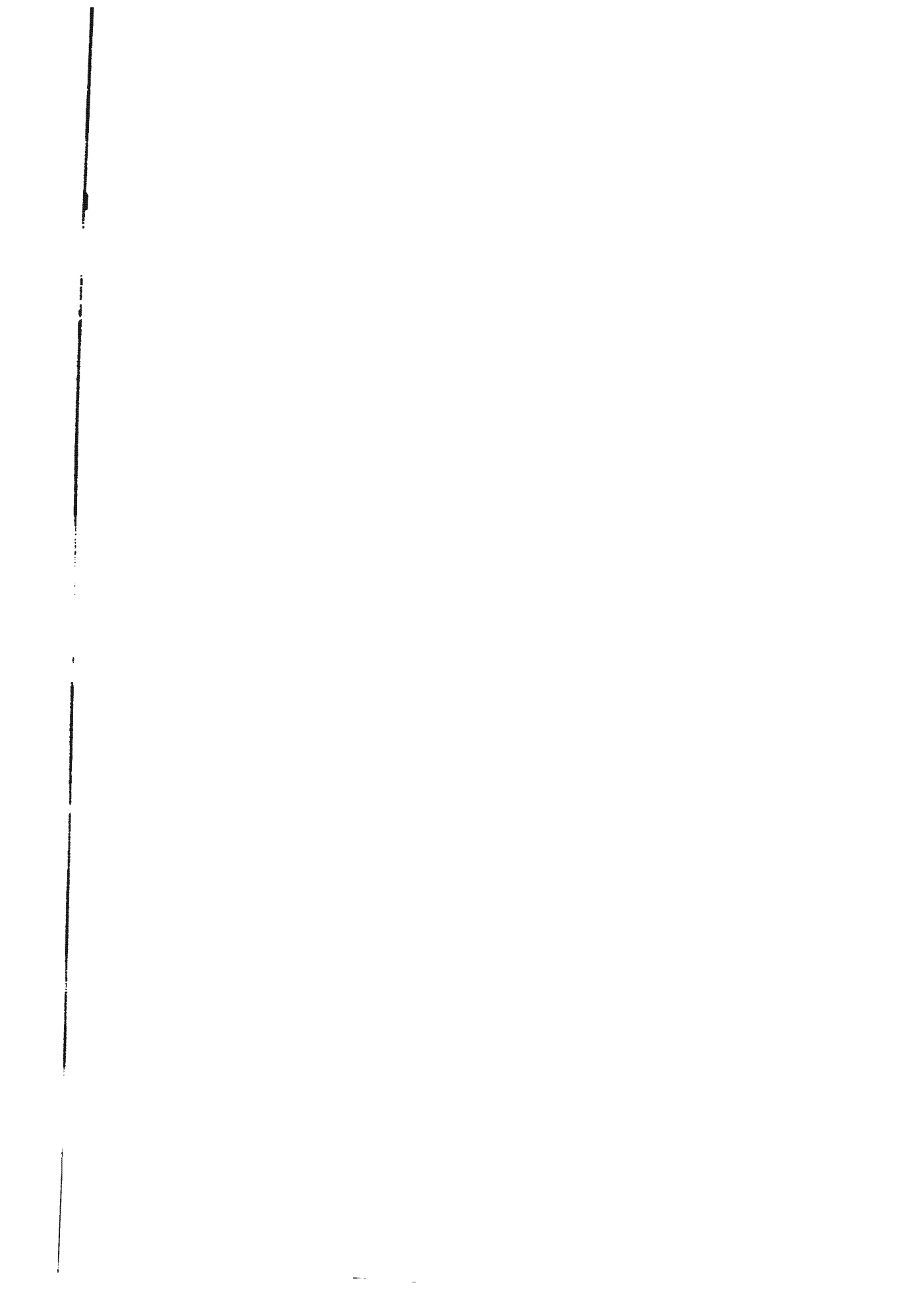
UNIVERSITY OF CALIFORNIA
**HASTINGS COLLEGE
OF LAW**

Seventy-Ninth Annual Announcement

1956-1957



Civic Center • San Francisco



UNIVERSITY OF CALIFORNIA
HASTINGS COLLEGE
OF LAW

Seventy-Ninth Annual Announcement



1956-1957

EDUCATION CODE

OF THE STATE OF CALIFORNIA

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.

THE HASTINGS COLLEGE OF LAW

DIRECTORS

HON. PHIL S. GIBSON, <i>Chief Justice of the Supreme Court,</i> <i>ex-officio President of the Board</i> - - - - -	San Francisco
WILLIAM B. BOSLEY, A.B., LL.B., <i>Vice-President</i> - - -	San Francisco
SIDNEY M. EHRMAN, B.L., LL.B., LL.D. - - - - -	San Francisco
ALLEN L. CHICKERING, A.B., LL.B. - - - - -	Piedmont
JOHN T. PIGOTT, A.B. - - - - -	San Francisco
EUGENE M. PRINCE, A.B., J.D. - - - - -	San Francisco
E. CLINTON LA MONTAGNE, ESQ.* - - - - -	Menlo Park
EDGAR T. ZOOK, A.B., LL.B. - - - - -	San Francisco
A. F. BRAY, A.B., LL.B. - - - - -	Martinez

*Great Grandson of Hon. Serranus Clinton Hastings, Founder of the College.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

ROBERT GORDON SPROUL, B.S., LL.D., LITT.D., University President.
DAVID E. SNODGRASS, A.B., LL.B., Isaias W. Hellman Professor of Law. Dean of the College.
ARTHUR M. SAMMIS, LL.B., Professor of Law. Associate Dean and Registrar of the College.
HAZEL REED, A.B., B.S. IN L.S., Librarian.
ROBERT W. HARRISON, A.B., LL.B., Professor of Law, Emeritus.
LAWRENCE VOLD, A.B., LL.B., S.J.D., LL.D., Professor of Law.
GEORGE G. BOGERT, A.B., LL.B., Professor of Law.
EVERETT FRASER, A.B., LL.B., LL.D., Professor of Law.
EDWARD A. HOGAN, JR., A.B., LL.B., LL.M., LL.D., Professor of Law. Director of Moot Court and Alumni Placement.
BROOKS COX, A.B., J.D., Professor of Law.
JAMES P. MCBAIN, LL.B., LL.D., Professor of Law.
WILLIAM E. BRITTON, A.B., A.M., J.D., LL.D., Professor of Law.
JUDSON A. CRANE, A.B., LL.B., S.J.D., LL.D., Professor of Law.
HAROLD G. PICKERING, LL.B., Professor of Law.
GEORGE W. GOBLE, A.B., LL.B., LL.D., Professor of Law.
MERTON L. FERSON, PH.B., A.M., LL.B., LL.D., Professor of Law.
DUNCAN D. LOW, A.B., LL.B., Professor of Law.
PAUL E. BASYE, A.B., LL.M., J.D., S.J.D., Professor of Law.
MOSES S. HUBERMAN, A.B., LL.B., Professor of Law.
JOHN U. CALKINS, JR., A.B., LL.B., Associate Professor of Law.

OFFICERS OF INSTRUCTION AND ADMINISTRATION

DAVID J. MCDANIEL, A.B., LL.B., Assistant Professor of Law.

J. ALBERT HUTCHINSON, LL.B., Assistant Professor of Law.

HARTLY FLEISCHMANN, A.B., LL.B., Assistant Professor of Law.

MARY E. LANIGAR, A.B., LL.B., Instructor in Legal Accounting.

CALENDAR

FIRST SEMESTER, 1956-57

- | | | |
|-----------|-------|--|
| September | 11-12 | Registration of First-Year Students. |
| September | 13 | Registration of Second-Year Students. |
| September | 14 | Registration of Third- and Fourth-Year Students. |
| September | 17 | Instruction Begins, First Semester. |

Thanksgiving Recess

November 22 to 25, inclusive.

Christmas Recess

December 20 to January 2, inclusive.

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|---------|----|----------------------|
| January | 23 | First Semester Ends. |
|---------|----|----------------------|

SECOND SEMESTER, 1956-57

- | | | |
|----------|----|--|
| January | 24 | Registration of First-Year Students. |
| January | 25 | Registration of Second-Year Students. |
| January | 26 | Registration of Third- and Fourth-Year Students. |
| January | 28 | Instruction Begins, Second Semester. |
| February | 22 | Washington's Birthday, a Holiday. |

Easter Recess

April 19 to April 21, inclusive.

- | | | |
|------|----|--------------------------|
| May | 30 | Memorial Day, a Holiday. |
| June | 8 | Spring Semester Ends. |

HISTORY

The Hastings College of 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 institution was endowed by and named for Honorable Serranus Clinton Hastings, California's first Chief Justice. Founded in the tenth year of the University's existence, it is the oldest law school in the West.

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, E. W. McKinstry, formerly a Justice of the Supreme Court of California, was Professor of Municipal Law.

For twenty years after 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, who served until 1925. William M. Simmons was Dean from 1925 until the time of his death in 1940, his successor being David E. Snodgrass, who is Dean at the present time.

THE SIXTY-FIVE CLUB

A distinctive feature of the Hastings Law College Faculty is its group of Senior Professors, which is known as "The Sixty-Five Club." Since 1940, the College has offered teaching positions to members of other law school faculties who, after achieving national reputations as legal scholars, while still alertly active have reached the age of compulsory retirement. These men have been invited to continue their work at The Hastings College of Law, to which they have brought the advantage of a long perspective on new developments, a rich experience in their chosen fields, and a facility of instruction which serves their students well.

SITUATION

The classrooms and quarters of the college are in the newly completed Hastings College of Law Building on the northeast corner of Hyde and McAllister Streets, in San Francisco. The Supreme Court, the District Court of Appeal for the First Appellate District, the Public Utilities Commission, the Industrial Accident Commission, and the offices of other State boards and officials are located in the State Building nearby. Two blocks 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 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 The Hastings College of Law, is unexcelled among city law schools.

PURPOSE

The purpose of the College is to offer systematic and thorough instruction in those branches of law which will best 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, containing more than 35,000 volumes.

DEGREE ON GRADUATION

The Degree of Bachelor of Laws is conferred by the 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

All grades are computed on a percentage basis; letter grades are not awarded, as such, in any course. A weighted average grade of 70% is required, in the work of each academic year.

The yearly average grade of each student is based on the percentage grade in each subject, weighted according to the number of units in each. The following scale indicates the relation of percentage to letter grades: 85-100=A (*Excellent*); 78-84=B (*Good*); 70-77=C (*Satisfactory*); below 70=D (*Unsatisfactory*).

SCHOLASTIC REQUIREMENTS

A student in the first year must attain a weighted average of not less than 70% in the work of that year, or he will be excluded from the College. A student thus excluded will not be permitted to attend classes, but he may

secure readmission with credit for the first year by retaking, within one year, the regular examinations in all of the subjects of the first year in which he received a grade of less than 70% and by attaining a weighted average of not less than 70% in those examinations.

A student in the second year must attain a weighted average of not less than 70% in the work of that year, or he will be excluded from the College. A student thus excluded will not be permitted to attend classes, but he may secure readmission with credit for the second year by retaking, within one year, the regular examinations in all of the subjects of the second year in which he received a grade of less than 70%, and by attaining a weighted average of not less than 70% in those examinations. This privilege will not, however, be extended to a student in the second year who failed to make a weighted average of 70% in his original examinations in all of the work taken in the first year.

To be eligible for graduation or for promotion to the fourth year, a student in the third year must attain a weighted average of not less than 70% in the work of that year. A student who fails to attain the required average may not thereafter attend classes, but may qualify for graduation, or for promotion, by retaking, within one year, the regular examinations in all of the subjects of the third year in which he received a grade of less than 70% and by attaining a weighted average of not less than 70% in those examinations.

ATTENDANCE

Work in the College cannot be satisfactorily carried on by students who are irregular in their attendance. A student is subject to dismissal whenever his attendance becomes so irregular that the Faculty deems it unwise to permit him to continue. Special conditions may be imposed in other cases which the Faculty regards as serious.

RIGHTS RESERVED BY THE FACULTY

The Faculty reserves the right, in its discretion, to reject any applicant for admission to the College.

Whenever the Faculty deems that the best interests of the College will be furthered thereby, the Faculty may terminate the membership of any student, or may withhold the granting of any degree. In either of such cases, all rights which may have been acquired by matriculation or entrance into the College, or by work done there, shall cease.

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.

Any student who takes 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 curriculum and regulations affecting students may be revised at any time, in the discretion of the Faculty.

FEEES

A registration fee of \$42.00 for the work of each semester is payable by each student. An additional fee of \$150.00 for the work of each semester is payable by each non-resident of the State of California. (Education Code, Section 20004.)

A medical service fee of \$12.00 per semester is payable by all students except those enrolled under Public Law 16, 78th Congress. Each student is required to pay a fee of \$2.00 per semester, for the support of the Hastings Law Journal, and a Student Body fee of \$2.00 per semester.

First Year students who register late are subject to an additional charge of \$5.00; in the case of all other students, the fee for late registration is \$10.00.

A graduation fee of \$5.00 is required of every candidate for a degree. This fee will be returned if the degree is not conferred.

REFUND OF FEES

Refund of the non-resident fee of \$150.00 will be made to a student who withdraws from the College, in accordance with the following schedule, but not otherwise:

One week or less.....	\$120
Between one and two weeks.....	120
Between two and three weeks.....	90
Between three and four weeks.....	60
Between four and five weeks.....	30
Over five weeks.....	..

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 \$42.00 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.

Neither the medical service fee, nor the Hastings Law Journal fee, nor the Student Body fee is refundable, under any circumstances.

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 The Hastings College of Law, or in the School of Law, 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 \$350.00 a year.

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 The Hastings College of Law and in the School of Law, at Berkeley, especially to students who need financial assistance to enable them to continue their studies. Each scholarship yields about \$550.00 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 The Hastings College of Law or in the School of Law, at Berkeley. This scholarship yields about \$300.00 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 The Hastings College of Law or in the School of Law, at Berkeley. This scholarship yields about \$150.00 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 \$200.00 a year, is open only to students in The Hastings College of Law.

ARTHUR NEWHOUSE SCHOLARSHIPS

With the funds from an annual donation made by the Trustees of the Newhouse Foundation, the Regents of the University of California have established The Newhouse Foundation Scholarships. A number of these scholarships are open to students in The Hastings College of Law. Each yields \$300.00 a year.

NEVADA SCHOLARSHIP

William Clarke Sanford, '43, who held the Warren Olney, Jr., Scholarship in 1942-43 and is now a member of the Reno Bar, has donated \$300 to be awarded as a scholarship in 1956-57 to the Nevada resident who, after completing one or two years' work at the College, shall be deemed by the Faculty to be most worthy of such an award. This scholarship is open only to married students; it will not necessarily be awarded to the applicant whose grade-point average is highest.

HASTINGS COLLEGE SCHOLARSHIPS

In 1953 the Board of Directors of The Hastings College of Law established eight scholarships, bearing the names of former Deans S. Clinton Hastings, John Norton Pomeroy, Charles W. Slack, Edward Robeson Taylor, Maurice E. Harrison and William M. Simmons and of the late Professors Arthur M. Cathcart and Edward S. Thurston. In 1955 the Board established two additional scholarships, one bearing the name of the late Professor Oliver L. McCaskill, and the other that of the late Alfred Sutro, '94. These ten scholarships are open only to second- and third-year students in The Hastings College of Law. Each yields \$500.00 a year.

SIDNEY M. EHRMAN SCHOLARSHIP

In commemoration of his 80th birthday, Mrs. Claude Lazard has established a scholarship in the name of her father, Sidney M. Ehrman, '98, a Director of the College. This scholarship, which is open only to students in The Hastings College of Law, yields \$500.00 a year.

BANCROFT-WHITNEY PRIZE

A prize is given annually by the Bancroft-Whitney Company, of San Francisco, to the student having the highest scholastic standing at the close of his Senior Year. The winner of this prize for 1956 was Lloyd Hinkelman.

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 1956 was Alexander B. Yakutis.

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 in the field of law during his final school year. This prize also was awarded to Lloyd Hinkelman, in 1956.

WEST PUBLISHING CO. AWARDS

The West Publishing Company awards as an annual prize a 2-year subscription to the advance sheets of its Pacific Reporter to the First-Year student who maintains the highest level of scholarship. The company also offers annually a copy of McBaine's California Evidence Manual to the leader of the Second-Year class. It also awards as an annual prize a subscription to the advance sheets of its Supreme Court Reporter to the Third-Year student who has received the highest grade in Constitutional Law.

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

Lawrence Livingston, '15, 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.

SIDNEY M. EHRMAN LOAN FUND

The partners of Director Sidney M. Ehrman, '98, have contributed a loan fund which commemorates his 75th birthday and bears his name.

This fund was established for the purpose of assisting worthy students; it is administered by the Dean.

ROBERT C. MEADE MEMORIAL LOAN FUND

This fund was established by friends and fellow students of Robert C. Meade, a former student who died during the academic year 1954-55. This fund is administered by the Dean.

REQUIREMENTS FOR ADMISSION

Every applicant for admission to the 3-year curriculum of the College must present evidence that he has received the degree of Bachelor of Arts or Bachelor of Science from the University of California, or an equivalent degree from a college or university of approved standing.

Every applicant for admission to the 4-year curriculum must present evidence that he has completed at least 60 units of undergraduate work, acceptable toward a Bachelor's degree in the College of Letters and Science of the University of California. A student who is admitted to the 4-year curriculum will be required to take all of the courses in the 3-year curriculum, and, after enrolling in the work of the first year, may not subsequently qualify for admission to the 3-year curriculum.

All classes are held during daytime hours. The College does not operate a night school and never has done so.

ADMISSION PROCEDURE

An applicant who has taken undergraduate work at educational institutions other than the University of California, *but who has not yet completed sufficient work to entitle him to a bachelor's degree*, must submit an original high school transcript as well as transcripts of his record at all Colleges previously attended, to the Registrar of The Hastings College of Law, in order that his equivalent standing in the College of Letters and Science of the University of California may be determined. Holders of college degrees must submit transcripts showing that the bachelor's degree has been awarded.

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

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

A NON-REFUNDABLE APPLICATION FEE OF \$5.00 IS PAYABLE TO THE COLLEGE BY EACH APPLICANT FOR ADMISSION. REMITTANCES SHOULD BE MADE BY DRAFT OR MONEY ORDER PAYABLE TO HASTINGS COLLEGE OF LAW.

ACCEPTANCE DEPOSIT

Each applicant for admission to the First-Year Class is required, within 15 days after receiving notice of his admission to the College, to send or deliver an acceptance deposit of \$58.00 to the Registrar. Unless this requirement is complied with, the applicant's admission will be cancelled in order that his place may be made available to another applicant.

The acceptance deposit will be applied against fees for the first semester of the First Year, but is not otherwise refundable, except in the case of veterans who actually register at the College and whose registration fees are paid by the United States Veterans Administration or by a similar agency.

ADVANCED STANDING

Credit may be allowed for satisfactory work, done at other law schools which are approved by the American Bar Association, but only if the applicant has maintained a grade point average in all of his work at such other law schools of not less than 1.5.

No transfer student will be awarded a degree unless he completes at least two full years of work, including the work of his final year, at The Hastings College of Law.

VETERANS' EDUCATIONAL BENEFITS

The Hastings College of Law is fully approved by the State of California and by the United States Veterans Administration for participation in the educational benefits provided for veterans.

Veterans contemplating study in the College are urged to file their applications for training with the California Veterans Educational Institute at 515 Van Ness Avenue, San Francisco, or with the U. S. Veterans Administration, at 49 Fourth Street, San Francisco, in order that their programs may be approved before funds are needed.

ADVICE TO PROSPECTIVE STUDENTS

There is no certain test or means of determining, without trial and before entering law school, whether a student will be successful in law study. The Hastings College of Law does not require a legal aptitude test. In general, a student with a good record in high school and college has a better prospect of attaining success in his law work.

A student who intends to study law should first acquire an adequate

background of knowledge in history, government, and economics. Familiarity with accounting and business methods will be helpful. A thorough training in English expression is essential.

None of the courses in the pre-legal curriculum is prescribed by the College. Foreign languages are desirable, but not indispensable. An A.A. degree is not required, as such.

The study of law is more difficult and demands more time than the work of the pre-law curriculum. Law school work requires substantially all of a student's time. All students are warned that outside employment is hazardous and should be held to a minimum.

ASSOCIATED STUDENTS

The Associated Students of The Hastings College of Law, the students' own organization, acts through its governing body, the Student Council. The Associated Students maintain their own Housing Bureau and Job Placement Bureau; they write and publish the Hastings Law Journal; they distribute membership cards for the Associated Students of The University of California, which, with other privileges, entitle the holders to free admittance to athletic contests held on the Berkeley Campus; they sponsor various social functions during the academic year, and they maintain a Moot Court Board to assist in the activities of the Voluntary Inter-School Moot Court and the Required Moot Court Competition.

The Student Council is composed of a president, elected from the Senior Class; a Vice President, Secretary, and Treasurer, each elected from the student body at large; and two representatives from each Class. Members are available for consultation in the office of the Student Council.

It was through the efforts of students that the Hastings Law Journal was conceived and published for the first time, in 1949. It is through their efforts, with the advice and assistance of the Faculty, that current issues of the Journal are being prepared. The Journal is available to all members of the Legal Profession.

THURSTON SOCIETY

In 1948, the Thurston Society was founded at The Hastings College of Law as a legal scholarship society, in commemoration of the distinguished service of Professor Edward S. Thurston, who was a member of the Faculty from July 1, 1943, until his death on February 10, 1948. Its purpose is to "actively further the principles of scholarship in the study and practice of the law, to which Edward S. Thurston devoted his life."

Election to the Society is restricted as follows: Members of the Second-Year Class who, by virtue of their first-year record, have attained the upper

5 per cent of their class; members of the Third-Year Class who, by virtue of their combined record in the first and second years, have attained the upper 10 per cent of their class; and graduating students who are within the upper 10 per cent of their class on the basis of their combined record in the first, second and third years. No student is eligible for membership whose cumulative average grade is less than 78%.

ORDER OF THE COIF

The College maintains a chapter of the Order of the Coif, a national law school honor society, the purpose of which is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to those members of each graduating class, not exceeding 10%, who rank highest in scholastic attainment.

LEGAL SOCIETIES

Four legal fraternities are represented at the College: Pomeroy Inn of Phi Delta Phi (1883); Temple Chapter of Phi Alpha Delta (1911); Simmons Chapter of Sigma Nu Phi (1926); and Traynor Senate of Delta Theta Phi (1948).

Alpha Eta Chapter of Kappa Beta Pi, woman's legal sorority, was established at the College in 1924.

ACCREDITATION

The College is approved by the American Bar Association, and is accredited by the Committee of Bar Examiners of the State of California. Its curriculum has been registered with the New York State Department of Education. It is a Charter Member of the Association of American Law Schools.

FIRST YEAR
(In Two Sections)
(All required)

- Agency** *Mr. Ferson*
 Master and Servant, nature of the relation; authority; parties; disclosed and undisclosed principals; unauthorized transactions; notice; ratification.
Seavey's Cases on Agency.
 Two hours a week, second semester. 2 units
- Civil Procedure** *Mr. Cox*
 An introduction to procedure, to facilitate an understanding of the development of substantive law; organization of courts: English, American State and Federal; the forms of action at common law; historical development and position of equity courts; functions of pleading; trial of an action, to final judgment and appellate review.
Scott and Simpson's Cases on Civil Procedure.
 Two hours a week, throughout the year. 4 units
- Contracts** *Mr. Snodgrass*
Mr. Goble
 Mutual assent; consideration; quasi-contract distinguished; Statute of Frauds; third party beneficiaries; assignment; conditions; impossibility; anticipatory breach; discharge; damages.
Shepherd's Cases on Contracts, third edition, or
Patterson and Goble's Cases on Contracts, third edition.
 Four hours a week, first semester.
 Three hours a week, second semester. 7 units
- Criminal Law and Procedure** *Mr. Cox*
Mr. Calkins
 The purpose of our criminal law, the procedures by which it is enforced, and its substantive content. Arrest; acquisition of evidence; formalities of accusation; the place and manner of trial; extradition; double jeopardy; the nature of various specific crimes; the negation of punishability through such circumstances as self-defense, mistake or insanity.
Waite's Cases on Criminal Law, third edition, or
Perkins' Cases on Criminal Law.
 Two hours a week, throughout the year. 4 units

Property I**Mr. Basye**

Personal Property: Possession; original acquisition; finding; bailments; liens; pledges; gifts; statute of limitations; satisfaction of judgments; accession; confusion.

Bigelow's Cases on Personal Property, third edition.

One hour a week, throughout the year. 2 units

Property II**Mr. Fraser**

Real Property: General legal terms; historical background; classes of interests in land; possessory estates; seisin, possession; methods of creating and transferring interests; non-possession of interests; uses and statutes of uses; merger; Rule in Shelley's case; Doctrine of Worthier Title; powers of appointment; Rule against Perpetuities; concurrent interests.

Fraser's Introduction to Real Property, third edition.

Three hours a week, throughout the year. 6 units

Torts**Mr. Vold
Mr. Hogan**

Liability for intentional interference with person or property; defenses, such as self-defense, consent, and protection of property or public interests; liability based on negligence at common law and under statutes; actual cause and legally responsible cause; risk; damages; contributory negligence; strict liability, regardless of negligence; nuisance; misrepresentation; defamation; invasion of privacy; unjustifiable litigation; interference with contractual relations or with voluntary advantageous relations.

Seavey, Keeton & Thurston's Cases on Torts, *or*

Smith and Prosser's Cases on Torts.

Three hours a week, throughout the year. 6 units

A careful reading of Morgan's Introduction to the Study of Law, second edition, is suggested for First-Year Students.

SECOND YEAR*(All required, except Sales)***Constitutional Law****Mr. Fleischmann**

Judicial Review. The relationship in our federal system between the Nation and the States; the relationship of the States to each other. The powers of Congress; the powers of the President; the residual powers of the States. Protection of the rights of individuals; procedural due process; substantive due process, including the development of rights under the 14th Amendment and under the "Bill of Rights." Impairment of contracts; equal protection of the laws; privileges and immunities of citizens.

Dowling's Cases on Constitutional Law, fifth edition,
with 1956 Supplement.

Two hours a week, throughout the year.

4 units

Equity**Mr. Low**

A general survey of Equity; injunctions, including adequacy of legal remedies, balancing of equities, interests protected and defenses; specific performance of contracts, including defenses, conditions, laches, part-performance and the Statute of Frauds; equitable conversion and equitable servitudes; jurisdiction and powers of Courts of Equity.

Cook's Cases on Equity, fourth (1-vol.) edition.

Four hours a week, first semester.

Two hours a week, second semester.

6 units

Evidence**Mr. McBaine**

The law of evidence in trials at law and in equity, including judicial notice, burden of proof, and presumptions; functions of judge and jury; competency and privileges of witnesses; principal rules of admissibility and exclusion of testimony of witnesses and documents, with special emphasis on California law.

Morgan & Maguire's Cases on Evidence, third edition.

McBaine's Manual of California Evidence, with Supplement.

Two hours a week, throughout the year.

4 units

Legal Profession**Mr. Hogan**

History of the legal profession; Canons of Ethics; sanctions imposed upon members and non-members of the profession; duties in relation to courts, fellow-attorneys and clients.

Cheatham's Cases on the Legal Profession, second edition.

One hour a week, first semester.

1 unit

LIBRARY STACKS





THE CHARLES W. SLACK MEMORIAL LIBRARY

THE MOOT COURT ROOM





THE CALIFORNIA BAR EXAMINATION—CLASSROOM B

Negotiable Instruments**Mr. Britton**

The development and interpretation of the Uniform Negotiable Instruments Act. Formal requirements for negotiability; transfer of instruments; requirements for and rights of a holder in due course; equities and defenses; liability of parties; discharge.

Britton's Cases on Bills & Notes, fourth edition.

Two hours a week, throughout the year.

4 units

Property III**Mr. Basye**

Titles to land inter vivos, including the execution, contents and operations of instruments of conveyance; the recording acts; rights of the possessor of land to enjoyment thereof.

Bade, Cases on Real Property and Conveyancing.

Two hours a week, throughout the year.

4 units

Sales of Personal Property**Mr. Vold**

Transfer of the property interest in goods, including auction sales, cash sales, appropriation, C.O.D., F.O.B., C.I.F.; inspection and acceptance; future goods, fungible goods, open price arrangements; seller's lien and its foreclosure, power to stop goods in transit, conditional sales, motor vehicle title certificates, negotiable bills of lading, trust receipts; "sale or return" and delivery on approval, bailment for sale, factors and factor's acts; effect of fraud or retention of possession, bulk sales; seller's express and implied warranties; the Uniform Sales Act and the proposed Uniform Commercial Code.

Vold's Cases on Sales, second edition.

Two hours a week, throughout the year.

4 units

Trusts**Mr. Bogert**

The more important problems involved in the creation and administration of private and charitable trusts; resulting and constructive trusts; remedies available to trust parties in cases of breach of trust.

Bogert's Cases on Trusts, second edition.

Bogert's Hornbook on Trusts, third edition.

Four hours a week, second semester.

4 units

A Moot Court program is included in the Second Year curriculum. Participation is required of all Second Year students. No student will be admitted to the Third Year Class who has failed to demonstrate reasonable proficiency in Moot Court work.

A careful reading of Maitland's Equity, and of Wellman's Art of Cross-Examination, is suggested for Second-Year Students.

THIRD YEAR*(All required, except Trial Practice)***Code Pleading****Mr. Pickering**

The civil action; splitting and joining actions; the complaint, including the caption, the statement of facts, and the prayer for relief; the answer, including general and specific denials, affirmative defenses and counterclaims; the demurrer; the reply; motions; bills of particulars; amendment and aider; construction of pleadings.

Cathcart & Howell's Cases on Code Pleading.

Four hours a week, throughout the year.

4 units

Community Property**Mr. Sammis**

Initiation and existence of the marital community; nature of interests in property, as separate or community; management, control and liability of property for debts; conflict of laws; dissolution of the community, including settlement and alimony.

Assigned materials on Community Property.

Two hours a week, second semester.

2 units

Conflict of Laws**Mr. Hogan**

Determination of the law applicable to legal problems having contacts in more than one sovereign state; jurisdiction as it relates to proceedings in personam, in rem and quasi in rem; recognition and enforcement of foreign judgments; constitutional implications in choice of law, in matters of substance and procedure; jurisdiction to tax; rules on choice of law with reference to torts, workmen's compensation, contracts, negotiable instruments, property, marriage, divorce and status, wills and estates; diversity cases in the federal courts.

Cheatham, Goodrich, Griswold & Reese's Cases on Conflict of Laws, third edition.

Two hours a week, throughout the year.

4 units

Corporations**Mr. Crane**

Nature and formation, capacity and authority of corporations; problems of management; liabilities of officers, directors and shareholders; issues of shares; distribution of earnings; consolidation, merger and dissolution.

Wormser & Crane's Cases on Corporations.

Two hours a week, throughout the year.

4 units

Federal Taxation*Mr. Huberman*

Income, estate and gift taxes, including taxable income; deductions and credits; tax accounting, capital gains and losses; corporate distributions and reorganizations; income tax treatment of corporations, partnerships, estates and trusts; the gross estate, including inter vivos transfers includable in the gross estate; jointly held property; appointed property; life insurance; valuation; estate tax deductions and credits; taxable gifts; gift tax exclusions; relationship between income, estate and gift taxes.

Griswold's Cases on Federal Taxation, fourth edition.

Students' Federal Tax Service, C.C.H.

Two hours a week, first semester.

Three hours a week, second semester.

5 units

Restitution*Mr. Crane*

The form and nature of relief afforded by judicial process, to prevent the unjust retention of benefits acquired by reason of fraud, mistake, conversion, illegality, and in other special situations.

Thurston's Cases on Restitution.

Two hours a week, throughout the year.

4 units

Trial Practice*Mr. Pickering*

Modern trial practice, including venue, process, the jury, sufficiency of the evidence, instructions, verdicts, new trials, judgments; appellate procedure. Each student, acting either as counsel for the plaintiff or as counsel for the defendant, will participate in a practice court trial of a civil action.

McBaine's Cases on Practice, third edition.

Two hours a week, throughout the year.

4 units

Wills*Mr. Sammis*

Intestate succession, with attention to special features of California law; the nature, making, revocation and operation of wills, including ademption, abatement and lapse of gifts by will; probate and administration of estates.

Mechem & Atkinson's Cases on Wills, fourth edition.

Three hours a week, first semester.

3 units

FOURTH YEAR***(All required, except Property IV)***Administrative Law****Mr. Hutchinson**

The practices and procedures of State and Federal administrative agencies; the lawyer's problems in dealing with such agencies, including their jurisdiction, their rules of procedure, the scope and effect of their decisions, and the right to judicial review.

Gellhorn & Byse's *Cases on Administrative Law*.

Two hours a week, throughout the year.

4 units

Creditors' Rights**Mr. Britton**

Judgments; executions; attachment and garnishment; creditors' bills; fraudulent conveyances; who may be bankrupt; acts of bankruptcy; estate of the trustee; preferences; claims, priorities, exemptions; reorganizations.

Hanna & McLachlan's *Cases on Creditors' Rights*, fourth edition.

Two hours a week, throughout the year.

4 units

Damages**Mr. Crane**

Compensatory, exemplary, and nominal damages; direct and consequential damages; mitigation; certainty; divided interests; special applications in contract and tort actions.

Crane's *Cases on Damages*, third edition.

Two hours a week, first semester.

2 units

Estate Planning**Mr. Huberman**

The relationship of legal techniques to the economics and sociology of earners and property owners, for the purpose of achieving the best arrangements of economic wealth for the particular family situation during life and after death; the functional aspects of the co-ownership of titles, inter vivos and testamentary trusts, wills, life insurance and purchase arrangements between associates in business (partners, close corporations and key executives); important related aspects of taxation and conflict of laws.

Casner's *Cases on Estate Planning*, second edition.

Two hours a week, throughout the year.

4 units

**Required of all students except those who, at the time of their admission, have received a bachelor's degree from the University of California, or from another college or university of approved standing.

Insurance**Mr. Goble**

Life, Accident, Fire and Automobile Insurance; formation of the insurance contract; concealment, warranties, representations; insurable interest; subrogation; waiver and estoppel; incontestability; the respective interests of the beneficiary, insured, insurer, assignee and creditor.

Goble's Cases on Insurance.

Two hours a week, throughout the year.

4 units

Labor Law**Mr. McDaniel**

The right to organize; organization of labor unions; strikes; picketing; boycotts; collective bargaining; collective labor agreements and their enforcement; unfair labor practices by employers and by unions; the union member and his union; state labor relations legislation; the National Labor Relations Act and the Labor Management Relations Act.

Handler & Hays' Cases on Labor Law, second edition.

Two hours a week, throughout the year.

4 units

Legal Accounting**Miss Lanigar**

Analysis of cases involving accounting problems, to develop familiarity with accounting concepts and an understanding of financial transactions. Problems including inventory pricing, depreciation, determination of annual income, net worth and surplus.

Amory and Hardee's Cases on Accounting.

One hour a week, throughout the year.

2 units

Legal Profession**Mr. Hogan**

History of the legal profession; Canons of Ethics; sanctions imposed upon members and non-members of the profession; duties in relation to courts, fellow-attorneys and clients; meaning and purpose of "law"; the function of the lawyer in the administration of justice; the judge's function in the administration of justice.

Cheatham's Cases and Materials on the Legal Profession, second edition.

One hour a week, throughout the year.

2 units

Mortgages (Not to be given in 1956-57)**Mr. Bogert**

Problems arising in the creation of security interests in real and personal property; transfer of the interests of the mortgagor and the mortgagee; rights and duties of the parties before foreclosure; methods of enforcement of the security.

Osborne's Cases on Property Security, second edition.

One hour a week, throughout the year.

2 units

Property IV**Mr. Bogert**

Future interests; reversions; remainders and executory interests; legal interests in personal property; construction of limitations; vesting; class gifts; acceleration of remainders; powers of appointment; rule against perpetuities; restraints on alienation.

Simes' Cases on Future Interests, second edition.

Two hours a week, second semester. 2 units

Suretyship**Mr. Britton**

Statute of Frauds; special defenses of the surety; the surety's rights of indemnity, exoneration, contribution, and subrogation.

Simpson's Cases on Suretyship.

Two hours a week, second semester. 2 units

Unincorporated Associations (Not to be given in 1956-57)**Mr. Crane**

The nature, formation, management, liabilities of associates; property rights, litigation status, dissolution and liquidation of partnerships, limited partnerships, joint adventures and other unincorporated associations for profit.

Crane & Magruder's Cases on Partnership, second edition.

Two hours a week, first semester. 2 units

Second Year students who elect to do so may substitute Administrative Law, Insurance, or Labor Law for Sales.

Third Year students who elect to do so may substitute Administrative Law, Insurance, or Labor Law for Trial Practice.

Fourth Year students who elect to do so may omit Property IV.

AUDITING OF COURSES

Members of the California Bar, and those graduates of The Hastings College of 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 \$5.00 per unit of work is payable by each auditor, at the time of registration.

SUMMER SESSION

Summer courses, open only to students who have completed at least one year of law, will be given for a period of six weeks in 1957. 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 Friday, inclusive, of each week.

A registration fee, uniform with that in effect on the Berkeley Campus of the University of California, is payable by each summer session student. During 1956 this fee was \$20.00 per unit of work.

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

SUMMARY OF ATTENDANCE — 1955-56

	First Semester	Second Semester
First Year	238	206
Second Year	118	116
Third Year	68	68
Fourth Year	2	2
Graduate	1	2
Special	1	1
Unclassified	1	1
	—	—
Totals	429	396

FIRST YEAR STUDENTS 1955-56

- ABE, FRED YOSHIHARU** San Francisco
 Compton College
ABOOD, HARDING Berkeley
 A.B., University of California
AGUILAR, ROBERT PETER Pittsburg
 A.B., University of California
ALFIERI, JAMES ALBERT (1) San Francisco
 University of San Francisco
 Seattle University
ANDERSON, EDWARD JAMES Long Beach
 B.S., University of California
ANDRADE, LEO RAFAEL, JR. San Rafael
 A.B., University of Southern California
ARNOLD, KENNETH JAMES Sacramento
 A.B., University of California
ASHE, MATTHEW DOMINIC San Francisco
 A.B., University of San Francisco
AU, RICHARD YAT CHO Honolulu, Hawaii
 A.B., University of Hawaii

BAKER, CARLOS PAUL, JR. Topanga
 A.B., University of California at Los Angeles
BALDWIN, LAURENCE BURTON Sacramento
 Sacramento State College
 Grant Technical College
 San Diego Junior College
BARBIC, JAMES FLORIO Santa Clara
 University of San Francisco
 University of Santa Clara
BARRAS, STANLEY GUS San Francisco
 City College of San Francisco
BARRETT, CHARLES PETER Mill Valley
 B.S., University of San Francisco
BARRY, JAMES HARDIN Susanville
 A.B., University of California
BARSAMIAN, WALTER Pawtucket, Rhode Island
 A.B., Brown University
BEECH, FRANK HOWARD Healdsburg
 Santa Rosa Junior College
BELTON, ALLEN DAY San Francisco
 Los Angeles City College
BENSON, CHARLES MARTIN San Francisco
 A.B., Fresno State College
BERTINO, JOHN DAVIS Berkeley
 A.B., Tulane University of Louisiana
BIAS, HARRY JAMES, JR. (1) Santa Cruz
 A.B., San Jose State College
BLOCK, GERALD (1) Los Angeles
 University of California at Los Angeles
 Los Angeles City College
BOBERG, RICHARD JAY San Mateo
 A.B., University of California
BOHL, JOHN ALBERT Sacramento
 A.B., Sacramento State College
BOND, FRANKLIN McVEAGH San Francisco
 San Francisco State College
 University of California
 Stanford University
BONGIORNI, HARRY (1) Santa Barbara
 A.B., University of California, Santa Barbara
BORS, JACQUELINE PALEY (1) San Francisco
 A.B., M.A., Stanford University
BRAUN, EDGAR JOSEF San Francisco
 B.S., University of California
BRAZIL, ERIC CAMPBELL Salinas
 University of Oregon
 Stanford University
BRENNAN, JAMES ALBERT Las Vegas, Nevada
 A.B., University of Nevada

BRILLIANT, ROBERT MARSH, LL Berkeley
 A.B., University of California
BROWN, ALBERT, JR. Los Angeles
 Compton College
 George Pepperdine College
BROWN, WILLIE LEWIS, JR. San Francisco
 A.B., San Francisco State College
BROWNE, HOWARD EDGAR, J. Reno, Nevada
 A.B., University of Nevada
BURGESS, NEIL OTTO, JR. San Francisco
 A.B., Southern Methodist University

CALLEJO, RICHARD ALBERT Daly City
 A.B., University of California at Los Angeles
CARLSON, ROBERT EDWIN San Mateo
 B.S., University of Oregon
CASTILLO, MARY HELEN Oakland
 University of California
 San Francisco State College
CHAPMAN, KENT WALDO San Francisco
 A.B., College of the Pacific
CHAPMAN, LAWRENCE BERNARD Van Nuys
 A.B., University of California, Santa Barbara
CHAPMAN, WALLACE DEE (1) Eureka
 A.B., Humboldt State College
CHUN, MICHAEL YUK TONG Honolulu, Hawaii
 B.B.A., University of Hawaii
CONNETT, ROBERT HARVEY San Francisco
 A.B., San Diego State College
COOK, JOHN HILARY Woodfords
 A.B., University of California
COOK, THEODORE MARION South San Francisco
 University of California
 San Francisco City College
 Sacramento Junior College
COOPER, LESLIE DAVID (1) Beverly Hills
 University of California
 Los Angeles City College
CRONIN, LEO THOMAS San Francisco
 A.B., San Francisco State College
CROZIER, CHARLES JOSEPH Los Angeles
 A.B., University of California
CURIEL, ROBERT DIAZ San Francisco
 A.B., Pomona College
CURRAN, DONALD WAYNE Berkeley
 A.B., University of California
DAVEGA, CLAYTON WRAY Oakland
 B.S., University of California
DAVIDSON, ALAN DOUGLAS San Francisco
 A.B., Fresno State College
DAVIS, LOIS BERKOVE Piedmont
 A.B., University of California
DAVIS, ROBERT CHARLES (1) Stockton
 A.B., Stanford University
DEBRO, JULIUS Oakland
 A.B., University of San Francisco
DIDIER, LAWRENCE ERWIN Sunnyvale
 A.B., University of California
DILBECK, DELBERT NELSON Stockton
 College of the Pacific
 Stockton Junior College
DORAN, JAMES JOSEPH, JR. San Mateo
 A.B., University of California
DYE, SCOTT AUGUSTUS (1) Redlands
 A.B., University of Redlands

ECKHOFF, ROBERT GEORGE San Francisco
 University of California
EDGAR, DALLAS SARGENT San Francisco
 A.B., University of California

FIRST YEAR STUDENTS

1955-56

- EDGERLEY, WILLSON ELRON.....Daly City
A.B., University of California
- ESSLER, FRANCIS GEORGE.....San Francisco
University of Colorado
The Citadel
University of California
- EMIRHANIAN, ROBERT H.....Pasadena
A.B., University of California, Santa Barbara
- ERICH, NORWOOD RAY.....Carmichael
A.B., Sacramento State College
- EWING, JOSEPH JOHN.....San Francisco
San Francisco State College
Great Falls College
University of California
- FASANARO, MATTEO VICTOR, JR.....Richmond
B.S., University of California
- FERGUSON, JAMES KENNETH...San Francisco
A.B., College of the Pacific
- FEUERSTEIN, HERMAN.....Los Angeles
Los Angeles City College
- FINCH, DAVID ROWLAND.....Fresno
A.B., San Jose State College
- FINE, RICHARD ALAN.....San Francisco
San Francisco State College
University of Arizona
City College of San Francisco
- FINK, JOSEPH LEE.....Santa Monica
University of California at Los Angeles
University of California, Santa Barbara
- FOLEY, JOHN RICHARD (1)....San Francisco
B.S., University of Santa Clara
- FORD, JOHN JOSEPH, III.....San Francisco
B.S., University of San Francisco
- FORURIA, THEODORE.....El Cerrito
A.B., University of California
- FUERY, RICHARD FRANCIS (1).....Albany
A.B., University of California
- GIANUNZIO, VICTOR JOHN.....Stockton
A.B., University of California
- GIRARD, RAYMOND LEROY.....San Francisco
A.B., Fresno State College
- GOLDEN, PAUL ALBERT.....San Mateo
A.B., University of Oregon
- GOLDSCHMIDT, PETER RUDOLF.....Berkeley
B.S., University of California
- GREEN, DOROTHY ELAINE.....Fresno
A.B., Fresno State College
- GREFNE, RAYMOND ALBERT, JR....Burlingame
A.B., University of California
- GRENE, JORGEN POLLER (1).....Oakland
University of Aarhus
- HAGLER, DONALD BARRY.....Glendale
B.S., University of California at Los Angeles
- HAIR, WILLIAM HARLEY.....San Francisco
Ventura College
California Polytechnic College
- HALL, TROYER LANDON (1)....Walnut Creek
A.B., University of California
- HAMMOND, JAMES DAVID, JR.....Los Altos
A.B., Stanford University
- HARDY, WILLIAM M.....San Jose
A.B., San Jose State College
- HARTMANN, STANLEY JOSEF (1)....Palo Alto
A.B., Stanford University
- HAUN, MARVIN GENE.....San Francisco
A.B., College of the Pacific
- HELP, JOE FRANK.....Daly City
A.B., University of Oklahoma
- HENZE, THOMAS EDWIN.....Oakland
A.B., University of California
- HILL, GEORGE MYRON (1).....Stateline
A.B., University of Nevada
- HOLMAN, THOMAS STEPHEN...San Bernardino
San Bernardino Valley Junior College
Sacramento Junior College
- HOPKINS, JAMES WOODWORTH..San Francisco
San Jose State College
- HORSTMANN, JOHN ANTHONY (1)....Sonoma
B.S., University of Santa Clara
- HOWELL, WILLIAM LAWRENCE (1)
San Francisco
A.B., San Francisco State College
- JOFFE, ABRAHAM.....Brooklyn, New York
B.S., Arizona State College
- JONES, LAWRENCE AARON.....San Francisco
A.B., University of California at Los Angeles
- JONES, RAYMOND RICHARD.....San Francisco
A.B., University of California
- JOYCE, PATRICK WARD.....Oakland
A.B., University of California
- KAHN, JULIUS, III.....Oakland
B.S., University of Santa Clara
- KALEMKARIAN, STEPHEN ALBERT.....Fresno
A.B., Fresno State College
- KAYASHIMA, BEN TSUTOMU.....Pomona
A.B., University of California at Los Angeles
- KELLY, JOSEPH IGNATIUS.....San Francisco
B.S., University of San Francisco
- KIM, FRANK STEVEN.....Marysville
Sacramento State College
Yuba College
- KIM, WILLIAM.....San Francisco
University of San Francisco
- KING, RICHARD EUGENE.....Alhambra
A.B., Whittier College
- KLARER, JOHN STEPHEN.....San Francisco
B.S., Loyola University of Los Angeles
- KNAPP, CHARLES WILLIAM.....Oakland
University of Utah
University of Hawaii
- KNOWLES, WILLIAM JAMES.....Alameda
A.B., University of California
- LABONTE, EDWARD ROBERT.....Fresno
A.B., Fresno State College
- LAFOLLETTE, JAMES ERNEST.....Fresno
A.B., Fresno State College
- LAMBORN, ROBERT CHARLES...San Francisco
A.B., University of California
- LANE, DAVID EUGENE.....Vallejo
A.B., University of California
- LAYTON, HERBERT FERDINAND...El Cerrito
A.B., University of California
- LEE, DEAN CARLTON.....Fresno
Fresno Junior College
- LEE, STEPHEN KWOCK ON Honolulu, Hawaii
B.B.A., University of Hawaii
- LEVY, BENJAMIN LEONARD....Sherman Oaks
University of New Mexico
Los Angeles City College
- LIBERTY, PHILIP STEPHEN.....San Francisco
University of Washington
University of Oregon
San Jose State College
- LINDEN, DONALD KRASUSKI.....Riverside
B.S.C., University of Iowa

FIRST YEAR STUDENTS 1955-56

- LONERGAN, THOMAS CHARLES Loyalton
A.B., San Francisco State College
- LONG, ROBERT PAUL Fresno
A.B., Fresno State College
- LORENZ, HERMANN EDWARD, JR. Sacramento
B.S., Georgetown University
- LOSH, WILLIAM JACKSON, JR. San Carlos
A.B., University of California
- LOTORTO, LOUIS ANTHONY San Francisco
A.B., St. Mary's College
- LYNCH, EUGENE FRANCIS San Francisco
B.S., University of Santa Clara
- MCCABE, MORLEY EDWARD Los Angeles
A.B., San Jose State College
- MCCAMMON, JACK HARPER Oakland
A.B., University of California
- MCCANN, JAMES JOSEPH (1) San Mateo
A.B., San Jose State College
- MCCRORY, CHARLES Ft. Lauderdale, Florida
A.B., Western Reserve University
- MCGURK, WILLIAM MORGAN KENNETH
Montreal, Canada
A.B., Sir George Williams College
- MCKEVITT, OWEN GRANDI (1) San Francisco
A.B., University of California
- MAGNUSON, RONALD GUS Stockton
College of the Pacific
Stockton College
- MANVILLE, WALLACE CARRUTHERS, JR. (1)
Mill Valley
B.S., University of Illinois
- MAROIS, THEODORE MAXIMILLIAN, JR. Napa
B.S., University of California
- MARSH, WILLIAM CHARLES San Francisco
B.S., University of California
- MATONIS, JOAN ELIZABETH (1) Oakland
A.B., San Francisco State College
- MATTOS, JOE ARTHUR (1) Rodeo
A.B., San Jose State College
- MAXWELL, GENE SIEMER Palo Alto
A.B., University of California
- MEAD, JOHN STANLEY Oakland
A.B., University of California
- MELNICK, LLOYD GEORGE Los Angeles
A.B., University of California
- MILLS, RICHARD FREDERICK Fresno
A.B., Fresno State College
- MITCHELL, DALE CLIFFORD San Francisco
A.B., Fresno State College
- MOLIN, MARIANNE ELISABET San Francisco
A.B., University of California
- MOORE, FRANK MARSHALL San Francisco
A.B., Los Angeles State College
- MOORE, THOMAS MICHAEL, JR. San Francisco
A.B., University of California
- MORHAIM, GRACE Los Angeles
A.B., University of Southern California
- MORKEN, JOHN STEVENSON Martinez
A.B., University of California
- MULLINS, JAMES CAGER San Francisco
City College of San Francisco
San Francisco State College
- MYERS, CHARLES ROBERT (1) San Francisco
University of Southern California
- NEUMAYR, JOHN WALLACE San Francisco
A.B., M.A., University of Notre Dame
- O'BRIEN, CARROLL PATRICK Brentwood
University of California
Stanford University
West Contra Costa Junior College
- O'CONNOR, DONALD LESTER Richmond
A.B., University of Colorado
- O'CONNOR, WILLIAM PATRICK Berkeley
A.B., University of California
- ODOM, LAWRENCE SYLVESTER (1) Oakland
A.B., Morris Brown College
- PARKER, JOHN ALBERT Stockton
A.B., College of the Pacific
- PEARSON, EDWARD HALE, JR. (1)
San Francisco
A.B., Princeton University
- PETERSEN, MURRAY BERGNER Oakland
A.B., University of California
- PETERSEN, ROBERT CHRISTIAN Fort Bragg
A.B., San Francisco State College
- PETERSEN, VERNON JENS Modesto
Modesto Junior College
- PETERSEN, WALTER NEWTON, JR. San Jose
A.B., San Jose State College
- PHILLIPS, MAX DAVID Sacramento
A.B., San Jose State College
- PIPER, SCOTT DONALD San Francisco
A.B., University of California
- PLATH, ROBERT WALTER San Francisco
A.B., University of Michigan
- PONTERIO, ANGELO FRANCIS Sacramento
A.B., Sacramento State College
- POTASZ, FRANK JOSEPH San Francisco
B.S., University of San Francisco
- PURTLE, CHARLES WILLIAM San Francisco
A.B., Great Falls College
- PUTLER, OWEN JUDKINS San Francisco
A.B., Fresno State College
- RAGAN, MARY ELIZABETH San Francisco
A.B., Dominican College
- REID, SAMUEL CHESTER (1) Santa Cruz
A.B., Stanford University
- RILEY, PETER WILSON Fresno
Fresno State College
- RINGWALT, CHARLES CARB, JR. San Francisco
A.B., Princeton University
- RODKIN, LEO CHARLES Chicago, Illinois
B.S., University of California
- ROGERS, HENRY South San Francisco
San Francisco State College
San Francisco City College
- ROSENTHAL, KENNETH WOLFGANG
Guatemala City, Guatemala
A.B., Syracuse University
- ROSSI, ROBERT LEWIS Ross
A.B., University of California
- ROVENS, LOUIS BERT San Francisco
College of the Pacific
- ROYLE, GORDON RICHARD Fresno
A.B., University of California
- RUBSAMEN, DAVID STANLEY San Francisco
A.B., M.D., Stanford University
- SAMSON, ELMER DORR San Francisco
A.B., Princeton University
- SCHAPIRO, SUZIE San Francisco
A.B., University of California

FIRST YEAR STUDENTS 1955-56

- SCHMIDT, PHILIP NICHOLAS.....San Mateo
San Mateo Junior College
San Jose State College
San Francisco State College
- SCHOLZ, ROCKNE JEROLD (2).....Palo Alto
San Jose State College
San Diego Junior College
- SCHROEDER, GEORGE LEONARD.....Daly City
A.B., University of California
- SCHUMACHER, PAUL FERDINAND.....San Francisco
A.B., San Francisco State College
- SCOTT, JOHN ROBERT.....San Mateo
A.B., San Jose State College
- SELBY, LLOYD HALL.....San Francisco
East Contra Costa Junior College
University of Arizona
University of Idaho
- SHAMES, IRA ALLEN.....San Diego
A.B., San Diego State College
- SHAW, EDWARD ALLEN (1).....San Francisco
B.S., University of California
- SHERIDAN, JOHN STANLEY.....San Francisco
B.S., University of Southern California
- SIGNORELLI, DOMENICO.....Lompoc
A.B., University of California at Los Angeles
- SILVESTRE, CLEMENTE ORDA-SANTIAGO
Stockton
A.B., College of the Pacific
- SIMMONS, THEODORE MIDDLETON, JR.
Belvedere
A.B., George Pepperdine College
- SISKIN, MARSHALL IRWIN.....Los Angeles
A.B., University of California
- SMALL, ALSAM.....San Francisco
A.B., University of California
- SMITH, JOHN BEVERLY (1).....Albany
A.B., San Francisco State College
- SMITH, RANSOME MICHAEL.....Clovis
A.B., Fresno State College
- SMITH, RONALD LEON.....Daly City
A.B., M.Mus.Ed., Lewis and Clark College
- SOLOV, LESSING CHARLES.....Los Angeles
A.B., University of California at Los Angeles
- SORTINO, ANTHONY THOMAS.....San Jose
B.S., University of Santa Clara
- SPEER, WILLIAM THOMAS, JR.....Mill Valley
College of Marin
San Francisco State College
- STANTON, JOHN MARK.....Bakersfield
University of California
Bakersfield Junior College
- STENBERG, DEAN EVERETT.....San Francisco
A.B., San Francisco State College
- STORER, THOMAS TONE.....San Francisco
A.B., University of California
- STRONG, CHARLES ASA, JR.....Piedmont
A.B., University of California
- SULLIVAN, PAXTON JAY.....Altadena
A.B., University of California
- SULLIVAN, VINCENT.....San Francisco
B.S., University of California at Los Angeles
- SWEET, ROBERT MICKY.....San Marino
B.S., University of Southern California
- TANEM, ROBERT MARVIN.....Oakland
A.B., University of California
- TEAZE, ROBERT STEWART.....San Francisco
A.B., Dartmouth College
- THOMAS, JOSHUA WARREN.....Mill Valley
College of Marin
- TIVIO, DAVID JOHN (1).....San Francisco
A.B., College of the Pacific
- TRAVIS, BENJAMIN.....San Francisco
San Francisco State College
Puget Sound College
- VAN VOORHIS, GEORGE THOMAS
Walnut Creek
East Contra Costa Junior College
Washington State College
University of California
City College of San Francisco
- VAUGHAN, GERALD ARTHUR (1)
Seattle, Washington
A.B., University of Seattle
- VINE, SERINA.....Berkeley
A.B., University of California
- WALKER, ELZIE RICHARD.....Colma
University of San Francisco
University of California
College of Marin
- WALKER, RUSSELL WINTER.....Aptos
Santa Monica City College
University of California at Davis
- WALSWORTH, JAMES HENRY.....Santa Ana
B.S., University of California
- WAY, DONALD ANDREW.....Piedmont
A.B., University of Arizona
- WECHSLER, KENNETH HARVEY.....San Francisco
B.S., University of California at Los Angeles
- WEDEL, PAUL ALBERT, JR. (1).....Berkeley
B.S., University of San Francisco
- WEINER, GERALD FADDEN.....Los Angeles
B.S., University of California at Los Angeles
- WEISHEIT, HERBERT WARREN.....San Anselmo
B.S., Indiana University
- WHEATCROFT, GARY DUNHAM.....Berkeley
A.B., University of California
- WILLIAMS, ALFRED CORNELIUS.....San Francisco
B.S., St. Mary's College
- WILLIAMS, JAMES DAY (1)
Klamath Falls, Oregon
A.B., Portland University
- WILLIAMS, NANCY DONNEL.....San Mateo
A.B., University of California
- WILLIAMS, WILLIAM L. JR.....Belmont
A.B., Fresno State College
- WILLIS, THOMAS ISOM.....San Francisco
B.S., Wilberforce University
- WOLFE, ALBERT E. (1).....Sacramento
A.B., Sacramento State College
- WOODHEAD, JOHN ERNEST.....Los Angeles
A.B., University of California
- WORTHINGHAM, JERRY BERTRAND
San Francisco
A.B., Mankato State Teachers College
- WORTHINGTON, WILLIAM FRANK, JR.
San Francisco
University of California
- WYGOLD, DANIEL MICHAEL.....Hayward
B.S., University of Omaha
- YEE, RONALD YAT CHEONG.....Honolulu, Hawaii
B.B.A., University of Hawaii
- YOUNG, WILLIAM MANLEY.....San Francisco
A.B., University of California
- ZAPPELLA, DAVID GENTILE.....San Francisco
M.D., State University of Iowa

SECOND YEAR STUDENTS 1955-56

- AGUILAR, JESS JOSEPH San Francisco
A.B., San Jose State College
- ALTER, SPENCER ROBERT San Mateo
Los Angeles State College
University of California
University of California at Los Angeles
University of Southern California
Los Angeles City College
- ANDERSON, DONALD EUGENE Oakland
University of California
- ATKINS, EDWARD PAUL Oakland
B.S., University of California
- BARKER, RICHARD MURPHY San Francisco
B.S.C., State University of Iowa
- BARTALINI, CHESTER RICHARD, JR. Alameda
A.B., University of California
- BERGER, KARL WANG San Francisco
University of Idaho
Stanford University
- BERNT, CHRISTIAN JOHN Ross
University of California
College of Marin
- BIANCHI, ALBERT Stockton
San Jose State College
Stockton Junior College
- BINGHAM, ROBERT CLAWSON Coronado
B.S., Miami University
- BORDEN, ROBERT PATRICK San Francisco
University of Washington
San Francisco State College
City College of San Francisco
University of California
- BROCK, CHARLES HOWARD San Francisco
B.B.A., University of Washington
- BROWN, ROYAL ARTHUR Sacramento
A.B., University of California
- BROWNLEE, WILLIAM LLOYD Berkeley
A.B., University of California
- CALFEE, TSAR NEVILLE, JR. Richmond
A.B., Stanford University
- CHARLES, ELINORE San Francisco
San Francisco State College
Brooklyn College
Los Angeles City College
City College of San Francisco
- CHEONIS, ERNEST GEORGE Sacramento
A.B., University of California
- COIL, HORACE ORCUTT Riverside
University of California
- CONNERY, MONTY W. San Francisco
Northern Illinois State Teachers College
Aurora College
San Francisco State College
- COOKE, JAMES MANSFIELD Menlo Park
B.S., Purdue University
- COSSABOOM, DAVID ALEXANDER Los Angeles
University of California at Los Angeles
University of California
- DAVIS, DAVID WILLIAM Marysville
A.B., University of California
- DEMEO, JOHN FRANCIS San Francisco
University of San Francisco
Santa Rosa Junior College
- DORMODY, RICHARD JAY Daly City
A.B., University of California
- DRISKELL, MARY LOU San Francisco
A.B., University of California
- EGAN, CLIFFORD ARTHUR Walnut Creek
A.B., University of California
- FABER, RAYMOND HALVOR San Francisco
B.S., University of San Francisco
- FREE, RAYMOND BRAFFORD, JR. San Francisco
A.B., University of Nevada
- FRIEDMAN, HENRY San Francisco
University of California
San Francisco City College
- GARCIA, FRANKLIN MARIO South San Francisco
A.B., San Francisco State College
- GIBSON, RALPH Dixon
(Special)
San Francisco Law School
- GLITHERO, JOHN CLYDE Daly City
A.B., San Diego State College
- GOODWIN, LUTHER AMBROSE Berkeley
B.S., University of California
- GREEN, ROBERT EDWARD San Francisco
University of California
- GUTHRIE, JERRY L. Rio Linda
Grant Technical College
- HAILLE, DONALD RALPH Selma
B.S., University of San Francisco
- HALEY, ROBERT WILSON, JR. Oakland
B.S., University of California
- HALL, EDWARD ALBERT Berkeley
A.B., University of California
- HATHAWAY, GALEN RAY Santa Rosa
A.B., University of Portland
- HOWE, DRAYTON FORD, JR. Oakland
A.B., University of California
- HUGHES, ROBERT LOUIS Oakland
A.B., University of California
- HUTCHINSON, GEORGE RICHARD San Francisco
A.B., University of California
- ISAAC, DAVID CLARENCE North Sacramento
Grant Technical College
- JAMES, ROBERT HARRY Berkeley
A.B., San Francisco State College
- JEWETT, HARLAN RUSSEL (1) San Francisco
A.B., University of California at Los Angeles
- JOHNSTON, FRED LYLE, JR. Pleasant Hill
B.S., University of California
- KAUNERT, MICHAEL DRUMMOND Oakland
University of California
College of Marin
Vallejo College
- KING, GEORGE Oakland
University of California
Stockton Junior College
- KREBS, JOHN HANS San Francisco
A.B., University of California
- LEVIN, AARON R. San Francisco
B.S., Yale University
- LIMON, RUDOLPH Santa Barbara
A.B., University of California
- LOUIE, FOONE Sacramento
Sacramento Junior College
University of California
- LUTHER, CHARLES WILLIAM Marysville
Grant Technical College

SECOND YEAR STUDENTS

1955-56

- MCGIRR, WILLIAM PHILIP Ross
 M.S., Harvard University
 MACKAY, FRANCES-JANA Mill Valley
 A.B., Smith College
 MALLERY, JOSEPH ARTHUR, JR. San Francisco
 B.B.A., University of Washington
 MARDIKIAN, ROBERT ZACK Fresno
 A.B., Fresno State College
 MARREN, THOMAS JAMES Concord
 Modesto Junior College
 MELEF, PAUL JOSEPH Redlands
 Occidental College
 MEYENBERG, WERNER DAVID, JR. Salinas
 A.B., University of California
 MEYER, B. CLEVELAND San Francisco
 A.B., University of Washington
 MILLER, FREDERICK JAMES San Francisco
 University of California
 Colorado College
 MILONAS, JOHN EVANS San Francisco
 University of San Francisco
 University of California
 MOORE, VERNON ALLEN Berkeley
 A.B., University of California
 MOULIN, DONALD JAMES San Mateo
 B.S., University of California
 MOUSER, ELVIRA ANGELINA San Francisco
 A.B., University of Michigan
 MOUSER, JOHN EDWIN San Francisco
 University of California at Los Angeles
 Southeast Missouri State College
 MUSHRUSH, RAYMOND LFE San Francisco
 University of California

 NEWTON, ALBERT HOMER, JR. Yreka
 A.B., St. Mary's College
 NICHOLL, MONS MAHLUM Laguna Beach
 A.B., Claremont Men's College
 NICHOLS, RICHARD ALLYN Kingsburg
 University of California at Los Angeles
 Reedley Junior College
 Fresno State College

 O'CONNOR, ALLAN BARTLEY San Francisco
 A.B., University of California
 OTIS, DAVID EMERY San Francisco
 College of the Pacific
 Stockton College

 PFCKHAM, ROBERT MONTGOMERY, JR. San Francisco
 A.B., University of California
 PETERSON, JAMES HUGO San Francisco
 California State Polytechnic College
 San Francisco State College
 PETERSON, MERLIN DALE Fresno
 A.B., Fresno State College
 PHILBIN, JAMES THOMAS San Francisco
 B.S., University of California
 PICKERING, JERRALD KEITH San Francisco
 A.B., College of the Pacific
 PIERCY, WILLIAM DONALD San Francisco
 A.B., University of California
 PORTER, WILLIAM JOSEPH La Jolla
 B.S., University of Illinois
 PRIVETT, HOWARD JON Elsinore
 George Pepperdine College

 QUINN, JOHN LAWRENCE Eureka
 B.S.C., University of Santa Clara

 RADENSKY, JOSEPH HAROLD Sacramento
 A.B., University of California
 RANDOLPH, GILLESPIE ALLEN Los Angeles
 University of California at Los Angeles
 Los Angeles City College
 University of California
 REID, NORMAN STANLEY Hanford
 A.B., Fresno State College
 RENGA, LOUIS JOSEPH Santa Barbara
 A.B., San Francisco State College
 RICHARDS, ELIZABETH B. San Francisco
 B.S., University of California
 RIDDLE, ELVIN LAWSON Edwards
 B.S., University of Oregon
 RISER, HOWARD ELMER Los Altos
 A.B., San Jose State College
 ROGERS, JAMES FREDRIC Berkeley
 B.S., University of California
 ROMIG, HAROLD JOHN, JR. San Francisco
 Pennsylvania State College
 Stanford University
 Muhlenberg College
 ROTH, HADDEN WING Mill Valley
 University of California
 Marin Junior College
 University of California at Los Angeles
 RUSHING, CLARENCE ERNEST Sacramento
 University of California
 University of Georgia

 SALMON, SAMUEL MONROE San Pedro
 University of California
 SCHARF, WALTER DAVIS San Francisco
 A.B., University of California
 SCHNEIDER, ROBERT LLOYD San Francisco
 Contra Costa Junior College
 San Francisco State College
 SCHULZE, RICHARD MALCOLM Berkeley
 University of California
 SEARLE, HENRY REED San Francisco
 University of Chicago
 Carleton College
 SERRES, EMILE AIME San Francisco
 A.B., University of California
 SHANNER, ROBERT BRUCE, JR. La Jolla
 A.B., University of New Mexico
 School of Law, Tulane University
 University of California at Los Angeles
 (School of Law)
 SHELTON, JOHN MEREDITH Fresno
 A.B., Fresno State College
 SILEN, HAROLD San Francisco
 A.B., University of California
 SMITH, WARD MILLER Santa Cruz
 A.B., San Jose State College
 SOLOMON, EDWARD San Francisco
 B.S., University of Miami
 SOLOMON, GABRIEL WILLIAM Bakersfield
 University of California
 STEWART, THOMAS NELSON, JR. Berkeley
 West Virginia University
 STEWART, WILLIAM S. San Francisco
 University of California
 Vallejo Junior College
 STOKES, THEODORE HUDSON, JR. Palo Alto
 B.S., University of Southern California
 George Washington University Law School

**SECOND YEAR STUDENTS
1955-56**

<p>STONE, CHARLES VERNON.....San Francisco Wayne University University of Wichita University of Houston</p> <p>SUMIDA, MARSHALL MASARU.....Stockton B.S., Sophia University</p> <p>TAIT, ROBERT NEDEAU.....San Francisco San Francisco State College Kent State University</p> <p>THUESEN, DONALD CLINTON.....Fresno Fresno State College</p> <p>TONINI, DONALD EDMUND.....Eureka A.B., Humboldt State College</p> <p>VAN RAAM, IDA LYDIA ROGERS (1) San Francisco A.B., San Francisco State College</p>	<p>WETTEROTH, WARREN CHARLES Walnut Creek A.B., University of California</p> <p>WHITE, JAMES RAYMOND.....Los Angeles University of Southern California Los Angeles City College</p> <p>WILLETT, DAVID EDWARD.....San Mateo San Mateo Junior College</p> <p>WRIGHT, EDWARD MEREDITH....San Francisco A.B., University of California, Santa Barbara</p> <p>ZIEGLER, ARTHUR NICHOLAS, JR. San Francisco A.B., Stanford University</p>
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THIRD YEAR STUDENTS 1955-56

- ABEL, TIMOTHY Piedmont
University of California
- ALBRECHT, DONALD HADLEY San Carlos
University of Colorado
- AMARAL, LEROY JAMES Pleasanton
A.B., Stanford University
- ANDERSON, WILLIAM LOWELL Santa Ana
Santa Ana College
- ASHBURN, EUGENE CHARLES Marysville
A.B., San Jose State College
- AUGUSTINE, DON ARLEN San Diego
San Diego State College
- BACIGALUPI, EDMUND AUGUST... San Francisco
B.S., University of San Francisco
- BALOCCHO, EDDY PAUL Antioch
University of California
University of San Francisco
- BENSON, HOWARD ROBERT Hayward
B.S., University of California
- BERNSTEIN, WILLIAM San Francisco
A.B., University of California
- BRILLIANT, LEIGH MARVIN Berkeley
A.B., University of California
- BYRNE, WILLIAM EDWARD Berkeley
A.B., University of California
- CHRISTIANSEN, MARVIN JAMES... San Francisco
A.B., University of Iowa
- CINCOTTA, ANTONE GEORGE, JR.
San Francisco
B.S., University of San Francisco
- CLIFFORD, CHARLES HUGH San Francisco
B.S., University of San Francisco
- COMSTOCK, HARRISON FINLEY Santa Rosa
University of California
Santa Rosa Junior College
- COYLE, BOB EVERET Fresno
A.B., Fresno State College
- DOOLEY, DAVID MATTHEW San Francisco
A.B., St. Mary's College
- DRESSER, DUANE WOODWARD... San Francisco
B.S., University of California
- DUNGAN, IRVINE PETERSON San Francisco
A.B., College of Wooster
- FILIPPPELLI, JOSEPH ANTHONY... San Francisco
B.S., LeMoyne College
- FOLEY, GEORGE Las Vegas, Nevada
University of Nevada
- GALLERY, DANIEL FRANCIS San Francisco
Iowa State Teachers College
University of San Francisco
- GELLER, DANIEL MERTON (Graduate) (2)
San Francisco
B.A., University of Alabama
Boston University School of Law
- GRADY, FRANKLIN OGDEN Oakland
A.B., Syracuse University
- HARTMAN, JOHN LOREN San Francisco
A.B., University of California
- HAWKINS, HERBERT GAUIS San Francisco
A.B., Columbia University
- HAWKINS, LOUIS FRANCIS San Francisco
University of California
- HEID, HARRY WALLACE Napa
A.B., University of California
- HILL, GERALD NOEL-STORRS Mill Valley
A.B., Stanford University
- HINKELMAN, LLOYD Los Angeles
A.B., Stanford University
- HOWARD, FRANK EMMETT, JR. Oakland
B.S., University of California
- HUSEMAN, EUGENE LEWIS Lompoc
Santa Maria Junior College
- HUYSSOON, JOHN WILSON (Graduate)
San Rafael
B.S., United States Military Academy
LL.B., Georgetown University School of Law
- KEEGAN, MARGARET KATHLEEN
(Denver University) Denver, Colorado
A.B., Cornell University
University of Denver College of Law
- KELLER, EDWARD CAHOON Piedmont
A.B., Stanford University
- LINDOW, LOUISA ROSE San Francisco
A.B., University of Colorado
- MCCULLOUGH, BERNARD PATRICK... Hollister
B.S., University of Santa Clara
- MCGUIRE, THOMAS BRUCE San Francisco
B.S., University of California
- MCKITTRICK, JAMES RALPH Arcata
Humboldt State College
- MACDONALD, ROBERT JOHN Burlingame
B.S., University of Scranton
- MACKAY, PHYLLIS DEVON Piedmont
A.B., University of California
- MARIE-VICTOIRE, OLLIE M. San Francisco
A.B., Denver University
- MAROUK, EDWARD VASKEN Fresno
A.B., Fresno State College
- MARSH, EDWARD EARL, JR. Daly City
California Maritime Academy
San Diego Junior College
San Diego State College
University of California
- MEEDER, THEODORE HAUCK, JR.
San Francisco
University of California, Santa Barbara
La Verne College
- MOISEEFF, GREGORY San Francisco
A.B., University of California
- MOSCONE, GEORGE RICHARD ... San Francisco
A.B., College of the Pacific
- OTERO, JACK ARTHUR San Francisco
B.S., University of San Francisco
- OWEN, MELVILLE Mill Valley
A.B., Principia College
- PACKARD, DAVID WAYNE San Francisco
B.S., Western Illinois State College
- PERRY, JAMES San Francisco
A.B., St. Thomas College
- PHILLIPS, GORDON CLARKE Compton
A.B., University of California
- PIERCE, DAVID MERWYN Richmond
West Contra Costa Junior College
- PORTER, LOUIS STEPHEN El Cerrito
University of California

THIRD YEAR STUDENTS

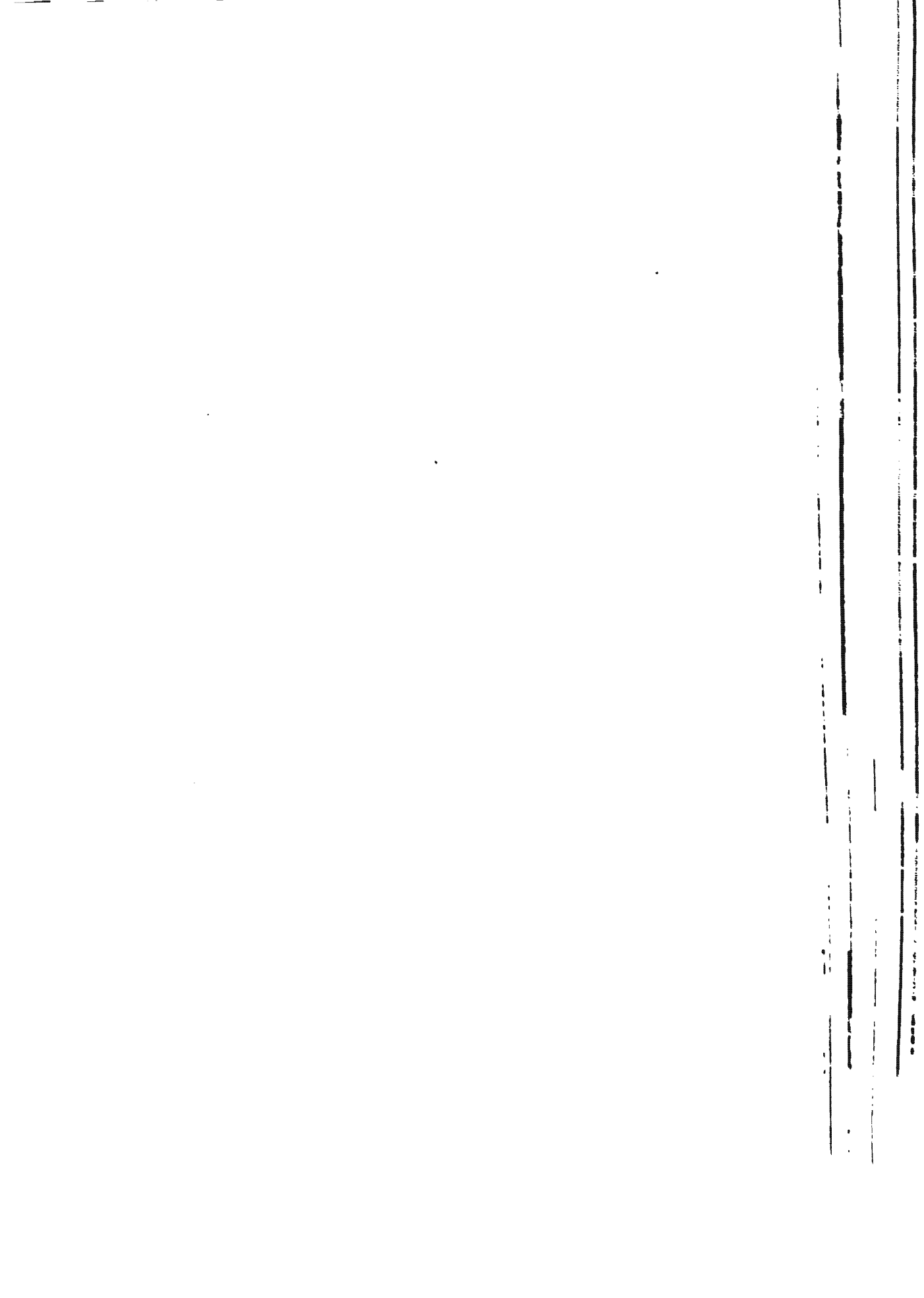
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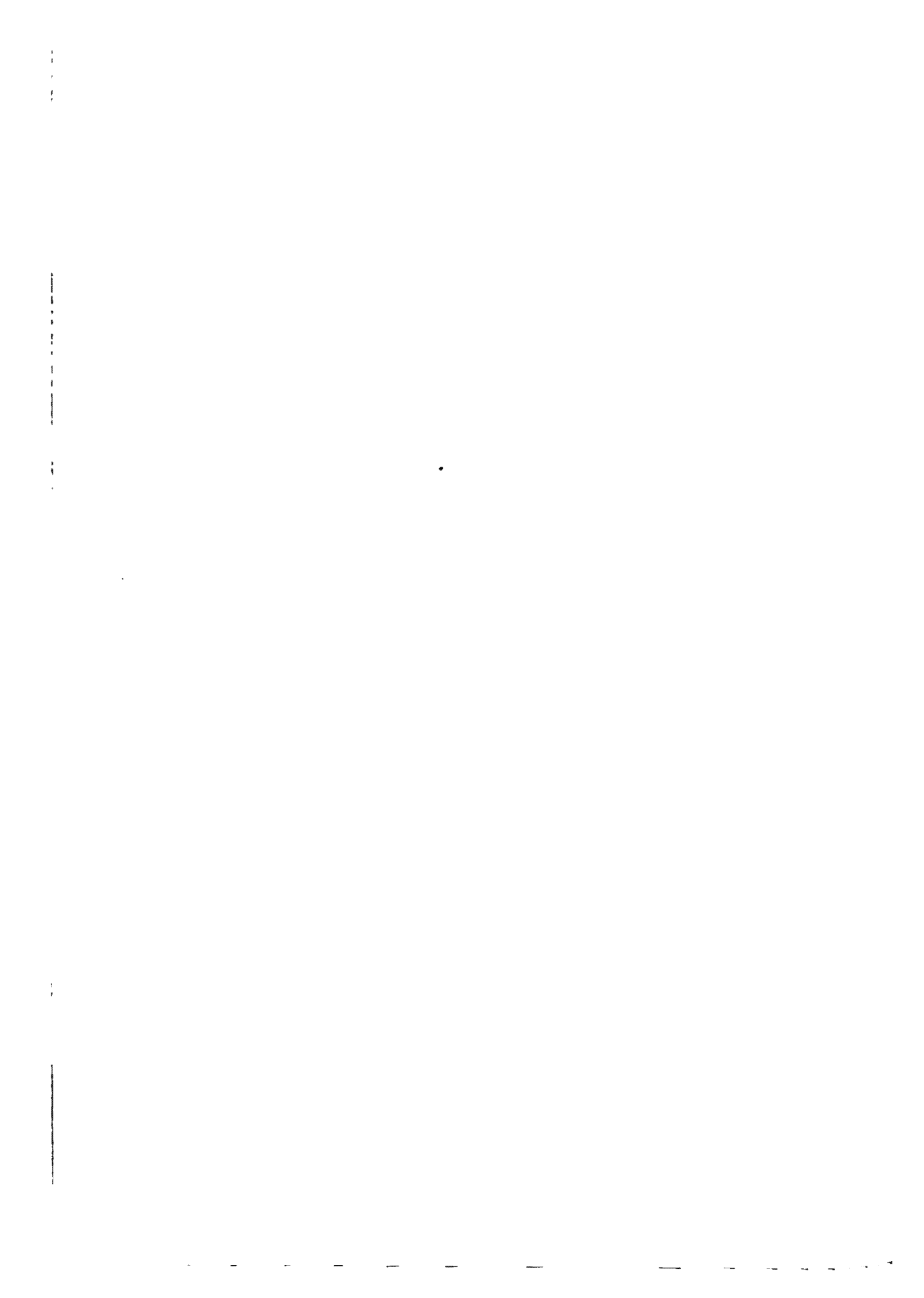
POY, HENRY ALLEN Berkeley A.B., Claremont Men's College	VAN HOOK, JANE LOUISE..... Oakland B.S., Samuel Houston College
PRESTON, HUGH LAWSON San Francisco A.B., University of California	VASQUEZ, FRANK JOSEPH..... Lodi Long Beach State College
ROGERS, HARRY C..... San Francisco San Diego State College Sacramento State College	WANER, JOHN ANDREW..... San Francisco University of Wichita
SHERR, MORRIS M..... Modesto A.B., San Jose State College	WOOD, HENRY COBB..... San Lorenzo B.S., University of Alabama
SHORE, WALTER GORDON..... San Francisco University of California	WOOTTON, RICHENS LACEY..... San Francisco University of Alaska
SIGGINS, RICHARD JOSEPH San Francisco A.B., St. Mary's College	WYLAND, FRANK EDWARD, JR.... San Francisco Fresno State College
STEVENSON, JACK CARL..... Baldwin Park Mt. San Antonio College Fresno State College	YAKUTIS, ALEXANDER BENEDICT San Francisco St. Bede College
TITCOMB, FREDERICK JAMES..... San Francisco A.B., State College of Washington	ZECHER, ALBERT MICHAEL..... San Francisco B.S., University of San Francisco

FOURTH YEAR STUDENTS

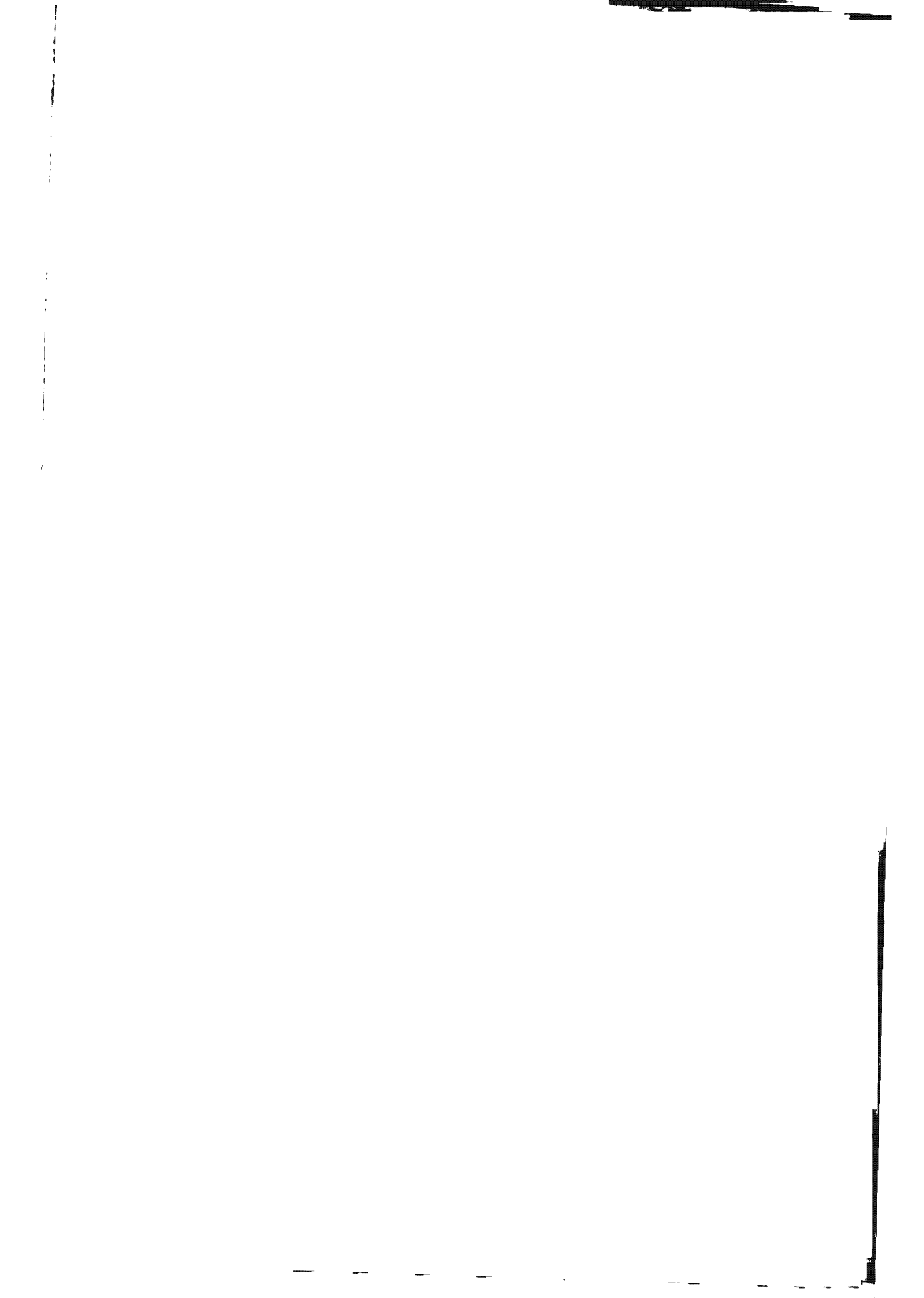
1955-56

HADDAD, JACK..... San Francisco University of California at Los Angeles Roosevelt College Allegheny College	MANSFIELD, PAUL ALVIN..... San Francisco City College of San Francisco Los Angeles City College
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california school of fine art

1956-1957



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california school of fine arts
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san francisco

**Affiliated with the Western College Association
and the University of California**

**Founding Member of the National Association
of Schools of Design**

**Accredited as a Specialized Institution to grant a
Degree of Bachelor of Fine Arts**

**Approved for Veterans under Public Law 16, 346
and 550**

maintained by the san francisco art association

Telephone ORdway 3-2640

Gurdon Woods, Director

CALIFORNIA SCHOOL

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CALIFORNIA SCHOOL

the school & san francisco

of fine arts

THE CALIFORNIA SCHOOL OF FINE ARTS, established in 1874, is the oldest art school in the west and one of the oldest in the United States. The School is maintained by the San Francisco Art Association, a non-profit organization entirely supported by its members and private donations.

The School is located on the slope of Russian Hill, one of the most picturesque sections of San Francisco. From the School you can see the wide sweep of the Bay and the bustling activity of world-famous Fisherman's Wharf. Clearly visible is Telegraph Hill with its renowned Coit Tower standing stark against the sky. Nearby is Chinatown and North Beach—the Italian quarter—and not far away is the downtown shopping area.

San Francisco, one of the world's most cosmopolitan and cultural cities, has three outstanding Art Museums—the San Francisco Museum of Art, the Palace of the Legion of Honor and the deYoung Museum located in beautiful Golden Gate Park. The city's Ballet, Opera and Symphony seasons are outstanding annual events.

The School itself is ideally equipped for the artist. Attractively designed, its architecture is typical of California for the buildings are grouped around a spacious patio, and here, in the temperate San Francisco climate, many of the School's activities center. In addition to studios, laboratories and student facilities, the School houses galleries where students, faculty and other outstanding artists exhibit, a magnificent library and the headquarters of the Art Association.

The California School of Fine Arts offers professional training in four departments. The Painting, Sculpture and Graphic Arts department covers pictorial and sculptural representation, composition and expression with emphasis on both craftsmanship and experimentation. The department of Design for Commerce and Industry offers comprehensive training in illustration, advertising art and lettering, ceramics and allied fields. The Ceramics department offers training in methods, materials, design and decoration. The department of Photography stresses technique, communication and creative seeing. Many basic courses are shared by all departments in the first two years of the four-year program and students are encouraged to elect courses in departments other than their own major to broaden their development.

The School offers a Bachelor of Fine Arts degree and is one of the few educational institutions in the world qualified for this degree program. The B.F.A. curriculum expands professional training into the fields of history, communication through language, psychology and science to emphasize the tremendous contribution the creative personality can make to the progress of civilization. With the 1955-1956 school year the School also will offer teacher training courses.

The Faculty of the School is composed of distinguished leaders in the fields of Art and Education. The Faculty abounds with men and women who have won national and international prizes—who have held sought-after Fellowships and who have been chosen to execute commissions all over the world.

Through the creative accomplishments of its Faculty, Alumni and Students the School has attained its world-wide reputation.





... is the focal point and symbol of the basically free approach the faculty and students of the California School of Fine Arts bring to their work. The oldest Art School in the west is noted for its contemporary treatment of painting. In classes like the one pictured above there is emphasis on experimentation and craftsmanship, and in all the courses given at the school there is recognition of and stress on the contribution the creative personality can make to the progress of civilization.



In the ceramics studios, too, importance is given to composition and expression and useful design as well as the beauty of a work of Fine Art, as illustrated in this handsome piece of pottery.





In the beautiful and spacious gallery continuous exhibitions are held and demonstrate the quality of sculpture and painting achieved at the School.



California school
the faculty
of fine arts

REX ASHLOCK

Painter. Studied at the Universities of Washington and California and the California School of Fine Arts. Taught at University of California Extension and Berkeley Evening School. Exhibits nationally.

ROGER TERRY BARR

Painter and textile designer. Studied at the Universities of Wisconsin and Mexico and at Pomona, Claremont (M.F.A., 1949). Traveled and studied throughout Europe. Taught at the University of California, Los Angeles. Exhibits nationally. On leave of absence.

DORR BOTHWELL

Painter and textile designer. Studied University of Oregon, Rudolph Schaeffer School of Design, California School of Fine Arts and in Paris. Former head of Department of Flat Design, Parsons, New York. Exhibits nationally and internationally.

HALL BYTHER

Designer. Studied at California College of Arts and Crafts and the California School of Fine Arts. Free-lance designer working with local and eastern wallpaper and fabric manufacturers.

RALPH DU CASSE

Painter. Studied at the University of Cincinnati, California College of Arts and Crafts and the University of California (M.A., 1948). Taught at the University of California, Berkeley. Exhibits nationally and internationally.

CHARLES M. CLARK

Designer and advertising artist. Studied at Art Institute of Chicago and California School of Fine Arts. Presently production manager of Smith, Tepper, Sundberg, Inc.

RICHARD FISCUS

Educator. Studied at the University of California (M.A., 1952). Advanced work in sociology and elementary education, Ohio State University. Taught at Ohio State University, College of the Pacific, and in the elementary and secondary schools of California.

JIM FORMAN

Illustrator. Studied at California School of Fine Arts and under private instruction. Has worked for national advertising agencies in New York and San Francisco. Member Advertising Art Associates.

PAUL Q. FORSTER

Illustrator. Studied at California School of Fine Arts. Taught at Stanford University and California College of Arts and Crafts. Wartime artist with OWI in C.B.I. Theatre during the war.

RUSSELL HOFFMAN

Humanities. Studied at Universities of Chicago and California (M.A., 1953). Ph.D. thesis in Hardy's Theory of History.

ROBERT HOLDEMAN

Painter. Studied Los Angeles City College; scholarships Chouinard Art Institute, Hans Hoffman. Taught at Chouinard Art Institute and Kann Institute of Art. Formerly Supervisor Visual Aids Department, Douglas Aircraft Company.

JACK HOYT

Designer. Studied at California School of Fine Arts. Worked with the United States Army Engineers; at present an associate of Cornelius Sampson and Associates.

PIRKLE JONES

Photographer. Studied at California School of Fine Arts. Taught with Ansel Adams' Photography Workshop, 1952. Included in national photographic exhibitions.

ROBERT KATZ

Film producer. Studied at University of Zurich, Switzerland (L.L.D.), and at the Sorbonne, Paris. Formerly Assistant Chief of Production Planning, International Motion Picture Division, U. S. Department of State.

SQUIRE KNOWLES

Exhibit planner and designer. Studied at California School of Fine Arts, University of California, and in the Orient. Formerly Assistant City Planner, San Francisco. Art critic for *Arts and Architecture*. Typographic designs, *Architectural Forum*.

KEITH MONROE

Sculptor and industrial designer. Studied at University of California (B.A., 1939). Exhibits nationally and internationally.

J. EDWARD MURPHY

Artist and educator. Studied at Leeds College of Art, N.C.D. London; Slade School of Fine Arts, London University, A.S.S.A. Formerly Head of the Department of Design, University of Otago, New Zealand. Lecturer Royal College of Art, London; Fellow of Royal Society of Arts.

NATHAN OLIVEIRA

Painter and graphic artist. Studied at California College of Arts and Crafts (M.F.A., 1952). Formerly Head of Graphics Department at California College of Arts and Crafts. Exhibits nationally and internationally.

JOAN JOCKWIG PEARSON

Ceramist. Studied at University of Syracuse (B.F.A., Art and Education) and New York State College of Ceramics, Alfred University (M.F.A., Industrial Ceramics and Design). Formerly taught Rochester Institute of Technology.

RALPH PUTZKER

Painter. Studied at the University of California (B.A., M.A., 1952), the University of Guatemala and the University of Michoacan. Exhibits on West Coast and Latin America.

FREDERICK W. QUANDT, JR.

Photo-illustrator; architectural, museum and press photographer. Studied at San Francisco Junior College and California School of Fine Arts. Worked with U. S. Army Air Force.

ZYGMUND SAZEVICH

Sculptor. Studied at University of California and California School of Fine Arts. Member teaching staff, Mills College. Exhibits on West Coast and South America.

HUNTLEY SOYSTER

Designer. Studied at Art Center School, Los Angeles. Formerly Chief Designer for Pacific Coast Division, Owens-Illinois Glass Co., and Art Coordinator for North American Aviation Corporation. Presently with Huntley Soyster and Associates.

JEAN VARDA

Painter. Studied in Munich and Paris. Formerly taught at Black Mountain College and Marylhurst College. Former lecturer. U.C.L.A., Reed College, and Sacramento State College. Exhibits nationally and internationally.

JAY WERLHOF

Humanities. Studied at University of California (M.A., 1952). Formerly taught History at University of California. Special studies in cultural aspects of European and American history.

ADRIAN WILSON

Printer and publisher. Frequent winner "50 Best Books of the Year" award, American Institute of Graphic Arts. Free-lance book designer for University of California and Stanford University presses.

Other leading artists and specialists equally prominent in their fields will augment the faculty as guest instructors.

day & night courses

DAY COURSES

All courses, unless otherwise indicated, will be given during both the Fall and Spring semesters: "a" denotes courses given only during the Fall semester; "b" denotes courses given only during the Spring semester.

The maximum number of units possible for each course and the required number of units for a B.F.A. are given in the curriculum outline on pages 14 and 15.

FIRST YEAR COURSES

1 DRAWING I

TO BE ANNOUNCED

Problems in observation and the translation of these observations into graphic terms. The examination of the structure and articulation of the human anatomy. Explorations of line, shape, and volume, and the development of technical skills.

3 DESIGN I

BOTHWELL

Color control and the study of natural elements and their application to design. (New students not admitted at mid-year.)

4 WORKSHOP I

MONROE

Introduction to three dimensions. Study of the inherent characteristics of wood, metal and plastics for an understanding of three-dimensional space in graphic presentation and in preparation for sculpture.

5 SCULPTURE I **TO BE ANNOUNCED**

Elementary consideration of Form relating to modeling in clay. Work from the human figure. Development of an understanding of mass and shape and control of a medium.

10a DRAFTING I **HOYT**

Basic working knowledge of essential tools and equipment necessary to a career in design for commerce. Observation and the organization for presentation of that which is observed.

11b INTRODUCTION TO PRINTING **WILSON**

Survey of reproduction processes and typography. Practical work with typesetting and printing. Visits to printing plants.

15 CERAMICS I **PEARSON**

Basic instruction in preparation of clay, coil, and wheel methods. Problems in sizing and shaping.

20 PHOTOGRAPHY I **JONES**

Introduction to photography. Emphasis on photographic "seeing". History of photography. (Equipment: Polaroid camera furnished by C.S.F.A.; Weston exposure meter required of student.)

30 ENGLISH I **FISCUS**

Conceptual communication through the spoken and written word with special reference to art criticism and the communication of ideas.

31 HISTORY I **HOFFMAN**

Study of various social sciences and of theories of social, cultural and historical change. Analysis of social growth with special attention to the role of the artist in effecting changes in thought and belief.

32 INTRODUCTION TO ART **WERLHOF**

Definitions of art. The function of the school and the meaning of its curriculum. Art as a profession. Discussion and secondary research on ideas about art and aesthetics. Survey of Western European art.

SECOND YEAR COURSES

51 DRAWING II **DU CASSE**

An introduction to space drawing and the control of two- and three-dimensional elements on the picture plane.

57 OBJECTIVE DRAWING **TO BE ANNOUNCED**

Development of technical and expressive skill in the rendering of observed reality.

52 PAINTING I **ASHLOCK-PUTZKER**

Emphasis on the ability to represent objects observed but not with such premature skill as to eclipse further insight into the challenges and possibilities of various approaches to painting.

- 55 **COLOR AND COMPOSITION** VARDA
Investigation of technical, spatial and emotional aspects of color. Imaginative and expressive use of the pictorial area. Use of transparent and opaque water color.
- 58 **GRAPHICS I** OLIVEIRA
General introduction to history of the three principal creative printing forms; tools and techniques; applying tools and materials to creative ends; introduction of color to printing forms.
- 53 **SCULPTURE II** SAZEVICH
Continuation of clay modeling. Techniques for casting in plaster and various cast stones.
- 56 **METAL SCULPTURE I** TO BE ANNOUNCED
Direct use of metals for sculptural expression. Welding, brazing and casting.
- 60b **DRAFTING II** HOYT
Continuation of No. 10a with emphasis on professional practices.
- 61a **COLOR THEORY** KNOWLES
The history of color and the scientific investigation into color systems and measurement. The mixing of pigments in order to obtain desired colors.
- 63 **ADVERTISING LAYOUT I** TO BE ANNOUNCED
Introduction to design for newspaper, magazine and direct mail advertising. Media for reproduction and production methods.
- 64 **LETTERING I** CLARK
Knowledge of the kinds and qualities of letters currently in use and those historically important. Understanding of commercial sources of letters and exercises in their use. Drawing of fundamental styles and practice in correct and efficient use of appropriate tools.
- 65 **CERAMICS II** PEARSON
Continuation of Ceramics I. Wheel and mold methods. Preparation of glazes. Introduction to decorating techniques.
- 70 **PHOTOGRAPHY II** JONES-QUANDT
Flash, artificial and studio lighting. Copy work. Aesthetics for photography and lectures and seminars relating general art and design fundamentals to the medium of photography. (Equipment required of student: 4x5 view camera and tripod, Weston exposure meter.)
- 80b **ENGLISH II** MURPHY
The basic sources and traditions of Western literature and their usefulness to artists. The Bible as a major source of allusion, symbol and value. Examination of poetry and its use to intensify and clarify meaning.
- 81 **HISTORY II** WERLHOF
American history with reference to related events in Europe. Emphasis on ideas and trends leading to the Constitution, political divergencies and conflict of ideas leading to the Civil War, changes in American societal form by depression fears and two World Wars.

82 MODERN ART PUTZKER
The major schools and artists in painting, sculpture, architecture and design, from the Romantics to the present, including illustrations from music and poetry.

83a PSYCHOLOGY HOFFMAN
Study of basic types of modern psychology. Theories on the assimilation of experience in the process of personality growth. The application of psychology in creative expression.

THIRD YEAR COURSES

101 DRAWING III OLIVEIRA
The use of prerequisite knowledge and experience to develop recognition of individual potential.

102 PAINTING II PUTZKER
Work from observation and imagination in all media: Still-life, landscape and figure; abstract and non-objective work. Individual assistance and group discussions.

103 SCULPTURE III SAZEVICH
Advanced modeling. Work directly in cast stone and magnesite.

106 METAL SCULPTURE II TO BE ANNOUNCED
Direct use of the widest possible range of materials with special emphasis on the integration of their characteristics with the expression.

108 GRAPHICS II OLIVEIRA
Continued exploration of the printing form as a valid means of contemporary artistic expression. Development of individual expression.

109a MATERIALS AND TECHNIQUES OF THE PAINTER PUTZKER
A thorough investigation of the character and techniques of the broad range of media used by the contemporary painter with particular emphasis on supports, pigments and vehicles.

110 ADVERTISING LAYOUT II SOYSTER
Container, package and label design. Exploration of a wide range of techniques and technical aids.

111 LETTERING II CLARK
Professional lettering practice. Problems of production. Technical and office procedures as practiced by the professional.

112 ILLUSTRATIVE DRAWING FORSTER
Work from the model and other sources of reference toward the development of techniques of drawing for publication. Analysis of mechanics, theory and traditions of illustration.

113 COMMERCIAL ILLUSTRATION FORMAN
Problems of advertising and magazine illustration. Work from the model and photographs.

FINE ARTS

Painting
Graphic Arts
Sculpture

FIRST YEAR

FALL UNITS		SPRING UNITS
4	1. Drawing I	4
4	3. Design I	4
2	4. Workshop I	2
1	5. Sculpture I	1
4	Humanities	4
<u>15</u>		<u>15</u>

SECOND YEAR

FALL UNITS

2	51. Drawing II
2	52. Painting I
2	55. Color and Composition
2	58. Graphics I
5	Humanities
2	Electives
<u>15</u>	

SPRING UNITS

2	51. Drawing II
4	53. Sculpture II
2	56. Mixed Sculpture I
5	Humanities
2	Electives
<u>15</u>	

DESIGN FOR COMMERCE

Advertising Art
Illustration

FALL UNITS		SPRING UNITS
2	1. Drawing I	2
4	3. Design I	4
2	4. Workshop I	2
1	5. Sculpture I	1
2	10a. Drafting I	
	11b. Printing	2
4	Humanities	4
<u>15</u>		<u>15</u>

2	57. Objective Drawing
2	55. Color and Composition
2	61a. Color Theory
	60b. Drafting II
2	63. Ad Layout I
2	64. Lettering I
5	Humanities
<u>15</u>	

2	57. Objective Drawing
2	52. Painting I
2	55. Color and Composition
	60b. Drafting II
2	58. Graphics I
5	Humanities
2	Electives
<u>15</u>	

CERAMICS

FALL UNITS		SPRING UNITS
2	1. Drawing I	2
4	3. Design I	4
2	4. Workshop I	2
1	5. Sculpture I	1
2	15. Ceramics I	2
4	Humanities	4
<u>15</u>		<u>15</u>

2	65. Ceramics II
2	53. Sculpture II
2	10a. Drafting I
	60b. Drafting II
2	55. Color and Composition
5	Humanities
2	Electives
<u>15</u>	

PHOTOGRAPHY

Photography
Film

FALL UNITS		SPRING UNITS
2	1. Drawing I	2
4	3. Design I	4
2	4. Workshop I	2
1	5. Sculpture I	1
2	20. Photography I	2
4	Humanities	4
<u>15</u>		<u>15</u>

6	70. Photography II
2	61a. Color Theory
2	55. Color and Composition
5	Humanities
0	Electives
<u>15</u>	

HUMANITIES

FALL UNITS		SPRING UNITS
2	30. English I	2
1	31. History I	1
1	32. Introduction to Art	1
<u>4</u>		<u>4</u>

2	83a. Psychology
	80b. English II
2	81. History II
1	82. Modern Art
<u>5</u>	

THIRD YEAR

FALL UNITS	SPRING UNITS
2 101. Drawing III	2
4 102. Painting II	4
1 109a. Material & Techniques	
5 Humanities	5
3 Electives	4
15	15

2 101. Drawing III	2
103. Sculpture III or	
4-8 106. Metal Sculpture II	4-8
5 Humanities	5
0-4 Electives	0-4
15	15

2 110. Ad Layout II	2
2 111. Lettering II	2
4 112. Illustrative Drawing	4
5 Humanities	5
2 Electives	2
15	15

4 112. Illustrative Drawing	4
2 113. Commercial Illustration	2
5 Humanities	5
4 Electives	4
15	15

2 101. Drawing III	2
3 114. Design	3
2 108. Graphics II	2
5 Humanities	5
3 Electives	3
15	15

4-8 115. Ceramics III	4-8
5 Humanities	5
2-6 Electives	2-6
15	15

4-8 120. Photography III and/or	4-8
4 122. Film	4
5 Humanities	5
2-6 Electives	2-6
15	15

2 190. English III	2
1 191. History III	1
2 192a. Primitive and Classic Art	
194b. Modern Art	2
5 ELECTIVES	5
2 220a. Creative Writing	
222b. Speech	2

FOURTH YEAR

FALL UNITS	SPRING UNITS
2 151. Drawing IV	2
4-6 152. Advanced Painting	4-6
6 Humanities	8
0-2 Electives	0-2
14	16

2 151. Drawing IV	2
4-6 153. Advanced Sculpture or	
156. Metal Sculpture	4-6
6 Humanities	8
0-2 Electives	0-2
14	16

3 160. Advanced Ad. Art	3
2 161. Advanced Lettering	2
1 191. Design Seminar	1
6 Humanities	8
2 Electives	2
14	16

3 162. Decorative Illustration	3
2 163. Advanced Commercial Illustration	2
1 191. Design Seminar	1
6 Humanities	8
2 Electives	2
14	16

2 151. Drawing IV	2
3 164. Advanced Design	3
1 191. Design Seminar	1
6 Humanities	8
2 Electives	2
14	16

4-6 165. Advanced Ceramics	4-6
1 191. Design Seminar	1
6 Humanities	8
1-3 Electives	1-3
14	16

3-7 170. Photography IV and/or	3-7
4 172. Advanced Film	4
1 191. Design Seminar	1
6 Humanities	8
0-4 Electives	0-4
14	16

2 180a. Scientific Approach	
180b. Science	4
2 181a. Philosophy	
182b. English IV	2
2 183. Medieval, Renaissance, Baroque	2
6 ELECTIVES	8
190b. Aesthetics	2
2 201a. Principles of Secondary Education	
201b. Educational Psychology	3

- 114 **DESIGN FOR PAPERS AND FABRICS** BYTHER
Design for wrappings, wall papers, and printed textiles in accord with professional practices.
- 115 **CERAMICS III** PEARSON
Advanced studies in design, decoration and glazes.
- 120 **PHOTOGRAPHY III** JONES-QUANDT
Extension of Photography II. Individual and group problems in documentation and reportage. (Required equipment: 4x5 view camera and tripod, Weston exposure meter, miniature camera.)
- 122 **FILM WORKSHOP** KATZ
Theory and practice of 16-mm. film production. Budgeting, planning, writing, shooting, editing, and analysis. (Course J *Film Seminar* should be taken concurrently but is not mandatory.)
- 130 **ENGLISH III** HOFFMAN
Survey of the various types of poetry with examination of means used to sharpen and intensify expression.
- 131 **HISTORY III** WERLHOF
Development of Western culture with emphasis on the relationships between the biological and psychological needs of man and the foundations of society. Investigation of the changes from agrarian to mercantile to industrial forms and the impact of two World Wars.
- 132a **PRIMITIVE AND CLASSIC ART** MURPHY
An investigation of art and architecture from Paleolithic and Mesolithic eras. The anthropological and art-historical approach. Designed to widen the students' appreciation and perception and to establish a non-ethnocentric approach toward primitive and classical art forms.
- 134b **EASTERN ART** MURPHY
The development of Oriental cultures; symbolism in Oriental art. Ideas and beliefs in Oriental societies.
- 220a **CREATIVE WRITING** FISCUS
Dramatization of ideas. Lectures, demonstrations and laboratory work. Group discussion and individual criticism of writing problems. (May be taken only with permission of the instructor.)
- 222b **SPEECH** HOFFMAN
This course offers practice and criticism in presenting a point of view. Special attention will be given to the study of semantics and general stylistic devices important to the clear communication of ideas and personal attitudes.

FOURTH YEAR COURSES

- 151 **DRAWING IV** OLIVEIRA
Continuation of Drawing 101.
- 152 **ADVANCED PAINTING** DU CASSE
Continuation of Painting 102

- 153 **ADVANCED SCULPTURE** SAZEVICH
Continuation of Sculpture 103.
- 156 **ADVANCED METAL SCULPTURE** TO BE ANNOUNCED
Continuation of Metal Sculpture 106.
- 158 **ADVANCED GRAPHICS** OLIVEIRA
Continuation of Graphics 108.
- 160 **ADVANCED ADVERTISING ART** SOYSTER
Emphasis on the finished product with its coordination of illustration, lettering, type and design.
- 161 **ADVANCED LETTERING** CLARK
Continuation of Lettering III.
- 162 **DECORATIVE ILLUSTRATION** FORSTER
The execution of projects for actual books and publications on a professional level.
- 163 **ADVANCED COMMERCIAL ILLUSTRATION** FORMAN
Problems in illustrating stories and advertisements. Magazine covers.
- 164 **ADVANCED DESIGN FOR PAPERS AND FABRICS** BYTHER
Continuation of No. 114.
- 165 **ADVANCED CERAMICS** PEARSON
Continuation of No. 115. Consideration of the problems of the professional potter. Ceramic sculpture.
- 170 **PHOTOGRAPHY IV** JONES-QUANDT
Advanced individual study under special instruction in selected fields of specialization to prepare students for professional photography. (Required equipment: 4x5 view camera and tripod, Weston exposure meter, miniature camera.)
- 172 **ADVANCED FILM WORKSHOP** KATZ
Continuation of No. 122.
- 180a **THE SCIENTIFIC APPROACH** MURPHY
The scientific method and its application to constructive thought and analysis of problems; the relation of scientific ideas to philosophy; a general survey of the various scientific fields.
- 180b **SCIENCE** WERLHOF
A survey of the organic and inorganic sciences and the particular processes by which they are governed. Two units of class work and lecture; two units of laboratory work involving experimental and field research.
- 181a **PHILOSOPHY** HOFFMAN
Study of the growth and flowering of philosophy in ancient Greece as the foundation of all major contemporary schools of thought. Parallel readings in modern examples will be discussed.
- 182b **ENGLISH IV** HOFFMAN
Themes of the major novels of European literature. Study of the novel as a comment on the meaning of history for the individual. Analysis of eight representative novels.

- 183 **MEDIEVAL, RENAISSANCE AND BAROQUE ART** MURPHY
The three periods taught as one culture with the Christian religion as its dynamic.
- 190b **AESTHETICS** FISCUS
A survey of aesthetics through detailed study of representative sources. Critical examination of both historic and contemporary ideas of aesthetic philosophy. Visiting leaders in related areas, lectures and discussion.
- 191 **DESIGN SEMINAR** KNOWLES
Knowledge of the professional field and the assembly of portfolios.
- 201a **PRINCIPLES OF SECONDARY EDUCATION** FISCUS
A survey of the general principles of secondary education; history; curriculum; organization and law. Attention given to recent trends and issues and the underlying philosophy of secondary schools
- 201b **EDUCATIONAL PSYCHOLOGY** FISCUS
The learning process; individual differences and measurements; principles applied to classroom observation and analysis.

NIGHT COURSES

Classes meet from 7:30 to 10:00 Mondays through Thursdays.

- A. **DRAWING AND COLOR** PUTZKER
Observational and expressive drawing. Introduction to problems of space division, the compositional use of black and white, color and textures. Delineation of form through various techniques. Work from the human figure.
- C. **PAINTING** TO BE ANNOUNCED
An approach to oil painting employing still life and model. Individual problems and criticism. Some group discussion.
- D. **PAINTING** HOLDEMAN
Studio practice in the basic concepts, methods and materials of painting. Still life and model. Individual assistance and group discussion. No prerequisite.
- F. **CERAMICS** PEARSON
Practical shop work in the design and execution of pottery by various methods. Special problems for advanced students and practicing potters. Emphasis on glazes.
- H. **SCULPTURE** SAZEVICH
Contemporary considerations of sculptural form. Individual expression. Work from the human figure utilizing modern techniques.
- I. **BASIC PHOTOGRAPHY** QUANDT
Basic elements of camera mechanics, photographic "seeing", exposure, developing and printing.
- J. **FILM SEMINAR** KATZ
Investigation of the motion picture as an art form. The aesthetics, structure and history of film. Screening and analysis of motion pictures.

NOTE: The school reserves the right to change classes, instructors, schedules, or to withdraw announced courses.

financial information

ADVANCE PAYMENT PLAN FOR TUITION

Unless other arrangements (Deferred Payment Plan) are made, 20% of the semester tuition plus fees is required at the time of registration. The balance is due 30 days after the beginning of the semester. Accounts not paid at the expiration of this time will automatically be placed on Deferred Payment Plan status. (Exception: Veterans with Certificates of Eligibility under P.L. 894, P.L. 16, and California State Veterans.)

DEFERRED PAYMENT PLAN FOR TUITION

Tuition is payable in four installments in the amount shown in the table on page 20. The first installment plus any additional fees is payable at the time of registration. The second, third and fourth installments are due at the end of four, eight and twelve weeks, respectively. Veterans under P.L. 550 may use this plan without paying the carrying charge included in the figures in the table.

WITHDRAWAL

The Registrar must be notified in writing if a student withdraws from a class or the School. Failure to attend classes or mere notification to the instructor will not be regarded as official notice of withdrawal, and refunds will not be authorized. Refunds will be on tuition and studio fees only and will be made according to the following table, the date of withdrawal being the date of receipt of official notification:

Withdrawal within first or second week	90% will be refunded
Withdrawal within third week	80% will be refunded
Withdrawal within fourth week	70% will be refunded
Withdrawal within fifth week	60% will be refunded
Withdrawal within sixth to ninth weeks	50% will be refunded

A student may be expelled for any reason considered sufficient by the Director. Refunds will not be made in such cases.

NOTE: All registrations are considered to be for the duration of the semester unless otherwise noted on the registration card

The Administration urges the students to observe closely the registration schedule as indicated on page 22. Enrollment is limited in all classes, and full-time degree students who register after the specified time may find that the classes they desire to enter have been filled. The School assumes that each registered student is familiar with the contents of this catalogue and agrees to its conditions.

TUITION FEES

TUITION: DAY OR NIGHT

Units per Semester	Advance Payment	Deferred Payment (Every Four Weeks)
15	\$210.00	\$58.00
14	209.00	57.50
13	208.00	57.00
12	204.00	56.00
11	198.00	54.00
10	190.00	52.00
9	180.00	49.00
8	168.00	46.00
7	154.00	42.00
6	138.00	38.00
5	120.00	32.00
4	100.00	28.00
3	78.00	22.00
2	54.00	15.00
1	28.00	8.00

STUDIO FEES

Charged to all students taking more than two periods per semester in the following subjects:

Graphics	\$10.00
Sculpture and Ceramics	15.00
Photography and Film Workshop	20.00

Studio fees cover the additional cost of materials and equipment furnished by the School for these courses.

OTHER FEES

Change of Schedule \$1.00
(No schedule changes will be made after the first three weeks of classes.)

Extra Transcripts, each \$1.00
(Students are entitled to one transcript of record on completion of their studies. No transcripts will be given students whose accounts are not in order.)

Late Registration \$5.00
(This fee is charged to all students who register after the close of the registration period (not chargeable to the V.A.).)

SUPPLY ALLOWANCES

The maximum supply allowance for veterans under P.L. 894 and P.L. 16 (per semester unless otherwise noted):

\$ 5.00 for courses Nos. 11b, J.

6.00 for course No. 4*.

10.00 for courses Nos. 30, 80b, 130, 182b, 31, 81, 131, 32, 82, 132a, 132b, 183, 180a, 180b, 83a, 181a, 190, 191, 201a, 201b, 220a, 22b, 52.

12.50 for course No. 55.

15.00 for courses Nos. 112, 113, 162, 163.

20.00 for courses Nos. 10a, 60b, 5, 53*, 103*, 105*, 106*, 153*, 156*, 114, 164, 56.

22.50 for courses Nos. 20, 70, 120, 170, I.

25.00 for courses Nos. 1, 51, 57, 101, 151, 109a, 61a, 63, 110, 160, 102*, 152*.

30.00 for courses Nos. 58, 108, 158, A.

35.00 for courses Nos. 64, 111, 161.

40.00 for course No. H.

45.00 for courses Nos. 122, 172.

50.00 for courses Nos. C, D.

15.00 for first two periods and

5.00 for each additional period for courses Nos. 15, 65, 115, 165.

*Supply allowance per period, per semester.

NOTE TO VETERANS

All courses listed have been approved under P.L. 550. Veterans carrying 12 units or more for credit are considered to be on full-time status by the V.A and will receive their government allowances on that basis.

Veterans enrolling under P.L. 550, P.L. 894, and P.L. 16 must present their certificates of eligibility at time of registration.

The School is recognized by the State of California Department of Veterans' Affairs. Veterans enrolling under California State Law must supply proper evidence of authority at time of registration.

FOREIGN STUDENTS

The C.S.F.A. has been approved by the Attorney General for acceptance of foreign students in accordance with the immigration laws.

GRADES

The following grade point system will be used for all classes:

A receives 4 grade points.

D receives 1 grade point.

B receives 3 grade points.

F receives 0 grade points.

C receives 2 grade points.

A grade point average of 2.5 will be required for graduation.

SCHOLARSHIPS

Students holding honor scholarships will be expected to maintain a grade point average of 3.0 or better throughout the year.

Students holding working scholarships do so with the understanding that they are expected to perform one-half hour's work per week per unit of subjects carried (fifteen or under). Failure to perform according to agreed working schedule without sufficient reason may be considered justification for cancellation of the scholarship.

NOTE: In any case of conflict between material presented on pages 19, 20 and 21 and that presented on pages 28, 29 and 30, the former will take precedence.

ADMINISTRATION

GURDON WOODS, *Director*

GERALDINE BOYD, *Accountant*

HELEN NELSON, *Registrar*

MARCELLE WINTERBURN, *Executive Secretary*

LUCY COONS, *Night Registrar*

FLOYD D. SMITH, *Purchasing Agent and Store Manager*

SAN FRANCISCO ART ASSOCIATION

SELAH CHAMBERLAIN, JR., *President*

JOHN E. CUSHING, *1st Vice-President*

PRENTIS COBB HALE, JR., *2nd Vice-President*

MRS. TURNER MCBAIN, *Secretary*

WILLIAM W. CROCKER, *Treasurer*

MISS FRANCES BALDWIN

MRS. ELLEN BRANSTEN

MRS. ARTHUR DUNNE

HECTOR ESCOBOSA

DONALD M. GREGORY

FRANCIS V. KEESLING, JR.

MISS ADALINE KENT

FRED MARTIN

JAMES MCCRAY

WILLIAM MOREHOUSE

MRS. FRANN SPENCER REYNOLDS

LEWIS B. REYNOLDS

ELDRIDGE T. SPENCER

GURDON WOODS, *Executive Director*

MISS NEALIE SULLIVAN,

Executive Secretary

MRS. ISABEL H. HOOD, *Public Relations*

CALENDAR

FALL SEMESTER

Registration

(Full-time students)	August 28 through September 5
(Part-time students)	September 4 through September 7
First day of classes	September 17
Armistice Day holiday	November 12
Thanksgiving recess	November 22 and 23
Christmas recess	December 24 through January 4
Resume school	January 7
Last day of semester	February 1

SPRING SEMESTER

Registration

(Full-time students)	February 4, 5, 6
(Part-time students)	February 6, 7, 8
First day of classes	February 11
Washington's Birthday	February 22
Easter recess	April 15-19
Resume school	April 22
Memorial Day	May 30
Opening of Annual Student Exhibition .	June 14
Last day of classes	June 21



The interesting location of the California School of Fine Arts is clearly visible in the above picture. Here a sketch class works out of doors in the temperate San Francisco climate and takes advantage of the panorama of hills and bridges and picturesque city scenes. In the sunny central patio below many of the student activities take place.





In the Anne Bremer Memorial Library students of the School, which offers a Bachelor of Fine Arts degree, have access to a rare collection of source materials . . .

which aid them in their study of the Humanities as well as the Graphic and Reproductive arts such as . . .

. . . Advertising Art



... Film Making



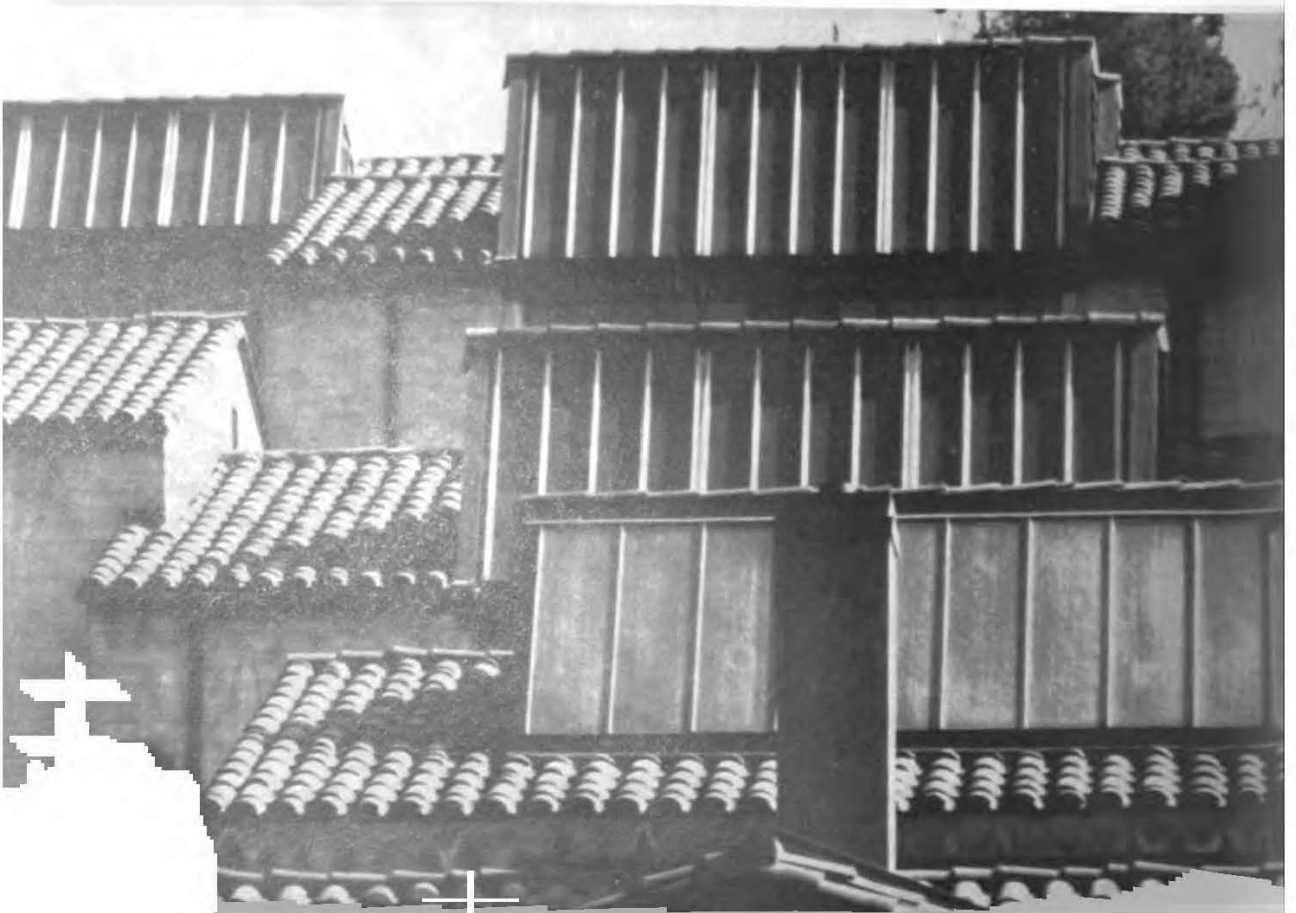
... Etching



... Printing



... and Photography
where technique as well as
communication and creative
seeing are stressed, as so well
illuminated by the effective
composition of the roofs
of the school below.



CALIFORNIA SCHOOL

GENERAL INFORMATION

OF FINE ARTS

SCHOLARSHIPS

The educational and cultural contributions of the California School of Fine Arts to students and the community are recognized generously by distinguished individuals and groups who have established Funds for Scholarship and other purposes.

A limited number of Honor Scholarships, sufficient to cover the tuition cost of the recipients' program, are awarded each year on the basis of merit and need. Scholarships are awarded at the close of each Spring term for the following school year. Application forms will be sent by the Registrar on request.

There are also a limited number of working Scholarships available to worthy and promising students to enable them to earn their tuition by performing various services for the School.

AGNES BRANDENSTEIN MEMORIAL SCHOLARSHIP

Founded in 1950 by the family and friends in memory of the late Miss Agnes Brandenstein. Awarded in the field of Ceramics.

ANNE BREMER MEMORIAL SCHOLARSHIP

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

ADELAIDE LEWIS SCHOLARSHIP

Founded at the bequest of the late Adelaide Lewis.

JAMES D. PHELAN SCHOLARSHIP

Founded at the bequest of the late Senator Phelan.

VIRGIL WILLIAMS SCHOLARSHIP

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

INTERNATIONAL SCHOLARSHIP

In cooperation with the Institute of International Education the School offers one Scholarship to a student from a foreign country.

ABRAHAM ROSENBERG FUND

The late Abraham Rosenberg left a bequest to be used at the discretion of the Board of Directors of the San Francisco Art Association.

PRIZES

GERTRUDE PARTINGTON ALBRIGHT AWARD

Given annually to the outstanding student in Drawing.

THE ROBERT HOWE FLETCHER CUP

Given annually as an Honorary Award to an undergraduate student for Outstanding Merit. The student's name is engraved on the cup.

I. N. WALTER SCULPTURE PRIZE

An award given annually from the income of a fund donated by the late Caroline Walter in memory of her husband, Isaac N. Walter.

ASSOCIATE ARTISTS' AWARD FOR PAINTING

An annual award given at the end of the Spring term by Vera Hyman (Associate Artist member) to an outstanding student.

ENTRANCE REQUIREMENTS

Credit students enrolling for the Bachelor of Fine Arts degree and/or for the Education program must submit proof of graduation from High School, or a transcript of previous training if transferring from another institution.

Veteran Students who plan to enroll under the G.I. Bill of Rights are required to submit authorization from the Veterans' Administration. In cases where necessary documents are not submitted at the time of Registration, Veteran students are required to pay fees as quoted on page 20. These fees are refundable on presentation of the proper authorization.

Veterans planning to enter the School under Public Law 550 (Korean Conflict) should contact the Registrar in regard to enrollment procedure.

Questions regarding subsistence allowance, change of status, etc., are handled directly by the local Veterans' Administration, 49 - 4th Street, San Francisco 3.

GRADES, CREDITS, CERTIFICATES AND TRANSCRIPTS

Student work is graded as follows:

A — Excellent

B — Good

C — Fair

D — Poor

E — Incomplete

F — Failing

The grade of "E" is given if a student for good reason has been unable to complete at least two-thirds of the expected work during a term. If he makes up the work satisfactorily, during the following term, the grade will be changed accordingly without penalty. If a student fails to make up the work, the grade will be changed to "F."

Full credit units shall be granted to students whose work is satisfactory and whose attendance records show no more than three unexcused absences per weekly class period per term. A credit unit is given (1) for each lecture hour per week (requiring two hours of study), (2) for each three-hour class period, and (3) for each three hours of required outside work, if carried for a whole term (18 weeks) with a minimum grade of "C."

No student shall carry more than 15 units per term without the permission of the Director.

Credit units are recognized by other institutions of higher learning and are transferable. The student enrolled for credit is entitled to a Transcript of Record if he leaves the School.

Students enrolled for credit will be granted a Certificate of Completion when they have completed 120 units of study in any chosen field, including at least six of the first and second year courses in the Humanities.

Students enrolled prior to the fall of 1954 work under different regulations and evaluation of their standing is available through the Registrar.

REGULATIONS

Enrollment commits the student to act in accordance with the following Regulations:

Students shall be in the studios or classes for which they are registered during their scheduled class hours. Any student arriving more than fifteen minutes late will be marked absent unless he brings an Excuse Slip from the Registration Office. Three Late slips shall constitute an absence.

Students may request schedule changes during the first week of the term without charge.

No schedule changes are possible after the first three weeks of each term.

Students enrolling after the first three weeks of the term may not receive academic credit for a course except by special arrangement with the Director.

In the case of illness, or for other excusable absence, work may be made up with the permission of both the Director and the Instructor.

The limit of Recess periods (10:40–11:00 a.m., 2:40–3:00 p.m. and 8:40–9:00 p.m.) shall be observed strictly.

The School reserves the right to dismiss any student whose work is unsatisfactory (below 1.0), or whose conduct is found by the Director to be contrary to the best interests of the School.

The School reserves the right to retain student work for exhibition purposes, and to reproduce and publish such work.

Student property which is not retained at the request of the School, and which is left on School premises one week after the close of the term, shall be subject to disposal at the sole discretion of the School.

The School is not responsible for loss or damage to student property.

FACILITIES

LIBRARY

The Anne Bremer Memorial Library contains one of the most comprehensive collections of art publications, reproductions and periodicals in the West.

GALLERY

A large exhibition gallery is used for displays of Faculty and Student work, other prominent artists and works of general interest.

SOCIAL HALL

A recreation hall is available for student and School activities.

CAFETERIA

Lunch and Recess refreshments are served at reasonable prices in the main building of the School.

STORE

The School operates a supply store for the convenience of the students.

LOCKERS

Lockers may be rented by the term. Padlocks are available for a refundable deposit. (See Financial Information, page 21.)

HOUSING

The School does not maintain residence accommodations. However, every effort is made to find suitable housing for students coming from outside the immediate area according to the needs of the student.

ACTIVITIES

STUDENT ASSOCIATION

The Association, an independent Student group, elects its own officers each term and plans its own activities, which include dances, round table discussions, exhibitions, and publication of *The Tower*.

The Association, in cooperation with the School, helps place students in contact with prospective employers. (Also see Working Scholarships, page 27.)

**All photographs in this catalogue were done by members of the Photographic
Department of the California School of Fine Arts.**

Cover Design by Ralph DuCasse.

Designed and printed by Adrian Wilson, San Francisco.



california school of fine arts

UNIVERSITY OF CALIFORNIA

LICK OBSERVATORY
(Lick Astronomical Department)

MOUNT HAMILTON, CALIFORNIA

MARCH, 1957

UNIVERSITY OF CALIFORNIA

LICK OBSERVATORY

(Lick Astronomical Department)

MOUNT HAMILTON, CALIFORNIA

MARCH, 1957

THE UNIVERSITY OF CALIFORNIA

GENERAL ADMINISTRATIVE OFFICERS

Robert Gordon Sproul, B.S., LL.D., Litt.D., *President of the University.*

Clark Kerr, Ph.D., LL.D., *Chancellor at Berkeley.*

Raymond B. Allen, M.D., Ph.D., LL.D., D.Sc., *Chancellor at Los Angeles.*

Stanley E. McCaffrey, A.B., *Vice-President—Executive Assistant*

Harry R. Wellman, Ph.D., *Vice-President—Agricultural Sciences.*

James H. Corley, B.S., *Vice-President—Business Affairs.*

Richard J. Stull, A.B., *Vice-President—Medical and Health Sciences.*

———, *Vice-President, University Extension.*

Claude B. Hutchison, M.S., LL.D., D.Agr. (hon.c.), *Vice-President of the University and Dean of the College of Agriculture, Emeritus.*

Robert M. Underhill, B.S., *Secretary and Treasurer of the Regents.*

Herman A. Spindt, Ph.D., *Director of Admissions and Director of Relations with Schools.*

THE GRADUATE DIVISION, NORTHERN SECTION

ADMINISTRATIVE OFFICERS

Morris A. Stewart, Ph.D., *Dean of the Graduate Division, Northern Section.*

William W. Monahan, Sr., A.B., *Business Manager.*

Clinton C. Gilliam, A.B., *Registrar.*

LICK OBSERVATORY

(Lick Astronomical Department)

OBSERVATORY STAFF

Charles Donald Shane, Ph.D., *Director and Astronomer.*
Hamilton M. Jeffers, Ph.D., *Astronomer.*
Gerald E. Kron, Ph.D., *Astronomer.*
Nicholas U. Mayall, Ph.D., *Astronomer.*
George H. Herbig, Ph.D., *Associate Astronomer.*
William P. Bidelman, Ph.D., *Assistant Astronomer.*
Olin J. Eggen, Ph.D., *Assistant Astronomer.*
Stanislavs Vasilevskis, Ph.D., *Assistant Astronomer.*
Harold F. Weaver, Ph.D., *Associate Research Astronomer.*
Carl A. Wirtanen, M.A., *Assistant Research Astronomer.*
James G. Baker, Ph.D., *Research Associate.*
Joel Stebbins, Ph.D., Sc.D., LL.D., *Research Associate.*

William H. Wright, B.S., Sc.D., LL.D., *Director, Emeritus, and Astronomer, Emeritus.*

FOUNDING 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. The project was completed in 1888 and an unexpended balance of \$90,000 was added to the endowment funds of the University. The site of the Observatory was chosen by Mr. Lick. Further information relating to the history of the Observatory is given in a pamphlet obtainable from the Secretary of the Observatory (price, 60¢).

LOCATION

The Observatory is 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 Observatory consists of a main building with offices, a lecture room, a new library wing (containing about 22,000 books, 400 current periodicals, and 2,300 pamphlets), and the domes of the 36-inch and 12-inch refractors, and of separate buildings for the 120-inch, Crossley, and Tauchmann reflectors, the meridian circle, the 20-inch Carnegie astrographic telescope, and the Crocker telescope. A fireproof building contains vaults for the storage of astronomical negatives, measuring instruments, photographic darkrooms, and laboratories. On the grounds are residences for the astronomers, dormitories, and shops. The Observatory is well provided with auxiliary instru-

ments, such as clocks, spectrographs, photometers, measuring engines, etc. 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 140 inches focal length, gift of the Carnegie Corporation. This instrument provides a field of good definition 6 degrees square.

120-inch Reflecting Telescope; funds amounting to approximately \$2,500,000 have been provided by the State Legislature for its construction; the dome was completed in March, 1952, optical work on the several mirrors was begun in September, 1952, the telescope mounting was completely assembled by December, 1954, and the 120-inch mirror was nearly parabolized by the end of 1955.

RESEARCH AND PUBLICATIONS

The equipment of the Lick Observatory is used entirely for research. The principal programs consist of the qualitative and quantitative analysis of stellar and nebular spectra; micrometric and photographic measurement of double stars, satellites, and comets; photographic observation of nebulae, star clusters, and planets; and photoelectric measures of the brightnesses and colors of stars and nebulae. The research work of the Observatory is carried out by the members of the scientific staff, by visiting astronomers, by astronomical assistants, and by graduate students.

The results of investigations are published in the *Publications of the Lick Observatory*, Volumes I to XX; *Contributions from the Lick Observatory*, Series II, begun in 1941, of which sixty-two numbers have been published; *Astronomical Photographs Taken at the Lick Observatory*; and the *Lick Observatory Bulletin*, Volumes I to XX. Numerous other papers have been published in various scientific journals. Volumes VII, XIX, and XX of the *Publications* contain investigations made at the Department of Astronomy at Berkeley (Leuschner Observatory).

THE ALEXANDER F. MORRISON MEMORIAL RESEARCH ASSOCIATESHIP

Funds for this appointment were provided 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 gift stipulated 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 Director of the Observatory.

REGULATIONS GOVERNING STUDENTS AT THE LICK OBSERVATORY

At the Observatory informal graduate instruction is offered by the scientific staff, in connection with their investigations. With the approval of the Director, students may also engage in independent research. All formal instruction in astronomy is provided by the Department of Astronomy at Berkeley (Leuschner Observatory).

As many qualified graduate students as can be given accommodations at Mount Hamilton may pursue astronomical studies at the Lick Observatory.

HIGHER DEGREES

Graduate students in residence at the Lick Observatory 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.

UNIVERSITY FELLOWSHIPS

The Regents have established three Lick Observatory fellowships. These permit the holders to undertake investigations in fulfillment of requirements for the degree of Doctor of Philosophy. The holder of one of these fellowships is normally nominated by the Chairman of the Department of Astronomy at Berkeley and may have his residence in Berkeley. The other two are nominated by the Director of the Lick Observatory and are expected to spend at least the first year of their incumbency at the Lick Observatory. It is essential that an appointee be a qualified graduate of a college or university 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.

ACCOMMODATIONS FOR STUDENTS

Living quarters are provided rent-free to students at the Observatory. The cost of board is approximately \$80 per month.

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 Lick Observatory, Mount Hamilton, California.



UNIVERSITY OF CALIFORNIA



Scripps
Institution
of
Oceanography

La Jolla, California

Announcement of

**SCRIPPS INSTITUTION
OF OCEANOGRAPHY**

LA JOLLA, CALIFORNIA

November 1956

UNIVERSITY OF CALIFORNIA

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

- His Excellency, GOODWIN J. KNIGHT, A.B.
Governor of California and President
of the Regents
State Capitol, Sacramento 14
- HAROLD J. POWERS
Lieutenant-Governor of California
State Capitol, Sacramento 14
- LUTHER H. LINCOLN
Speaker of the Assembly
4000 Redwood rd, Oakland 19
- ROY E. SIMPSON, M.A., Litt.D.
State Superintendent of Public
Instruction
721 Capitol av, Sacramento 14
- ARTHUR J. MCFADDEN, B.S., LL.B.
President of the State Board of
Agriculture
902 River lane, Santa Ana
- WILLIAM G. MERCHANT
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4
- CYRIL C. NIGG, A.B.
President of the Alumni Association of
the University of California
500 Muirfield rd, Los Angeles
- ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

- EDWIN W. PAULEY, B.S. (1970)
717 N Highland av, Los Angeles 38
- BRODIE E. AHLPORT, A.B. (1972)
5657 Wilshire blvd, Los Angeles 36
- EDWARD H. HELLER, A.B. (1958)
100 Montgomery st, San Francisco 4
- VICTOR R. HANSEN, LL.B. (1962)
2801 Quebec st, apt 625,
Washington, D.C.
- EARL J. FENSTON, A.B. (1964)
504 Helm bldg, Fresno 1
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SCRIPPS INSTITUTION OF OCEANOGRAPHY

HISTORY AND ORGANIZATION

THE SCRIPPS INSTITUTION OF OCEANOGRAPHY is a graduate research and teaching institution of the University of California, situated chiefly on the La Jolla campus of the University.

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 was 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.

On August 24, 1956, the Regents voted to take the necessary steps to expand over a period of years the faculty and facilities of the La Jolla campus, and to provide a graduate program emphasizing science and technology with such undergraduate instruction as is essential to support the graduate program.

The Scripps Institution is divided into four academic divisions: Marine Biology, Marine Geology and Geochemistry, Marine Geophysics, and Marine Resources. Supporting activities include marine facilities, machine and electronic shops, a library, business and accounting offices, a purchasing office and stockroom, and an aquarium-museum.

SITUATION

The La Jolla campus of the University consists of 158 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.

Twenty acres of marshland in Mission Bay belonging to the University constitute a wildlife refuge. It is planned that some of this land will also be used for experimental purposes.

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, a reinforced concrete structure 60 feet long and 60 feet wide, contains two stories plus a basement. The first floor is occupied by offices, the telephone switchboard, and a seminar room, which is also used for public lectures and scientific meetings. The basement contains laboratories and a room in which there is a stable pier for instruments susceptible to vibration. The second floor and part of the first are occupied by the library, consisting of a stack room with a capacity of about 30,000 volumes, and a reading room.

The George H. Scripps laboratory building is 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; the second floor houses geology laboratories and a class room.

William E. Ritter Hall is 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.

A four-story wing to Ritter Hall, with 21,420 feet of floor space, which is used for offices and laboratories, was completed in 1955. Among the special features are laboratories for use in the study of radioisotopes, two constant-temperature rooms, a high-pressure laboratory for deep-sea microbiological studies, a physical standards laboratory, and an experimental machine and electronics shop for use by staff members.

The Thomas Wayland Vaughan Aquarium-Museum has 12,255 feet of floor space. On the ground floor are the aquarium, which has fourteen large tanks ranging in capacity from 80 gallons to 2,500 gallons, and the museum. The basement contains the office of the Curator, workshops, laboratories, a conference room, and storage rooms. The top floor is used by the administrative staff of the Scripps Institution. The aquarium tanks are supplied with sea water from the Institution's own system. There are thirty display cases in the museum. Most of the Institution's collection of specimens for use in scientific work is not on display, being housed in the basement of this building.

Temporary buildings. There are ten temporary buildings on the La Jolla campus. Two of these contain machine and electronics shops and include a recording room for remote recording instruments installed on the sea bottom. The headquarters of the South Pacific Fishery Investigations of the U. S. Fish and Wildlife Service occupies another temporary building. Seven others house various divisional laboratories and offices.

Ten cottages are occupied as residences by members of the Institution staff.

In addition to the buildings on the La Jolla campus, approximately 49,000 square feet of floor space in fifteen 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, and space and facilities are also furnished, for laboratories and headquarters offices, to the Inter-American Tropical Tuna Commission.

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 range of about 2,500 miles at 8 knots. Her special equipment includes radio, radar and sonar gear, a dredging winch with 20,000 feet of $\frac{3}{8}$ -inch wire rope, and a hydrographic winch carrying 20,000 feet of $\frac{3}{16}$ -inch wire. The vessel has a main-deck laboratory of approximately 90 square feet, and berthing accommodations for thirteen crew members and scientists.

A *research vessel STRANGER*, length over all 134 feet, beam 24 feet, mean draft 13 feet. This vessel is a converted wooden-hulled yacht with a cruising speed of 12 knots and a cruising radius of 6,000 miles. She is equipped with scientific laboratories, hydrographic winch, sonar, radar, and radio. There are accommodations for seven scientists and thirteen crew members. The vessel is twin-screw. The main propulsion is by two 400-horsepower Washington Direct Reversible Diesel engines. She is equipped with a hydrographic winch carrying 20,000 feet of $\frac{3}{16}$ -inch cable and a dredging winch carrying 20,000 feet of $\frac{3}{8}$ -inch cable.

A *research vessel T-441*. This vessel is a 65-foot converted Army passenger and cargo boat of 90 tons, steel-hulled and Diesel-driven. She has a range of 1,830 miles and a cruising speed of 10.5 knots. There are accommodations for four scientists and five crew members. The vessel is single-screw. The main propulsion is a 205-horsepower Caterpillar Diesel.

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 sea-going tug and has a cruising range of approximately 6,800 miles at 10.5 knots. Electrically operated winches carrying $\frac{1}{2}$ -inch and $\frac{3}{16}$ -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 *research vessel SPENCER F. BAIRD*, 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 large converted Army sea-going tug and has a cruising range of approximately 5,800 miles at a speed of 10.5 knots. Electric and hydraulic winches carrying $\frac{5}{16}$ -inch and $\frac{3}{16}$ -inch wire rope are installed. One is capable of carrying 40,000 feet of cable tapered from $\frac{7}{16}$ inch to $\frac{3}{4}$ inch. A large deck laboratory provides adequate working space. Sonar, radar, loran, radio, and echo-sounding equipment is installed for navigation and for special investigations. There are accommodations for thirty-five scientists and crew members.

A *research vessel ORCA*, length on deck 100 feet, beam 22.5 feet, powered by two V8 Caterpillar Diesel main engines of 135 horsepower each. She carries accommodations for fourteen. The vessel is a converted U. S. Coast Guard patrol boat.

A 38-foot *buoy boat* is equipped with radio and portable echo-sounding equipment and powered with a 125-horsepower Diesel engine. A 38-foot *picket boat* is equipped with radio and powered by a 225-horsepower Diesel engine.

These vessels are used primarily for biological and geological field work in the local waters.

A *pier*, 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 U. S. Coast and Geodetic Survey and other aids to scientific work.

A *salt-water system*, including two concrete storage and settling tanks of 60,000-gallons capacity each, situated east of the laboratories at an elevation of about 90 feet. From the end of the pier sea water is pumped through 6-inch transite pipes into these tanks; it is then delivered by gravity through 2½-inch pipes to the laboratories and to the aquarium.

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

THE LIBRARY

The library contains over 30,000 volumes, 65,000 reports and reprints, 800 journals, of which 500 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 sciences. Special items include reports of investigations by marine stations in all countries, reports of oceanographic expeditions, and marine biological monographs. The library reflects a 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 large vessels mentioned previously 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 Station, and others, the Institution has a line of long-shore or near-shore observation stations which extends from San Diego to Cape Mendocino. It coöperates with the U. S. Navy and the U. S. Coast and Geodetic Survey in obtaining records of surface and subsurface 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, the Inter-American Tropical Tuna Commission, and the California Division of Fish and Game in studies of the population dynamics of pelagic fisheries. Since 1950, the Institution has sent several long expeditions into the Pacific. In the course of these, the vessels have visited Japan, Alaska, Peru, the Marshall Islands, the Tonga Islands, and Tahiti.

COURSES OF INSTRUCTION AND HIGHER DEGREES

Graduate and a few upper division courses in marine meteorology, biochemistry, geology, and microbiology; physical and chemical oceanography, phyto-

plankton, marine invertebrates, and biology of fishes are offered by the resident staff members throughout the year. 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 on other campuses 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.

A number of Research Assistantships are available to students who are accepted. Graduate Fellowships and a few Postdoctoral Research Fellowships are available in marine biology.

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 SESSIONS, 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. A limited number of Visiting Professorships are available to qualified investigators who are interested in pursuing modern investigations and stimulating fresh approaches to problems of marine biology.

ASSOCIATED LABORATORIES

The headquarters of the Institute of Marine Resources is on the La Jolla campus. This University-wide institute is devoted to fostering research and investigation of the resources of the sea. There are at present a Professor of Marine Food Technology at Berkeley, an Assistant Research Economist at Los Angeles, and an Associate Professor of Geology at La Jolla.

Also housed at La Jolla is the laboratory of the South Pacific Fishery Investigations of the U. S. Fish and Wildlife Service.

The laboratory of the Inter-American Tropical Tuna Commission is located in the Scripps laboratories at Point Loma.



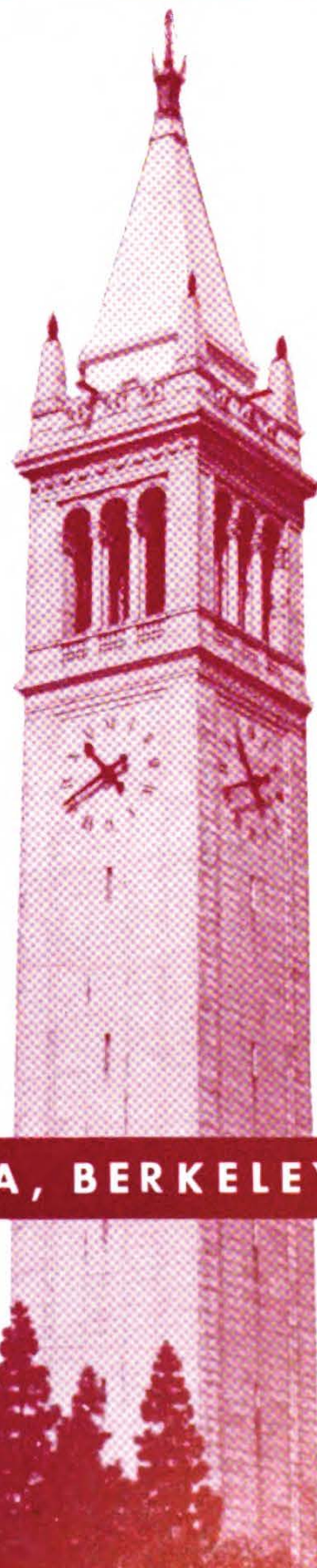
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BULLETIN

UNIVERSITY OF CALIFORNIA, BERKELEY

SUMMER SESSIONS

1956



BULLETIN

PUBLISHED AT BERKELEY, CALIFORNIA

Volume L

March 15, 1956

Number 21

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**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 Summer Sessions, Room 1, Administration Building, Berkeley 4, California, or the Office of the Summer Sessions, 405 Hilgard Avenue, Los Angeles 24, California, or by the Registrar, Santa Barbara College, University of California, Goleta, California.

UNIVERSITY OF CALIFORNIA
BERKELEY

Summer Sessions • 1956



UNIVERSITY OF CALIFORNIA

BERKELEY

Summer Sessions

1956

TWO SIX-WEEK SESSIONS

June 18 to July 28

July 30 to September 8

MARCH 15, 1956

CALENDAR

First Summer Session—Six Weeks

- May 23Wednesday—Application for Admission due.
June 16Saturday—Registration, 8:30 a.m.—1:00 p.m.;
Gymnasium for Men.
June 18Monday—Registration, 8:30 a.m.—1:00 p.m.;
Gymnasium for Men; classes begin.
July 4Wednesday—Independence Day—Academic
and Administrative holiday.
July 27Friday—Final Examinations.
July 28Saturday—Last day of classes.

Second Summer Session—Six Weeks

- July 10Tuesday—Application for Admission due.
July 28Saturday—Registration, 8:30 a.m.—1:00 p. m.;
Gymnasium for Men.
July 30Monday—Registration, 8:30 a.m.—1:00 p.m.;
Gymnasium for Men; classes begin.
September 3Monday—Labor Day—Academic and
Administrative holiday.
September 7Friday—Final Examinations.
September 8Saturday—Last day of classes.

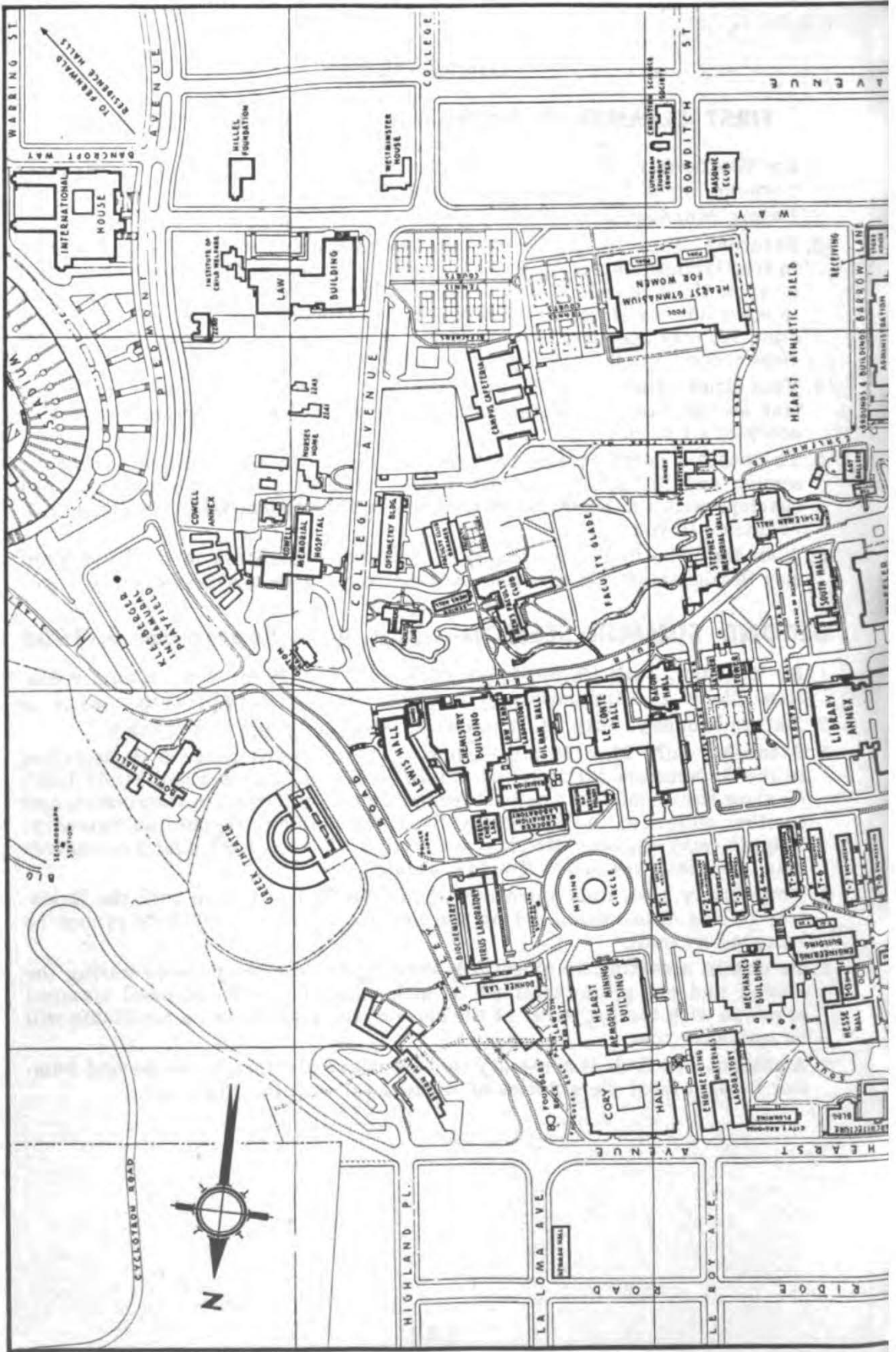
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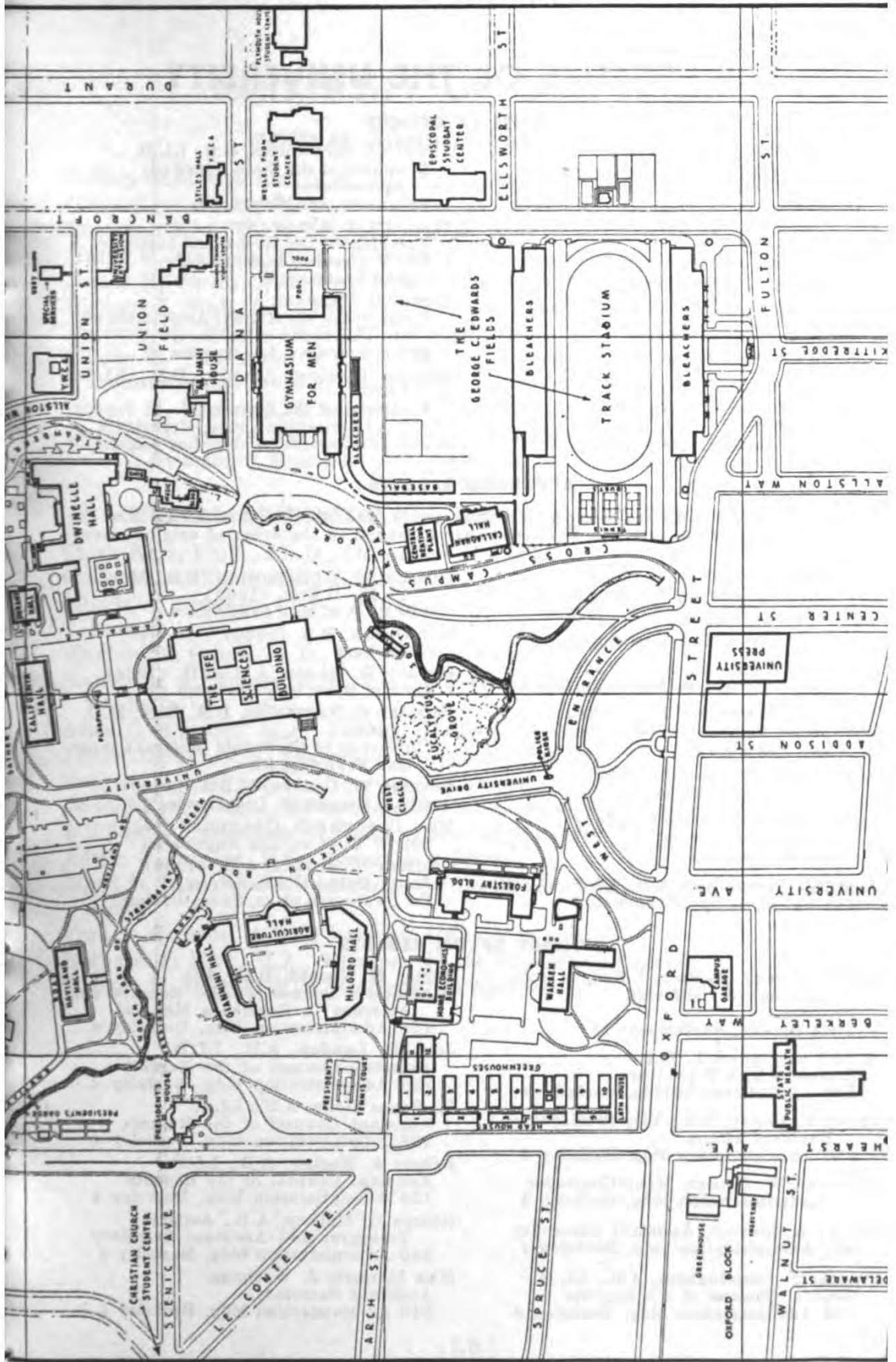
FIRST SUMMER SESSION—June 18 to July 28, 1956

1. **By Wednesday, May 23**, file application with the Office of the Summer Sessions, Room 1, Administration Building, Berkeley 4, California.
2. **Before Monday, June 11**, if possible, select lodgings in Berkeley.
3. **Saturday, June 16, 8:30 a.m.—1 p.m.**—All students report for registration to the Gymnasium for Men; a) obtain an Admission Card and Study List; b) show the Admission Card on demand to the Registrar, to instructors, and to other officers of the University. Students unable to register on Saturday, June 16, may register Monday, June 18, 8:30 a.m.—1:00 p.m. *The regular class exercises will begin Monday, June 18.*
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.
5. **To obtain a certificate of record**, showing the courses pursued 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.
6. A student who finds it necessary to discontinue his work in the First Summer Session must file a notice of withdrawal with the Registrar.

SECOND SUMMER SESSION—July 30 to September 8, 1956

1. **By Tuesday, July 10**, file application with the Office of the Summer Sessions, Room 1, Administration Building, Berkeley 4, California.
2. **Before Monday, July 23**, if possible, select lodgings in Berkeley.
3. **Saturday, July 28, 8:30 a.m.—1 p.m.**—All students report for registration to the Gymnasium for Men; a) obtain an Admission Card and Study List; b) show the Admission Card on demand to the Registrar, to instructors, and to other officers of the University. Students unable to register on Saturday, July 28, may register Monday, July 30, 8:30 a.m.—1:00 p.m. *The regular class exercises will begin Monday, July 30.*
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.
5. **To obtain a certificate of record**, showing the courses pursued 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.
6. A student who finds it necessary to discontinue his work in the Second Summer Session must file a notice of withdrawal with the Registrar.





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(1968)
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Santa Barbara News-Press,
De La Guerra plaza, Santa Barbara

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SUMMER SESSIONS • BERKELEY, 1956

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- Clinton C. Gilliam, A.B., *Registrar.*
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Marion M. Stewart, *Senior Administrative Assistant, Summer Sessions.*

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- James J. Lynch, Ph.D., *Associate Professor of English.*
- Ronald A. Macauley, Ph.D., *Instructor in Mathematics.*
- Agnes C. McClelland, M.A., *Associate in Home Economics.*
- Thomas R. McConnell, Ph.D., LL.D., D.H.L., *Professor of Education.*
- James McCray, M.A., *Associate Professor of Art.*
- Bruce R. McGarvey, Ph.D., *Assistant Professor of Chemistry.*
- Sidney E. McGaw, Ed.D., *Regional Supervisor, Bureau of Industrial Education, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- Henry M. McGee, Ed.D., *Principal, Golden State Elementary and Junior High School, Oakland; Lecturer in Education in the Summer Sessions.*
- John P. McKee, Ph.D., *Assistant Professor of Psychology.*
- Foster McMurray, Ph.D., *Associate Professor of Education, University of Illinois.*
- Robert L. McNulty, Ph.D., *Instructor in English.*
- Donald H. Madsen, Ph.D., *Principal, Santa Fe Elementary Schools, Oakland; Lecturer in Education in the Summer Sessions and Principal of the Demonstration Elementary School.*
- Yakov Malkiel, Ph.D., *Professor of Romance Philology.*
- F. Theodore Malm, Ph.D., *Assistant Professor of Business Administration.*
- John G. Marica, M.A., *Assistant in Mathematics in the Summer Sessions.*
- Hans M. Mark, Ph.D., *Junior Research Physicist; Lecturer in Physics in the Summer Sessions.*
- Bartolomeo Martello, A.B., *Assistant in Italian in the Summer Sessions.*
- Warren C. Martin, M.M., *Director of Graduate Studies, Westminster Choir College, Princeton; Lecturer in Music in the Summer Sessions.*
- Benson Mates, Ph.D., *Associate Professor of Philosophy.*
- Claude Meade, M.A., *Assistant in French in the Summer Sessions.*
- Donald W. Meinig, Ph.D., *Assistant Professor of Geography, University of Utah.*
- LeRoy C. Merritt, Ph.D., *Professor of Librarianship and Vice-Chairman of the Department.*

- Edward F. Meylan, Ph.D., *Associate Professor of French.*
- William B. Michael, Ph.D., *Director, University Testing Bureau and Associate Professor of Education and Psychology, University of Southern California.*
- John U. Michaelis, Ph.D., *Professor of Education.*
- Joseph Mileck, Ph.D., *Assistant Professor of German.*
- Ralfe D. Miller, M.A., *Supervisor of Physical Education.*
- Daryl G. Mitton, M.B.A., Ph.D., *Assistant Professor of Business Administration.*
- Michel Mohrt, *Visiting Lecturer in French Literature.*
- Ian W. Monie, M.B., Ch.B. (Glas.), *Associate Professor of Anatomy.*
- Maurice Moonitz, C.P.A., Ph.D., *Professor of Accounting.*
- Gail E. Moore, M.Ed., *Lecturer in Education; Supervisor of Trade and Industrial Relations, California State Department of Education.*
- Marcos A. Morínigo, Ph.D., *Associate Professor of Spanish, University of Southern California.*
- Barbara J. Mortenson, M.A., *Assistant in Spanish in the Summer Sessions.*
- Fredric John Mosher, Ph.D., *Associate Professor of Librarianship.*
- Richard D. Mosier, Ph.D., *Associate Professor of Education.*
- Warren Mullins, M.A., *Lecturer in Speech.*
- Robert F. Murphy, Ph.D., *Assistant Professor of Anthropology.*
- Charles Muscatine, Ph.D., *Associate Professor of English.*
- Rollie J. Myers, Jr., Ph.D., *Assistant Professor of Chemistry.*
- John B. Neilands, Ph.D., *Assistant Professor of Biochemistry.*
- Yolanda S. Newby, M.A., *Acting Instructor in Decorative Art.*
- Frank C. Newman, A.B., LL.B., LL.M., J.S.D., *Professor of Law.*
- Heber A. Newsom, M.A., *Supervisor of Physical Education; in charge of the Children's Recreation School.*
- Howard W. Nicholson, Ph.D., *Acting Assistant Professor of Business Administration.*
- Carl L. Nordly, Ph.D., *Professor of Physical Education and Chairman of the Department.*
- Stefan A. Novak, M.A., *Assistant Professor of Sculptural Design.*
- Donald S. Noyce, Ph.D., *Associate Professor of Chemistry.*
- Richard O'Hanlon, *Assistant Professor of Sculptural Design.*
- Ronald L. Olson, Ph.D., *Professor of Anthropology.*
- M. Edwin O'Neill, M.S., *Associate Professor of Criminalistics.*
- Kay Ortman, *Lecturer in Special Education in the Summer Sessions.*
- William G. Panschar, B.S., *Acting Assistant Professor of Business Administration.*
- Nicolaas J. Pansegrouw, Ph.D., *Executive Director, Institute for Research on Crime and Delinquency, Inc., New York City; Lecturer in Social Welfare in the Summer Sessions.*
- Andreas G. Papandreou, Ph.D., *Professor of Economics.*
- Arthur B. Pardee, Ph.D., *Assistant Professor of Biochemistry.*
- J. Cecil Parker, Ed.D., *Professor of Education.*
- Thomas F. Parkinson, Ph.D., *Associate Professor of English.*
- James B. Parsons, Ph.D., *Assistant Professor of Far Eastern History and Culture (Riverside).*
- Clyde P. Patton, Ph.D., *Assistant Professor of Geography, Syracuse University.*
- Frederic Peachy, Ph.D., *Assistant Professor of Classics.*

- Charles A. Pease, A.B., *Associate Supervisor of Physical Education.*
- Grace Petittclerc, A.B., *Lecturer in Special Education in the Summer Sessions.*
- Elizabeth Pfeiffer, M.S.W., *Lecturer in Social Welfare.*
- John G. Phillips, Ph.D., *Assistant Professor of Astronomy.*
- Norman E. Phillips, Ph.D., *Instructor in Chemistry.*
- Raul Pimentel, A.B., *Assistant in German in the Summer Sessions.*
- David Pirtz, M.S., *Associate Professor of Civil Engineering.*
- Milos Polivka, M.S., *Assistant Professor of Civil Engineering.*
- T. Clyde Polson, Ph.D., *Supervisor of the Teaching of Science.*
- John H. R. Polt, M.A., *Assistant in Spanish in the Summer Sessions.*
- Aileen Poole, Ph.D., *Guidance Consultant, Alameda Unified School District; Lecturer in Education in the Summer Sessions.*
- Leo J. Postman, Ph.D., *Associate Professor of Psychology.*
- Richard E. Powell, Ph.D., *Professor of Chemistry.*
- Johannes M. Proskauer, Ph.D., *Assistant Professor of Botany.*
- Helen Prouty, Ph.D., *Assistant Professor of Education, San Diego State College.*
- W. Gerson Rabinowitz, Ph.D., *Assistant Professor of Greek.*
- John H. Raleigh, Ph.D., *Associate Professor of English.*
- Lydia Rapoport, M.S.S., *Assistant Professor of Social Welfare.*
- Armin Rappaport, Ph.D., *Assistant Professor of History.*
- Catherine D. Rau, Ph.D., *Professor of French, Dominican College.*
- Francis L. Ray, M.A., *Lecturer in Dramatic Art in the Summer Sessions.*
- David W. Reed, Ph.D., *Associate Professor of English.*
- Eugene E. Reed, Ph.D., *Assistant Professor of German.*
- Theodore L. Reller, Ph.D., *Professor of Education.*
- David A. Revzan, Ph.D., *Professor of Business Administration.*
- Nicholas V. Riasanovsky, D.Phil., *Associate Professor of History, State University of Iowa.*
- Maida L. Riggs, M.A., *Acting Instructor in Physical Education, University of Massachusetts.*
- Alexander L. Ringer, Ph.D., *Acting Assistant Professor of Music.*
- Benbow F. Ritchie, Ph.D., *Associate Professor of Psychology.*
- Royal A. Roberts, M.B.A., *Associate Professor of Business Administration.*
- David A. Rodgers, Ph.D., *Assistant Professor of Psychology.*
- Hugo Rodríguez-Alcalá, Ph.D., *Assistant Professor of Spanish, The State College of Washington.*
- Jack Dean Rogers, M.B.A., Ph.D., *Assistant Professor of Business Administration.*
- George L. Rosecrans, M.A., *Special Supervisor in Apprenticeship Training, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- William S. Rouverol, M.S., *Associate Professor of Engineering Design.*
- Felix Ruvolo, *Associate Professor of Art.*
- Everett D. Ryan, M.S., *Assistant Supervisor of Physical Education.*
- David Rynin, Ph.D., *Professor of Speech.*
- George W. Salt, Ph.D., *Assistant Professor of Zoology (Davis).*
- Louis D. Sass, Ph.D., *Assistant Professor of Librarianship.*
- Theodore R. Sarbin, Ph.D., *Associate Professor of Psychology.*
- Donald E. Savage, Ph.D., *Assistant Professor of Paleontology and Curator in the Museum of Paleontology.*

- Wallace S. Sayre, Ph.D., *Professor of Political Science, Columbia University.*
Aldo D. Scaglione, Dottore in Lettere, *Assistant Professor of Italian.*
Robert A. Scalapino, Ph.D., *Associate Professor of Political Science.*
Karl E. Schevill, Ph.D., *Supervisor of the Teaching of Foreign Languages.*
James F. Schon, B.S., *Instructor in Engineering, San Francisco City College.*
David E. Schroer, A.B., *Instructor in Mathematics.*
Manfred H. Schrupp, Ph.D., *Professor of Education and Chairman, Division of Education, San Diego State College.*
Alexander C. Scordelis, M.S., *Assistant Professor of Civil Engineering.*
Abraham Seidenberg, Ph.D., *Associate Professor of Mathematics.*
C. Donald Shane, Ph.D., *Director of the Lick Observatory and Astronomer.*
Charles Shapley, M.A., *Assistant in French in the Summer Sessions.*
Donald H. Shively, Ph.D., *Assistant Professor of Oriental Languages.*
Gerald S. Silberman, M.A., *Assistant in Mathematics in the Summer Sessions.*
Henry Silver, M.A., *Assistant in French in the Summer Sessions.*
Gideon Sjoberg, Ph.D., *Assistant Professor of Sociology, The University of Texas.*
Engel Sluiter, Ph.D., *Professor of History and Acting Chairman of the Department, Second Summer Session.*
Milo W. Smith, J.D., *Assistant Professor of Business Law.*
J. Percy Smith, Ph.D., *Associate Professor of English, University of Saskatchewan.*
Ralph I. Smith, Ph.D., *Associate Professor of Zoology.*
John W. Snyder, Ph.D., *Instructor in History.*
Walter W. Soroka, Sc.D., *Professor of Engineering Design and Vice-Chairman of the Division.*
Blake L. Spahr, Ph.D., *Assistant Professor of German.*
Zanwil Sperber, Ph.D., *Instructor in Psychology (Los Angeles).*
Robert T. Sprouse, M.B.A., *Acting Assistant Professor of Business Administration.*
James R. Squire, M.S., *Associate Director of Supervised Teaching and Supervisor of the Teaching of English; Principal of the Demonstration Secondary School.*
Kenneth M. Stampf, Ph.D., *Professor of History.*
George J. Staubus, M.B.A., Ph.D., C.P.A., *Assistant Professor of Accounting.*
John Mortimer Stephens, Ph.D., *Professor of Education and Psychology, The Johns Hopkins University.*
Charles F. Stewart, M.A., *Associate in Business Administration.*
Lawrence H. Stewart, Ed.D., *Assistant Professor of Education.*
Kenneth B. Stoddard, Ph.D., *Professor of Physiological Optics and Optometry and Chairman of the Department.*
John M. Stone, Ph.D., *Lecturer in Physics and Research Associate.*
Reed K. Storey, B.S., C.P.A., *Associate in Accounting.*
Karl Strauch, Ph.D., *Assistant Professor of Physics, Harvard University.*
Edward W. Strong, Ph.D., *Professor of Philosophy.*
Otto Struve, Ph.D., Sc.D., *Professor of Astronomy and Director of the Leuschner Observatory; Chairman of the Department.*
Elliot Studt, M.A., *Chief, Training Branch, Division of Juvenile Delinquency Service, Children's Bureau, Washington, D.C.; Lecturer in Social Welfare in the Summer Sessions.*

- John H. Sullivan, M.A., *Assistant in German in the Summer Sessions.*
- Robert George Sumpter, B.L.S., M.A., *Librarian, Capuchino High School, San Bruno; Lecturer in Librarianship in the Summer Sessions.*
- Harry W. Sundwall, Ph.D., *Associate Professor of Educational Psychology, Michigan State University.*
- Paul W. Tappan, Ph.D., LL.B., Jur.Sc.D., *Professor of Sociology, New York University.*
- Philip B. Taylor, Ph.D., *Assistant Professor of Political Science, University of Michigan.*
- Lawrence L. Thomas, Ph.D., *Instructor in Slavic Languages.*
- Rose Thomasian, A.B., *Assistant in Italian in the Summer Sessions.*
- Karl A. Thomte, M.A., *Assistant Supervisor of Trade and Industrial Teaching, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- Irwin Titunik, A.B., *Assistant in Slavic Languages in the Summer Sessions.*
- Leonard Tornheim, Ph.D., *Lecturer in Mathematics.*
- Julian Towster, J.D., Ph.D., *Professor of Political Science.*
- Muriel G. Trimble, A.B., *Assistant in German in the Summer Sessions.*
- George E. Troxell, B.S., *Professor of Civil Engineering.*
- Ernest S. Trumpler, Ph.D., *Instructor in German.*
- Robert C. Tryon, Ph.D., *Professor of Psychology.*
- Frederic C. Tubach, M.A., *Assistant in German in the Summer Sessions.*
- Frederick T. Tyler, Ph.D., *Professor of Education.*
- Lawrence L. Vance, Ph.D., C.P.A., *Professor of Accounting.*
- George Van Zwalenberg, M.A., *Assistant in Mathematics in the Summer Sessions.*
- Henry J. Vaux, Ph.D., *Professor of Forestry and Chairman of the Department.*
- Paul J. Velguth, M.A., *Associate in Subject A.*
- Sallie C. Verrette, A.B., *Assistant in French in the Summer Sessions.*
- Rutledge Vining, Ph.D., *Professor of Economics and Statistics, University of Virginia.*
- Dow Votaw, M.B.A., LL.B., *Associate Professor of Business Law.*
- John T. Wahlquist, Ph.D., *President, San Jose State College; Lecturer in Education in the Summer Sessions.*
- George Wald, Ph.D., *Professor of Biology, Harvard University.*
- James E. Walter, Ph.D., *Assistant Professor of Business Law.*
- Frances M. Weesner, M.A., *Lecturer in Zoology.*
- Glenn A. Wessels, M.A., *Professor of Art.*
- John T. Wheeler, Ph.D., *Associate Professor of Business Administration.*
- Harvey E. White, Ph.D., *Professor of Physics and Vice-Chairman of the Department.*
- John Albert White, Ph.D., *Associate Professor of History, University of Hawaii.*
- Edward A. Wight, Ph.D., *Professor of Librarianship.*
- Kermit T. Wiltse, D.S.W., *Assistant Professor of Social Welfare.*
- George G. Wing, B.S., *Assistant in Spanish in the Summer Sessions.*
- Lee E. Winters, Jr., M.A., *Associate in Subject A.*
- Sheldon S. Wolin, Ph.D., *Assistant Professor of Political Science.*
- Lillian R. Wood, M.A., *Lecturer in Education.*
- Betty Jean Zeidner, M.A., *Assistant in Spanish in the Summer Sessions.*

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 at Santa Barbara College. In addition to its centers of resident instruction, the University of California maintains a state-wide extension service.

SUMMER SESSIONS, 1956

There will be two Summer Sessions of six weeks each at the University of California on the Berkeley campus during 1956. The first session will be held from June 18 to July 28; the second session, from July 30 to September 8.

An eight-week session and a six-week session will be held on the Los Angeles campus beginning June 18.

A six-week session will be held at Santa Barbara College from June 25 to August 4.

Three Summer Sessions of six weeks each will be held on the Davis campus—June 18 to July 28, July 30 to September 8, and a special session, July 2 to August 11. For further information concerning the summer program at Davis, please address requests to The Registrar, University of California, Davis, California.

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—

Dean of Students—Special Services maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits, and assists veterans in becoming assimilated into the life and spirit of the University. On the Berkeley campus, this office is located at 2227 Union Street. Offices of the United States Veterans Administration are located as follows: Regional Office, 49 Fourth Street, San Francisco 3, California; Regional Office, 1380 South Sepulveda Boulevard, Los Angeles 25, California; Regional Office, 325 B Street, San Diego 1, California.

In order to enroll under the provisions of Public Law 346 (G.I. Bill) and obtain full veterans benefits, veterans must present an original or supplemental Certificate of Eligibility, register within the University's announced registration period, and file a study list. In order to enroll under the provisions of Public Law 16 (Rehabilitation), authorization to complete such enrollment must be obtained from the United States Veterans Administra-

tion Office and be received by Dean of Students—Special Services prior to registration. Veterans should apply to their local United States Veterans Administration Office in sufficient time to receive their Certificate of Eligibility or proper authorization prior to registration; or the veteran must be prepared to pay all expenses (tuition, fees, books, and supplies). Refunds of such expenditures may be made later to the veteran student based upon the effective date of the Certificate of Eligibility.

CAUTION: P.L. 346 terminates on July 25, 1956. Because complete costs for the Summer Session of P.L. 346 veterans will not be covered by the Veterans Administration, it will be necessary for educational costs to be prorated on an instructional day basis. Therefore P.L. 346 veterans planning to attend the Summer Session should be prepared to personally pay fees and educational costs, including books, supplies and equipment.

Appropriate refunds may be made by the University after expiration date of the law or date of withdrawal, upon presentation of proper receipts.

Veterans under P.L. 346 or P.L. 550 who transfer to another campus of the University for enrollment in a Summer Session must obtain a supplemental certificate from the Veterans Administration authorizing the change of place of training. Application for this certificate should be made prior to enrollment.

Information regarding educational benefits available from the State of California (CVEI) may be obtained from the State Department of Veterans Affairs located at 711 N Street, Sacramento, California, or by writing to 357 South Hill Street, Los Angeles, California, or 515 Van Ness Avenue, San Francisco, California.

Veterans wishing to enroll under the provisions of Public Law 550 (Korean G.I. Bill) should obtain from the United States Veterans Administration a Certificate for Education and Training which should be filed with the Dean of Students—Special Services upon completion of registration. These veterans must be prepared to pay all fees and educational costs at the time of registration, as education and training allowances are paid to the veteran by the Veterans Administration. The first monthly payment will normally be received 60 to 75 days after compliance with the above instructions.

Applications for Admission—

Persons who wish to attend a Summer Session should file an application with the Office of the Summer Sessions not later than Wednesday, May 23, for the First Summer Session, and Tuesday, July 10, for the Second Summer Session. Bulletins and applications will be sent upon request. *No student will be permitted to register unless he has submitted an application and it has been approved.*

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 21) covering high school and collegiate work, with the Director of Admissions. 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 23.

Admission Requirements—

Attendance upon the Summer Sessions is divided into two classifications: *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, if an undergraduate student, please ad-

dress the Office of Admissions; if a graduate student, please address the Dean of the Graduate Division, University of California, Berkeley 4.

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.

Visitors. Although no provision is made for auditors, persons may visit classes upon consent of the instructor. A charge of 50c is made for each lecture. Tickets may be purchased at the Cashier's Office in the Administration Building.

Registration Dates—

The office of the Registrar will be open for the registration of students for the First Summer Session, Saturday, June 16, from 8:30 a.m. to 1 p.m., and Monday, June 18, from 8:30 a.m. to 1 p.m.; and for the Second Summer Session, Saturday, July 28, 8:30 a.m. to 1 p.m., and Monday, July 30, 8:30 a.m. to 1 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 3.)

In no event will a student be permitted to register or file his study list after Friday of the third week of a session. Students who apply for registration after the second Monday of a session must obtain the special approval of the Director of Summer Sessions; those who seek to register in the third week of instruction must make all arrangements for admission to the session at least a week in advance of the proposed date of registration. Persons who register late, however, may enroll in the courses desired only when, in the opinion of each instructor, they can satisfactorily make up the work already done by the class.

Students will not be permitted to enroll in or attend classes unless they are currently registered, or hold temporary permits to visit classes issued by the Director of Summer Sessions.

Fees—

Tuition. The tuition fee for each six-week session with the exception of courses in law, irrespective of the number of courses taken, is \$54 for both residents and nonresidents of California. For courses in law, the tuition fee is \$20 per unit. Fees must be paid at time of registration, *not in advance*. 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 either session, a refund of 60 per cent of the tuition fee 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. *It should be noted that in no circumstances can the entire amount of the tuition fee be refunded to the student who withdraws from the Summer Sessions after registration.*

Following is a schedule of refunds based upon the date of withdrawal:

Fee	1st week (60%)	2d week (20%)
\$40.00	\$24.00	\$ 8.00
54.00	32.40	10.80
80.00	48.00	16.00

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:

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 one open to freshmen and to sophomores. Such courses do not count as upper division work in any department.

2. *Upper Division Courses* (numbered 100-199). An upper division course in any department is one open to those students only who have completed a lower division course or courses in that department, or is an elementary course in a subject of such difficulty as to require the maturity of upper division students. The prerequisites for courses should be noted carefully. 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.

Special study courses for individual advanced undergraduates, usually numbered 199, are restricted to senior honor students having an adequate preparation in the form of credit for upper division courses in the subject proposed for special study.

Five units is the maximum number of units for which a student may enroll or receive credit in any and all 199 courses in a Summer Session.

Departments may offer special *honors courses* (marked H) in reading and research, with credit to be determined by the instructors in charge, according to the performance of the individual students, and subject to such general restrictions as may be imposed by the department, the college or school, or the Committee on Courses of Instruction of the Academic Senate. The work of the student in an honors course may consist of additional work in connection with other courses of instruction, or may be independent of such courses.

3. *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 normally consists 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.

A student who includes in his program a graduate course (one of the courses numbered from 200 to 299) is not permitted to register for more than 4 units of credit.* In general, only persons registered for credit will be admitted to graduate courses. Further directions concerning graduate study may be had from the Dean of the Graduate Division at Berkeley, or from the Associate Dean of the Graduate Division at Davis.

4. *Teachers Courses* (numbered 300-399). *Professional Teacher-Training Courses* in the Department of Education and courses in other departments

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

that are especially intended for teachers or prospective teachers. Prerequisites for courses should be noted carefully.

5. *Certain Professional Courses* (numbered 400-499) in departments other than education. Prerequisites for courses should be noted carefully.

Credit—

In general, credit will be given at the rate of 1 unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of 2 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 six-week sessions by a student who devotes his entire time to courses strictly of university level is from 4 to 6 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 4 units of credit.* In the Summer Sessions additional credit for one-half unit of physical education may be received. A bachelor's degree represents 120 or more units of credit, distributed, according to the special requirements of the college, school or department in which the student is enrolled.

Each student will be expected not only to complete all the work and examinations of the courses he has undertaken, 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.

Two Summer Sessions of six weeks each 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 colleges and universities should ascertain from the registrars of their own institutions whether or not 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 CIRCULARS OF INFORMATION.

Graduate Students—

No student is assumed to be in graduate standing at this institution until his credentials have been evaluated and his admission has been approved. For purposes of adjustment of status, all prospective candidates for higher degrees or 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 twelve weeks before the opening of the Summer Sessions. The *Application* must be accompanied by a money order or bank draft of \$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, using the

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

form of application which will be mailed to the student when he requests it from the Summer Sessions Office. *Transcripts of students' records and all other official credentials are retained permanently in the files of the Office of the Dean of The Graduate Division.* In addition to having the records sent to the Graduate Division, the student must have in his possession an official record for his own use and for departmental use here.

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 prerequisites have been met. Such persons need not file credentials nor make formal Application for Admission to graduate standing; but they must file the Summer Session Application. It is advisable, however, for all graduate students to provide themselves with official college and university records in the event that they might wish to apply for excess of the study-list limit, and also for purposes of conference with graduate advisers if the question of eligibility for admission to a strictly graduate course should arise. It should be borne in mind that enrollment in the Summer Sessions does not imply admission to the regular sessions.

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. 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 fundamental preparatory courses.

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 (see below). 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 list of courses for the Summer Sessions of 1956 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 18 to July 28, 1956)

Courses added after this bulletin is issued will be found in the Supplementary Announcements which may be obtained at the time of registration.

Accepted as Upper Division Courses:

Agriculture—All 199 courses; and at Davis, July 2 to August 11, Agricultural Engineering S198; Animal Husbandry S198; Education S106, S110, S163; Entomology S124; Pomology S108.	Bacteriology S199A.
Anatomy S102, S199.	Biochemistry 130.
Anthropology S105A, 107, S118A, S125A.	Botany S199A.
Architecture S142.	Business Administration S100, S101, S105, S121A, S121C, S122, S123, S131, S133, 134, S140, S150, S152, S160, S161, S163, S165, S166, S170, S174, S199A.
Art S106A, S108A.	Classics S178.
Astronomy S199.	Criminology S100A, S101, S107, 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.

- Decorative Art 128A, 128B, S195A, S195B.
 Dramatic Art S110, S123B, S160B.
 Economics S100A, S100B, S112, S113, S115, S135, S190B, S199.
 Education S101, S106, S110, S111, S112, S114, S116, S119, S127, S130, S131, S132, 133G, 133R, S134, S138, S153, S160, S161, S162, S164, S170, S172, S181, S186.
 Engineering—With the approval of the graduate adviser in Engineering and of the Dean of the Graduate Division, certain upper division technical courses, if offered, may apply toward the master's degree.
 English S110, S114B, S125D, S130B, S151J, S152, S161, S199.
 Forestry S199.
 French S160, S199.
 Geography S121A, S199.
 German 169, S199.
 History S101, S111A, S111B, S143B, S150A, S161B, S173C, S177B, 191D, S199.
 Home Economics S137, 170, S199.
 Journalism S140, 162.
 Mathematics S110A, S199.
 Music S116F.
 Oriental Languages S199.
 Paleontology S199.
 Philosophy S114, S135A.
 Physical Education S110, 111, 137, S140, S199.
 Physiology S199.
 Political Science S100A, S116A, S118A, S131A, S138F, S145, S148, S183, S199.
 Psychology S104, S111, S130, S136, S141, S168, S185, S187, S199.
 Scandinavian 105, 110.
 Slavic Languages and Literatures S130, S199.
 Sociology and Social Institutions S100A, S134, S160, S199.
 Spanish and Portuguese S131, 149, S199.
 Zoology S100, S112, S199.

Accepted as Graduate Courses :

- Agriculture—All 200 courses designated "Research"; and at Davis, July 2 to August 11, Education S260.
 Anatomy S213, S214.
 Anthropology S299.
 Astronomy S298, S299.
 Bacteriology S280, S299.
 Biochemistry 200, 218, S280, S299.
 Botany S201A.
 Business Administration S298, S299.
 Chemistry S280, S290, S299.
 Chemical Engineering S250.
 Criminology S296A, S299.
 Economics S200A, S298.
 Education S200A, S200B, S200C, S209, S212, S213, 214B, S215C, S216A, S217A, S218A, 227, S229, S231, S233A, S233B, S235, S237, S240A, S241A, S241B, S242A, S242D, S242E, S258B, S260A, S266, S270A, S272B, S273, S275, S279, S281A, S285, S288, S298.
 With the approval of the graduate adviser and the Dean of the Graduate Division any graduate course in Engineering which is offered may apply toward the master's degree.
 English S251A, S298.
 Forestry S202A.
 French S215B, S298.
 Geography S219A.
 German S298.
 History S201, S273A, 291D, S298.
 Home Economics S218.
 Italian S229.
 Law S226, S228, S254, S266.
 Librarianship S202, S206, S209.
 Mathematics 214, S290, S295.
 Music S203B, S211, S298.
 Paleontology S299.
 Philosophy S250.
 Physical Education S260A, S260B, S290.
 Physics S295, S299.
 Physiological Optics S299.
 Physiology S201A.
 Political Science S263, S298.
 Psychology S299.
 Slavic Languages and Literatures S298.
 Social Welfare 206, 232, S259, S298.
 Sociology and Social Institutions S299.
 Spanish and Portuguese 220, S299.
 Statistics S295S.
 Zoology 212, S224, S299.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)**Accepted as Upper Division Courses:*

- Agriculture—All 199 courses.
 Anthropology S141.
 Art S109A, S109B, S183B.
 Astronomy S199.
 Bacteriology S101, S199B.
 Botany S199B.
 Business Administration S100, S101, S109, S121B, S122, S131, S135, S138, S140, S142, S145, S150, S151, S160, S162A, S199B.
 Economics S100A, S100B, S112, S113, S121A, S135, S150, S152, S190A, S199.
 Education S110, S111, S119, S164
 Engineering—With the approval of the graduate adviser in Engineering and of the Dean of the Graduate Division, certain upper division technical courses, if offered, may apply toward the master's degree.
 English S117A, S121, S130C, S199.
 Forestry S199.
 French 119, S199.
 Geography S121B, S199.
 German 168, S199.
 History S101, S131A, S131B, 133, S135A, S135B, S161A, S174B, 191E, S199.
 Home Economics S199.
 Journalism S141, S190B.
 Mathematics S110B, S199.
 Paleontology S199.
 Philosophy S102.
 Physiology S199.
 Political Science S111A, S118B, S175, S181, S185A, S186, S199.
 Psychology S107, S130, S134, S136, S145, S148A, S180, S185, S199.
 Slavic Languages and Literatures 106, S140, S199.
 Sociology and Social Institutions S101A, 139, 158, S199.
 Spanish and Portuguese 133, 134, S199.
 Statistics S113, 114.
 Zoology S199.

Accepted as Graduate Courses:

- Agriculture—All 200 courses designated "Research."
 Anthropology S299.
 Astronomy S298, S299.
 Bacteriology S280, S299.
 Biochemistry 200, S280, S299.
 Botany S201B.
 Business Administration S228, S299.
 Chemistry S280, S290, S299.
 Chemical Engineering S250.
 Economics S200B, S212B, S298.
 Education S210, S264, S298.
 With the approval of the graduate adviser and the Dean of the Graduate Division any graduate course in Engineering which is offered may apply toward the master's degree.
 English S201, S210, S298.
 Forestry S202B.
 French S298.
 Geography S219B.
 German S298.
 History S201, S277A, S298.
 Home Economics S218.
 Librarianship S204, S205, S207, S212.
 Mathematics S290.
 Music S298.
 Paleontology S299.
 Philosophy S250.
 Physics S295, S299.
 Physiological Optics S299.
 Physiology S201B.
 Political Science S212A, S298.
 Psychology S299.
 Slavic Languages and Literatures S298.
 Sociology and Social Institutions S299.
 Spanish and Portuguese S299.
 Statistics S295S.
 Zoology S224, S299.

For the distinction between upper division and graduate courses, and their proportion in the program for the master's degree, the student should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

College of Letters and Science—

Requirements for the degree of Bachelor of Arts in the College of Letters and Science are listed in the CIRCULAR OF INFORMATION.

LETTERS AND SCIENCE LIST OF 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 CIRCULAR OF INFORMATION.

The following courses offered in the Summer Sessions, 1956, are on the Letters and Science List, the designation "all courses" meaning all courses numbered below 200 which are offered in Summer Sessions.

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

Anatomy—All courses.	History—All courses.
Anthropology—All courses.	Italian—All courses.
Architecture S14A—S14B, S142.	Journalism—S140, 162.
Art—All courses.	Mathematics—All courses.
Astronomy—All courses.	Music—All courses.
Bacteriology—All courses.	Oriental Language—All courses.
Botany—All courses.	Paleontology—All courses.
Business Administration S1A, S1B, S18, S100, S150.	Philosophy—All courses.
Chemistry and Chemical Engineer- ing—All courses.	Physics—All courses.
Classics—All courses.	Physiology—All courses.
Decorative Art—All courses.	Political Science—All courses.
Dramatic Art—All courses.	Psychology—All courses except S185.
Economics—All courses.	Scandinavian—All courses.
Education S110 and not more than 3 units from 101, 102, 105.	Slavic Languages and Literatures— All courses.
English—All courses.	Sociology and Social Institutions— All courses.
French—All courses.	Spanish and Portuguese—All courses.
Geography—All courses.	Speech—All courses.
Geology—All courses.	Statistics—All courses.
German—All courses.	Zoology—All courses.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

Anthropology—All courses.	Italian—All courses.
Art—All courses.	Journalism—S141, S190B.
Astronomy—All courses.	Mathematics—All courses.
Bacteriology—All courses.	Music—All courses.
Botany—All courses.	Paleontology—All courses.
Business Administration S1A, S1B, S18, S100, S150.	Philosophy—All courses.
Chemistry and Chemical Engineer- ing—All courses.	Physics—All courses.
Decorative Art—All courses.	Physiology—All courses.
Economics—All courses.	Political Science—All courses.
Education S110 and not more than 3 units from 101, 102, 105.	Psychology—All courses except S185.
English—All courses.	Slavic Languages and Literatures— 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.
German—All courses.	Statistics—All courses.
History—All courses.	Zoology—All courses.

Colleges of Applied Sciences—

For information concerning curricula in these colleges, reference should be made to the following bulletins: for the College of Agriculture—the PROSPECTUS OF THE COLLEGE OF AGRICULTURE; the College of Chemistry—the ANNOUNCEMENT OF THE COLLEGE OF CHEMISTRY; the College of Engineering—the ANNOUNCEMENT OF THE COLLEGES OF ENGINEERING. 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, bioradiology, business administration, city planning, criminology, dentistry, education, engineering, forestry, journalism, hospital dietetics, law, librarianship, medicine, nursing, optometry, pharmacy, public health, and social welfare. The curricula in architecture, and hospital dietetics, are described in the CIRCULAR OF INFORMATION; 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 to 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: (a) emphasis on agriculture, (b) professional emphasis; (3) the degree of Doctor of Philosophy in education; and (4) the degree of Doctor of Education.

Graduates of other universities and colleges should follow the instructions given on page 24 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.

Scholarship Grades—

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

Transcripts of record for Summer Sessions 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 Architecture, Chemistry, Dentistry, Engineering, Letters and Science, and Pharmacy, or in the schools of Business Administration, Criminology, Education, Law, Librarianship, Nursing, Optometry, Public Health,

* Grades: A, excellent; B, good; C, fair; D, barely passing; E and F, not passed.

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 CIRCULAR OF INFORMATION.

and 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 are not required to have study lists approved.

Changes in Study Programs—

Changes in study programs for the six-week sessions made after the study lists have been filed will be approved only on a written petition filed with the Registrar not later than Tuesday, July 10, 4:30 p.m., for the first session, and Tuesday, August 21, 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. Exceptions to this rule may be made only on approval of the Director of Summer Sessions.

Bureau of School and College Placement—

The Bureau of School and College Placement has as its chief function the coordination, under one executive officer, of the teacher placement activities on the Berkeley, Los Angeles, and Santa Barbara College campuses.

Office of Teacher Placement—

The Office of Teacher Placement recommends graduates, students, and former students for positions in universities, colleges, junior colleges, high schools, and elementary schools, and for educational research, thereby assisting qualified candidates to obtain permanent employment or promotion in the work for which they have prepared themselves. A fee of \$5 is charged for the clerical services of this office. Communications should be addressed to the Manager of the Bureau of School and College Placement, 207 Administration Building, University of California, Berkeley 4.

The University reserves the right to recommend only those persons who are considered to be fully qualified. In every recommendation the aim is to keep in mind the best available persons, remembering candidates already employed as well as those who may be out of employment.

Recreational Facilities and 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. Dances will be held on Friday nights. The schedules for these events will be available at the opening of the Summer Sessions.

International House offers a varied program for residents and for other students who apply for nonresident membership. Special social and recreational activities are planned and conducted by the persons in charge of the Orientation and English Language Intensive Course for students from other countries.

Textbooks and Supplies—

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. During the summer months it will be open Monday through Friday, 8:30 a.m. to 4:30 p.m.

The store was founded by students in 1884. All profits made in the Associated Students Store go into a fund to support nonincome-producing activities of the Associated Students of the University of California.

Campus Cafeteria—

During the summer months, the Campus Cafeteria will be open Monday through Friday, from 7:15 a.m. until 7:15 p.m. Regular meal hours are.

Breakfast— 7:15 a.m. until 9:15 a.m.

Lunch — 11:00 a.m. until 2:00 p.m.

Dinner — 4:30 p.m. until 7:15 p.m.

The Surf Room will remain open between meals for snack bar service.

All members of the student body, faculty, and employees are cordially invited to avail themselves of these facilities.

International House—

Fifty thousand students have shared in the experience of international living in the thirty years since the first International House was founded in 1924. The Berkeley International House, founded in 1930, is one of the four established by John D. Rockefeller, Jr.; the other three are located at New York, Chicago, and Paris.

The Berkeley House, at the University of California, is a modern, well-equipped residence hall, with accommodations for both men and women, and is situated conveniently at the southeast corner of the Campus, within walking distance of transportation to San Francisco. The cost of residence is comparable to that of other living accommodations in the community. Residence is on a combined board and room basis.

International House is established to promote greater understanding among students brought together from many countries. It is not only a University home, it is also a cultural center with a social and educational program planned for the student who desires to extend his relationships across racial and national boundaries. The program includes such occasions as discussion groups, music hours, social and folk dancing, cultural programs and teas. Residents have the privilege of participating in the social and recreational program. Other students interested may participate by obtaining a nonresident membership. Further information and application blanks for resident and nonresident members may be obtained by writing to the Office of Residence and Membership, International House, Berkeley 4, California.

Stiles Hall (University Y. M. C. A.)—

Although its regular program of group activities, etc., is not operating during the summer, Stiles Hall offers the use of its facilities at 2400 Bancroft Way to Summer Session students. Its reading, music, and table tennis rooms are open during regular office hours. Students wishing to make use of its meeting facilities for informal sessions with faculty members may, in certain circumstances, do so without cost. Open to all men of the University regardless of race or creed, Stiles Hall seeks to supplement the offerings of the University by providing opportunity for the development and application of ethical and religious ideals in every-day life.

Y.W.C.A.—

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

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 CIRCULAR OF INFORMATION.

The University Library—

The library on the Berkeley campus of the University of California consists of the General Library with its twenty-one branch libraries and about fifty departmental and special libraries. These groups, collectively known as the University Library, contain more than 2,000,000 volumes. Approximately 24,000 periodicals and serials are received currently.

The principal collection of the General Library is housed in the Main Library, consisting of the Charles Franklin Doe Library Building and the adjoining Library Annex. Centrally located, the Main Library supplies the basic library services on the Berkeley campus. The twenty-one branch libraries are located near the departments which use them most. The East Asiatic Library is housed in Durant Hall. The Bancroft Library of Californian, western American, and colonial Latin American history; and the Alexander F. Morrison Library, a recreational reading room open only to students, faculty and officers of the University, are located in the Main Library. Departmental and special libraries include the Law Library in the School of Law Building; the Giannini Foundation Library of Agricultural Economics in Giannini Hall; the library of the Institute of Transportation and Traffic Engineering at the Richmond field station; and the libraries of the Bureau of Public Administration and the Bureau of International Relations on the third floor of the Main Library.

Registered Summer Sessions students are entitled to full use of the University Library and may draw books and periodicals, according to the regulations of the various units, by presentation of their admission cards as identification. A series of orientation leaflets describing the location of library units and collections and explaining their use are available at the General Reference Service desk in the Main Library.

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 the hill section 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 the 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 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 Institute of International Studies, which includes the Center for East Asia Studies and the Bureau of International Relations.

The Bureau of Public Administration, located in the Library Annex, maintains one of the most extensive collections to be found anywhere of current pamphlets, periodicals, documents, and fugitive materials pertaining to public affairs. Approximately 250,000 items and several thousand periodicals supplement the main collections of the University. The card catalog of approximately 750,000 entries under 2,000 subject headings greatly facilitates the use of the collection and renders it an extremely workable tool for the investigation of public affairs problems.

In addition to providing facilities for research by students, faculty, government officials, and civic organizations, the bureau maintains its own research staff, representative of many of the social science disciplines, which upon request makes numerous studies for governmental agencies—for example, about 600 studies since 1934 for members and committees of the California State Legislature. An extensive bibliographic service in many fields is also provided. A monthly digest of significant public developments throughout the United States, of particular interest to California, is issued by the Bureau of Public Administration under the title: *California Public Survey*. Among its many projects is an occasional inventory of public affairs and social science research in the Western States, made for the Western Governmental Research Association. The bureau serves as headquarters for that organization and also for the University campus and the San Francisco Bay Area Chapters of the American Society for Public Administration.

Opportunities are afforded to properly qualified graduate students to observe and participate in the research activities of the bureau staff, as a part of the educational process.

The bureau assists and cooperates with governmental agencies wishing to recruit university graduates for professional employment.

For further information, write to the Director, Room 346, Library Annex.

The Institute of Child Welfare provides opportunities for undergraduate and graduate study in connection with a nursery school and with research divisions of the institute. The latter are chiefly concerned with long-term investigations of mental and physical growth and of other aspects of individual development among children and adolescents. In cooperation with other University departments the institute is prepared to assist qualified students in observations, laboratory work, and in the use of certain parts of the cumulative record files, which have been organized to aid the study of various specific problems in child development.

The Bureau of International Relations was established by the University in 1921. Formerly within the Department of Political Science, it is now a constituent part of the Institute of International Studies. The Bureau is located in the Library Annex. The bureau library provides facilities for upper division and graduate students and members of the faculty to pursue research in the field of international relations, including international economics, international law, international organizations, and international politics. 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 some of the principal documentary series of the United Nations. In addition to the documentary collection, the library has many important secondary works dealing with current inter-

national problems, a number of outstanding American and foreign periodicals, and a limited number of English-language and foreign newspapers regarded as most useful in this field.

In addition to providing the facilities for research, the bureau is engaged in a number of other activities. It provides administrative services for various University projects concerned with international relations, such as international conferences. It has responsibility for making arrangements to acquaint foreign visitors with the resources of the University. It works with the community agencies, such as the World Affairs Council of Northern California. It issues a *Monthly Review of Periodical Articles* in the field of international relations.

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 of the United States, are afforded special opportunities through the facilities of the Bureau of International Relations.

Further information may be obtained from the office of the bureau, Room 376 Library Annex, or from the library of the bureau, Room 388 Library Annex.

The Center for East Asia Studies (formerly Institute of East Asiatic Studies), one of the component units of the Institute of International Studies, serves primarily to coordinate and stimulate research, teaching and service activities in the field of Asia Studies on the Berkeley campus. The center administers several faculty-directed research projects on the principal areas of Asia and assists whenever possible in furthering the growth of the University's varied collections of Western and Asian language research materials.

The center also works toward development or improvement of teaching and training programs, in cooperation with the regular teaching departments. Together with the School of Education, University Extension, and those departments offering courses on the Far East in the Summer Sessions, the center sponsors a special Far East Training Program for those who wish to gain a broader knowledge of the peoples and countries of East Asia. It also is able to award a limited number of grants-in-aid to assist teachers who wish to come to Berkeley for this special summer training.

Detailed information on the functions of the Center for East Asia Studies, a listing of course offerings of the teaching departments and degree requirements in East Asiatic Studies, a summary of faculty research activities, and a general description of University library and museum facilities, is contained in the *Annual Report on East Asiatic Studies at Berkeley* (June, 1955). This pamphlet, issued by the center, may be obtained from its main office, Room 220, Building T-8.

Museums and Laboratories—

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

The Museum of Anthropology, established in 1901 with the Phoebe A. Hearst collections as a nucleus, has its materials stored in eight buildings on the campus. Most of the collections are in the Anthropology Museum building, where exhibits are arranged semiannually in connection with courses of instruction; special exhibits are on display at various locations on the campus. These collections include 181,000 inventoried artifacts from native California, 82,000 from other parts of the New World, 33,300 from the Old World, 32,000 from Oceania, 10,000 skeletal items, 22,500 photographs, paintings, drawings, and Kodachrome transparencies, 2,800 phonograph records. The material is available for study by scholars and advanced graduate stu-

dents. Those interested in the museum's facilities may address the Acting Director, Professor George M. Foster.

The Museum of Paleontology, situated in the Hearst Mining Building on the Berkeley campus, was organized in 1921, and is supported chiefly by funds donated by the late 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 Memorial Library of Paleontology is a branch of the General Library which provides service to both faculty and students. Anyone wishing to make use of the facilities of the museum should address the Director.

The Museum of Vertebrate Zoology, situated in the Life Sciences Building, was founded and endowed by the late Miss Annie M. Alexander as a repository for specimens and information relative to the higher vertebrate animals and for research on them. 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, 1955) by a total of 326,838 catalogue entries. The specimens, with the accompanying field notes, photographs, and maps, provide the basis for studies along systematic, evolutionary, 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 eight 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 108.

The Demonstration Elementary School—

During the First Summer Session the University will operate an elementary school to demonstrate significant aspects of a modern elementary school program in practice and to offer opportunities for the growth and development of boys and girls. 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, at Virginia and Milvia streets.

Observation in the school is an integral part of most courses in elementary education offered on the campus. In addition, the school serves as a laboratory in which teachers, principals, supervisors, and superintendents may seek solutions to their professional problems. Students registered in the Summer Session may visit the school by making arrangements at the school office even though they are not taking classes in which observation is required. For further details see page 74.

The Demonstration Secondary School—

The Demonstration Secondary School will be open for eight weeks, June 25 to August 17, at the Technical High School building in Oakland. 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 three 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 75.

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

Living Accommodations and Expenses—

Summer Session students at the University of California have a wide range of choice for living accommodations. Most of the housing available during the academic year is also open to the summer student. Families, couples, and single men and women have a selection of residences. Every undergraduate woman student under 21 years of age not living in an approved house must have not only the permission of the Dean of Women for her college residence, but also the permission of her father or guardian, whose approval must be indicated by signature on the residence card provided at the time of registration. Stern Hall, the sorority houses, and the privately operated houses on the approved list are all considered as approved housing.

Two residence halls on the campus, Bowles Hall for men and Stern Hall for women, will be open during the first session. Spacious accommodations, three meals a day in the dining halls, plus a social program of exchange dinners between halls are offered. Applications may be obtained from the Housing Office, Building Q, beginning April first. The Fernwald Halls will be reserved for summer conferences.

The privately operated houses, with various meal arrangements offered, are for smaller living groups. These houses, which adjoin the campus, are attractive residences.

The cooperative houses, which give the student the opportunity to work in the house in exchange for the moderate rates, are popular accommodations.

There are some fraternities and sororities open to nonmembers during this period. These, too, offer comfortable accommodations in smaller living groups.

For those who plan to bring their families, the Housing Office maintains a card file of summer rentals. This file includes houses, apartments, and rooms, and there is a wide range of prices.

All of these accommodations are available to summer students. Detailed lists of approved living groups for single men and for women, including prices, number accommodated, and dining arrangements, will be sent on request from the Housing Office. This list is complete with a map of the campus vicinity. Students are certain to find, on this list, the summer accommodations to suit their needs.

**SHORT AND INTENSIVE COURSES
CONDUCTED BY UNIVERSITY EXTENSION**

ADVANCED CLINIC IN DRIVER EDUCATION X 375—June 18–22

This clinic will deal with practical problems of instruction in both driver education and training and how to solve them in specific teaching situations. New techniques of instruction, new developments in the field and new materials available will be evaluated. Fee: \$9.00. 1 unit credit.

ENGLISH PROGRAM FOR FOREIGN STUDENTS—July 30–September 7

The Tenth English Program for Foreign Students is offered by the Department of Speech and the Committee on Foreign Students. It is designed for 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 course offers 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: \$110.00. 4 units credit (X 25, Oral English for Foreign Students).

**EIGHTH ANNUAL TRAINING INSTITUTE FOR PROBATION, PAROLE AND
INSTITUTIONAL STAFF—August 1, 2, and 3.**

This annual intensive program provides workers with new ideas for use in their daily work, based upon material which can be used as the basis for discussion in agency staff meetings. Fee: \$5.00.

* * * *

For further information on programs listed above, please address inquiries to the Department of Conferences and Special Activities, University Extension, University of California, Berkeley 4, California.

Programs of interest to students in the Summer Sessions and to professional workers are now being planned. These will be announced later.

COURSES OF INSTRUCTION

SUMMER SESSIONS, 1956

AGRICULTURE*

A qualified student may pursue at Berkeley or Davis during the period of the Summer Sessions, June 18 to July 28, and July 30 to September 8, the courses for advanced undergraduates numbered 199 and the graduate research courses numbered in the 200 series. At Riverside graduate students may enroll in graduate research courses numbered in the 200 series.

The 199 and 200 courses for the College of Agriculture are announced in the PROSPECTUS OF THE COLLEGE OF AGRICULTURE.† Since they are for advanced and graduate students only, arrangements should be made in advance of registration with the instructor concerned.

A special Summer Session is also being offered at Davis during the period July 2 to August 11.‡ The program for this session will include (1) courses for teachers of vocational agriculture and for county farm advisors, (2) professional courses in education for teachers who wish to qualify for advanced credentials, and (3) elementary courses for prospective students who wish to remove subject deficiencies for entrance to full-time study in the University, and for students currently enrolled who may wish to accelerate their undergraduate programs.

ANATOMY

(Department Office, 4549 Life Sciences Building)

Ian W. Monie, M.B., Ch.B.(Glas.), *Associate Professor of Anatomy.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S102. General Human Anatomy.

Mr. Monie

Demonstration and laboratory study of prepared human dissections, models, and microscopic slides. Not open to freshman students.

Lectures and laboratory. Prerequisite: Zoology 1A or Physiology 1, 1L. 3 units.

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

S199. Special Study for Advanced Undergraduates.

Units and hours to be arranged. The Staff (Mr. Monie in charge)

S213. Original Investigation.

The Staff (Mr. Monie in charge)

Students who are prepared to undertake research in the anatomical sciences will be accorded facilities and encouragement by members of the staff. 1-4 units.

Hours to be arranged.

S214. Anatomy for Physicians and Advanced Students.

1-4 units.

The Staff (Mr. Monie in charge)

Hours to be arranged.

* Persons who wish to attend one of the Summer Sessions at Davis should apply to the Registrar, University of California, Davis, California. See page 83 for courses in Forestry, and page 92 for courses in Home Economics.

† The Prospectus is obtainable without charge from the College of Agriculture, University of California, Berkeley or Davis.

‡ 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.

ANTHROPOLOGY

(Department Office, 202 Building T-2)

Robert F. Heizer, Ph.D., *Professor of Anthropology, Director of the University of California Archaeological Survey, and Associate Curator of North American Archaeology.*

Robert F. Murphy, Ph.D., *Assistant Professor of Anthropology.*

Ronald L. Olson, Ph.D., *Professor of Anthropology.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S105A. The American Indians.

Mr. Heizer

Development, spread, and attainments of culture; native races and languages. Central America, Mexico, and North America. 2 units.

M Tu W Th F, 11.

107. Archaeology and Society.

Mr. Heizer

Introduction to archaeological methods and techniques employed, nature of prehistoric societies, types of archaeological remains, methods of determining age. Intended for the nonspecialist who wants to learn how archaeology reconstructs man's prehistoric past. 2 units.

M Tu W Th F, 9.

S118A. The Nature of Culture.

Mr. Murphy

The general structure and basic processes of cultural behavior; illustrative materials from primitive societies and modern civilizations. 2 units.

M Tu W Th F, 10.

S125A. Comparative Society.

Mr. Murphy

The development of human society, with emphasis on the growth of modern institutions. 2 units.

M Tu W Th F, 9.

S299. Directed Research.

The Staff (Mr. Heizer in charge)

For continuing graduate students only. 2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

10. General Anthropology: Biological Factors.

Mr. Olson

Human biology in terms of human evolution, fossil man, races, race differences and problems. For students not intending to major in anthropology. 2 units.

M Tu W Th F, 9.

S141. Mexico and Central America.

Mr. Olson

Achievements of the Aztecs, Mayas, and their predecessors. 2 units.

M Tu W Th F, 11.

S299. Directed Research.

Mr. Olson

For continuing graduate students only. 2-4 units.

Hours to be arranged.

ARCHITECTURE

(Department Office, 1 Architecture Building)

Stefan A. Novak, M.A., *Assistant Professor of Sculptural Design.*

Richard O'Hanlon, *Assistant Professor of Sculptural Design.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

- S14A-S14B. Elements of Sculpture.** Mr. Novak, Mr. O'Hanlon
 S14A. Introduction to basic elements of volume design using nonobjective and representational subject matter in three dimensions and relief. 2 units.
 M Tu W Th F, section 1, 8-10, Mr. Novak; section 2, 3-5, Mr. O'Hanlon.
 *S14B. Introduction to space design and materials with construction in wood, metal and plaster. 2 units.
 M Tu W Th F, 10-12, Mr. Novak.
- S142. The Human Figure in Sculpture.** Mr. O'Hanlon
 (Formerly numbered 114A)
 Design exercises with form, line, and space in three dimensions and low-relief, featuring the human figure as subject matter. Prerequisite: Architecture 14A-14B, or 14A and two art or design courses. 2 units.
 M Tu W Th F, 1-3.

ART

(Department Office, 217 Building T-4)

- Herschel B. Chipp, Ph.D., *Assistant Professor of Art.*
 Walter W. Horn, Ph.D., *Professor of Art.*
 Karl Kasten, M.A., *Assistant Professor of Art and Curator of Arts and Materials.*
 James McCray, M.A., *Associate Professor of Art.*
 Felix Ruvolo, *Associate Professor of Art.*
 Glenn A. Wessels, M.A., *Professor of Art.*

All upper division practice courses may be repeated indefinitely without duplication of credit, and the A part is not prerequisite to the B part.

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

- S10. History of Medieval, Renaissance, and Modern Art—Emphasis on Architecture and Sculpture.** Mr. Horn
 2 units.
 M Tu W Th F, 11.
- S2A. Elementary Form.** Mr. Kasten
 Form in composition, using black and white media. 2 units.
 M Tu W Th F, 3-5.
- S10. An Introduction to Art.** Mr. McCray
 Lectures, illustrated with lantern slides. The understanding and appreciation of painting, sculpture, architecture, and industrial art. 2 units.
 M Tu W Th F, 9.
- S106A. Advanced Drawing and Painting.** Mr. McCray
 2 units.
 M Tu W Th F, 10-12.
- S108A. Advanced Drawing and Painting.** Mr. Kasten
 2 units.
 M Tu W Th F, 1-3.

* Architecture S14B will be given only if enrollment warrants it.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S1B. History of Medieval, Renaissance, and Modern Art—Emphasis on Painting.** Mr. Chipp
2 units.
M Tu W Th F, 11.
- S2A. Elementary Form.** Mr. Wessels
Form in composition, using black and white media. 2 units.
M Tu W Th F, 8–10.
- S109A. Advanced Drawing and Painting.** Mr. Ruvolo
2 units.
M Tu W Th F, 1–3.
- S109B. Advanced Drawing and Painting.** Mr. Ruvolo
2 units.
M Tu W Th F, 3–5.
- S183B. Modern Art—Emphasis on Painting.** Mr. Chipp
Art of the twentieth century. 2 units.
M Tu W Th F, 9.

ASTRONOMY*(Department Office, 3 Leuschner Observatory)*

- John G. Phillips, Ph.D., *Assistant Professor of Astronomy.*
C. Donald Shane, Ph.D., *Director of the Lick Observatory and Astronomer.*
Otto Struve, Ph.D., Sc.D., *Professor of Astronomy and Director of the Leuschner Observatory; Chairman of the Department.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S1. Introduction to Astronomy.** Mr. Phillips
General facts and principles of the science of astronomy. 2 units.
M Tu W Th F, 8.
- S199. Special Study for Advanced Undergraduates.** Mr. Phillips
1–4 units.
Hours to be arranged.
- S298. Advanced Study and Research at Lick Observatory.**
The Staff (Mr. Shane in charge)
Intended for graduate students who require observational experience as well as for those working upon observational problems for their theses. 1–4 units.
Hours to be arranged.
- S299. Advanced Study and Research.** Mr. Phillips
1–4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S199. Special Study for Advanced Undergraduates.** Mr. Struve
1–4 units.
Hours to be arranged.

S298. Advanced Study and Research at Lick Observatory.

The Staff (Mr. Shane in charge)

Intended for graduate students who require observational experience as well as for those working upon observational problems for their theses. 1-4 units.

Hours to be arranged.

S299. Advanced Study and Research.

Mr. Struve

1-4 units.

Hours to be arranged.

BACTERIOLOGY

(Department Office, 3531 Life Sciences Building)

Edward A. Adelberg, Ph.D., *Associate Professor of Bacteriology and Vice-chairman of the Department.*

Sarah N. Burns, A.B., *Associate in Bacteriology.*

Jacob Fong, Ph.D., *Associate Professor of Bacteriology.*

Adelien Larson, A.B., *Associate in Bacteriology.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Introductory Bacteriology.

Mr. Adelberg

A general introductory course in bacteriology. Prerequisite: Chemistry 1A. 4 units.

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

S199A. Special Study for Advanced Students.

Mr. Adelberg

May be taken only with consent of the instructor. 2-4 units.

Hours to be arranged.

S280. Special Study and Research. The Staff (Mr. Adelberg in charge)

May be taken only with consent of the instructor. Credit according to the work completed.

Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Adelberg in charge)

Any properly qualified student who wishes to pursue a problem through nonlaboratory study may do so upon approval by a member of the staff with whom he wishes to work. 2-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S101. The Pathogenic Bacteria.

Mr. Fong

A course designed to acquaint the student with principles and laboratory procedures necessary for studying the pathogenesis of bacterial and other microbial infections of man. Prerequisite: Bacteriology 1 or 2, Chemistry 8, Zoology 1A. 6 units.

M Tu W Th F, lectures, 9-10:30; laboratory, 10:40-12 and 2-5.

S199B. Special Study for Advanced Students.

Mr. Fong

May be taken only with consent of the instructor. 2-4 units.

Hours to be arranged.

S280. Special Study and Research. The Staff (Mr. Fong in charge)

May be taken only with consent of the instructor. Credit according to the work completed.

Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Fong in charge)

Any properly qualified student who wishes to pursue a problem through nonlaboratory study may do so upon approval by a member of the staff with whom he wishes to work. 2-4 units.

Hours to be arranged.

BIOCHEMISTRY

(Department Office, 229 Biochemistry and Virus Laboratory)

Clinton E. Ballou, Ph.D., *Assistant Professor of Biochemistry.*Frederick H. Carpenter, Ph.D., *Associate Professor of Biochemistry.*John B. Neilands, Ph.D., *Assistant Professor of Biochemistry.*Arthur B. Pardee, Ph.D., *Assistant Professor of Biochemistry.*George Wald, Ph.D., *Professor of Biology, Harvard University.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***130. Advances in Chemistry and Biochemistry.**

Mr. Pardee, Mr. Carpenter

A survey of recent advances, starting with a review of basic principles, with emphasis on the chemistry of living organisms. Laboratory experiments in new techniques using simple apparatus. Course designed to bring the high school teacher up-to-date in the field. 2 units.

Lectures, M W F, 1-2; laboratory, M W, 2-5.

200. Biochemical Preparations. Laboratory only.

The Staff (Mr. Carpenter in charge)

An advanced laboratory course involving the preparation of products of biochemical interest. Open also to senior students with honor standing with consent of the instructor. 2-4 units.

Hours to be arranged.

218. Special Topics in Biochemistry.

Mr. Wald

A lecture course. Open also to senior students with honor standing with consent of the instructor. 2 units.

Tu W Th, 11-12:40.

S280. Research in Biochemistry.

The Staff (Mr. Carpenter in charge)

2-4 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Carpenter and Mr. Wald 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*(July 30 to September 8, 1956)***200. Biochemical Preparations. Laboratory only.**

The Staff (Mr. Carpenter in charge)

An advanced laboratory course involving the preparation of products of biochemical interest. Open also to senior students with honor standing with consent of the instructor. 2-4 units.

Hours to be arranged.

S280. Research in Biochemistry. The Staff (Mr. Carpenter in charge)
2-4 units.
Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Carpenter 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

(Department Office, 2017 Life Sciences Building)

Mildred M. Griffith, Ph.D., *Assistant Professor of Botany, University of Florida.*

Johannes M. Proskauer, Ph.D., *Assistant Professor of Botany.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. General Botany.

Mr. Proskauer

An introduction to the fundamental principles of biology as illustrated by plants, with emphasis on the morphology, physiology, and phylogenetic relations of the major plant group. Designed as the basic course in botany for all students of plant or animal science. Not open to students who have completed Botany 12. 5 units.

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

S199A. Special Study for Advanced Undergraduates.

The Staff (Mr. Proskauer in charge)

Open to specially qualified seniors with consent of the instructor. 1-4 units.
Hours to be arranged.

S201A. Research.

The Staff (Mr. Proskauer in charge)

Original investigations of special problems in the field, laboratory, herbarium, or botanical garden. 1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S12. Introduction to the Structure and Function of Plants. Miss Griffith

Designed primarily for students who desire a general acquaintance with the fundamentals of botany. Not a substitute for Botany 1. Not open to students who have completed Botany 1. 4 units.

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

S199B. Special Study for Advanced Undergraduates.

The Staff (Miss Griffith in charge)

Open to specially qualified seniors with consent of the instructor. 1-4 units.
Hours to be arranged.

S201B. Research.

The Staff (Miss Griffith in charge)

Original investigations of special problems in the field, laboratory, herbarium, or botanical garden. 1-4 units.

Hours to be arranged.

BUSINESS ADMINISTRATION

(Department Office, 113 South Hall)

- David A. Alhadeff, Ph.D., *Associate Professor of Business Administration.*
 Curtis C. Aller, Jr., A.B., B.L.H., *Lecturer in Business Administration.*
 Harry E. Allison, M.S., *Assistant Professor of Business Administration.*
 Hector R. Anton, Ph.D., *Assistant Professor of Accounting.*
 Eugene H. Beem, Ph.D., *Assistant Professor of Business Administration.*
 Alan R. Cerf, M.B.A., C.P.A., *Acting Assistant Professor of Business Administration.*
 Michael Conant, Ph.D., J.D., *Assistant Professor of Business Law.*
 John W. Cowee, Ph.D., *Associate Professor of Insurance.*
 Leonard A. Doyle, C.P.A., Ph.D., *Professor of Business Administration.*
 Walter Galenson, Ph.D., *Professor of Industrial Relations.*
 Joseph W. Garbarino, Ph.D., *Associate Professor of Business Administration.*
 Roy W. Jastram, Ph.D., *Professor of Business Administration.*
 Choh-Ming Li, Ph.D., *Associate Professor of Business Administration.*
 Charles F. Louie, M.B.A., *Associate in Accounting.*
 F. Theodore Malm, Ph.D., *Assistant Professor of Business Administration.*
 Daryl G. Mitton, M.B.A., Ph.D., *Assistant Professor of Business Administration.*
 Maurice Moonitz, C.P.A., Ph.D., *Professor of Accounting.*
 Howard W. Nicholson, Ph.D., *Acting Assistant Professor of Business Administration.*
 William G. Panschar, B.S., *Acting Assistant Professor of Business Administration.*
 David A. Revzan, Ph.D., *Professor of Business Administration.*
 Royal A. Roberts, M.B.A., *Associate Professor of Business Administration.*
 Jack Dean Rogers, M.B.A., Ph.D., *Assistant Professor of Business Administration.*
 Milo W. Smith, J.D., *Assistant Professor of Business Law.*
 Robert T. Sprouse, M.B.A., *Acting Assistant Professor of Business Administration.*
 George J. Staubus, M.B.A., Ph.D., C.P.A., *Assistant Professor of Accounting.*
 Reed K. Storey, B.S., C.P.A., *Associate in Accounting.*
 Lawrence L. Vance, Ph.D., C.P.A., *Professor of Accounting.*
 Dow Votaw, M.B.A., LL.B., *Associate Professor of Business Law.*
 James E. Walter, Ph.D., *Assistant Professor of Business Administration.*
 John T. Wheeler, Ph.D., *Associate Professor of Business Administration.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)***S1A. Principles of Accounting.**

Mr. Vance

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, 9. Laboratory sections to be arranged.

S1B. Principles of Accounting.

Mr. Wheeler

Prerequisite: at least sophomore standing and Business Administration 1A. 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, 10. Laboratory sections to be arranged.

S18. Business Law: Introduction.

Mr. Votaw

Introduction to law; contracts; sales; and agency. Prerequisite: at least sophomore standing. 2 units.

M Tu W Th F, 10.

S100. Economics of Enterprise.

Mr. Panschar

The development of economic analysis applicable to the problems of business enterprises in the areas of price, output, and utilization of resources; examination of the effects of business practices and policy on industry structure, consumers, labor, and government. Not open to students who are taking Economics 100A. Primarily for juniors. 2 units.

M Tu W Th F, 9.

S101. Business Fluctuations and Forecasting.

Mr. Beem

General analysis of the factors responsible for economic instability and of the forecasting and other management problems thereby created for the business firm. Not open to students who have taken Economics 100B. 2 units.

M Tu W Th F, 11.

S105. Business Law: Law of Business Organization and Regulation.

Mr. Votaw

Legal aspects of various types of business organization including partnerships and corporations; general survey of the law of trade regulation. Prerequisite: Business Administration 18. 2 units.

M Tu W Th F, 11.

S121A. Advanced Accounting.

Mr. Staubus

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 1A-1B. Required for those specializing in accounting. 3 units.

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

S121C. Advanced Accounting.

Mr. Anton

Continuation of 121A-121B; consolidated statements, preparation of funds statements, index numbers in accounting, special problems in analysis of financial statements. Prerequisite: Business Administration 121A-121B and 122. Not open to students who have taken 126 or 132. 3 units.

M Tu W Th F, 1. Laboratory section to be arranged.

S122. Cost Accounting.

Mr. Wheeler

Principles of cost compilation and cost accounting techniques including the methods of job order, process and standard costs, with attention to cost control devices and managerial use of analysis of cost accounting data; primary emphasis on industrial applications. Prerequisite: Business Administration 1A-1B. 3 units.

M Tu W Th F, 2. Laboratory sections to be arranged.

S123. Auditing.

Mr. Vance

Procedures for verification of financial records used by public accountants and internal auditors, including ethical, legal, and other aspects of the public accountant's work. Prerequisite: Business Administration 121A. 3 units.

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

S131. Corporation Finance.

Mr. Walter

The corporation as one form of business organization; financial aspects of promotion and organization, operation as a going concern, expansion and consolidation, failure and reorganization; the capital market, financial instru-

ments and institutions; public regulation of security issues and security exchanges. Prerequisite: Business Administration 1A-1B. 2 units.

M Tu W Th F, 8.

S133. Investments.

Mr. Walter

A study of the sources of, and demand for, investment capital, operations of security markets, determination of investment policy for individuals and institutions, and current procedures for analysis of different classes of securities. Prerequisite: Business Administration 131. 2 units.

M Tu W Th F, 9.

134. Banking and Credit.

Mr. Alhadeff

Commercial bank internal operations; credit instruments, loan policy, and credit analysis; other sources of business credit; detailed analysis of portfolio composition and management; structure and service functions of Federal Reserve; regulatory aspects of Federal Reserve and other credit agencies. Prerequisite: Economics 1A-1B. 2 units.

M Tu W Th F, 10.

S140. Production Organization and Management.

Mr. Malm

An introduction to the theory and practice of production management; the problems of internal organization; the management of physical resources; product development; materials control; production control; production standards; managerial controls. Primarily for juniors. 2 units.

M Tu W Th F, section 1, 10; section 2, 11.

S150. Industrial Relations.

Mr. Garbarino

Students will not receive credit for both Economics 150 and Business Administration 150. Designed to help beginning students understand labor-management issues through a study and interpretation of labor history, labor law, unionism, employer organization and policies, collective bargaining, wages, employment, social security, and problems of public policy. 2 units.

M Tu W Th F, 9.

S152. Collective Bargaining Systems.

Mr. Galenson

The nature, instrumentalities, and structure of collective bargaining. Analysis of union agreement provisions and their economic and political significance. Bargaining experience in major industries. Determinants of peace and conflict in industrial relations. Prerequisite: Business Administration 150 or Economics 150. 2 units.

M Tu W Th F, 11.

S160. Marketing.

Mr. Revzan, Mr. Roberts

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, section 1, 8; section 2, 10.

S161. Foreign Marketing.

Mr. Li

The marketing functions in foreign trade; organization and structure of import and export markets; export selling, foreign market analysis; price policies and price quotations; shipping procedure; customs requirements;

government control; settlement of commercial disputes. Prerequisite: Business Administration 160. 2 units.

M Tu W Th F, 2.

S163. Advertising.

Mr. Roberts

The basic concepts of advertising dealing with the preparation and execution of copy for various types of media. Study of the English used in advertising, illustration, and other elements of copy. The evaluation of principal types of media. Study of underlying psychology in copy and the psychology of the consumer as developed through product and market research. Prerequisite: Business Administration 160. 2 units.

M Tu W Th F, 9.

S165. Sales Analysis and Sales Management.

Mr. Beem

Sales analysis and forecasting; organization of sales department; planning and policy determination; selection, training, compensating, and supervising sales force; territorial analysis; cost analysis, business and economic appraisal of selling. Prerequisite: Business Administration 160. 2 units.

M Tu W Th F, 2.

S166. Wholesaling.

Mr. Revzan

The meaning and importance of wholesaling; its place in the marketing structure; functions of wholesaling; the agency structure of wholesaling; internal managerial aspects; government regulations; trends, costs, profits, and efficiency. Prerequisite: Business Administration 160. 2 units.

M Tu W Th F, 10.

S170. Transport Economics.

Mr. Nicholson

The demand for transportation; cost behavior of the important transport technologies, including private transportation; rate structures; government regulation; duties and responsibilities of carriers; government subsidies and promotional policies; growth rates and profit rates. Several field trips to be arranged. 2 units.

M Tu W Th F, 10.

S174. Traffic Management.

Mr. Nicholson

A technical survey of the purchase and sale of transportation; selection of routing; tariffs and their interpretation; rate structures and rate construction; rate claims and commission proceedings; analysis of bills of lading, loss and damage claims; plant and warehouse location. 2 units.

M Tu W Th F, 11.

S199A. Special Study for Advanced Undergraduates.

The Staff (Mr. Moonitz in charge)

Designed for senior students with at least a B average. 1-3 units.

Hours to be arranged.

S298. Business Research Methods.

Mr. Jastram

(Formerly numbered 290.)

Meaning of research and scientific method. Forms of scientific method applicable to business research. Types of business research problems, and available types of materials. Actual research procedure, and application by student to his Business Administration 299 research project. 2 units.

Tu Th, 10-12.

S299. Research in Business Problems. The Staff (Mr. Moonitz in charge)

Primarily for candidates for the degree of Master of Business Administration. 1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)***S1A. Principles of Accounting.**

Mr. Louie

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.

S1B. Principles of Accounting.

Mr. Cerf

Prerequisite: at least sophomore standing and Business Administration 1A. 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, 9. Laboratory sections to be arranged.

S18. Business Law: Introduction.

Mr. Conant

Introduction to law; contracts; sales; and agency. Prerequisite: at least sophomore standing. 2 units.

M Tu W Th F, 11.

S100. Economics of Enterprise.

Mr. Allison

The development of economic analysis applicable to the problems of business enterprises in the areas of price, output, and utilization of resources; examination of the effects of business practices and policy on industry structure, consumers, labor, and government. Not open to students taking Economics 100A. Primarily for juniors. 2 units.

M Tu W Th F, 10.

S101. Business Fluctuations and Forecasting.

Mr. Doyle

General analysis of the factors responsible for economic instability and of the forecasting and other management problems thereby created for the business firm. Not open to students who have taken Economics 100B. 2 units.

M Tu W Th F, 10.

S109. Business Law: Law of Negotiable Instruments and Security Devices.

Mr. Smith

Negotiable instruments, particularly as devices for transferring credit; a survey of various mechanisms for securing credit such as mortgages, conditional sales, trust receipts, pledges. Prerequisite: Business Administration 18. 2 units.

M Tu W Th F, 1.

S121B. Advanced Accounting.

Mr. Sprouse

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 1A-1B. Required for those specializing in accounting. 3 units.

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

S122. Cost Accounting.

Mr. Cerf

Principles of cost compilation and cost accounting techniques including the methods of job order, process and standard costs, with attention to cost control devices and managerial use and analysis of cost accounting data; primary emphasis on industrial applications. Prerequisite: Business Administration 1A-1B. 3 units.

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

S131. Corporation Finance.

Mr. Doyle

The corporation as one form of business organization; financial aspects of promotion and organization, operation as a going concern, expansion and con-

solidation, failure and reorganization; the capital market, financial instruments and institutions; public regulation of security issues and security exchanges. Prerequisite: Business Administration 1A-1B. 2 units.

M Tu W Th F, 9.

S135. Economics of Insurance.

Mr. Cowee

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, 8.

S138. Casualty Insurance.

Mr. Cowee

Prerequisite: Business Administration 135. 2 units.

M Tu W Th F, 10.

S140. Production Organization and Management.

Mr. Mitton, Mr. Rogers

An introduction to the theory and practice of production management; the problems of internal organization; the management of physical resources; product development; materials control; production control; production standards; managerial controls. Primarily for juniors. 2 units.

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

S142. Production Planning and Control.

Mr. Mitton

Production planning and budgeting; development of the production control system, including product development, materials control, plant and equipment analysis, production standards and methods, personnel and supervision; control of production quantity through routing, scheduling, and dispatching; quality control—inspection and statistical quality control; measurement of production efficiency. Prerequisite: Business Administration 140. Recommended: Business Administration 145. 2 units.

M Tu W Th F, 8.

S150. Industrial Relations.

Mr. Aller

Students will not receive credit for both Economics 150 and Business Administration 150. Designed to help beginning students understand labor-management issues through a study and interpretation of labor history, labor law, unionism, employer organization and policies, collective bargaining, wages, employment, social security, and problems of public policy. 2 units.

M Tu W Th F, 1.

S151. Personnel Administration.

Mr. Rogers

Personnel policies and procedures, with special attention to the structure of personal relationships within the enterprise as it affects personnel management, and to the development and administration of the wage structure of a firm. Prerequisite: Business Administration 150 or Economics 150, or consent of the instructor. 2 units.

M Tu W Th F, 9.

S160. Marketing.

Mr. Allison

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, 11.

S180. Introduction to Real Estate and Urban Land Economics. ———

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. 2 units.

M Tu W Th F, 11.

S199B. Special Study for Advanced Undergraduates.

The Staff (Mr. Cowee in charge)

Designed for senior students with at least a B average. 1-3 units.

Hours to be arranged.

S228. Income Tax Procedure.

Mr. Smith

A study of the federal and California laws relating to personal, estate and corporation income taxes, from the accounting point of view, including a brief survey of social security, gift, and state taxes. Prerequisite: Business Administration 121A-121B. 2 units.

Tu Th, 2-4.

S299. Research in Business Problems. The Staff (Mr. Cowee in charge)

Primarily for candidates for the degree of Master of Business Administration. 1-3 units.

Hours to be arranged.

CHEMISTRY

(Department Office, 110 Gilman Hall)

Elliot Bergman, Ph.D., *Instructor in Chemistry.*

William G. Dauben, Ph.D., *Associate Professor of Chemistry.*

Wayne B. Hadley, Ph.D., *Instructor in Chemistry.*

Frederick R. Jensen, Ph.D., *Instructor in Chemistry.*

Charles W. Koch, Ph.D., *Lecturer in Analytical Chemistry.*

Bruce R. McGarvey, Ph.D., *Assistant Professor of Chemistry.*

Rollie J. Myers, Jr., Ph.D., *Assistant Professor of Chemistry.*

Donald S. Noyce, Ph.D., *Associate Professor of Chemistry.*

Norman E. Phillips, Ph.D., *Instructor in Chemistry.*

Richard E. Powell, Ph.D., *Professor of Chemistry.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1A. General Chemistry.

Mr. McGarvey

Prerequisite: high school chemistry or high grades in high school mathematics and physics. These prerequisites may be waived for students above the freshman year whose university records are good. 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. Koch

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

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

S8. A Short Survey of Organic Chemistry.

Mr. Noyce

An introductory study of the carbon compounds. Primarily for students not majoring in chemistry. Prerequisite: Chemistry 1A, or its equivalent. 3 units.

M Tu W Th F, 9-10:30.



Above—Sather Gate looking toward Wheeler Hall

Below—The Alexander F. Morrison Library—a recreational reading room open to students and officers of the University



Arch at entrance to Faculty Glade

S9. Organic Chemistry. Laboratory.

Mr. Bergman

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. 3 units.

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

S100. Organic Chemistry—Analytical Methods.

Mr. Dauben

Qualitative organic analysis. Prerequisite: Chemistry 5 and 112. 3 units. Laboratory, M Tu W Th F, 1-5; lecture M W, 1.

S109. Physical Chemistry—Brief Course.

Mr. Hadley

Selected topics in physical chemistry. Primarily for nonchemistry majors. Prerequisite: Chemistry 5 and one year of college physics. 3 units.

M Tu W Th F, 9-10:30.

S110A. Physical Chemistry.

Mr. Phillips

The general principles of physical chemistry and elementary thermodynamics. Prerequisite: Mathematics 4A, Physics 4B, and Chemistry 5 or junior standing in a curriculum in physical science or engineering. 3 units.

M Tu W Th F, 9-10:30.

S180H. Research.

The Staff (Mr. Noyce in charge)

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. Prerequisite: Chemistry 110B or the equivalent. 2-4 units.

S185. Chemical Preparations.

The Staff (Mr. Noyce in charge)

Special laboratory work for advanced undergraduates. The consent of the instructor must be obtained. 2-3 units.

Hours to be arranged.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Noyce in charge)

Any properly qualified 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. 2-3 units.

Hours to be arranged.

S280. Research.

The Staff (Mr. Noyce in charge)

The laboratory is open at all times to a limited number of qualified graduate students who wish to pursue original investigations. Students who wish to enroll for this work should communicate with the chairman of the department well in advance of the opening of the session. Such work will ordinarily be under the direction of some member of the instructing staff who will determine the credit value. 1-4 units.

Hours to be arranged.

S290. Seminar.

The Staff (Mr. Noyce in charge)

Open to properly qualified graduate students. The subjects will vary from year to year and will be announced at the beginning of the session. 1-4 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Noyce 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.

Chemical Engineering

S180H. Research in Chemical Engineering.

The Staff (Mr. Noyce in charge)

Students with honor standing may prosecute original research under the direction of one of the members of the instructing staff. The consent of the instructor must be obtained. Prerequisite: Chemical Engineering 146B. 2-4 units.

Hours to be arranged.

S250. Research in Chemical Engineering.

The Staff (Mr. Noyce 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.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S1B. General Chemistry. Qualitative Analysis.

Mr. Powell

Continuation of Chemistry 1A. 5 units.

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

S110B. Physical Chemistry.

The general principles of physical chemistry and elementary thermodynamics. Prerequisite: Chemistry 110A, Mathematics 4A, and Physics 4B. 3 units.

M Tu W Th F, 9-10:30.

S111. Physical Chemistry. Laboratory.

Mr. Myers

Prerequisite: Chemistry 5 and 110A (with a grade of C or higher), and 110B (which may be taken concurrently), or 109 with consent of the instructor; also calculus. 3 units.

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

S112. Organic Chemistry.

Mr. Jensen

(Formerly numbered 12B.)

Introduction to the chemistry of aromatic and heterocyclic compounds. Simple enolate condensations. Prerequisite: Chemistry 12, or 8 and 9. 5 units.

Lectures and laboratory.

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

S112C. Organic Chemistry.

Mr. Jensen

(Formerly numbered 12C.)

Equivalent to the lecture part of 112. Primarily for students in the Chemical Engineering curriculum of the College of Chemistry, but open to students from other colleges with the consent of the instructor. Prerequisite: open only to students who received grade C or higher in Chemistry 12 taken at this University. 3 units.

M Tu W Th F, 9-10:30.

S180H. Research.

The Staff (Mr. Powell in charge)

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. Prerequisite: Chemistry 110B or the equivalent. 2-4 units.

S185. Chemical Preparations.

The Staff (Mr. Powell in charge)

Special laboratory work for advanced undergraduates. The consent of the instructor must be obtained. 2-3 units.

Hours to be arranged.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Powell in charge)

Any properly qualified 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. 2-3 units.

Hours to be arranged.

S280. Research.

The Staff (Mr. Powell in charge)

The laboratory is open at all times to a limited number of qualified graduate students who wish to pursue original investigations. Students who wish to enroll for this work should communicate with the chairman of the department well in advance of the opening of the session. Such work will ordinarily be under the direction of some member of the instructing staff who will determine the credit value. 1-4 units.

Hours to be arranged.

S290. Seminar.

The Staff (Mr. Powell in charge)

Open to properly qualified graduate students. The subjects will vary from year to year and will be announced at the beginning of the session. 1-4 units.

Hours to be arranged.

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.

Chemical Engineering**S180H. Research in Chemical Engineering.**

The Staff (Mr. Powell in charge)

Students with honor standing may prosecute original research under the direction of one of the members of the instructing staff. The consent of the instructor must be obtained. Prerequisite: Chemical Engineering 146B. 2-4 units.

Hours to be arranged.

S250. Research in Chemical Engineering.

The Staff (Mr. Powell 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.

CLASSICS

(Department Office, 5218 Dwinelle Hall)

William M. Green, Ph.D., *Associate Professor of Latin.*Frederic Peachy, Ph.D., *Assistant Professor of Classics.*W. Gerson Rabinowitz, Ph.D., *Assistant Professor of Greek.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***S35. Greek Tragedy.**

Mr. Peachy

Lectures on twelve Greek tragedies, to be read in English. 2 units.

M Tu W Th F, 10.

S178. Greek and Roman Mythology.

Mr. Rabinowitz

Myths, legends, and folk tales of ancient Greece and Italy; their place in the literature and art of both the ancient and the modern world. 2 units.

M Tu W Th F, 11.

Latin**S1. Elementary Latin. Double Course.**

Mr. Green

4 units.

M Tu W Th F, 8-10.

CRIMINOLOGY

(Department Office, 218 Building T-2)

M. Edwin O'Neill, M.S., *Associate Professor of Criminalistics.*Paul W. Tappan, Ph.D., LL.B., Jur.Sc.D., *Professor of Sociology, New York University.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***S100A. Crime Causation, Prevention, and Correction.**

Mr. Tappan

Orientation survey of the causes of juvenile delinquency and adult crime, methods of prevention, and current practices in the correctional treatment of offenders. 2 units.

M Tu W Th F, 1.

S101. Crime Investigation.

Mr. O'Neill

Principles involved in the investigation of crimes; police organization and procedures for the investigation of crime. 2 units.

M Tu W Th F, 10.

S107. Personal Identification.

Mr. O'Neill

A study of methods used in the identification of persons, living and dead; fingerprint identification; Bertillonage; sight recognition; portrait parle; anatomical cases, including skeletal remains to ascertain sex, race, age, size, and identity. 2 units.

M Tu W Th F, 11.

S199. Research and Special Study for Advanced Undergraduates.

1-4 units.

The Staff

Hours to be arranged.

S296A. Seminar in the Correctional Treatment of Offenders.

Mr. Tappan

2 units.

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

S299. Research and Special Study.

The Staff

1-4 units.

Hours to be arranged.

DECORATIVE ART

(Department Office, 104 Decorative Art Building)

Willis C. Kauffman, M.A., *Associate in Decorative Art.*

D. Graeme Keith, M.A., *Curator of Decorative Arts, Museum of Art, Rhode Island School of Design; Lecturer in Decorative Art in the Summer Sessions.*

Stella Kramrisch, Ph.D., *Visiting Research Professor of Oriental Studies, University of Pennsylvania.*

Yolanda S. Newby, M.A., *Acting Instructor in Decorative Art.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S6A. Theory of Design and Color.

Mrs. Newby

A survey of the basic elements of the subject and their relation to everyday life through experience in designing with line, space, and color. 2 units.

M Tu W Th F, 8-10.

128A. Decorative Arts of India.

Mrs. Kramrisch

Surveys Indian costumes and textiles from the third millennium B.C. to the present on the basis of representations in sculpture and paintings, descriptions in literature, and actual examples. 2 units.

M Tu W Th F, 10.

128B. Decorative Arts of India.

Mrs. Kramrisch

Surveys Indian decorative sculpture and its relation to the great traditions. 2 units.

M Tu W Th F, 11.

S195A. The Great Periods in Interior Design.

Mr. Keith

The study of the periods as applied to domestic interiors from mid-fifteenth century Italy to about 1825 in Europe and America. 2 units.

M Tu W Th F, 1.

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

Mr. Keith

A survey of American decorative arts including furniture, silver, ceramics, glass, etc., of the various regional areas. Attention will also be given to the domestic interiors and the social backgrounds out of which the successive styles developed. 2 units.

M Tu W Th F, 2.

SECOND SUMMER SESSION COURSE

(July 30 to September 8, 1956)

S6A. Theory of Design and Color.

Mr. Kauffman

A survey of the basic elements of the subject and their relation to everyday life through experience in designing with line, space, and color. 2 units.

M Tu W Th F, 10-12.

DRAMATIC ART

(Department Office, 1205 Dwinelle Hall)

Frederick James Hunter, Ph.D., *Assistant Professor of Speech, University of Oregon.*

Francis L. Ray, M.A., *Lecturer in Dramatic Art in the Summer Sessions.*

J. Percy Smith, Ph.D., *Associate Professor of English, University of Saskatchewan.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S10A. Theory of Acting.** Mr. Hunter
Special emphasis will be given to group work as a technique for teaching creative acting. 2 units.
M Tu W Th F, 10-11:30.
- S110. Approaches and Problems in Directing.** Mr. Ray
(Formerly numbered 135.)
Special emphasis will be given to play production problems for student presentations. 2 units.
M Tu W Th F, 1-2:30.
- S123B. History of Drama in the European Traditions.** Mr. Smith
Dramatic Art 123A is not prerequisite to 123B. 2 units.
M Tu W Th F, 11.
- S160B. Dramatic Theory.** Mr. Smith
Dramatic Art 160A is not prerequisite to 160B. 2 units.
M Tu W Th F, 9.
- S191. Laboratory Projects in Directing.** Mr. Ray
Prerequisite: Dramatic Art 110, 115, and consent of the instructor. 1 unit.
Hours to be arranged.

The University Theater.

The Department of Dramatic Art will present a play in Wheeler Auditorium during the First Summer Session under the direction of Mr. Hunter, and a studio program in the Dwinelle Studio under the direction of Mr. Ray. Participation is open to all students. Tryouts and casting of parts will take place during the first week of the session. Students who are interested should inquire at the department office, 1205 Dwinelle Hall, for details.

Plays presented by the Department of Dramatic Art serve a twofold purpose: (1) to present to the University community a program of distinguished dramas of all times and all countries; (2) to afford the students in the University an effective experience in dramatic art.

EAST ASIATIC STUDIES

Students interested in the Far East will find courses in this area offered in various departments during the Summer Sessions.

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- Decorative Arts of India (Decorative Art 128A-128B, Mrs. Kramrisch).
Economic Problems of the Far East (Economics S115, Mr. Li).
History and Civilization of the Far East (History 191D, Mr. Parsons).
Seminar in the History and Civilization of the Far East (History 291D, Mr. Parsons).
Elementary Modern Japanese (Oriental Languages S9, Mr. Shively).
Great Books of Eastern Asia (Oriental Languages S38, Mr. Boodberg).
The American Role in the Far East (Political Science S138F, Mr. Scalapino).
Government and Politics in Japan (Political Science S145, Mr. Scalapino).

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

Russia in Asia since 1895 (History 133, Mr. White).
 History of South East Asia (History 191E, Mr. White).

ECONOMICS*(Department Office, 119 South Hall)*

David A. Alhadeff, Ph.D., *Associate Professor of Business Administration.*

Grant N. Farr, Ph.D., *Assistant Professor of Economics, University of Colorado.*

David Felix, Ph.D., *Assistant Professor of Economics, Wayne University.*

Robert A. Gordon, Ph.D., *Professor of Economics.*

John B. Harbell, A.B., *Associate in Economics.*

Roy J. Hensley, Ph.D., *Instructor in Business Administration.*

Edward S. Herman, Ph.D., *Assistant Professor of Economics, The Pennsylvania State University.*

Stuart M. Jamieson, Ph.D., *Associate Professor of Economics, The University of British Columbia.*

Frank L. Kidner, Ph.D., *Professor of Economics.*

Carl Landauer, Ph.D., *Professor of Economics.*

Choh-Ming Li, Ph.D., *Associate Professor of Business Administration.*

Andreas G. Papandreou, Ph.D., *Professor of Economics.*

Charles F. Stewart, M.A., *Associate in Business Administration.*

Rutledge Vining, Ph.D., *Professor of Economics and Statistics, University of Virginia.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

S1A-S1B. Elements of Economics. Mr. Gordon, Mr. Stewart

Prerequisite: 1A is prerequisite to 1B. 3 units for each course.

S1A. M Tu W Th F, 10, and two quiz sections, Mr. Gordon.

S1B. M Tu W Th F, 10, and two quiz sections, Mr. Stewart.

S2. Economic Statistics.

Mr. Harbell

Nonmathematical introduction to modern methods of analyzing numerical data, including descriptive statistics, sampling and statistical inference, index numbers, correlation, and time series. Emphasis is on the logic of procedures, interpretation, and application. Illustrative material from economics and business. 3 units.

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

M Tu W Th F, lectures, 2. Two laboratory sections per week, of two hours each.

S100A. Economic Analysis and Economic Policy.

Mr. Papandreou

The problem of economic stability; the problem of economic progress; and problems in the foreign economic relations of the United States. Not open to students who have completed Business Administration 101. 2 units.

M W F, 3-4:30.

- S100B. Economic Analysis and Economic Policy.** Mr. Stewart
The problems of monopoly and power, economic opportunity, motivations, efficiency, and freedom. Not open to students who have completed Business Administration 100. 2 units.
M Tu W Th F, 8.
- S112. Economic History of Europe.** Mr. Landauer
2 units.
M Tu W Th F, 2.
- S113. Economic History of the United States.** Mr. Landauer
2 units.
M Tu W Th F, 3.
- S115. Economic Problems of the Far East.** Mr. Li
2 units.
M Tu W Th F, 10.
- S135. Money and Banking.** Mr. Alhadeff
Monetary and banking institutions; monetary theory, international monetary relations, monetary policy. Primarily for juniors. 2 units.
M Tu W Th F, 11.
- S190B. International Economic Relations.** Mr. Harbell
Fundamental factors in international economic relations.
2 units.
M Tu W Th F, 1.
- S199. Special Study for Advanced Undergraduates.**
The Staff (Mr. Landauer in charge)
Designed primarily for seniors on the Honor List of the College of Letters and Science. 1-3 units.
Hours to be arranged.
- S200A. Fundamentals of Economic Theory.** Mr. Papandreou
Microeconomics: the behavior of firms and households, and the determination of prices and resource allocation patterns in a decentralized economy. 2 units.
Tu Th, 2-4.
- S298. Research.** The Staff (Mr. Gordon in charge)
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 consent of the instructor in charge, to graduate students who desire to do special work in a particular field. 1-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

- S1A-S1B. Elements of Economics.** Mr. Jamieson, Mr. Kidner
Prerequisite: 1A is prerequisite to 1B. 3 units for each course.
S1A. M Tu W Th F, 9, and two quiz sections, Mr. Jamieson.
S1B. M Tu W Th F, 9 and two quiz sections, Mr. Kidner.
- S2. Economic Statistics.** Mr. Vining
Nonmathematical introduction to modern methods of analyzing numerical data, including descriptive statistics, sampling and statistical inference, index numbers, correlation, and time series. Emphasis is on the logic of procedures, interpretation, and application. Illustrative material from economics and business. 3 units.

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

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

S100A. Economic Analysis and Economic Policy. Mr. Herman
The problem of economic stability; the problem of economic progress; and problems in the foreign economic relations of the United States. Not open to students who have completed Business Administration 101. 2 units.
M Tu W Th F, 9.

S100B. Economic Analysis and Economic Policy. Mr. Felix
The problems of monopoly and power, economic opportunity, motivation, efficiency, and freedom. Not open to students who have completed Business Administration 100. 2 units.
M Tu W Th F, 9.

S112. Economic History of Europe. Mr. Farr
2 units.
M Tu W Th F, 10.

S113. Economic History of the United States. Mr. Herman
2 units.
M Tu W Th F, 1.

S121A. Industrial Organization. Mr. Hensley
The organization and structure of industries and their markets in the American economy, competitive behavior, price policy, and market performance in such industries; public policy in the regulation of industry. 2 units.
M Tu W Th F, 9.

S135. Money and Banking. Mr. Kidner
Monetary and banking institutions; monetary theory, international monetary relations, monetary policy. Primarily for juniors. 2 units.
M Tu W Th F, 11.

S150. Labor Economics. Mr. Jamieson
The social background of labor legislation and trade unionism. Students will not receive credit for both Economics 150 and Business Administration 150. 2 units.
M Tu W Th F, 2.

S152. Labor Economics. Mr. Farr
Comparative survey of American and foreign labor movements. 2 units.
M Tu W Th F, 1.

S190A. International Economic Relations. Mr. Hensley
Fundamental factors in international economic relations. 2 units.
M Tu W Th F, 2.

S199. Special Study for Advanced Undergraduates.
The Staff (Mr. Herman in charge)
Designed primarily for seniors on the Honor List of the College of Letters and Science. 1-3 units.
Hours to be arranged.

S200B. Fundamentals of Economic Theory. Mr. Vining
Macroeconomics: general interdependence and the behavior of aggregates in a decentralized economy. National income and employment determination.

The impact of fiscal and monetary policies on employment, national income and its distribution. 2 units.

Tu Th, 4-6.

S212B. European Economic History.

Mr. Felix

2 units.

M W, 2-4.

S298. Research.

The Staff (Mr. Kidner in charge)

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 consent of the instructor in charge, to graduate students who desire to do special work in a particular field. 1-4 units.

Hours to be arranged.

EDUCATION

(Department Office, 207 Haviland Hall)

William M. Alexander, Ph.D., *Professor of Education, University of Miami.*
Hubert C. Armstrong, Ph.D., *Associate Professor of Education, The Claremont Graduate School.*

Joseph C. Bellenger, A.B., *Dean of Instruction, West Contra Costa Junior College; Lecturer in Education in the Summer Sessions.*

Ruth Brace, M.A., *Speech Therapist, Oakland Unified School District; Assistant in Special Education in the Summer Sessions.*

Irving G. Breyer, LL.B., *Legal Adviser, San Francisco Unified School District; Lecturer in Education in the Summer Sessions.*

William A. Brownell, Ph.D., LL.D., *Professor of Education and Chairman of the Department.*

Reed L. Buffington, Ed.D., *Dean of Instruction, East Contra Costa Junior College; Lecturer in Education in the Summer Sessions.*

Guy T. Buswell, Ph.D., LL.D., *Professor of Education.*

Harold D. Carter, Ph.D., *Professor of Education.*

Hal C. Cheney, M.A., *Regional Supervisor, Bureau of Business Education, California State Department of Education; Lecturer in Education in the Summer Sessions.*

Georgia T. Cooper, M.A., *Lecturer in Special Education in the Summer Sessions.*

Enoch Dumas, Ed.D., *Lecturer in Education, Associate Director of Supervised Teaching, and Supervisor of Elementary Education.*

T. Bentley Edwards, Ph.D., *Associate Professor of Education.*

William R. Flesher, Ph.D., *Research Associate and Professor of Education, The Ohio State University.*

Clifford P. Froehlich, Ed.D., *Associate Professor of Education.*

Marion Gaines, M.A., *Dean of Girls, Clovis Union High School; Lecturer in Special Education in the Summer Sessions.*

Luther C. Gilbert, Ph.D., *Professor of Education.*

Leonard Grindstaff, Ed.D., *Assistant Superintendent of Schools, Santa Monica; Lecturer in Education in the Summer Sessions.*

Charles C. Grover, M.A., *Lecturer in Education and Director of the Demonstration Elementary School.*

H. Thurston Hatch, Ed.D., *City Superintendent of Schools, Chico; Lecturer in Education in the Summer Sessions.*

- Jack A. Holmes, Ph.D., *Associate Professor of Education.*
- Arnold E. Joyal, Ph.D., *President, Fresno State College; Lecturer in Education in the Summer Sessions.*
- Goldie Ruth Kaback, Ph.D., *Assistant Professor of Education, The City College, New York.*
- Bjorn Karlsen, Ph.D., *Assistant Professor of Education, San Diego State College.*
- George H. Kyme, Ph.D., *Associate in Music and Supervisor of the Teaching of Music.*
- George C. Kyte, Ed.D., *Professor of Education.*
- Philip Lambert, Ph.D., *Supervisor of Curriculum, Orinda Union School District; Lecturer in Education in the Summer Sessions.*
- Paul V. W. Lofgren, Ph.D., *Assistant Supervisor in Charge of Testing, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- Jack London, Ph.D., *Assistant Professor of Education.*
- S. E. Torsten Lund, Ph.D., *Associate Professor of Education.*
- Thomas R. McConnell, Ph.D., LL.D., D.H.L., *Professor of Education.*
- Sidney E. McGaw, Ed.D., *Regional Supervisor, Bureau of Industrial Education, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- Henry M. McGee, Ed.D., *Principal, Golden State Elementary and Junior High School, Oakland; Lecturer in Education in the Summer Sessions.*
- Foster McMurray, Ph.D., *Associate Professor of Education, University of Illinois.*
- Donald H. Madsen, Ph.D., *Principal, Santa Fe Elementary Schools, Oakland; Lecturer in Education in the Summer Sessions and Principal of the Demonstration Elementary School.*
- William B. Michael, Ph.D., *Director, University Testing Bureau and Associate Professor of Education and Psychology, University of Southern California.*
- John U. Michaelis, Ph.D., *Professor of Education.*
- Gail E. Moore, M.Ed., *Lecturer in Education; Supervisor of Trade and Industrial Relations, California State Department of Education.*
- Richard D. Mosier, Ph.D., *Associate Professor of Education.*
- Kay Ortmans, *Lecturer in Special Education in the Summer Sessions.*
- J. Cecil Parker, Ed.D., *Professor of Education.*
- Grace Petitelerc, A.B., *Lecturer in Special Education in the Summer Sessions.*
- T. Clyde Polson, Ph.D., *Supervisor of the Teaching of Science.*
- Aileen Poole, Ph.D., *Guidance Consultant, Alameda Unified School District; Lecturer in Education in the Summer Sessions.*
- Helen Prouty, Ph.D., *Assistant Professor of Education, San Diego State College.*
- Theodore L. Reller, Ph.D., *Professor of Education.*
- George L. Rosecrans, M.A., *Special Supervisor in Apprenticeship Training, California State Department of Education; Lecturer in Education in the Summer Sessions.*
- Karl E. Schevill, Ph.D., *Supervisor of the Teaching of Foreign Languages.*
- Manfred H. Schrupp, Ph.D., *Professor of Education and Chairman, Division of Education, San Diego State College.*

James R. Squire, M.S., *Associate Director of Supervised Teaching and Supervisor of the Teaching of English; Principal of the Demonstration Secondary School.*

John Mortimer Stephens, Ph.D., *Professor of Education and Psychology, The Johns Hopkins University.*

Lawrence H. Stewart, Ed.D., *Assistant Professor of Education.*

Harry W. Sundwall, Ph.D., *Associate Professor of Educational Psychology, Michigan State University.*

Karl A. Thomte, M.A., *Assistant Supervisor of Trade and Industrial Teaching, California State Department of Education; Lecturer in Education in the Summer Sessions.*

Frederick T. Tyler, Ph.D., *Professor of Education.*

John T. Wahlquist, Ph.D., *President, San Jose State College; Lecturer in Education in the Summer Sessions.*

Lillian R. Wood, M.A., *Lecturer in Education.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

Teachers who hold provisional credentials in California and who have not been granted the bachelor's degree, may wish to use credit obtained in Summer Sessions or University Extension in applying for the renewal of their credentials through the University of California. To do this it is necessary that they be admitted to regular status in the University, in addition to being admitted to Summer Sessions or University Extension. Each student must file an application for admission to the regular sessions of the University with the Director of Admissions, University of California, Berkeley 4.

Teachers who are planning a program to meet requirements for the renewal of their provisional credential should consult the Student Personnel Service of the Department of Education, 103 Haviland Hall.



Among Summer Sessions offerings designed specifically for teachers of history (History of the Far East), and science, are the following courses:

- History and Civilization of the Far East (191D)
- Seminar in the History and Civilization of the Far East (291D)
- Advances in Chemistry and Biochemistry (Biochemistry 130)
- Modern Physics (S132)

These courses will present to the teacher the latest developments in each field of study.



Prerequisite to upper division courses: junior standing, and Psychology 1A.

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, 1.

S106. Philosophy of Education. Mr. McMurray

The great educational classics and their meaning for modern man. 2 units.

M Tu W Th F, 3.

S110. Introduction to Educational Psychology. Mr. Stephens
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. Mr. Schrupp
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. 2 units.
M Tu W Th F, section 1, 8; section 2, 9.

S112. The Improvement of Reading. Mr. Holmes
Psychology of learning as it relates to effective reading readiness programs, development of word meaning, organization and analysis, improvement of comprehension, recall, skimming and speed reading, study skills and higher mental processes, provision for individual differences in ability and interest, place of skills in modern reading program. 2 units.
M Tu W Th F, 10.

S114. Statistical Methods in Education. Mr. Michael
The use of statistical techniques in educational research and interpreting the results of measurement. Prerequisite: Education 110. Mathematics D is also recommended. 2 units.
M Tu W Th F, 1.

S116. The Exceptional Child. Mr. Sundwall
The intellectually superior and the mentally inferior child, the physically handicapped, and the delinquent, with educational and sociological application. Prerequisite: Education 110 or a course in Psychology in addition to 1A. 2 units.
M Tu W Th F, 1.

S119. Standard Tests in Education. Mr. Carter
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. 2 units.
M Tu W Th F, 9.

S127. Principles of Teaching the Slow Learner. Mr. Holmes
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. 2 units.
M Tu W Th F, 8, and field work.

S130. Elementary Education. Mr. Grover
Limited to candidates for the elementary teaching credential, for the general administrative credential, and for the doctor's degree (Ph.D., or Ed.D.). Prerequisite Education 110 completed or taken concurrently. 2 units.
M Tu W Th F, 9.

S131. Arithmetic and Language in the Elementary School. Mr. Dumas
Objectives, standards of attainment, and types of instruction in arithmetic, oral and written English, spelling, and penmanship; diagnostic and remedial techniques, criteria for selection, placement and organization of the content of these subjects. Prerequisite: Education 110 and 130 completed. 2 units.
M Tu W Th F, 11.

S132. Art and Music in the Elementary School. Mr. Kyme, Mrs. Wood

Functions, organization, instructional planning, implications of research in child development for teaching and selection of materials and evaluation of educational outcomes in the art and music curricula in elementary schools. Enrollment limited to facilities available. Prerequisite: Education 110, 130. 2 units.

Tu Th, 2-4:30.

133. Elementary Education Workshop.

A 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 specialization in the preparation of curricula material. Emphasis upon the solution of individual problems brought to the workshop by participating teachers, superintendents, and elementary principals. Prerequisite: enrollment limited to facilities available and consent of the instructor. 2 units for each course.

133G. Workshop in Social Studies.

M W F, 8-10.

Mr. Grindstaff

133E. Workshop in Reading.

M W F, 10-12.

Mr. Karlsen

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

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. Prerequisite: Education 110 and 130 completed. 2 units.

M Tu W Th F, 9.

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

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. Prerequisite: Education 110 and 130. 2 units.

M Tu W Th F, 11.

S153. Mental Hygiene—Elementary. Mr. Stephens

A basic course concerned with problems of childhood. Prerequisite: Education 110. 2 units.

M Tu W Th F, 10.

S160. Vocational Education. Mr. Moore

Philosophy and organization of vocational education of less than college grade, with particular reference to principles underlying education for industry, agriculture, commerce, homemaking, and continuation education. 2 units.

M Tu W Th F, 9.

S161. Occupational and Educational Information. Miss Kaback

Labor market organization and dynamics; job analysis and community occupational surveys; investigation of training opportunities. Sources and interpretation of data. Lecture and laboratory. 2 units.

Tu Th, 8-10, additional hour to be arranged.

S162. Occupational Testing.

Miss Kaback, Miss Poole

Theory and practice in occupational testing; emphasis upon aptitude, interest, and personality measures; validity, reliability, and normative data. Supervised work in test administration, scoring, and interpretation. Prerequisite: Education 114 or 119, and consent of the instructor. 2 units.

Tu Th, 10-12; laboratory to be arranged.

S164. Introduction to Student Personnel Work.

Miss Poole

Nature, scope, organization, and administration of personnel services in educational institutions. Basic guidance techniques. This course is for non-majors in student personnel and counseling psychology. 2 units.

M Tu W Th F, 1.

S170. Secondary Education.

Mr. Edwards

Functions, scope, objectives, and curricula, including the fields of the high school and junior college in relation to individual and social needs. Prerequisite: Education 110 and 111; ordinarily juniors will not be admitted. (These requirements will be administered without exception for all University of California students.) 2 units.

M Tu W Th F, 9.

S172. Junior High School Education.

Mr. McGee

Prerequisite: Education 110 (may be taken concurrently). 2 units.

M Tu W Th F, 1.

S181. Adult Education.

Mr. London

The functions and possibilities of adult education in our society. The resources available to those who do educational work with adults in public schools and other community agencies. The role of the public schools in facilitating cooperation among these agencies. 2 units.

M Tu W Th F, 8.

S186. Laws Relating to Schools and to Children.

Mr. Breyer

School laws and those aspects of labor and welfare laws applicable to school children. 2 units.

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

The attention of students is invited to Social Welfare 206, Social Casework in School Guidance Programs. It will be of interest to students who are working toward a Child Welfare and Attendance Credential. This course may be substituted for Education 187.

GRADUATE COURSES

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 will consist normally of the completion of at least 12 units of upper division work basic to the subject of the graduate course.

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.

S200A. The School in the Social Order.

Mr. Mosier

A study of the interrelations of the school and society, of the complexity of the culture in which education functions, and of the political and social relations of the school to contemporary American society. 3 units.

M Tu W Th F, 2-3:30.

S200B. Psychological Foundations of Education. Mr. Brownell
(Formerly numbered 210A.)

A systematic course designed to organize and to integrate the field of educational psychology at an advanced level. Prerequisite: 8 units in educational psychology and/or psychology. 3 units.

M Tu W Th, 8-10.

S200C. Foundations of Curriculum Development. Mr. Alexander

A basic course in the general concepts, principles and practices of curriculum development, and the construction and evaluation of specific curricula. 3 units.

M W F, 2-4:30.

S209. Philosophical Issues in Contemporary Education. Mr. McMurray

A critical analysis of educational issues and their relation to major philosophical positions. Readings principally from significant current publications. For graduate nonspecialists and majors in the history and philosophy of education. Prerequisite: consent of the instructor. 2 units.

M W, 4-6:30.

S212. Analysis of Difficulties in Reading and Language Arts. Mr. Gilbert

Clinical procedures in the study of pupils who are failing in reading, spelling, and oral and written composition; various types and causes of failures; use of educational and psychological tests and informal analyses; corrective methods. 2 units.

Tu Th, 2-4:30.

S213. Individual Intelligence Tests in Guidance. Mr. Sundwall

A critical analysis of the history and techniques of individual intelligence testing. Although the theory of individual intelligence testing is emphasized, some supervised practice in administering scoring, and interpreting both the 1937 Revised Stanford-Binet and the Wechsler-Bellevue scales is a regular requirement of the course. Prerequisite: Education 110, 111, 114, or their equivalent. 2 units.

M Tu W Th F, 9.

214B. Factor Analysis. Mr. Michael

The theory and application of factor analysis to educational and psychological data. Prerequisite: Education 114. 2 units.

Tu Th, 4-6:30.

S215. Advanced Educational Psychology.

A systematic and critical appraisal of the scientific literature of the field. Primarily for doctoral candidates in educational psychology. Prerequisite: consent of the instructor.

S215C. Human Development: Individual Differences. Mr. Tyler

The facts, principles, and generalizations concerning the nature of, and the factors related to, individual differences in human growth and development. Primarily for doctoral candidates in educational psychology. 4 units.

M Tu W Th F, 8-10.

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.

Tu Th, 10-12 and F, 10.

S217A. Experimental Education.

Mr. Gilbert

Laboratory experiments, with special reference to the more elaborate techniques applied to the various school subjects. The course includes voice recordings, 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. Admission on consultation with the instructor. 2 units.

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

S218A. The Psychological Bases of the Curriculum in Elementary Schools.

(Formerly numbered 118.)

Mr. Karlsen

Psychological problems in the use of materials and methods in the elementary school program. Part of the students' work will be a special study of psychological research in a selected area. Prerequisite: consent of the instructor. 2 units.

Tu Th, 10-12; additional hour to be arranged.

227. Problems in Curriculum Development Practicum.

Mr. Parker

Designed especially 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 the instructor. 2 units.

M W, 2-4, and F, 3.

S229. In-Service Programs for School Personnel.

Mr. Parker

Current practices, problems, principles and procedures in in-service education programs for public school personnel with emphasis upon evaluation. Designed for principals, directors, supervisors, superintendents, and for teachers with interest or responsibility for in-service education. Prerequisite: school experience. 2 units.

Tu Th, 2-4, and F, 2.

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.

M W, 10-12, additional hour to be arranged.

S233A. 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.

Tu Th, 10-12; additional hour to be arranged.

S233B. Supervision of Elementary Education Practicum.

Mr. Lambert

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.

Tu Th, 1-3; additional hour to be arranged.

S235. The Elementary School Curriculum.

Mr. Madsen

Prerequisite: consent of the instructor. 2 units.

M W, 1-3; additional hour to be arranged.

S237. Trends in Elementary Education.

Mr. Michaelis

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 completion of at least 12 units in education. 2 units.

M W, 3-5; additional hour to be arranged.

S240A. Educational Administration Seminar.

Mr. Reller, Mr. Wahlquist

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

Sections 1 and 2, Tu Th, 10-12:30.

S241A. Introduction to Educational Administration.

Mr. Armstrong, Mr. Hatch

A comprehensive introduction to the principles, practices and literature of educational administration. Required for the master's degree in educational administration and for various administrative credentials. Prerequisite: consent of the instructor. 4 units.

M Tu Th F, section 1, 2-4; section 2, 4-6.

S241B. Introduction to Educational Administration.

Mr. Flesher

A comprehensive introduction to the principles, practices and literature of educational administration. Required for the master's degree in educational administration and for various administrative credentials. Prerequisite: consent of the instructor. 4 units.

M Tu W Th F, 2-4.

S242. Advanced Study in the Theory and Practice of Educational Administration.

Designed to provide opportunity for advanced study in the theory and practice of educational administration at elementary, secondary, and adult education levels. Opportunity will be provided for exhaustive study of the basic related disciplines and problems in the respective areas. Prerequisite: Education 241A-241B and consent of the instructor.

Sec. A.

Mr. Joyal

Local, state, federal organization; education and government; education law. 2 or 4 units.

M W, 1:30-4. Additional hours to be arranged.

Sec. D.

Mr. Joyal

Finance and business administration. 2 or 4 units.

Tu Th, 4-6:30. Additional hours to be arranged.

Sec. E.

Mr. Reller

School-community relations and school housing.

2 or 4 units.

M W, 2-4:30. Additional hours to be arranged.

S258B. Social Studies Education Seminar.

Mr. Michaelis

Research on problems in social studies education for advanced students. Prerequisite: consent of the instructor. 2 units.

Tu Th, 3-5, additional hour to be arranged.

S260A. Student Personnel Work Seminar.

Mr. Stewart

Research in the field of student personnel activities. Prerequisite: Education 164 and consent of the instructor. 2 units.

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

S266. Introduction to Counseling Theory.

Mr. Stewart

Basic counseling theory, schools of counseling, surveys of counseling techniques. Prerequisite: Education 119, 161, 162, 164, and consent of the instructor. 2 units.

Lectures: M W F, 8; laboratory to be arranged.

S270A. Secondary Education Seminar.

Mr. Lund

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 the instructor. 2 units.

Tu Th, 4-6:30.

S272B. Secondary School Curriculum: Techniques of Curriculum Making.

Mr. Alexander

Prerequisite: Education 272A, graduate standing, and consent of the instructor. 2 units.

Tu Th, 2-4:30.

S273. Supervision in Secondary Schools.

Mr. Edwards

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

M W, 2-4:30.

S275. Secondary Education: Survey.

Mr. Lund

Survey and critical review of secondary education literature, including research studies, yearbooks, reports, and other documents. Admission on consultation with the instructor. 2 units.

Tu Th, 10-12:30.

S279. The Junior College Practicum.

Mr. Buffington

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.

M W, 4-6:30.

S281A. Adult Education Seminar.

Mr. London

Discussion of current problems and literature in adult education, with opportunity for members of the course to work on a solution of one of these problems or of a problem which confronts them in their work. Prerequisite: Education 181 or experience in adult education. 2 units.

M W, 10-12, and F, 10.

S285. Higher Education in the United States.

Mr. McConnell

An analysis of trends and problems in higher education, with emphasis on functions and educational programs of the several types and levels of institutions; admission and counseling of students; instructional problems; and the administration, control, and financing of public and private colleges and universities. Prerequisite: consent of the instructor. 3 units.

M W F, 10-12:30.

S288. Seminar in Higher Education.

Mr. McConnell

An intensive study of the three following problems in higher education: (a) the student in higher education; (b) the curriculum of higher education; and (c) the administration of higher education. Prerequisite: consent of the instructor. 2 units.

M W, 2-4:30.

S298. Directed Research.

The Staff (Mr. Brownell in charge)

Open only to candidates for the Ph.D. and Ed.D. degrees who have passed the departmental qualifying examinations and who present an approved plan of research and, in special cases, to students who present evidence of qualifications and approved plans for carrying on a particular type of research. Admission only with consent of the instructor in charge. 2-4 units.

Hours to be arranged.

S320A. Secondary Supervised Teaching.

Mr. Schevill

Lectures, conferences, laboratory, and field work. Observation and participation in some form of public school work. It is strongly recommended that students reserve at least a two-hour period for field work. Limited to twenty-five students. Admission upon consultation with the instructor. Limited to applicants for the Secondary Credential. This course is ordinarily restricted to students enrolled in the teacher education program in the University of California at Berkeley. 3 units.

M W, 3-5, additional hours to be arranged.

S320B. Audio-Visual Instruction: Materials and Techniques. Mr. Polson

Lectures, conferences, demonstrations, laboratory experiences. Theoretical and psychological factors; implications of research studies; operation of equipment; selection, evaluation, and utilization of materials; preparation of handmade slides; graphic displays; materials for opaque projection, duplicated and fugitive materials; the services offered teachers by the audio-visual departments of school systems. Prerequisite: Education 110. 2 units.

Lectures, section 1, M W, 9; section 2, Tu Th, 1; additional hours to be arranged.

Laboratory, section 1, M W, 10-12; section 2, Tu Th, 10-12; section 3, M W, 1-3; section 4, Tu Th, 1-3; section 5, M W, 3-5.

S323. Practicum in Supervised Teaching.

Mr. Schevill

An opportunity to obtain more extended and varied experience under supervision. The emphasis is varied in accordance with the candidate's previous experience. Limited to twenty-five students. Admission only after conference with the instructor. This course is ordinarily restricted to students enrolled in the teacher education program in the University of California at Berkeley. Prerequisite: Education 320A or experience as a teacher. 2-4 units.

Tu Th, 3-5, and one hour to be arranged.

325. Field Work in Student Personnel Services.

Miss Poole, Miss Kaback

Supervised field work in schools and other community agencies. Prerequisite: Education 164, and consent of the instructor. 2 units.

Hours to be arranged.

SPECIAL EDUCATION

Attention is directed to Education S112, S116, S119, S127, S153, S213.

Speech Correction***370. Speech Defects and Disorders with Corrective Techniques.**

Miss Ortman

Designed to give students, teachers, and administrators a broader understanding of the causes and treatment of speech defects and disorders. Includes classification of speech defects and disorders, theories of functional and organic disorders of voice and speech; the causes and treatment of stut-

* The following courses offered in Education are acceptable toward the Speech Correction Credential for persons holding a valid teacher's credential: 370, 394P, 394S, 395, 395P

tering and articulatory defects, and methods used in the speech correction classes in the public schools in California. Prerequisite: Education 110. 2 units.

M Tu W Th F, 2.

394P. Bases for the Development of Clinical Procedures in Speech Correction.

Mrs. Cooper

Survey of clinical theories and procedures in speech correction. Consideration of child growth and development as basic to the development of clinical procedures. Consideration of problems in relation to the organization of a public school program in speech correction. 2 units.

M Tu W Th F, 1. Clinic for speech correction, M Tu W Th F, 9-11.

394S. Clinical Practice in Speech Correction.

Mrs. Cooper, Mrs. Pettelere, Miss Brace

Consideration of problems of speech correction in relation to speech development. Demonstration of speech correction in relation to the teaching of other basic skills. Demonstrations in the correction of speech defects and disorders, and supervised teaching. Prerequisite: Education 394P, 395P, or equivalents. 2 units.

M Tu W Th F, Demonstration class, 9-11; conference, 11.

395. Methods, Techniques, and Materials for Speech Correction and Improvement.

Mrs. Gaines

Introductory course for candidates for the speech credential and for the classroom teacher. Study of speech disorders found among children of pre-school and school age. The role of the classroom teacher as well as the speech correctionist will be stressed. Attention will be given to verse choir, to the speech and voice of the individual teacher, and to phonetics as applied to articulation. 2 units.

M Tu W Th F, 10.

395P. Phonetics Applied to the Correction of Articulatory Speech Defects.

Mrs. Gaines

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 with groups and with individuals. Prerequisite: Education 395 or equivalent. 2 units.

M Tu W Th F, 8.

Courses in Business Education

161C. Work Experience Programs in Business Education.

Mr. Cheney

Work experience programs in merchandising, secretarial and clerical fields; objectives of cooperative training; promoting and establishing training programs; selection and placement of students; relations with cooperating business firms; organization of instructional material; problems of coordination, supervision, and evaluation. Open to teachers of business subjects and others on approval of the instructor. 2 units.

M W, 6:30-9 p.m.

161T. Techniques and Materials in the Teaching of Merchandising Courses.

Mr. Cheney

A study of methods and content used in teaching classes in merchandising. Techniques of job analysis for building course content; lesson plans; tech-

niques of presentation. Open to teachers of merchandising, retailing, salesmanship, advertising, general business, and to other persons with consent of the instructor. 2 units.

Tu Th, 6:30-9 p.m.

Trade and Industrial Education

163C. Construction of Vocational Curricula. Mr. McGaw

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. Cooperative and Apprenticeship Education. Mr. Rosecrans

The problems incident to the organization and administration of cooperative and apprenticeship education. 2 units.

M Tu W Th F, 8.

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, 10.

167S. Supervision of Vocational Education. Mr. Bellenger

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, 9.

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.

M Tu W Th F, 11.

361. Occupational Analysis. Mr. Thomte

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. McGaw

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. Thomte

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, 11.

367. Civic and Employment Relations.

Mr. Bellenger

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, 11.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

Registration for the Second Summer Session is subject to two conditions:

1. Students must agree to continue for the entire six weeks.

2. Students must take the final examination on the last day of the course.

No exceptions can be made.



Teachers who hold provisional credentials in California may wish to use credit obtained in Summer Sessions or University Extension in applying for the renewal of their credentials through the University of California. To do this it is necessary that they be admitted to regular status in the University, undergraduate or graduate, in addition to being admitted to Summer Sessions or University Extension. Each student must file an application for admission to the regular sessions of the University—if an undergraduate student, with the Director of Admissions; if a graduate student, with the Dean of the Graduate Division, University of California, Berkeley 4.

Teachers who are planning a program to meet requirements for the renewal of their provisional credential should consult the Student Personnel Service of the Department of Education, 103 Haviland Hall.



Prerequisite to upper division courses: junior standing, and Psychology 1A.

S110. Introduction to Educational Psychology.

Mr. Buswell

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.

Miss Prouty

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. 2 units.

M Tu W Th F, 9.

S119. Standard Tests in Education.

Miss Prouty

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. 2 units.

Tu Th, 6-8:30 p.m.

S164. Introduction to Student Personnel Work.

Mr. Froehlich

Nature, scope, organization, and administration of personnel services in educational institutions. Basic guidance techniques. This course is for non-majors in student personnel and counseling psychology. 2 units.

M W, 3:30-6.

S210. The Learning Process.

Mr. Buswell

Limited to human learning and directed particularly to problems of school learning in the areas of skills, concept formation, problem solving, and aesthetic appreciation. Doctoral candidates in educational psychology may not register for this course. Prerequisite: consent of the instructor. 2 units.

M Tu W Th F, 9.

S264. Organization and Administration of Student Personnel Services.

Mr. Froehlich

Allocations of functional responsibilities; staff and line relationships; individual and group methods. Problems of budgeting, staffing, and equipping the program; record keeping and office management. Coordination of institutional and community resources. Prerequisite: Education 164 and consent of the instructor. 2 units.

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

S298. Directed Research.

The Staff (Mr. Brownell in charge)

Open only to candidates for the Ph.D. and Ed.D. degrees who have passed the departmental qualifying examinations and who present an approved plan of research and, in special cases, to students who present evidence of qualifications and approved plans for carrying on a particular type of research. Admission only with consent of the instructor in charge. 2-4 units.

Hours to be arranged.

The Demonstration Schools

ELEMENTARY

ORGANIZATION AND AIMS

The Demonstration Elementary School will operate daily Monday through Friday during the First Summer Session, June 18 to July 28, 9 a.m. to 12 m. Groups of children classified in kindergarten through grade six will be working at the school. (Children not now in kindergarten but who will be five and one-half by July 1, will be accepted in kindergarten.) 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 at Virginia and Milvia streets.

The school will offer daily demonstrations of modern elementary school learning situations and will be open to Summer Session students, especially those enrolled in courses in elementary education. In most cases observers will be scheduled through their classes in education, but persons not enrolled in the Summer Sessions may visit the school by arrangement with the school office upon payment of fifty cents for each visit.

Emphasis will be placed on a sound educational program. Considerable attention will be given to creative activities—art, music, physical education, dramatics, choral reading, rhythmic activities, games, etc. As a result of the interesting and profitable experiences the students will have had during the six-week session of the demonstration school, they will be better prepared for the ensuing fall term.

THE PUPILS

The school enrolls children who live in the Bay Area and who come to the campus with their families for the summer in order of receipt of application.

Since the program is not of a remedial nature, it is not possible to accept applications from those children who have special school problems.

Enrollment is limited to 30 students in each class. It is important, therefore, that application for admission be made well in advance of the opening date of the school and directed to the Office of the Demonstration Elementary School, Whittier-University Elementary School, Virginia and Milvia streets, Berkeley 9. Applications received after this enrollment limit 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. The fee is \$25 for the six weeks' session, \$5.00 of which is payable at the time application is made. The \$5.00 deposit will not be refunded upon withdrawal. The balance of the fee will be paid on registration day, June 18, from 9 a.m. to 11 a.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 a supervisor who is provided by the Berkeley Recreation Department.

SECONDARY

ORGANIZATION

Through the courtesy of the Oakland Board of Education and the Superintendent of Schools, the Demonstration Secondary 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 25 to August 17. 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 housed in the Oakland Technical High School building at Broadway and Forty-third street, in Oakland. Transportation is available on buses numbered 51, 52, 58 going from Berkeley, and on bus numbered 51 coming from the main business section of Oakland. Classes will be open daily for observation and for supervised teaching by students enrolled in Education S320A, and S323, or in other courses in education. Persons not enrolled in the Summer Sessions may visit the school upon payment of fifty cents for each visit.

THE PUPILS

High school students will be received from any school district, but it is necessary 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 three subjects. In addition to the usual academic courses, reading improvement, corrective composition, arts and crafts, manual arts, household arts, and vocal and instrumental music will be offered. Most of the activity subjects are open to teachers and to other adults.

Enrollment should be made by advance application to the principal, Mr. James R. Squire, 224 Building T-8, University of California, Berkeley 4, California. Students may register and pay fees at Oakland Technical High School on Friday, June 22, from 8 a.m. to 4 p.m., and on Saturday, June 23, from 8 a.m. to 12 m. The fee, which is \$15 for each course, must be paid on registration day. Checks should be made payable to The Regents of the University of California.

ENGINEERING

(Department Office, 219 Engineering Building)

- Cyril P. Atkinson, M.S., M.E., *Assistant Professor of Engineering Design.*
 Francis R. Berry, Jr., M.S., M.E., *Assistant Professor of Engineering Design.*
 Donald C. Bryant, M.S., *Lecturer in Engineering Design.*
 Maurice A. Buckley, Ph.D., *Lecturer in Engineering Design.*
 Israel I. Cornet, Ph.D., *Associate Professor of Process Engineering.*
 Don M. Cunningham, M.S., *Assistant Professor of Engineering Design.*
 George E. Davis, M.A., *Lecturer in Engineering Design.*
 E. Paul DeGarmo, M.S., *Professor of Industrial Engineering.*
 Harold R. Edmison, B.S., *Lecturer in Engineering Design.*
 Leonard Farbar, M.S., *Associate Professor of Process Engineering.*
 Lawrence M. Grossman, Ph.D., *Associate Professor of Process Engineering.*
 Henry Edward Harris, B.S. in Chemical Engineering (M.S. in Education),
Instructor in Engineering, East Contra Costa Junior College.
 Fred Hirsch, M.M.E., *Lecturer in Engineering Design.*
 William W. Howe, M.S., *Instructor in Engineering, College of Marin.*
 David Pirtz, M.S., *Associate Professor of Civil Engineering.*
 Milos Polivka, M.S., *Assistant Professor of Civil Engineering.*
 William S. Rouverol, M.S., *Associate Professor of Engineering Design.*
 James F. Schon, B.S., *Instructor in Engineering, San Francisco City College.*
 Alexander C. Scordelis, M.S., *Assistant Professor of Civil Engineering.*
 Walter W. Soroka, Sc.D., *Professor of Engineering Design and Vice-Chairman
 of the Division.*
 George E. Troxell, B.S., *Professor of Civil Engineering.*

ENROLLMENT LIMITATIONS IN ENGINEERING COURSES

Eligibility for enrollment in an engineering course is based on a separate request sent to the College of Engineering, Room 218 Engineering Building, at the time application is made to the Office of the Summer Sessions. Enrollment will be in the order of the request sent to the College office up to the last day of application as stated in this bulletin (May 23, first session; July 10, second session). Applicants will be assigned to sections by the College in accordance with section limits.

Regularly enrolled students in engineering must have taken the appropriate lower or upper division examination for the courses elected, *and must have their study lists approved in the College office.*

Admission to Engineering Summer Sessions courses for *students not enrolled in the College of Engineering* is contingent upon approval of the College of Engineering, Room 218 Engineering Building.

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)***Engineering****S1A. Plane Surveying.**

Principles; field practice; calculations and mapping. Prerequisite: trigonometry. 3 units.

Lectures, M Tu W Th F, 9.

Field, M W, 1-4.

Mr. Scordelis

S22. Engineering Graphics.

Mr. Edmison

Freehand pictorials; theory of orthogonal projection; single and multiple auxiliaries; dimensioning; freehand and mechanical working drawings; graphic computations; plotting experimental data and determination of elementary empirical equations. Prerequisite: Engineering 23 or 23D. 2 units.

Lectures and laboratory, M Tu W Th F, 10-1.

S23. Descriptive Geometry.

Mr. Bryant, Mr. Harris

The fundamental principles of descriptive geometry and their application to the solution of three-dimensional problems arising in the various branches of engineering. Prerequisite: Mathematics 3A (may be taken concurrently); plane geometry, trigonometry, and mechanical drawing. 2 units.

Lectures, M W, 1-2:30.

Laboratory, M W, 2:40-5:30; and Tu Th, 1-4.

S35. Statics.

Mr. Atkinson, Mr. Howe, Mr. Buckley

Force systems and equilibrium conditions with emphasis on engineering problems covering structures, machines, distributed forces, and friction. Includes graphical and algebraic solutions and an introduction to the method of virtual work. Prerequisite: Physics 4A, Mathematics 4A and 4B (Mathematics 4B may be taken concurrently). Engineering 23 or 23D strongly recommended. 3 units.

M Tu W Th F, sections 1, 2, and 3, 9:40-11.

S113. Introduction to the Professional Aspects of Engineering.

Mr. Cornet

Development of an understanding of the professional responsibilities of the engineer; practice in the elements of effective speaking and in the preparation of acceptable engineering reports; study of selected topics of value to the engineer beginning his career. Prerequisite: senior standing in engineering. Open primarily to those who are to graduate in summer. 2 units.

M Tu W Th F, 10.

S120. Principles of Engineering Investment and Economy. Mr. DeGarmo

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: Mechanical Engineering 105A, or Physics 112, or Chemistry 110B; Electrical Engineering 100A, 101, or 110A, or Physics 110A; Civil Engineering 108A. Open primarily to those who are to graduate in summer. 3 units.

M Tu W Th, 8-10.

Civil Engineering**S108A. Strength of Materials.**

Mr. Polivka, ———

Elastic and ultimate resistance of materials; stress analysis for bars, beams, columns, and shafts; deflections and combined stresses; elements of design for wood and steel structures. Prerequisite: Engineering 35. 3 units.

Lectures, M Tu W Th F, Sections 1 and 2, 8-9:30.

S108F. Materials Testing Laboratory.

Mr. Polivka, Mr. Scordelis

For students in agricultural, electrical, industrial, mining, geological, and petroleum engineering, and architecture. Principles and methods of testing engineering materials. Physical tests of concrete, steel, and wood. Prerequisite: for engineering students, Civil Engineering 108A (may be taken concurrently); for architecture students, Engineering 18B. 1 unit.

Tu Th, 1-4.

Electrical Engineering

S101. Electrical Engineering.

Open to engineering students not registered in agricultural, electrical, industrial, or mechanical engineering. Electric power generation, transmission, distribution, and utilization. Prerequisite: Mathematics 4A, Physics 4B. 3 units.

M Tu W Th F, 10-11:30

Engineering Design

S102B. Dynamics.

Mr. F. R. Berry, Mr. Hirsch

Kinematics and kinetics of a particle and of rigid bodies as applied to engineering problems. Force, energy, and momentum methods of solution. Introduction to mechanical vibrations. Prerequisite: Mathematics 4A-4B; Physics 4A; Engineering 35. 3 units.

M Tu W Th F, sections 1 and 2, 10-11:30.

S106. Machine Design.

Mr. Soroka

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. Prerequisite: Engineering 24, Engineering Design 102B and Civil Engineering 108A. 4 units.

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

Mechanical Engineering

S105A. Thermodynamics.

Mr. Farbar

Energy transformations, reversibility, availability; thermal properties of gases and vapors. Theoretical cycles and practical engine forms, mechanisms, and performance. Prerequisite: Chemistry 1B or 8, Physics 4C, Mathematics 4B, and Engineering Design 102B (may be taken concurrently). 3 units.

M Tu W Th F, 8-9:30.

S129A. Statics of Naval Architecture.

Fundamentals of the geometry of the ship's form, including its presentation in the lines drawings; buoyancy and stability in both intact and damaged conditions; subdivision, freeboard, measurement rules and requirements; grounding and launching; strength and stiffness, including both general concepts of loading systems and determination of scantlings. Prerequisite: Mechanical Engineering 103, Civil Engineering 108A, Engineering Design 102B. 3 units.

M Tu W Th F, 8-12.

S129B. Dynamics of Naval Architecture.

Fundamentals of motions in a seaway: resistance and means of estimating it, including model testing; propulsion, including propeller design and interactions between ship and propeller; steering and rudder design. Prerequisite: Mechanical Engineering 129A (may be taken concurrently) and 103. 3 units.

M Tu W Th F, 1-5.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

Engineering

S22. Engineering Graphics.

Mr. Davis

Freehand pictorials; theory of orthogonal projection; single and multiple auxiliaries; dimensioning; freehand and mechanical working drawings;

graphic computations; plotting experimental data and determination of elementary empirical equations. Prerequisite: Engineering 23 or 23D. 2 units.
Lectures and laboratory, M Tu W Th F, 10-1.

S24. Advanced Engineering Drawing.

Mr. Schon

Cams and gears; working drawings of machine parts; freehand sketching; structural detailing; piping layouts; and introduction to graphic integration and differentiation. Prerequisite: Engineering 22, 23, or 23D. 2 units.

Lectures, M W, 1-2:30.

Laboratory, M W, 2:40-5:30 and Tu Th, 1-4.

S35. Statics.

Mr. Cunningham, ———

Force systems and equilibrium conditions with emphasis on engineering problems covering structures, machines, distributed forces, and friction. Includes graphical and algebraic solutions and an introduction to the method of virtual work. Prerequisite: Physics 4A, Mathematics 4A and 4B (Mathematics 4B may be taken concurrently). Engineering 23, or 23D strongly recommended. 3 units.

M Tu W Th F, sections 1 and 2, 9:40-11.

Civil Engineering**S107A. Framed Structures.**

Mr. Pirtz

Computation of stresses in roofs, building frames, and simple bridge trusses, by algebraic and graphical methods. Prerequisite: Civil Engineering 108A. 3 units.

M Tu W Th F, 8-9:30.

S108A. Strength of Materials.

Mr. Buckley

Elastic and ultimate resistance of materials; stress analysis for bars, beams, columns, and shafts; deflections and combined stresses; elements of design for wood and steel structures. Prerequisite: Engineering 35. 3 units.

Lectures, M Tu W Th F, 8-9:30.

S135. Reinforced Concrete.

Mr. Troxell

Elementary analysis and design of reinforced concrete beams, slabs, columns, and footings. Prerequisite: Civil Engineering 108A. 2 units.

M Tu W Th F, 10.

Engineering Design**S102B. Dynamics.**

Mr. Rouverol

Kinematics and kinetics of a particle and of rigid bodies as applied to engineering problems. Force, energy, and momentum methods of solution. Introduction to mechanical vibrations. Prerequisite: Mathematics 4A-4B, Physics 4A, Engineering 35. 3 units.

M Tu W Th F, 9:40-11.

Mechanical Engineering**S103. Elementary Fluid Mechanics.**

The principles of mechanics applied to the statics and to the flow of incompressible and compressible fluids. Prerequisite: Engineering Design 102B (may be taken concurrently). 3 units.

M Tu W Th F, 8-9:30.

S105B. Thermodynamics.

Mr. Grossman

Heat transmission and equipments, fuels, combustion, and analyses of products of combustion. Heat-power engines using nozzles. Reheating and

regenerative cycles and equipment. Plant performance. Prerequisite: Mechanical Engineering 105A. 3 units.

M Tu W Th F, 9:40-11.

298S. Principles of Ship Design.

Principles and procedures involved in the preparation of the preliminary design of ships, including selection of characteristics and principal dimensions, weight estimates, and general arrangements. Prerequisite: B.S. degree in Civil Engineering, Structural Engineering, or Architectural Engineering from an accredited college. 3 units.

M Tu W Th F, 8-12.

298T. Theory of Ship Structure Design.

A study of the more advanced elastic theories which underlie the conventional handbook formulations upon which most ship design is based. Particular attention will be paid to those modern developments of strength theory which may have a bearing on some of the less-understood phenomena observed in practice, for example, the recurrent fracture of shell and deck structure, etc. Prerequisite: B.S. degree in Civil Engineering, Structural Engineering, or Architectural Engineering from an accredited college. 3 units.

M Tu W Th F, 1-5.

ENGLISH

(Department Office, 2125 Dwinelle Hall)

Travis M. Bogard, Ph.D., *Associate Professor of English.*

James R. Caldwell, Ph.D., *Professor of English.*

Everett Carter, Ph.D., *Assistant Professor of English.*

Albert S. Cook, Jr., M.A., *Assistant Professor of English.*

John H. Edwards, Ph.D., *Assistant Professor of English.*

Sears R. Jayne, Ph.D., *Assistant Professor of English.*

John E. Jordan, Ph.D., *Associate Professor of English.*

James J. Lynch, Ph.D., *Associate Professor of English.*

Robert L. McNulty, Ph.D., *Instructor in English.*

Charles Muscatine, Ph.D., *Associate Professor of English.*

Thomas F. Parkinson, Ph.D., *Associate Professor of English.*

John H. Raleigh, Ph.D., *Associate Professor of English.*

David W. Reed, Ph.D., *Associate Professor of English.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1A. First-Year Reading and Composition.

Mr. Parkinson, Mr. Raleigh, Mr. Jayne

Training in writing and reading. Prerequisite: Subject A. (examination or course). 2 units.

M Tu W Th F, section 1, 9; section 2, 10; section 3, 11.

S1B. First-Year Reading and Composition.

Mr. Cook, Mr. Bogard, Mr. Carter, Mr. Jayne

An introduction to the study of literature, with further training in writing. Prerequisite: English 1A. 2 units.

M Tu W Th F, section 1, 9; section 2, 10; section 3, 11; section 4, 1.

S106L. Advanced Composition.

Mr. Lynch

Primarily for candidates for the Certificate of Completion of the teacher-training curriculum whose teaching major is English. 2 units.

M Tu W Th F, 1.

- S110. The English Language.** Mr. Reed
Required of candidates for the teacher's certificate in English. 2 units.
M Tu W Th F, 10.
- S114B. The English Drama: from 1642 to the present.** Mr. Bogard
2 units.
M Tu W Th F, 11.
- S125D. The English Novel.** Mr. Raleigh
From Dickens to Conrad (1840-1900). English 125C is not prerequisite to
125D. 2 units.
M Tu W Th F, 9.
- S130B. American Literature: 1840-1885.** Mr. Carter
2 units.
M Tu W Th F, 10.
- S151J. Donne and Milton.** Mr. Cook
2 units.
M Tu W Th F, 11.
- S152. Chaucer.** Mr. Reed
2 units.
M Tu W Th F, 11.
- S161. Recent British and American Poetry.** Mr. Parkinson
2 units.
M Tu W Th F, 10.
- S199. Special Study for Advanced Undergraduates.**
1-3 units. The Staff (Mr. Caldwell in charge)
Hours to be arranged.
- S251A. Romantic Poets.** Mr. Caldwell
2 units.
M W, 1-3.
- S298. Special Study for Advanced Graduate Students.**
The Staff (Mr. Caldwell in charge)
This course is normally reserved for students directly engaged upon the
doctoral dissertation. 1-4 units.
Hours to be arranged.
- S300. Problems in Teaching English Literature and Composition in
Secondary Schools.** Mr. Lynch
This course, designed for seniors and graduate students undertaking an
English teaching major or minor, should be completed before practice teach-
ing. The course is accepted in partial satisfaction of the 22-unit require-
ment in education for the secondary credential. 2 units.
M Tu W Th F, 2.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

- S1A. First-Year Reading and Composition.** Mr. Edwards
Training in writing and reading. Prerequisite: Subject A (examination or
course). 2 units.
M Tu W Th F, 9.
- S1B. First-Year Reading and Composition.** Mr. McNulty
An introduction to the study of literature, with further training in writing.
Prerequisite: English 1A. 2 units.
M Tu W Th F, 11.

- S106H. Expository and Critical Writing.** Mr. Muscatine
2 units.
M Th, 1-3.
- S117A. Shakespeare.** Mr. McNulty
2 units.
M Tu W Th F, 9.
- S121. The Romantic Period.** Mr. Jordan
2 units.
M Tu W Th F, 10.
- S130C. American Literature: 1885 to the Present.** Mr. Edwards
2 units.
M Tu W Th F, 11.
- S199. Special Study for Advanced Undergraduates.**
1-3 units. The Staff (Mr. Jordan in charge)
Hours to be arranged.
- S201. Reading Course.** The Staff (Mr. Jordan in charge)
Introduction to research methods; reading and reports. 2 units.
Hours to be arranged.
- S210. Chaucer.** Mr. Muscatine
Some knowledge of Chaucer and his language is presupposed. 2 units.
Tu F, 1-3.
- S298. Special Study for Advanced Graduate Students.**
The Staff (Mr. Jordan in charge)
This course is normally reserved for students directly engaged upon the
doctoral dissertation. 1-4 units.
Hours to be arranged.

FAMILY LIFE, HEALTH, AND SOCIAL RELATIONS

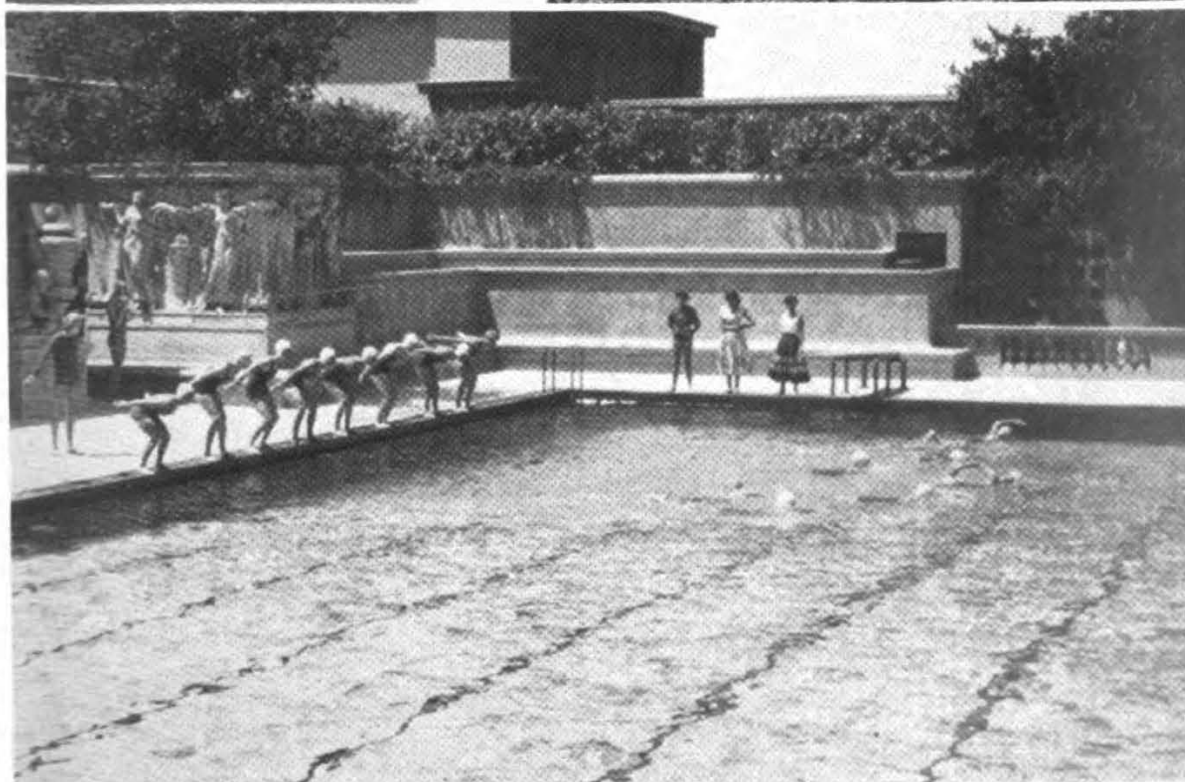
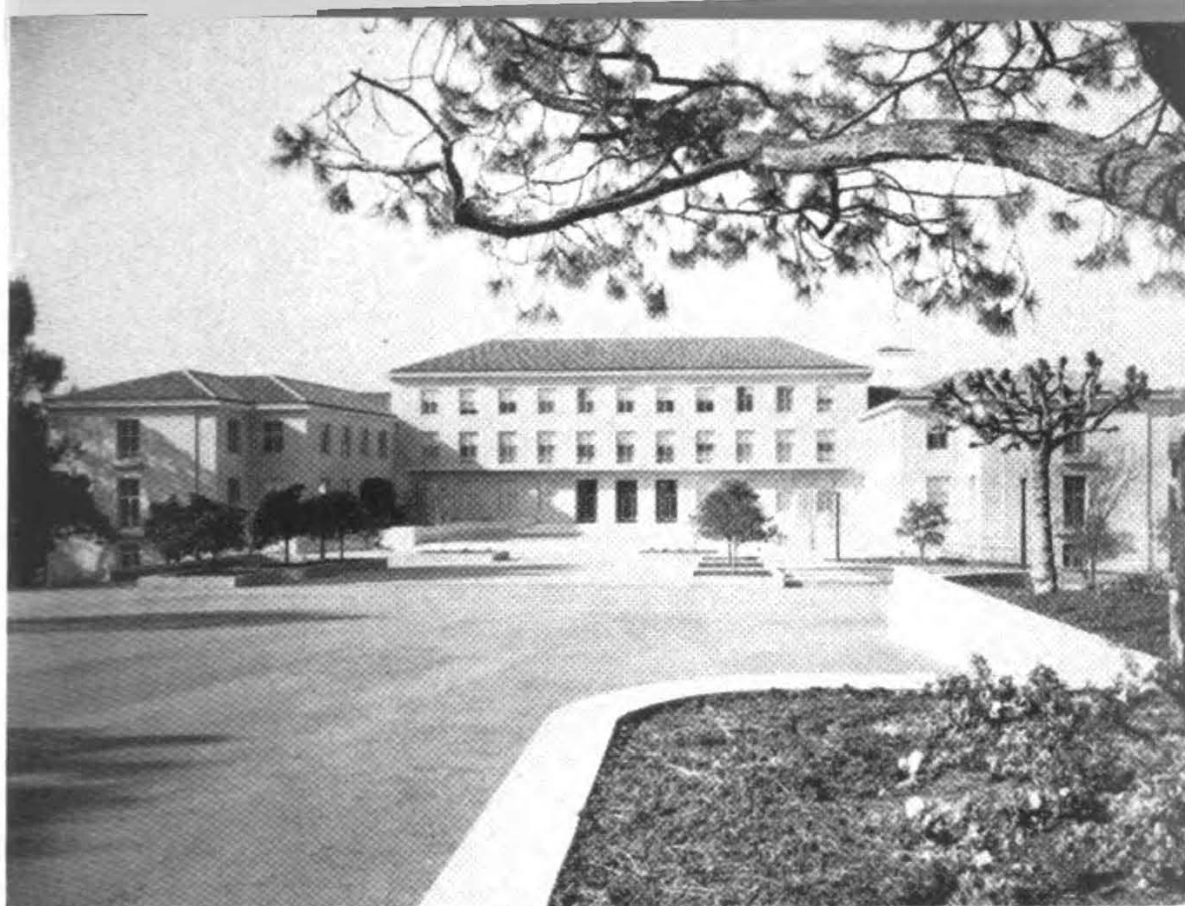
Instruction in family life, health, and social relations in the Summer Sessions is available through the coordination of a number of departments, although it is not organized as a single administrative unit.

Attention is invited to the following courses which will be offered during the Summer Sessions:

FIRST SUMMER SESSION COURSES

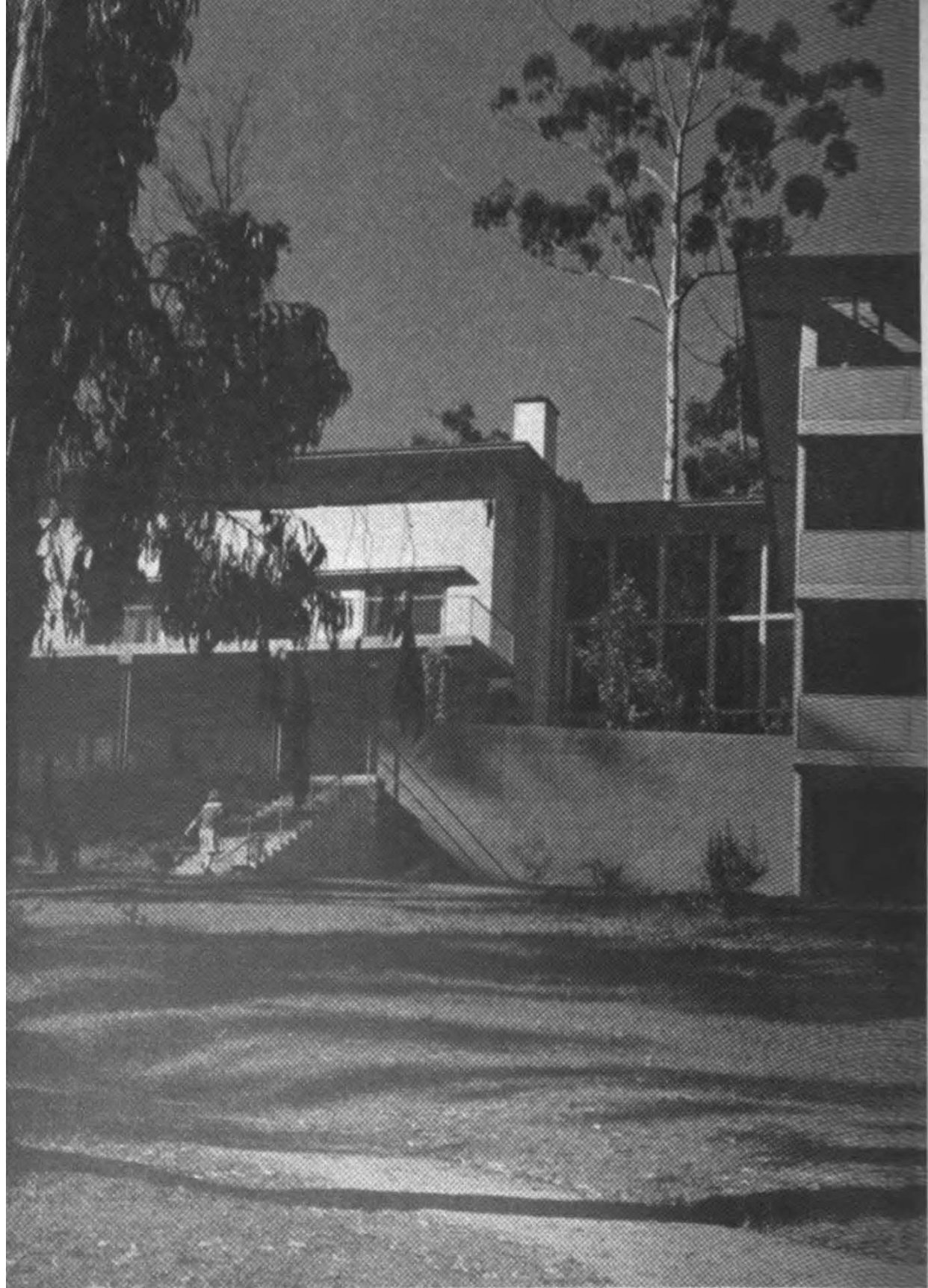
(June 18 to July 28, 1956)

- Growth and Development of Children (Education S111, Mr. Schrupp).
The Exceptional Child (Education S116, Mr. Sundwall).
Mental Hygiene—Elementary (Education S153, Mr. Stephens).
Marriage and Family Relationships (Home Economics S137, Mr. Christensen).
Clothing Study (Home Economics S170, Miss McClelland).
Methods and Materials in Family Life Education (Home Economics 383, Mr. Christensen).
Child Psychology (Psychology S111, Mr. McKee).
Personality in Society and Culture (Psychology S141, Mr. Sarbin).
Human Relations in Industry (Psychology S187, Mr. Rodgers).
Theory of Social Process (Sociology and Social Institutions S100A, Mr. Bock).
The City (Sociology and Social Institutions S160, Mr. Sjoberg).



Above—Dwinelle Hall

Below—Swimming pool in Hearst Gymnasium for Women



Stern Hall, Dormitory for Women

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

Social Psychology (Psychology S145, Mr. Tryon).

Theories of Social Change (Sociology and Social Institutions S101A, Mr. Grana).

Society and the Intellectuals: Conservatives and Radicals (Sociology and Social Institutions 158, Mr. Grana).

FORESTRY

(Department Office, 243 Walter Mulford Hall)

Henry J. Vaux, Ph.D., *Professor of Forestry and Chairman of the Department.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Vaux in charge)

Senior honor students with adequate background in the subject proposed may prosecute original research under direction of the staff. 1-5 units.

Hours to be arranged.

S202A. Research in Forestry.

The Staff (Mr. Vaux in charge)

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Vaux in charge)

Senior honor students with adequate background in the subject proposed may prosecute original research under direction of the staff. 1-5 units.

Hours to be arranged.

S202B. Research in Forestry.

The Staff (Mr. Vaux in charge)

Forestry 202A is not prerequisite. 1-4 units.

Hours to be arranged.

FRENCH

(Department Office, 4125 Dwinelle Hall)

Anthony Augustus, A.B., *Assistant in French in the Summer Sessions.*

Francis J. Carmody, Ph.D., *Professor of French.*

Alma Collins, M.A., *Assistant in French in the Summer Sessions.*

Peter Collins, M.A., *Assistant in French in the Summer Sessions.*

Mildred Cowell, M.A., *Assistant in French in the Summer Sessions.*

Aina Grinbergs, M.A., *Assistant in French in the Summer Sessions.*

Jean E. Guèdenet, Licencié-ès Lettres, *Associate in French.*

Eugene Kessler, A.B., *Assistant in French in the Summer Sessions.*

Arthur Kimmel, M.A., *Assistant in French in the Summer Sessions.*

Harold Knutson, M.A., *Assistant in French in the Summer Sessions.*

Claude Meade, M.A., *Assistant in French in the Summer Sessions.*

Edward F. Meylan, Ph.D., *Associate Professor of French.*

Michel Mohrt, *Visiting Lecturer in French Literature.*

Catherine D. Rau, Ph.D., *Professor of French, Dominican College.*
 Charles Shapley, M.A., *Assistant in French in the Summer Sessions.*
 Henry Silver, M.A., *Assistant in French in the Summer Sessions.*
 Sallie C. Verrette, A.B., *Assistant in French in the Summer Sessions.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Elementary French, Beginners' Course.

Mr. Augustus, Mr. Kessler, Miss Cowell
 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. Collins, Mr. Silver
 Prerequisite: French 1, or two years of high school French. 4 units.
 M Tu W Th F, sections 1 and 2, 8-10.

S3. Intermediate French

Mr. Meade, Mr. Shapley
 Prerequisite: French 2 or 12, or three years of high school French. 4 units.
 M Tu W Th F, sections 1 and 2, 10-12

S39A. French Literature in English Translation.

Mrs. Rau
 Lectures (in English) and collateral reading of representative works, in English translation, to the end of the eighteenth century. 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, 9.

S101A. Intensive Reading, Grammar, and Composition.

Mr. Meylan
 2 units.
 M Tu W Th F, 10.

S109A. A Survey of French Literature.

Mr. Meylan
 From the middle ages through the seventeenth century. 2 units.
 M Tu W Th F, 9.

S160. Contemporary French Literature.

Mr. Mohrt
 2 units.
 M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

1-3 units. The Staff (Mr. Meylan in charge)
 Hours to be arranged.

S215B. Seminar in Contemporary French Literature.

Mr. Mohrt
 Malraux, le romancier. 2 units.
 M W, 2-4.

S298. Special Study for Graduate Students.

The Staff (Mr. Meylan in charge)
 Prerequisite: graduate standing and approval of the instructor. 1-3 units.
 Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S1. Elementary French. Beginners' Course.

Mrs. Verrette, Mr. Kimmel
 Essentials of grammar, reading, pronunciation, and conversation. 4 units.
 M Tu W Th F, sections 1 and 2, 8-10.

- S2. Elementary French (continuation of 1).** Miss Grinbergs, Mr. Knutson
Prerequisite: French 1, or two years of high school French. 4 units.
M Tu W Th F, sections 1 and 2, 8-10.
- S3. Intermediate French.** Miss Collins
Prerequisite: French 2 or 12, or three years of high school French. 4 units.
M Tu W Th F, 8-10.
- S39B. French Literature in English Translation.** Mr. Carmody
Lectures (in English) and collateral reading of representative works of the nineteenth century 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, 10.
- S101B. Intensive Reading, Grammar, and Composition.** Mr. Guèdenet
2 units.
M Tu W Th F, 10.
- S109B. A Survey of French Literature.** Mr. Guèdenet
The eighteenth and nineteenth centuries. 2 units.
M Tu W Th F, 9.
- 119. Aspects of Romanticism.** Mr. Carmody
Particular attention will be given to Romantic prose writing. Prerequisite: French 101A-101B and 109A-109B, or consent of the instructor. 2 units.
M Tu W Th F, 11.
- S199. Special Study for Advanced Undergraduates.**
1-3 units. The Staff (Mr. Carmody in charge)
Hours to be arranged.
- S298. Special Study for Graduate Students.**
The Staff (Mr. Carmody in charge)
Prerequisite: graduate standing and approval of the instructor. 1-3 units.
Hours to be arranged.

GEOGRAPHY

(Department Office, 230 Giannini Hall)

- Donald W. Meinig, Ph.D., *Assistant Professor of Geography, University of Utah.*
- Clyde P. Patton, Ph.D., *Assistant Professor of Geography, Syracuse University.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

- S1. Introduction to Geography: Physical Elements.** Mr. Patton
2 units.
M Tu W Th F, 9.
- S121A. Geography of Eastern North America.** Mr. Patton
2 units.
M Tu W Th F, 11.
- S199. Special Study for Advanced Undergraduates.**
2 units. The Staff (Mr. Patton in charge)
Hours to be arranged.
- S219A. Research.** The Staff (Mr. Patton in charge)
1-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S2. Introduction to Geography: Natural and Cultural Regions.** Mr. Meinig
2 units.
M Tu W Th F, 10.
- S121B. Geography of Western North America.** Mr. Meinig
2 units.
M Tu W Th F, 8.
- S199. Special Study for Advanced Undergraduates.**
2 units. The Staff (Mr. Meinig in charge)
Hours to be arranged.
- S219B. Research.** The Staff (Mr. Meinig in charge)
1-4 units.
Hours to be arranged.

GEOLOGY*(Department Office, 203A Bacon Hall)*

Baylor Brooks, A.B., *Assistant Professor of Geology and Chairman of the Department, San Diego State College.*
Garniss H. Curtis, Ph.D., *Assistant Professor of Geology.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S1. General Geology: Dynamical and Structural.** Mr. Curtis
A survey of the nature and structure of the materials composing the earth, and of the processes that shape the earth's surface. Prerequisite: high school chemistry or its equivalent. Not open to students who have taken Geology 10.
3 units.
M Tu W Th, 1-3.
- 6. Introduction to Geology.*** Mr. Curtis
A brief survey of physical and historical geology, with emphasis on the structure of the earth, the origin of past and present landscapes, and the evolution of life as told in the fossil record. Designed for those wishing a general introduction to the science for cultural purposes. 1 unit.
M Tu W, 10.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S1. General Geology: Dynamical and Structural.** Mr. Brooks
A survey of the nature and structure of the materials composing the earth, and of the processes that shape the earth's surface. Prerequisite: high school chemistry or its equivalent. Not open to students who have taken Geology 10.
3 units.
M Tu W Th, 1-3.
- 6. Introduction to Geology.*** Mr. Brooks
A brief survey of physical and historical geology, with emphasis on the structure of the earth, the origin of past and present landscapes, and the evolution of life as told in the fossil record. Designed for those wishing a general introduction to the science for cultural purposes. 1 unit.
M Tu W, 10.

* Not open to students taking Geology S1, 1, or 5.

GERMAN

(Department Office, 2323 Dwinelle Hall)

Harold C. Barraclough, A.B., *Assistant in German in the Summer Sessions.*
 Franz H. Bäuml, M.A., *Assistant in German in the Summer Sessions.*
 Carole A. Chasin, M.A., *Assistant in German in the Summer Sessions.*
 Donald G. Daviau, Ph.D., *Instructor in German (Riverside)*
 Bruce C. Gifford, A.B., *Assistant in German in the Summer Sessions.*
 Gunter Hertling, A.B., *Assistant in German in the Summer Sessions.*
 Edith J. Lewy, M.A., *Associate in German.*
 Joseph Mileck, Ph.D., *Assistant Professor of German.*
 Raul Pimentel, A.B., *Assistant in German in the Summer Sessions.*
 Eugene E. Reed, Ph.D., *Assistant Professor of German.*
 Blake L. Spahr, Ph.D., *Assistant Professor of German.*
 John H. Sullivan, M.A., *Assistant in German in the Summer Sessions.*
 Muriel G. Trimble, A.B., *Assistant in German in the Summer Sessions.*
 Ernest S. Trumpler, Ph.D., *Instructor in German.*
 Frederic C. Tubach, M.A., *Assistant in German in the Summer Sessions.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Elementary German. Beginners' Course.

4 units. Mr. Bäuml, Miss Trimble, Mr. Gifford
 M Tu W Th F, section 1, 8-10; sections 2 and 3, 10-12.

S2. Elementary German (continuation of 1).

Mr. Barraclough, Mr. Hertling
 Prerequisite: German 1, or two years of high school German. 4 units.
 M Tu W Th F, section 1, 8-10; section 2, 10-12.

S3. Intermediate German.

Mr. Trumpler, Mr. Spahr
 Prerequisite: German 2, or 3 years of high school German. 4 units.
 M Tu W Th F, section 1, 8-10; section 2, 10-12.

S39B. Great Writers in German Literature: Eighteenth Century.

Mr. Mileck
 This course is open to students in all departments of the University, major students in German excepted. No knowledge of German is required. 2 units.
 M Tu W Th F, 9.

169. The German Novelle.

Mr. Mileck
 Lectures, reading, and reports. Prerequisite: upper division standing in German. 2 units.
 M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

1-3 units. The Staff (Mr. Mileck in charge)
 Hours to be arranged.

S298. Special Study for Graduate Students.

1-4 units. The Staff (Mr. Mileck in charge).
 Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

S1. Elementary German. Beginners' Course. Mr. Tubach, Mr. Sullivan
4 units.

M Tu W Th F, section 1, 8-10; section 2, 10-12.

S2. Elementary German (continuation of 1). Miss Chasin, Mr. Pimentel
Prerequisite: German 1, or 2 years of high school German. 4 units.

M Tu W Th F, section 1, 8-10; section 2, 10-12.

S3. Intermediate German. Miss Lewy

Prerequisite: German 2, or three years of high school German. 4 units.

M Tu W Th F, 9-11.

S4. Intermediate German. Mr. Daviau

Prerequisite: German 3, or four years of high school German. 4 units.

M Tu W Th F, 9-11.

S39C. Great Writers in German Literature: Nineteenth Century.

Mr. Reed

This course is open to students in all departments of the University, major students in German excepted. No knowledge of German required. 2 units.

M Tu W Th F, 9.

168. Heinrich Heine's Prose and Poetry. Mr. Reed

A study of the chief lyrics, travel books, and essays of Heine in relation to the literary and political currents of the times. Lectures, reading, and reports. Prerequisite: upper division standing in German. 2 units.

S199. Special Study for Advanced Undergraduates.

1-3 units.

The Staff (Mr. Reed in charge)

Hours to be arranged.

S298. Special Study for Graduate Students.

1-4 units.

The Staff (Mr. Reed in charge)

Hours to be arranged.

HISTORY

(Department Office, 3303 Dwinelle Hall)

Werner T. Angress, Ph.D., *Instructor in History.*

Walton E. Bean, Ph.D., *Associate Professor of History.*

Robert J. Brentano, D.Phil. (Oxon.), *Assistant Professor of History.*

Gene A. Brucker, Ph.D., *Instructor in History.*

John Hope Franklin, Ph.D., *Professor of History, Howard University.*

Charles Jelavich, Ph.D., *Assistant Professor of History.*

James F. King, Ph.D., *Professor of History and Chairman of the Department.*

James B. Parsons, Ph.D., *Assistant Professor of Far Eastern History and Culture (Riverside).*

Armin Rappaport, Ph.D., *Assistant Professor of History.*

Nicholas V. Riasanovsky, D.Phil., *Associate Professor of History, State University of Iowa.*

Engel Sluiter, Ph.D., *Professor of History and Acting Chairman of the Department, Second Summer Session.*

John W. Snyder, Ph.D., *Instructor in History.*

Kenneth M. Stamp, Ph.D., *Professor of History.*

John Albert White, Ph.D., *Associate Professor of History, University of Hawaii.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

- S4B. History of Western Europe.** Mr. Angress
Survey, since the seventeenth century. 2 units.
M Tu W Th F, 8.
- *S17B. History of the United States.** Mr. Stamp
Survey, since the Civil War. Prerequisite: sophomore standing. A student may not receive credit for both History 17A-17B and History 171A-171B. 2 units.
M Tu W Th F, 10.
- S101. Introduction to Historical Method and Bibliography.** Mr. Brentano
2 units.
M Tu W Th F, 1.
- S111A. Ancient History: Greek History to the Roman Conquest.** Mr. Snyder
2 units.
M Tu W Th F, 9.
- S111B. Ancient History: Roman History to the Fourth Century, A.D.** Mr. Snyder
2 units.
M Tu W Th F, 11.
- S143B. History of Germany: Nineteenth and Twentieth Centuries.** Mr. Angress
2 units.
M Tu W Th F, 11.
- S150A. Medieval England.** Mr. Brentano
Formerly numbered 150.
Survey to 1485. 2 units.
M Tu W Th F, 10.
- S161B. Hispanic-American History.** Mr. King
Since Independence. 2 units.
M Tu W Th F, 10.
- *S173C. The Era of Sectional Conflict.** Mr. Franklin
Reconstruction and the New Nation, 1865-1900. 2 units.
M Tu W Th F, 9.
- *S177B. History of the United States.** Mr. Franklin
The Jacksonian Era. 2 units.
M Tu W Th F, 11.
- 191D. History and Civilization of the Far East.** Mr. Parsons
A study of the major cultural and political developments in China, Japan, and India prior to the twentieth century. 2 units.
M Tu W Th F, 9.

* The American History requirement for the bachelor's degree may be satisfied by completing one of the following courses offered in the First Summer Session: S17B, S173C, S177B.

- S199. Special Study for Advanced Students.** The Staff
Open to seniors and graduate students only. Prerequisite: for students whose major is history, at least a grade B average in all history courses undertaken; for others, at least a grade B average in all courses undertaken. 1-4 units.
Hours to be arranged.
- S201. Advanced Study in the Sources and General Literature of the Several Fields of History.** Mr. King
Latin-American History. 2 units.
Hours to be arranged.
- S273A. Seminar in the History of the Old South, the Civil War, and Reconstruction.** Mr. Stamp
2 units.
Hours to be arranged.
- 291D. Seminar in the History and Civilization of the Far East.** Mr. Parsons
Studies in Chinese, Japanese, and Indian cultural and political topics prior to the twentieth century.
2 units.
Hours to be arranged.
- S298. Directed Research.** The Staff
2-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

- S4A. History of Western Europe.** Mr. Jelavich
Survey, to the seventeenth century. 2 units.
M Tu W Th F, 9.
- *S17A. History of the United States.** Mr. Rappaport
Survey, to the Civil War. Prerequisite: sophomore standing. A student may not receive credit for both History 17A-17B and History 171A-171B. 2 units.
M Tu W Th F, 9.
- *S17B. History of the United States.** Mr. Rappaport
Survey, since the Civil War. Prerequisite: sophomore standing. 2 units.
M Tu W Th F, 11.
- S101. Introduction to Historical Method and Bibliography.** Mr. Jelavich
2 units.
M Tu W Th F, 10.
- S131A. The Renaissance and Reformation.** Mr. Brucker
The Renaissance. 2 units.
M Tu W Th F, 8.
- S131B. The Renaissance and Reformation.** Mr. Brucker
The Reformation. 2 units.
M Tu W Th F, 10.

* The American History requirement for the bachelor's degree may be satisfied by completing one of the following courses offered in the Second Summer Session: S17A, S17B, S174B.

- 133. Russia in Asia since 1895.** Mr. White
Developments in the Caucasus, Central Asia and Siberia; Russian relations with Turkey, Iran, China, and Japan.
2 units.
M Tu W Th F, 1.
- S135A. History of Russia and Poland to the Crimean War.** Mr. Riasanovsky
2 units.
M Tu W Th F, 9.
- S135B. History of Russia and Poland to the Crimean War.** Mr. Riasanovsky
2 units.
M Tu W Th F, 11.
- S161A. Hispanic-American History: the Colonies.** Mr. Sluiter
2 units.
M Tu W Th F, 1.
- *S174B. Recent History of the United States: 1928 to the present.** Mr. Bean
2 units.
M Tu W Th F, 11.
- 191E. History of Southeast Asia.** Mr. White
A general survey of the history of Burma, Thailand, the Indo-Chinese states, Malaya, Indonesia, and the Philippines; relations with European and Asian nations and with the United States.
2 units.
M Tu W Th F, 10.
- S199. Special Study for Advanced Students.** The Staff
Open to seniors and graduate students only. Prerequisite: for students whose major is history, at least a grade B average in all history courses undertaken; for others, at least a grade B average in all courses undertaken.
1-4 units.
- S201. Advanced Study in the Sources and General Literature of the Several Fields of History.** Mr. Sluiter
Latin-American History. 2 units.
Hours to be arranged.
- S277A. Seminar in the Early National Period of United States History.** Mr. Bean
2 units.
Hours to be arranged.
- S298. Directed Research.** The Staff
2-4 units.
Hours to be arranged.

HOME ECONOMICS

(Department Office, 117 Home Economics Building)

- Harold T. Christensen, Ph.D., *Professor of Sociology and Head of the Department, Purdue University.*
- Jessie V. Coles, Ph.D., *Professor of Home Economics and Chairman of the Department.*
- Bessie B. Cook, Ph.D., *Associate Professor of Home Economics.*
- Agnes C. McClelland, M.A., *Associate in Home Economics.*
- Barbara M. Kennedy (Barbara Kennedy Johnson), Ph.D., *Assistant Professor of Home Economics.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S137. Marriage and Family Relationships.** Mr. Christensen
A survey of the most recent information on courtship, mate selection, husband-wife adjustments, and parent-child relationships. 2 units.
M Tu W Th F, 9.
- 170. Clothing Study.** Miss McClelland
Recent developments and trends in wardrobe planning, dress design, and construction. 2 units.
M W F, 1-4, and Tu Th, 1.
- S199. Special Study for Advanced Undergraduates.**
1-5 units. The Staff (Miss Coles in charge)
Hours to be arranged.
- S218. Research in Food and Nutrition.**
2-4 units. The Staff (Miss Kennedy in charge)
Hours to be arranged.
- 383. Methods and Materials in Family Life Education.** Mr. Christensen
A consideration of teaching methods, content material for different ages and grades. Source material for students and teachers. A review of films and an evaluation of marriage education as offered in various states. 2 units.
M Tu W Th F, 10.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S199. Special Study for Advanced Undergraduates.**
1-5 units. The Staff (Miss Coles in charge)
Hours to be arranged.
- S218. Research in Food and Nutrition.** The Staff (Mrs. Cook in charge)
2-4 units.
Hours to be arranged.

ITALIAN

(Department Office, 4226 Dwinelle Hall)

- Bruno A. Arcudi, M.A., *Associate in Italian.*
Sebastian Cassarino, A.B., *Assistant in Italian in the Summer Sessions.*
Michele De Filippis, Ph.D., *Professor of Italian and Chairman of the Department.*
Bartolomeo Martello, A.B., *Assistant in Italian in the Summer Sessions.*
Aldo D. Scaglione, Dottore in Lettere, *Assistant Professor of Italian.*
Rose Thomasian, A.B., *Assistant in Italian in the Summer Sessions.*

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S1. Elementary Italian.** Mr. Cassarino, Miss Thomasian, Mr. Martello
Grammar, conversation, and easy reading. 4 units.
M Tu W Th F, section 1, 8-10; section 2, 9-11; section 3, 10-12.

S39A. Italian Literature in English Translation. Mr. Scaglione
A survey of the most important works in Italian literature (in English) from Dante to Tasso, with lectures in English and collateral reading of representative works in English translation. 2 units.

M Tu W Th F, 10.

S229. Special Study for Graduates. Mr. De Filippis in charge
1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S1. Elementary Italian.

Grammar, conversation, and easy reading. 4 units.

M Tu W Th F, 9-11.

S2. Elementary Italian (continuation of 1). Mr. Arcudi

Prerequisite: two years of high school Italian or Italian 1. 4 units.

M Tu W Th F, 10-12.

JOURNALISM

(Department Office, 5205 Dwinelle Hall)

Robert W. Desmond, Ph.D., *Professor of Journalism.*

Walter Gieber, M.A., *Visiting Assistant Professor of Journalism.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S140. History of Journalism. Mr. Gieber

Study of the development of Journalism, particularly in the United States, with an introduction to the important papers and personalities. 2 units.

M Tu W Th F, 1.

162. Communication Agencies and Public Opinion. Mr. Gieber

The major agencies of mass communication and their role in the opinion forming process. Theories of public opinion and propaganda; propaganda techniques of government, pressure groups, and other organized bodies. 2 units.

M Tu W Th F, 2

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S141. The Press and Society. Mr. Desmond

An examination of the press as an important institution in the nation and in the world. 2 units.

M Tu W Th F, 9.

S190B. The Press and World Affairs. Mr. Desmond

Comparative study of press systems, especially those in Europe with those in the Western Hemisphere. 2 units.

M Tu W Th F, 11.

LAW†

(Department Office, 225 Law Building)

William O. Huie, A.B., LL.B., S.J.D., *Professor of Law, The University of Texas School of Law.*

† For courses in law, the tuition fee is \$20 per unit.

Richard W. Jennings, A.B., M.A., LL.B., *Coffroth Professor of Law.*

Maurice Moonitz, C.P.A., Ph.D., *Professor of Accounting.*

Frank C. Newman, A.B., LL.B., LL.M., J.S.D., *Professor of Law.*

FIRST SUMMER SESSION COURSES*

(June 18 to July 28, 1956)

S226. Wills.

Mr. Huie

Interstate and testate succession, including the execution and revocation of wills, probate, and the administration of estates. 2 units.

M Tu W Th F, 9.

S228. Legal Accounting.

Mr. Moonitz

An introduction to accounting techniques and interpretation of financial statements, with special emphasis on selected basic accounting problems in the fields of partnerships, corporations, taxation, and trusts. Students who have had substantial previous training in accounting theory are not permitted to take this course. 2 units.

M Tu W Th F, 11.

S254. Federal Jurisdiction.

Mr. Jennings

Jurisdiction of the federal courts, including the scope of the judicial power of the United States, original jurisdiction of the district courts, removal of causes, the incidents of concurrent jurisdiction, and the appellate jurisdiction of the Circuit Courts of Appeal and the Supreme Court. 2 units.

M Tu W Th F, 10.

S266. Legislation.

Mr. Newman

Essential characteristics of the modern legislative process; problems and methods of legislative drafting. 2 units.

M Tu W Th F, 11.

LIBRARIANSHIP

(Department Office, 425 Library)

Leone F. Garvey, M.A., *Lecturer in Librarianship.*

LeRoy C. Merritt, Ph.D., *Professor of Librarianship and Vice-Chairman of the Department.*

Fredric John Mosher, Ph.D., *Associate Professor of Librarianship.*

Louis D. Sass, Ph.D., *Assistant Professor of Librarianship.*

Robert George Sumpter, B.L.S., M.A., *Librarian, Capuchino High School, San Bruno; Lecturer in Librarianship in the Summer Sessions.*

Edward A. Wight, Ph.D., *Professor of Librarianship.*

ADMISSION REQUIREMENTS

Applicants for admission should send transcripts of their academic records to the Dean of the School of Librarianship in order that their qualifications may be evaluated. Transcripts should also be sent to the Dean of the Graduate Division with a request for an application for admission to graduate standing in the University. Selection of students is based primarily on scholarship. No one should come to Berkeley without having previously made application to

* Summer Session courses in law are open to members of the bar and to students who have satisfactorily completed one year of law study.

the School and having received notice of acceptance. Early application is desirable. Application blanks may be obtained from the Dean and should be filed by graduates as soon as they have decided to apply for admission, and by undergraduates after they have completed the first semester of their senior year.

For applicants to the M.L.S. program:

Graduate standing, without deficiencies, in the University of California, as determined by the Dean of the Graduate Division, is required. Such standing is not automatically granted on college graduation. Complete details are given in the ANNOUNCEMENT OF THE GRADUATE DIVISION, NORTHERN SECTION.

A good scholarship record is a prerequisite, and a minimum average of 1.5 grade points per unit during the last two years of college or university work is required.

A college year—not less than 8 units—of each of two modern foreign languages is required. French and German are most important, but other modern languages may be accepted. Language requirements must be met before admission, either by regular college credits, by University extension courses, or by passing special tests given by the School of Librarianship.

Graduate Record Examination.—This is a test of intellectual equipment, with which California and other universities have had several years' experience. Applicants are required to take only the Aptitude Test and to have their scores sent to the School prior to the beginning of the semester in which they wish to enroll. The examination is conducted on four regularly scheduled dates each year in about 300 examination centers throughout the country. Applicants from the eleven western states should apply at the Pacific Coast Office of the Educational Testing Service, Pacific Coast Office, P.O. Box 27896, Los Angeles 27, California; applicants from other states should apply at the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey. A "Bulletin of Information," containing a full description and schedule of the examination, will be mailed to the student. Consult the Bulletin carefully for application deadlines and for the testing dates which, in 1956, are April 28 and July 7.

Ability to use the typewriter with accuracy and a fair degree of speed is expected of all students. Experience in library work is desirable but is not required for admission.

Applications for admission to the first-year curriculum from persons more than thirty-five years of age will be considered only when the applicants hold responsible library positions from which they can obtain leaves of absence. Exceptions to this rule may be considered only under unusual circumstances, such as the possession of a doctor's degree.

The first-year curriculum will begin with the fall semester or *Summer Session*. No new first-year students will be admitted at the opening of the spring semester.

DEGREE REQUIREMENTS

The Master of Library Science degree (M.L.S.) is conferred upon students who satisfactorily complete 24 units in Librarianship and 4 additional units of upper division and graduate courses in other departments of the University with an average grade of at least B (2.0 grade points). The additional units, which may be taken before entering the School of Librarianship or after the courses in Librarianship have been completed, must in all cases be approved by the Dean as being acceptable to the individual's complete program of instruction. Students who have a master's or a doctor's degree in another field before entering the School of Librarianship need complete only 24 units of work in Librarianship to qualify for the M.L.S. degree.

FIRST SUMMER SESSION COURSES*(June 18 to July 28, 1956)*

- S202. Bibliography and Reference Materials.** Mr. Mosher
Lectures, discussions, and reports on assigned problems. Basic reference materials, including national and subject bibliography. 4 units.
M Tu W Th F, 10-12.
- S206. School Library Administration.** Mr. Sumpter
A general survey of elementary and secondary school libraries. Emphasis on the function, administration, organization, services, materials, and the planning and equipment of school libraries in relation to the modern school. Lectures, committee and individual reports, readings, class discussions, and field trips. 2 units.
M Tu W Th F, 9.
- S209. Library Work with Children.** Miss Garvey
Lectures and discussion. A general survey of children's books and reading preferences. Historical backgrounds and development; types of children's literature; levels of interest; criticism and evaluation; illustration; trends; book selection; storytelling; organization and administration of a children's room in a public library. 2 units.
M Tu W Th F, 8.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

- S204. Special Problems in the Selection of Materials and Evaluation of Collections.** Mr. Merritt
Problems in selecting records, motion pictures, maps, and other library material in special format; special problems in selecting material in particular subject fields; methods of evaluating library collections and the effectiveness of the selection process. 2 units.
M Tu W Th F, 9.
- S205. Selection and Acquisition of Library Materials.** Mr. Merritt
Theories, principles, and practice of selecting books and other library materials. Techniques of acquisition by public, school, and academic libraries. 2 units.
M Tu W Th F, 8.
- S207. Municipal and County Library Administration.** Mr. Wight
Government, organization, and administration of municipal, county, and regional public libraries. Library service programs in relation to varying community patterns. Lectures, readings, reports. 2 units.
M Tu W Th F, 10.
- S212. Reference and Government Publications.** Mr. Sass
A continuation of Librarianship 202. Sources of information in subject fields. Emphasis is placed on types of information in foreign, national, state, and municipal documents. Problems in informational service. 4 units.
M Tu W Th F, 1-3.

MATHEMATICS

(Department Office, 5319 Dwinelle Hall)

Heini Halberstam, Ph.D., *Lecturer in Mathematics, University of Exeter, England.*Henry Helson, Ph.D., *Assistant Professor of Mathematics.*

Nathan Jacobson, Ph.D., *Professor of Mathematics, Yale University.*

Bjarni Jonsson, Ph.D., *Assistant Professor of Mathematics, Brown University.*

Ronald A. Macauley, Ph.D., *Instructor in Mathematics.*

David E. Schroer, A.B., *Acting Instructor in Mathematics.*

Abraham Seidenberg, Ph.D., *Associate Professor of Mathematics.*

Leonard Tornheim, Ph.D., *Lecturer in Mathematics.*

Robert O. Abernathy, M.A., *Assistant in Mathematics in the Summer Sessions.*

Lensey Chao, M.A., *Assistant in Mathematics in the Summer Sessions.*

Solomon Feferman, B.S., *Assistant in Mathematics in the Summer Sessions.*

Walter C. Frey, M.S., *Assistant in Mathematics in the Summer Sessions.*

William P. Hanf, A.B., *Assistant in Mathematics in the Summer Sessions.*

John W. Haynes, M.A., *Assistant in Mathematics in the Summer Sessions.*

Robert G. Heyneman, B.S., *Assistant in Mathematics in the Summer Sessions.*

Roger H. Homer, A.B., *Assistant in Mathematics in the Summer Sessions.*

Eva M. Kallin, A.B., *Assistant in Mathematics in the Summer Sessions.*

John G. Marica, M.A., *Assistant in Mathematics in the Summer Sessions.*

Gerald S. Silberman, M.A., *Assistant in Mathematics in the Summer Sessions.*

George Van Zwalenberg, M.A., *Assistant in Mathematics in the Summer Sessions.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

B. Plane Geometry.

Mr. Van Zwalenberg

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 4 units. No unit credit.

M Tu W Th F, 1:40-3.

SC. Plane Trigonometry.

Mr. Haynes

Prerequisite: plane geometry; one and one-half years of high school algebra, or Mathematics D (or SD). 2 units.

M Tu W Th F, 10.

SD. Intermediate Algebra.

Mr. Feferman, Mr. Heyneman

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.

Mr. Haynes

Prescribed in the School of Business Administration. Not open to students who have completed or are taking Engineering 120. Prerequisite: two years of high school algebra or Mathematics D (or SD). 2 units.

M Tu W Th F, 1.

S3A. Analytic Geometry and Calculus: First Course.

Mr. Jacobson, Mr. Marica

Includes curve plotting; introduction to differential calculus, elements of analytic geometry. Prerequisite: two years of high school algebra or Mathematics D (or SD) with grade C or better; plane geometry; plane trigonometry or Mathematics C (or SC). 3 units.

All students except those who have passed Mathematics D (with a grade of C or better), in the spring semester of 1956 in the regular session at Berkeley, must pass a qualifying examination for admission to this course.

This qualifying examination will be given at the first meeting of the class on Monday, June 18, at 11 a.m.

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

S3B. Analytic Geometry and Calculus: Second Course.

Mr. Jonsson, Mr. Homer

Continuation of course 3A. Includes limits, introduction to integral calculus, differentiation and integration of transcendental functions, applications to geometry and mechanics. Prerequisite: Mathematics 3A. 3 units.

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

S4A. Analytic Geometry and Calculus: Third Course.

Mr. Schroer, Mr. Silberman

Continuation of courses 3A and 3B. Includes further techniques of integration, further applications, infinite series, hyperbolic functions. Prerequisite: Mathematics 3B. 3 units.

M Tu W Th F, 7:40-9 a.m.

S4B. Analytic Geometry and Calculus: Fourth Course. Mr. Halberstam

Continuation of Mathematics 3A, 3B, 4A. Includes solid analytic geometry, partial differentiation, and multiple integration, with applications. Prerequisite: Mathematics 4A. 3 units.

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

S110A. Advanced Engineering Mathematics.

Mr. Tornheim

Primarily for students in engineering. Conjugate functions, hyperbolic functions, Fourier series. Prerequisite: Mathematics 4A, 4B. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Helson in charge)

Investigation of special problems under the direction of members of the department. In particular, this course offers an opportunity to students with facility for mathematics to anticipate some of the advanced courses by individual study. 1-5 units.

Hours to be arranged.

214. Structure of Rings.

Mr. Jacobson

The radical and semisimplicity. Primitive rings. Rings with minimum condition. Primitive rings with minimal ideals. Kronecker products. Completely reducible modules and Galois theory. The Brauer group. Cohomology of algebras and the Wedderburn-Malcev theorems. Algebras with a polynomial identity. 2 units.

M Tu W Th F, 9.

S290. Seminars.

The Staff (Mr. Tornheim in charge)

1-4 units.

Hours to be arranged.

S295. Individual Research Leading to Higher Degrees.

1-4 units.

The Staff (Mr. Tornheim in charge)

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

SC. Plane Trigonometry.

Mr. Hanf

Prerequisite: plane geometry, one and one-half years of high school algebra, or Mathematics D (or SD). 2 units.

M Tu W Th F, 10.

SD. Intermediate Algebra.

Mr. Abernathy

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.

S3A. Analytic Geometry and Calculus: First Course.

Mr. Seidenberg

Includes curve plotting, introduction to differential calculus, elements of analytic geometry. Prerequisite: two years of high school algebra or Mathematics D (or SD) with grade C or better, plane geometry, plane trigonometry or Mathematics C (or SC). 3 units.

All students except those who have passed Mathematics D or SD (with a grade of C or better) in the spring semester of 1956 in regular session at Berkeley, or in the First Summer Session of 1956 at Berkeley, must pass a qualifying examination for admission to this course. This qualifying examination will be given at the first meeting of the class on Monday, July 30, at 11:10 a.m.

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

S3B. Analytic Geometry and Calculus: Second Course.

Mr. Macauley, Mr. Frey

Continuation of Mathematics 3A. Includes limits, introduction to integral calculus, differentiation and integration of transcendental functions, applications to geometry and mechanics. Prerequisite: Mathematics 3A. 3 units.

M Tu W Th F, 7:40-9 a.m.

S4A. Analytic Geometry and Calculus: Third Course.

Miss Chao

Continuation of Mathematics 3A and 3B. Includes further techniques of integration, further applications, infinite series, hyperbolic functions. Prerequisite: Mathematics 3B. 3 units.

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

S4B. Analytic Geometry and Calculus: Fourth Course.

Miss Kallin

Continuation of Mathematics 3A, 3B, 4A. Includes solid analytic geometry, partial differentiation, and multiple integration, with applications. Prerequisite: Mathematics 4A. 3 units.

M Tu W Th F, 7:40-9 a.m.

S110B. Advanced Engineering Mathematics.

Mr. Helson

Primarily for engineers. Includes differential equations and applications. Prerequisite: Mathematics 4A-4B. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Helson in charge)

Investigation of special problems under the direction of members of the department. In particular, this course offers an opportunity to students with facility for mathematics to anticipate some of the advanced courses by individual study. 1-5 units.

Hours to be arranged.

S290. Seminars.

The Staff (Mr. Seidenberg in charge)

1-4 units.

Hours to be arranged.

S295. Individual Research Leading to Higher Degrees.

1-4 units.

The Staff (Mr. Seidenberg in charge)

Hours to be arranged.

MUSIC

(Department Office, 215 Music Building)

Arnold Elston, Ph.D., *Associate Professor of Music, University of Oregon.*Alfred V. Frankenstein, Ph.B., *Music and Art Critic, San Francisco Chronicle.*Richard T. Gore, F.A.G.O., Ph.D., *Professor of Music, Director, Conservatory of Music, The College of Wooster.*Andrew W. Imbrie, M.A., *Assistant Professor of Music.*Joseph W. Kerman, Ph.D., *Assistant Professor of Music.*George H. Kyme, Ph.D., *Associate in Music and Supervisor of the Teaching of Music.*Edward B. Lawton, Jr., A.B., *Professor of Music.*Warren C. Martin, M.M., *Director of Graduate Studies, Westminster Choir College, Princeton; Lecturer in Music in the Summer Sessions.*Alexander L. Ringer, Ph.D., *Acting Assistant Professor of Music.***FIRST SUMMER SESSION COURSES**

(June 18 to July 28, 1956)

S3C. Intermediate Harmony.

Mr. Elston

Prerequisite: Music 3A-3B (elementary harmony). 2 units.

M Tu W Th F, 9.

S10. Basic Musicianship.

Mr. Kyme, Mr. Martin

Fundamentals of music with singing, ear training, harmonization of melodies, and conducting. 2 units.

M Tu W Th F, 12.

S27A. Introduction to Musical Literature.

Mr. Ringer

Lectures, illustrations, and readings designed to furnish a general appreciation of music. Two section meetings a week for listening, discussion, and written work. 2 units.

M Tu W Th F, 10, and two section meetings weekly, Tu Th, 1, or Tu Th, 2.

S44. University Chorus.

Mr. Gore

2 units.

M Tu W Th F, 3-5.

47. Chamber Music Ensemble.

Mr. Martin

Open to any student of sufficient technical ability to take part in ensemble combinations for strings, wind instruments, piano. 2 units.

M Tu W Th F, 3-5.

S116F. The Music of Johann Sebastian Bach.

Mr. Gore

Prerequisite: Music 21A-21B (history and literature of music) or consent of the instructor. 2 units.

M Tu W Th F, 11.

120C. Choral Repertory.

Mr. Lawton

A study of important periods and styles of choral literature, with special reference to repertory suitable for the secondary school chorus. Problems of performance; editorial techniques. Students will have the opportunity to conduct works studied. Prerequisite: consent of the instructor. 2 units.

M Tu W Th F, 10.

S127A. Introduction to Opera.

Mr. Frankenstein

Critical study of seven operas, such as *Dido and Aeneas*, Gluck's *Orfeo*, *Don Giovanni*, *Fidelio*, *Tristan*, *Otello*, *Pelléas*, and *Wozzeck*, emphasizing the

contributions of music to a total dramatic effect. Prerequisite: Music 27A-27B or consent of the instructor. 2 units.

M W, 1-3, and F, 1.

S144. Advanced University Chorus.

Mr. Gore

M Tu W Th F, 3-5.

147. Advanced Chamber Music Ensemble.

Mr. Martin

Open to any student of sufficient technical ability to take part in ensemble combinations for strings, wind instruments, piano. 2 units.

M Tu W Th F, 3-5.

S203B. Seminar in Composition: Free Composition.

Mr. Imbrie

Prerequisite: consent of the instructor. 2 units.

Tu F, 1-3.

S211. Seminar: Studies in Music Research.

Mr. Ringer

The work consists of two parts: a class problem designed to strengthen general background, and an individual research problem. The topic of the research problem must be approved by the instructor before the first meeting of the course. Prerequisite: consent of the instructor. 2 units.

M Th, 1-3.

S298. Special Studies.

The Staff (Mr. Ringer in charge)

Open to properly qualified graduate students for research or creative work. Such work shall not serve in lieu of regular courses of instruction. 1-2 units.

To be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1958)

S3D. Intermediate Harmony.

Mr. Kerman

Prerequisite: Music 3C. 2 units.

M Tu W Th F, 3.

S27B. Introduction to Musical Literature.

Mr. Kerman

Lectures, illustrations, and readings designed to furnish a general appreciation of music. Prerequisite: Music 27A or consent of the instructor. Two section meetings a week for listening, discussion, and written work. 2 units.

M Tu W Th F, 1, and two section meetings weekly, Tu Th, 12, or Tu Th, 3.

S298. Special Studies.

Mr. Kerman

Open to properly qualified graduate students for research or creative work. Such work shall not serve in lieu of regular courses of instruction. 1-2 units.

Hours to be arranged.

OPTOMETRY

(Department Office, 101 Optometry Building)

James T. Crosby, Jr., B.S., *Clinical Instructor in Optometry.*

Robert F. Harrigan, B.S., *Clinical Instructor in Optometry.*

Frederick W. Hebbard, M.S., *Clinical Instructor in Optometry.*

Frank V. Johnson, Jr., M.Opt., *Clinical Instructor in Optometry.*

Robert W. Lester, A.B., *Clinical Instructor in Optometry.*

Kenneth B. Stoddard, Ph.D., *Professor of Physiological Optics and Optometry and Chairman of the Department.*

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 18 to July 28, 1956)***410. Introduction to Clinical Optometry.**

Mr. Harrigan and Clinical Instructors

Lectures and clinical practice in the technique of eye examinations and interpretation of clinical data. 2 units.

M W F, 8; laboratory hours to be arranged.

S499. Special Study for Advanced Undergraduates.

The Staff

1-2 units.

Hours to be arranged.

Physiological Optics**S299. Research.**

Mr. Stoddard

1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSE*(July 30 to September 8, 1956)***Physiological Optics****S299. Research.**

Mr. Stoddard

1-3 units.

Hours to be arranged.

ORIENTAL LANGUAGES

(Department Office, 107 Durant Hall)

Peter A. Boodberg, Ph.D., *Professor of Oriental Languages.*Donald H. Shively, Ph.D., *Assistant Professor of Oriental Languages.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***S9. Elementary Modern Japanese.**

Mr. Shively

A beginning course for the study of reading and writing modern Japanese.
4 units.

M Tu W Th F, 9-11.

S38. Great Books of Eastern Asia.

Mr. Boodberg

Lectures and assigned readings on the great classics of Eastern Asia, in English translation. 2 units.

M Tu W Th F, 10.

S199. Special Individual Study.

Mr. Boodberg, Mr. Shively

1-5 units.

Hours to be arranged.

PALEONTOLOGY

(Department Office, 310-B Hearst Memorial Mining Building)

J. Wyatt Durham, Ph.D., *Professor of Paleontology, Curator of Invertebrate Collections in the Museum of Paleontology and Vice-Chairman of the Department.*Donald E. Savage, Ph.D., *Assistant Professor of Paleontology and Curator in the Museum of Paleontology.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S199. Special Study for Advanced Students.
 1-5 units. The Staff (Mr. Durham in charge)
 Hours to be arranged, or in the field.

S299. Special Study for Graduate Students.
 1-4 units. The Staff (Mr. Durham in charge)
 Hours to be arranged, or in the field.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S199. Special Study for Advanced Students.
 1-5 units. The Staff (Mr. Savage in charge)
 Hours to be arranged, or in the field.

S299. Special Study for Graduate Students.
 1-4 units. The Staff (Mr. Savage in charge)
 Hours to be arranged, or in the field.

PHILOSOPHY

(Department Office, 4401 Dwinelle Hall)

Karl Aschenbrenner, Ph.D., *Associate Professor of Philosophy.*

Benson Mates, Ph.D., *Associate Professor of Philosophy.*

Edward W. Strong, Ph.D., *Professor of Philosophy.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S6A. Introduction to Philosophy. Mr. Aschenbrenner
 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.

S12A. Logic. Mr. Mates
 2 units.
 M Tu W Th F, 9.

S114. Theory of Knowledge. Mr. Mates
 2 units.
 M Tu W Th F, 11.

S135A. Contemporary Tendencies in Philosophy. Mr. Aschenbrenner
 2 units.
 M Tu W Th F, 9.

S250. Special Studies. The Staff (Mr. Mates in charge)
 Enrollment is ordinarily restricted to students who have been admitted to candidacy for the doctor's degree. 2-3 units.
 Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)***S6B. Introduction to Philosophy.**

Mr. Strong

Continuation of 6A, with emphasis on problems of meaning, validity, and relevance in common sense, science, religion, and metaphysics. Prerequisite: Philosophy 6A. 2 units.

M Tu W Th F, 10.

S102. Recurrent Types of Philosophy.

Mr. Strong

2 units.

M Tu W Th F, 11.

S250. Special Studies.

The Staff (Mr. Strong in charge)

Enrollment is ordinarily restricted to students who have been admitted to candidacy for the doctor's degree. 2-3 units.

Hours to be arranged.

PHYSICAL EDUCATION*(Department Offices, 103 Gymnasium for Men and 200 Hearst Gymnasium)*

Caryl E. Cuddeback, M.A., *Instructor in Health and Physical Education, Oakland Junior College.*

Dan Della, M.A., *Vice-Principal, Pleasant Hills High School; Lecturer in Physical Education in the Summer Sessions.*

Anna S. Espenschade, Ph.D., *Professor of Physical Education.*

Lance Flanagan, M.A., *Assistant Supervisor of Physical Education.*

Franklin M. Henry, Ph.D., *Professor of Physical Education.*

Pauline Hodgson, Ph.D., *Professor of Physical Education and Associate Director of Physical Education for Women.*

Betty F. Jordan, M.A., *Junior Supervisor of Physical Education.*

Charles J. Keeney, A.B., *Associate Supervisor of Physical Education; in charge of the swimming program for the Children's Recreation School.*

Ralfe D. Miller, M.A., *Supervisor of Physical Education.*

Heber A. Newsom, M.A., *Supervisor of Physical Education; in charge of Children's Recreation School.*

Carl L. Nordly, Ph.D., *Professor of Physical Education and Chairman of the Department.*

Charles A. Pease, A.B., *Associate Supervisor of Physical Education.*

Maida L. Riggs, M.A., *Acting Instructor in Physical Education, University of Massachusetts.*

Everett D. Ryan, M.S., *Assistant Supervisor of Physical Education.*

GENERAL INFORMATION

A medical examination is required of all students who participate in activity courses in physical education. Continuing students, that is, those who were enrolled in the University during the spring semester, 1956, will have met this requirement. Summer Session students should make an appointment at the time of their enrollment. Enrollment in activity classes will be held on Saturday, June 16, 9 a.m. to 1 p.m., and on Monday, June 18, 9 a.m. to 5 p.m. Men enroll in Office 103, Gymnasium for Men, women in Room 220, Hearst Gymnasium.

At the Gymnasium for Men and Hearst Gymnasium for Women, courts, swimming pools, sports fields, and equipment are available to all registered students who wish an opportunity for exercise and recreation, either with or without instruction. Gymnasium clothing, towels, and swimming suits are furnished by the department. For further information regarding the use of

the facilities, men students are directed to Office 2B, Gymnasium for Men, and women students to Room 104, Hearst Gymnasium.

The pools at the Gymnasium for Men will be open to both men and women throughout the period of the Summer Sessions. Women using these facilities must furnish their own swimming suits.

Information concerning the requirements for the master's degree in physical education, and the Ed.D. degree in education-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. Additional information concerning the requirements for the Ed.D. degree is contained in the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION which may be obtained by writing to the School of Education, University of California, Berkeley 4.

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

ACTIVITY COURSES FOR MEN AND WOMEN

6A. Elementary Tennis.

½ unit.

M Tu W Th F, 10, 11.

M Tu W Th F, 1, 2.

Mr. Miller and Assistants
Miss Riggs and Assistants

6B. Intermediate Tennis.

½ unit.

M Tu W Th F, 10, 11.

M Tu W Th F, 1, 2.

Mr. Miller and Assistants
Miss Riggs and Assistants

10C. Advanced Swimming.

Mr. Flanagan and Assistants

For students who wish to learn the speed strokes and to improve their technique for the American crawl, racing backstroke, breast stroke, racing dives and turns, plain springboard diving. ½ unit.

M Tu W Th F, 2.

10L. Lifesaving.

Mr. Flanagan and Assistants

Open to students who are proficient in the four basic swimming strokes (elementary back, side, breast, and crawl). Those completing the course satisfactorily are eligible for the Senior Red Cross certificate. ½ unit.

M Tu W Th F, 1.

19. Elementary Golf.

Mr. Ryan

½ unit.

M Tu W Th F, 10, 11, 1, 2.

24. Badminton.

Mr. Ryan

Drill in fundamental strokes and the principles of court tactics; tournament play. ½ unit.

M Tu W Th F, 3.

28A. Elementary Folk and Square Dancing.

Miss Cuddeback

Selected European and American folk dances. ½ unit.

M Tu W Th F, 3.

30A. Elementary Social Dancing.

Miss Cuddeback

Fundamentals of ballroom dancing with emphasis on fox trot and waltz patterns. ½ unit.

M Tu W Th F, 11.

ACTIVITY COURSES FOR MEN**S1. Basketball.**

Mr. Della

 $\frac{1}{2}$ unit.

M Tu W Th F, 12.

10A. Elementary Swimming.

Mr. Flanagan and Assistants

Recommended for the novice and non-swimmer. Special attention given to students who are afraid of the water. Floating, breathing, relaxation and simple propulsion; elementary back stroke, side stroke, crawl stroke, and elementary diving from deck. $\frac{1}{2}$ unit.

M Tu W Th F, 11, 1, 2, 3.

10B. Intermediate Swimming.

Mr. Flanagan and Assistants

Open to students who can confidently swim in deep water at least 20 yards. Emphasis will be given to the American crawl, side stroke, single overarm, trudgeon and trudgeon crawl, breast stroke, and elementary diving. $\frac{1}{2}$ unit.

M Tu W Th F, 11, 1, 2, 3.

ACTIVITY COURSES FOR WOMEN**33A. Elementary Swimming.**

Miss Jordan

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, 3.

33B. Intermediate Swimming.

Miss Jordan

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, 3.

METHODS COURSES FOR MEN**S303. The Theory and Teaching of Track and Field Events.**

Mr. Della

Designed primarily to meet the needs of men who wish to coach high school track and field. Lectures, audio-visual aids and demonstrations, two periods per week; practice in teaching the events, three periods per week. 1 unit.

M Tu W Th F, 2.

S305. The Theory and Teaching of Basketball.

Mr. Della

Designed primarily to meet the needs of men who wish to coach high school basketball. Problems of the coach and methods of coaching analyzed and discussed. Opportunity to participate in floor work, involving techniques of offensive and defensive team play. 1 unit.

M W, 1 and Tu Th F, 12.

METHODS COURSES FOR MEN AND WOMEN**S306. The Theory and Teaching of Court Sports.**

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.

M, W, 12; and three laboratory hours to be arranged.

S310. The Theory and Teaching of Swimming, Diving, and Water Polo.

Mr. Flanagan

Progressive land and water drills, as used in the instruction of elementary, intermediate and advanced swimmers. Methods of class and individual instruction. Prerequisite: course in swimming or the equivalent. 1 unit.

M Tu W Th F, 3.

328. The Teaching of Folk and Square Dancing. Miss Cuddeback
(Formerly numbered 351.)
Participation in folk and square dancing with a study of the adaptation of materials to school use. 1 unit.
Tu Th, 12, and M W F, 3.

330. The Teaching of Social Dancing. Miss Cuddeback, Miss Jordan
(Formerly numbered 347.)
Methods and materials for use in junior and senior high schools. Open to students who have had experience in ballroom dancing. 1 unit.
M W, 12, and M W F, 11.

336. Physical Education for Children of Elementary School Age. Miss Cuddeback
Designed especially for classroom teachers, physical education teachers and supervisors, and recreation leaders. The first half of the course will be devoted to methods of teaching and learning rhythmic activities, the second half to games, stunts and social recreation. 1 unit.
M Tu W Th F, 2.

THEORY COURSE FOR MEN ONLY

S171. Conditioning of Athletes and Care of Injuries. Mr. Pease
(Formerly numbered 318.)
Modern principles and practice in conditioning and care of athletes; individual variation and needs as to sleep, diet, health, and activity habits; care of injuries with special emphasis on therapy, taping, and protective equipment. Prerequisite: Physical Education 5A, Physiology 1A or Anatomy 102. 2 units.
M Tu W Th F, 3-5.

THEORY AND GRADUATE COURSES FOR MEN AND WOMEN

S110. Psychologic Bases of Physical Activity. Mr. Henry
Perception, motivation, learning, and emotion in relation to physical activity; reaction time and coordination. Personal adjustment and social behavior as observed in play. The psychology of competition. Prerequisite: Psychology 1A or consent of the instructor. 2 units.
M Tu W Th F, 11.

111. Motor Development. Miss Espenschade
Motor development from birth to maturity, age changes, sex and individual differences; maturation and motor learning in childhood and adolescence; relation of motor performance to other aspects of behavior. Prerequisite: upper division standing. 2 units.
M Tu W Th F, 9.

137. Current Problems in Physical Education. Mr. Nordly
An analysis of current problems arising in the conduct of physical education, recreational and athletic programs at the elementary and secondary school age levels. Prerequisite: upper division standing and consent of the instructor. 2 units.
M Tu W Th F, 10.

S140. Community Recreation. Mr. Miller
Nature, scope and significance of recreation in the social and economic life of the American people. Meaning and nature of play. History, purpose, function, organizational patterns and interrelationships of groups, agencies and institutions which serve the recreational needs of the community. Prerequisite: upper division standing. This course is not open to students who have taken Physical Education 143A or 143B. 2 units.
M Tu W Th F, 9.

S199. Special Study for Advanced Undergraduates.

The Staff (Miss Hodgson in charge)

Prerequisite: senior standing and consent of the department. Only specially qualified students will be admitted. 1-5 units.

Hours to be arranged.

S260A. Seminar in Physical Education.

Mr. Henry

M W, 1-3; and conferences.

S260B. Seminar in Physical Education.

Miss Espenschade

2 units.

Tu Th, 1-3; and conferences.

S290. Research. Miss Espenschade, Mr. Henry, Miss Hodgson, Mr. Nordly

Students who plan to enroll in this course should discuss problems in advance with the instructor, either in person or by correspondence. 1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)*

The swimming pools at the Gymnasium for Men and at the Hearst Gymnasium for Women are available for recreational swimming at the following hours:

Gymnasium for Men (men and women), M Tu W Th F S, 12 noon to 5:30 p.m.

Hearst Gymnasium (women), M Tu W Th F, 12 noon to 5:30 p.m.

10A. Elementary Swimming (Men).

Mr. Keeney

Recommended for the novice and non-swimmer. Special attention given to students who are afraid of the water. Floating, breathing, relaxation, and simple propulsion; elementary back stroke, side stroke, crawl stroke, and elementary diving from deck. $\frac{1}{2}$ unit.

M Tu W Th F, 2, 3.

10B. Intermediate Swimming (Men).

Mr. Keeney

Open to students who can confidently swim in deep water at least 20 yards. Emphasis will be given to the American crawl, side stroke, single overarm, trudgeon, and trudgeon crawl, breast stroke, and elementary diving. $\frac{1}{2}$ unit.

M Tu W Th F, 2, 3.

CHILDREN'S RECREATION SCHOOL*(July 31 to September 6, 1956)*

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 8 to 13 years of age. The activities proposed are as follows:

For Girls: swimming, dancing, archery, games, tennis, and handicraft.

For Boys: swimming, tumbling, archery, field sports, tennis, and handicraft.

Enrollment is limited to 150 girls and 150 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 \$35 will be charged for each child. A deposit of \$10 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

\$10. (Checks should be made payable to The Regents of the University of California.) *This deposit will not be refunded* upon withdrawal. The balance of \$25 must be paid on Monday, July 30, 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 197, Gymnasium for Men. Payment of the deposit reserves a place for the child's enrollment only up to Tuesday, July 31. Classes will begin on Tuesday, July 31, at 9 a.m.

Applications may be sent on or after January 2, 1956.

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.

Regulations, adopted in 1951, are as follows:

1. The lower age limit has been raised from 7 to 8 years.
2. Preference in enrollment will be given to those children who have previously not been enrolled in the school.

PHYSICS

(Department Office, 366 LeConte Hall)

Hugh Bradner, Ph.D., *Physicist, Radiation Laboratory; Lecturer in Physics in the Summer Sessions.*

August C. Helmholtz, Ph.D., *Professor of Physics and Chairman of the Department.*

Robert D. Lawson, Ph.D., *Junior Research Physicist; Lecturer in Physics in the Summer Sessions.*

Hans M. Mark, Ph.D., *Junior Research Physicist; Lecturer in Physics in the Summer Sessions.*

John M. Stone, Ph.D., *Lecturer in Physics and Research Associate.*

Karl Strauch, Ph.D., *Assistant Professor of Physics, Harvard University.*

Harvey E. White, Ph.D., *Professor of Physics and Vice-Chairman of the Department.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S2A. General Physics Lectures.

Mr. Bradner

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 10, and trigonometry. 3 units.

Lectures: M Tu W Th F, 9:40-11.

Two discussion sections weekly to be arranged.

S3A. General Physics Laboratory: Physical Measurements. Mr. White

Laboratory experiments in mechanics, properties of matter, sound and heat, designed to accompany the lectures in 2A. 1 unit.

Two three-hour laboratory periods per week.

Section 1, M Th, 1-4; section 2, Tu F, 1-4.

S4A. General Physics.

Mr. Strauch

Lectures, with experimental illustrations and assigned problems, on mechanics, and properties of matter, wave motion and sound, 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 10, and Mathe-

matics 3A-3B or its equivalent. Mathematics 3B may be taken concurrently. 4 units.

Lectures: M Tu W Th F, 9-10:30.

Laboratory: section 1, M Th, 1-4; section 2, Tu F, 1-4.

S4B. General Physics.

Mr. Stone

Lectures, with experimental illustrations and assigned problems, on electricity, magnetism, 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. 4 units.

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

Laboratory: section 1, M Th, 1-4; section 2, Tu F, 1-4.

S132. Modern Physics.

Mr. White

A general course in modern physics. Elements of atomic and nuclear physics. The periodic table, spectra, X rays, electron optics, solid state, nuclear physics and nuclear energy, instrumentation, cosmic rays and fundamental particles. During the Summer Session special attention will be given to high school science teachers. Prerequisite: Physics 2AB-3AB or the equivalent, or consent of the instructor. 3 units.

M Tu W Th F, 9:40-11.

S199. Special Study for Advanced Undergraduates.

1-2 units.

The Staff (Mr. White in charge)

Hours to be arranged.

S295. Research.

The Staff (Mr. White in charge)

1-2 units.

Hours to be arranged.

S299. Research: Medical Physics.

The Staff (Mr. White in charge)

1-3 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S2B. General Physics Lectures.

Mr. Lawson

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 pre-medical students. Prerequisite: Physics 2A. 3 units.

Lectures: M Tu W Th F, 9:40-11.

Two discussion sections weekly to be arranged.

S3B. General Physics Laboratory: Physical Measurements.

Mr. Lawson

Laboratory experiments in light, electricity, and magnetism, designed to accompany the lectures in 2B. 1 unit.

Two three-hour laboratory periods per week.

Section 1, M Th, 1-4; section 2, Tu F, 1-4.

S4C. General Physics.

Mr. Helmholtz

Lectures, with experimental illustrations and assigned problems, on heat, elements of modern physics, 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-4B. 4 units.

Lectures: M Tu W Th F, 9:40-11.

Laboratory: section 1, M Th, 1-4; section 2, Tu F, 1-4.

S121. Introduction to Atomic Structure.

Mr. Mark

An introduction to atomic physics treating cathode and positive rays, the electron, thermionic emission, the photoelectric effect, the structure of the atom, and interpretation of spectra and X rays. 3 units.

M Tu W Th F, 9:40-11.

S199. Special Study for Advanced Undergraduates.

1-2 units.

The Staff (Mr. Mark in charge)

Hours to be arranged.

S295. Research.

The Staff (Mr. Mark in charge)

1-2 units.

Hours to be arranged.

S299. Research: Medical Physics.

The Staff (Mr. Mark in charge)

1-3 units.

Hours to be arranged.

PHYSIOLOGY

(Department Office, 2549 Life Sciences Building)

Leslie L. Bennett, M.D., Ph.D., *Professor of Physiology and Chairman of the Department.*

Ernest L. Dobson, Ph.D., *Lecturer in Physiology.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Introductory Physiology. Lectures.

Mr. Dobson

The physiology of muscle, nerve, central nervous system, sensation, circulation, respiration, excretion, and digestion. Prerequisite: high school chemistry or at least 4 units of college physics or biology, and sophomore standing. 3 units.

M Tu W Th F, 1, and Tu W Th, 2.

S1L. Introductory Physiology. Laboratory.

Mr. Dobson

Prerequisite: Physiology 1, completed or in progress. 2 units.

M Tu W Th F, 9-12.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Bennett in charge)

Prerequisite: at least 6 units of upper division courses in physiology. 1-4 units.

Hours to be arranged.

S201A. Research.

The Staff (Mr. Bennett in charge)

1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Bennett in charge)

Prerequisite: at least 6 units of upper division courses in physiology. 1-4 units.

Hours to be arranged.

S201B. Research.

The Staff (Mr. Bennett in charge)

1-4 units.

Hours to be arranged.

S118B. History of Political Theory.

Mr. Burdick

Political thought during the Reformation; the emergence of liberalism, conservatism, and revolutionary theories. 2 units.

M Tu W Th F, 9.

S175. National Administration of the United States.

Mr. Sayre

(Formerly numbered 155.)

The processes of policy formulation and administrative management in relation to economic, resource, welfare, strategic, and other governmental affairs, emphasizing long-range and current trends in the national administration of the United States. Not open to students who have completed formerly given course 176. 2 units.

M Tu W Th F, 11.

S181. Elements of Public Administration.

Mr. Lepawsky

The significance of public administration in modern government; the organization of governmental functions and services in national, state, and local government; the role of administrative techniques, such as personnel management, budgeting, and planning. Not open to students who have completed formerly given course 184. 2 units.

M Tu W Th F, 9.

S185A. Public Policy and Administration of Natural Resources.

Mr. Lepawsky

Programs and policies for the conservation, development, and administration of natural resources. 2 units.

M Tu W Th F, 10.

S186. Organization and Management.

Mr. Sayre

An analytical examination through case studies of public administration organization, and the techniques and processes of public management; the growth and significance of the management movement; the organization of administrative authority, the relation of organization to operational processes. 2 units.

M Tu W Th F, 10.

S199. Special Study for Advanced Undergraduates.

1-4 units.

The Staff (Mr. Burdick in charge)

Hours to be arranged.

S212A. European Political Theory.

Mr. Burdick

Examination of the elements of socialist thought; theories of "mass society"; rise of modern totalitarian thought. 2 units.

Tu Th, 10-12.

S298. Individual Study.

The Staff (Mr. Jacobson in charge)

1-4 units.

Hours to be arranged.

PSYCHOLOGY

(Department Office, 1023 Life Sciences Building)

Egerton L. Ballachey, Ph.D., *Associate Professor of Psychology.*

Clarence W. Brown, Ph.D., *Professor of Psychology.*

Andrew L. Comrey, Ph.D., *Assistant Professor of Psychology (Los Angeles).*

Edwin E. Ghiselli, Ph.D., *Professor of Psychology and Chairman of the Department.*

Rheem F. Jarrett, Ph.D., *Associate Professor of Psychology.*

John P. McKee, Ph.D., *Assistant Professor of Psychology.*

Leo J. Postman, Ph.D., *Associate Professor of Psychology.*
 Benbow F. Ritchie, Ph.D., *Associate Professor of Psychology.*
 David A. Rodgers, Ph.D., *Assistant Professor of Psychology.*
 Theodore R. Sarbin, Ph.D., *Associate Professor of Psychology.*
 Zanwil Sperber, Ph.D., *Instructor in Psychology (Los Angeles)*
 Robert C. Tryon, Ph.D., *Professor of Psychology.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1A. General Psychology.

Mr. Postman

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.

S1B. General Psychology.

Mr. Brown

A continuation of course 1A with a detailed treatment of the application of the scientific method in the study of behavior. Basic assumption, limitations, and advantages of the method of experiment. Intended primarily for prospective major students. 2 units.

M Tu W Th F, 8.

S104. The Psychological Test.

Mr. Brown

Psychological and logical aspects of measurement of behavior domains; concepts of behavior sampling and representativeness of the domains of proficiency, aptitude, and conceptualized abilities; theory of attitude measurement; theory underlying measurement by units and item sampling; psychological interpretation of measured performance. Prerequisite: Psychology 1A, 5. 2 units.

M Tu W Th F, 10.

S111. Child Psychology.

Mr. McKee

Behavior of normal children. Prenatal development; the period of infancy, mental, social, and personality development in childhood. Prerequisite: Psychology 1A, and any one of: Psychology 1B, 5, or 33 (1B, 5 or 33 may be taken concurrently). 2 units.

M Tu W Th F, 10.

S130. Learning.

Mr. Postman

Survey of experimental and theoretical work in the psychology of memory and learning. Prerequisite: Psychology 1A, 1B, 5. 2 units.

M Tu W Th F, 11.

S136. Psychology of the Unconscious.

Mr. Rodgers

A consideration of the evidence for, and the nature and role of, unconscious psychological processes in behavior. 2 units.

M Tu W Th F, 1.

S141. Personality in Society and Culture.

Mr. Sarbin

A consideration of the social and cultural determinants of personality. 2 units.

M Tu W Th F, 9.

S168. Abnormal Psychology.

Mr. Sarbin

The relations of psychology to the psychoneuroses and psychoses; the appearance of abnormal traits in incipient stages of mental disturbance. Prerequisite: Psychology 1A. 2 units.

M Tu W Th F, 11.

S185. Personnel and Industrial Psychology.

Mr. Ghiselli

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. Prerequisite: Psychology 1A. 2 units.

M Tu W Th F, 9.

S187. Human Relations in Industry.

Mr. Rodgers

The motivation of workers, psychological aspects of worker-management relationships, factors in employee morale, the maladjusted worker, leadership. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Ghiselli in charge)

By permission, honor students who are adequately prepared may carry on study or research under the guidance of a member of the department. 1-5 units.

Hours to be arranged.

S299. Research.

The Staff (Mr. Ghiselli in charge)

Laboratory, library, or field work as the problem requires. 1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)***S1A. General Psychology.**

Mr. Ballachey

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, 8.

S1B. General Psychology.

Mr. Ballachey

A continuation of course 1A with a detailed treatment of the application of the scientific method in the study of behavior. Basic assumptions, limitations, and advantages of the method of experiment. Intended primarily for prospective major students. 2 units.

M Tu W Th F, 10.

S5. Introduction to Psychological Measurements.

Mr. Jarrett

Arrays of experimental measurements, central tendencies, variability, correlation, significance of measures; elementary reliability and validity of tests. Prerequisite: second-year high school algebra or Mathematics D, and Psychology 1A completed or in progress. Not open to students who are taking or have taken another course in statistics. 3 units.

Lectures, M Tu W Th F, 8; laboratory, M Tu Th F, 3-5.

S107. Advanced Statistical Methods in Psychology.

Mr. Jarrett

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: Psychology 5 or an equivalent course in statistics. 3 units.

M Tu W Th F, 10; laboratory, M Tu W Th, 1-3.

S130. Learning.

Mr. Ritchie

Survey of experimental and theoretical work in the psychology of memory and learning. Prerequisite: Psychology 1A, 1B, 5. 2 units.

M Tu W Th F, 1.

S134. Motivation.

Mr. Ritchie

The nature of primary and secondary drives; the theories concerning drives found in animal, child, experimental, social and abnormal psychology, and in philosophy. Prerequisite: Psychology 1A, 1B, and at least 6 upper division units in psychology. Primarily for seniors and graduates. 2 units.

M Tu W Th F, 11.

S136. Psychology of the Unconscious.

Mr. Sperber

A consideration of the evidence for, and the nature and role of, unconscious psychological processes in behavior. 2 units.

M Tu W Th F, 9.

S145. Social Psychology.

Mr. Tryon

Psychological nature of: society, its functions and instruments, social groups, their ways, sanctions, symbols, social controls; social status, prestige and mobility; social interaction, including conflict; social change. The person's adjustment to these phenomena. Prerequisite: Psychology 1A. 2 units.

M Tu W Th F, 10.

S148A. Personality.

Mr. Sperber

A survey of recent thought and research in the field of personality, with emphasis on dynamic and genetic problems. Prerequisite: Psychology 1A and either 1B or 33. 2 units.

M Tu W Th F, 11.

S180. Psychological Aspects of Advertising and Marketing.

Mr. Comrey

A consideration of the application of psychological techniques and principles derived from controlled observation to the study of problems in advertising, selling, and market research. Prerequisite: Psychology 1A. 2 units.

M Tu W Th F, 9.

S185. Personnel and Industrial Psychology.

Mr. Comrey

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. Prerequisite: Psychology 1A. 2 units.

M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Tyron in charge)

By permission, honor students who are adequately prepared may carry on study or research under the guidance of a member of the department. 1-5 units.

Hours to be arranged.

S299. Research.

The Staff (Mr. Tyron in charge)

Laboratory, library, or field work as the problem requires. 1-4 units.

Hours to be arranged.

SCANDINAVIAN

(Department Office, 1218 Dwinelle Hall)

Håkon Hamre, *Associate Professor of Scandinavian.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

105. Masterpieces of Modern Scandinavian Literature.

Mr. Hamre

Reading and discussion of some representative novels and dramas of the

twentieth century in English translation; lectures in English on modern Scandinavian literature. 2 units.

M Tu W Th F, 11.

110. Masterpieces of Nineteenth-Century Literature in Scandinavia.

Mr. Hamre

Representative works by Ibsen, Strindberg, Lagerlof, Undset, and others read in English translation and discussed. Lectures in English. 2 units.

M Tu W Th F, 10.

SLAVIC LANGUAGES AND LITERATURES

(Department Office, 4118 Dwinelle Hall)

Zbigniew Folejewski, Ph.D., *Visiting Assistant Professor of Slavic Languages.*

George Harjan, M.A., *Assistant in Slavic Languages in the Summer Sessions.*

Waclaw Lednicki, Ph.D., *Professor of Slavic Languages and Literatures and Chairman of the Department.*

Lawrence L. Thomas, Ph.D., *Instructor in Slavic Languages.*

Irwin Titunik, A.B., *Assistant in Slavic Languages in the Summer Sessions.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Elementary Russian. Beginners' Course.

Mr. Folejewski

4 units.

M Tu W Th F, 9-11.

S18A. Elementary Russian. Conversation.

Mr. Harjan

Prerequisite: Russian 1 (may be taken concurrently). 2 units.

M Tu W Th F, 1.

S130. Introduction to Russian Literature.

Mr. Lednicki

Survey of Russian literature and intellectual trends. 2 units.

M Tu W Th F, 2.

S199. Special Study for Advanced Undergraduates.

1-2 units.

The Staff (Mr. Lednicki in charge)

Hours to be arranged.

S298. Individual Work.

The Staff (Mr. Lednicki in charge)

1-2 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

106. Written Translation from Modern Slavic Texts.

Mr. Thomas

Lectures on translation technique, and individual guidance in the explication and translation of modern Slavic texts. There will be a two-and-one-half-hour supervised translation laboratory each week. Open to students who have had at least elementary training in the language of their choice. 3 units.

M Tu W Th F, 9. Hours for translation laboratory to be arranged.

S140. Survey of Slavic Literatures.

Mr. Thomas

2 units.

M Tu W Th F, 1.

S199. Special Study for Advanced Undergraduates.

1-2 units.

The Staff (Mr. Thomas in charge)

Hours to be arranged.

S298. Individual Work.

The Staff (Mr. Thomas in charge)

1-2 units.

Hours to be arranged.

SOCIAL WELFARE

(Department Office, 222 Building T-1)

Milton Chernin, Ph.D., *Professor of Social Welfare and Chairman of the Department.*

Mary Duren, M.A., *Associate Professor of Social Welfare (Los Angeles).*

Nicholaas Pansegrouw, Ph.D., *Executive Director, Institute for Research on Crime and Delinquency, Inc., New York City, and Lecturer in Social Welfare in the Summer Sessions.*

Elizabeth Pfeiffer, M.S.W., *Lecturer in Social Welfare.*

Lydia Rapoport, M.S.S., *Assistant Professor of Social Welfare.*

Elliot Studt, M.A., *Chief, Training Branch, Division of Juvenile Delinquency Service, Children's Bureau, Washington, D.C.; Lecturer in Social Welfare in the Summer Sessions.*

Kermit T. Wiltse, D.S.W., *Assistant Professor of Social Welfare.*

Enrollment Limitations in Social Welfare Courses

Enrollment in certain courses in the Department of Social Welfare may be limited. The student must file two applications:

1. With the Office of the Summer Sessions
2. With the Department of Social Welfare

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Chernin in charge)

Individual readings, research, and conferences with instructor in a field chosen by the student with approval of the instructor. Prerequisite: senior standing and approval of the major adviser. 1-3 units.

Hours to be arranged.

206. Social Casework in School Guidance Programs.

Mr. Wiltse

Introduction to basic social casework method and skills applied to counseling, guidance, and psychological services in the schools. The relationship of the social worker to parents, children, teachers; interviewing techniques; the use of community resources. Field visits will be arranged. Open only to persons engaged in or preparing for counseling or the responsibilities of a psychologist in the schools. 2 units.

M W, 3:30-6.

232. The Treatment of Delinquency.

Mr. Pansegrouw

Institutional and noninstitutional correctional treatment of juveniles and adults. 2 units.

M W, 7:30-10 p.m.

S259. Principles and Methods of Supervision in Social Welfare.

Miss Rapoport

Educational and psychological principles involved in supervision; the purposes, possibilities, and current practices of supervision in social agencies; critical evaluation of supervising case material drawn from present practice. Prerequisite: completion of one year of education in a recognized school of social work, including a case-work or group-work and field-work sequence. 2 units.

Tu Th, 7:30-10 p.m.

S298. Special Studies.

The Staff (Mr. Chernin in charge)

Individual or group study, with emphasis on original research, as may be arranged. 1-4 units.

Hours to be arranged.

Courses for Teachers of Correctional Work

The School of Social Welfare, in cooperation with the Children's Bureau, Department of Health, Education, and Welfare, and with the assistance of a grant from The Rosenberg Foundation, presents a special educational program for teachers of correctional work. The following courses are open only to persons invited to participate in this program.

237. Fundamental Determinants of Correctional Practice.

Mr. Pansegrouw

Analysis of legal, administrative, historical, and social factors which determine social work practice in the field of corrections. 1 unit.

M, 9:30-12.

238. Social Work Methods in Corrections.

Mrs. Studt

Problems and methods of adapting generic social work methods to correctional work with juvenile and adult offenders. 1 unit.

Tu, 9:30-12.

239. Social Work Education for Correctional Personnel.

Miss Duren

Problems and methods of designing effective social work educational services for correctional personnel. 1 unit.

F, 9:30-12.

420. Special Field Work for Correctional Social Work Educators.

Miss Pfeiffer

Field work on a social work educational or training project in a correctional agency as prescribed and arranged by the staff. 1 unit.

Hours to be arranged.

SOCIOLOGY AND SOCIAL INSTITUTIONS

(Department Office, 206 South Hall)

Morroe Berger, Ph.D., *Assistant Professor of Sociology, Princeton University.*

Kenneth E. Bock, Ph.D., *Assistant Professor of Sociology and Social Institutions.*

Cesar Grana, M.A., *Lecturer in Sociology and Social Institutions.*

Gideon Sjoberg, Ph.D., *Assistant Professor of Sociology, The University of Texas.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1. Man and Society.

Mr. Sjoberg

An introduction to sociology. Analysis of human group life through principles, concepts, and theories: culture, institutions, community, collective behavior, personality, social roles, social disorganization, social planning, etc. 2 units.

M Tu W Th F, 10.

S100A. Theory of Social Process.

Mr. Bock

Traditional perspectives in the study of social and cultural development; the idea of cycles and the idea of progress. 2 units.

M Tu W Th F, 9.

S134. Sociology of War and Conflict.

Mr. Bock

War as a form of social conflict; violent and peaceful procedures in the pursuit of national objectives; analysis of attempts to specify the common antecedents of war. 2 units.

M Tu W Th F, 11.

S160. The City.

Mr. Sjoberg

Social structure of the urban community. Comparative materials from earlier historical periods and from contemporary societies will be used. Emphasis on the effects of urbanization upon various social institutions. 2 units.

M Tu W Th F, 8.

S199. Special Study for Advanced Undergraduates.

1-3 units.

The Staff (Mr. Bock in charge)

Hours to be arranged.

S299. Individual Study and Research.

1-3 units.

The Staff (Mr. Bock in charge)

Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S101A. Theories of Social Change.

Mr. Grana

Critical analysis of geographical, racial, and economic theories of social progress. 2 units.

M Tu W Th F, 9.

139. Social Change and Economic Development.

Mr. Berger

Industrialization and other forms of economic modernization in relation to social organization of undeveloped areas. Comparison of historical and contemporary experience in economic growth, including changes in social structure as conditions and consequences. 2 units.

M Tu W Th F, 8.

158. Society and the Intellectuals: Conservatives and Radicals.

Mr. Grana

A discussion of the role of social thinkers and men of letters in periods of social transition. The manner in which intellectuals give shape and currency to trends toward traditionalism or drastic change in times of instability. 2 units.

M Tu W Th F, 11.

159. Race Relations.

Mr. Berger

Analyzes the general problem of race relations from the standpoint of social structure. Individual orientation and lines of accommodation and assimilation. 2 units.

M Tu W Th F, 10.

S199. Special Study for Advanced Undergraduates.

1-3 units.

The Staff (Mr. Grana in charge)

Hours to be arranged.

S299. Individual Study and Research.

1-3 units.

The Staff (Mr. Grana in charge)

Hours to be arranged.

SPANISH AND PORTUGUESE

(Department Office, 4314 Dwinelle Hall)

Martha E. Allen, M.A., *Assistant Professor of Spanish, Mills College.*Rupert C. Allen, Jr., M.A., *Assistant in Spanish in the Summer Sessions.*Robert R. Anderson, M.A., *Assistant in Spanish in the Summer Sessions.*Thomas G. Charouhas, M.A., *Assistant in Spanish in the Summer Sessions.*Manuel de Ezcurdia, M.A., *Assistant in Spanish in the Summer Sessions.*Marian C. Fredine, M.A., *Associate in Spanish in the Summer Sessions.*James S. Holton, M.A., *Assistant in Spanish in the Summer Sessions.*Paul M. Lloyd, M.A., *Assistant in Spanish in the Summer Sessions.*Yakov Malkiel, Ph.D., *Professor of Romance Philology.*Marcos A. Morínigo, Ph.D., *Associate Professor of Spanish, University of Southern California.*Barbara J. Mortenson, M.A., *Assistant in Spanish in the Summer Sessions.*John H. R. Polt, M.A., *Assistant in Spanish in the Summer Sessions.*Hugo Rodríguez-Alcalá, Ph.D., *Assistant Professor of Spanish, The State College of Washington.*George G. Wing, B.S., *Assistant in Spanish in the Summer Sessions.*Betty Jean Zeidner, M.A., *Assistant in Spanish in the Summer Sessions.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***S1. Elementary Spanish.**

Mr. de Ezcurdia, Mr. Polt, Mr. Allen

For beginners. Pronunciation, essentials of grammar, reading and conversation. 4 units.

M Tu W Th F, sections 1 and 2, 9-11; section 3, 1-3.

S2. Elementary Spanish (continuation of 1).

Mr. Holton, Miss Zeidner

Prerequisite: Spanish 1, or two years of high school Spanish, or the equivalent. 4 units.

M Tu W Th F, sections 1 and 2, 9-11.

S3. Intermediate Spanish (continuation of 2).

Miss Allen

Prerequisite: Spanish 2, or three years of high school Spanish or the equivalent. 4 units.

M Tu W Th F, 1-3.

101. Advanced Spanish Composition.

Mr. Morínigo

2 units.

M Tu W Th F, 10.

S131. A History of the Spanish Lexicon.

Mr. Malkiel

A brief introductory survey of the lexical strata against the background of Hispanic culture history. 2 units.

M Tu W Th F, 9.

149. Golden Age Dramas with a New World Theme. Mr. Morínigo
Sources of such plays and Spanish ideas of life in the Americas as reflected in them. 2 units.
M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates. Mr. Malkiel in charge
Restricted to senior honor students, by previous arrangement with members of the departmental staff. 1-3 units.
Hours to be arranged.

220. Juan Ruiz's *Libro de Buen Amor*. Mr. Malkiel
Interpretation of Juan Ruiz's work with emphasis on medieval literature and on Old Spanish as a literary language. 2 units.
M Tu W Th, 11.

S299. Special Advanced Study. Mr. Malkiel in charge
Restricted to candidates for higher degrees, by previous arrangement with members of the departmental staff. 1-4 units.
Hours to be arranged.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S1. Elementary Spanish. Mr. Charouhas, Miss Mortenson, Mr. Wing
For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.
M Tu W Th F, sections 1 and 2, 9-11; section 3, 1-3.

S2. Elementary Spanish (continuation of 1). Mr. Anderson, Mr. Lloyd
Prerequisite: Spanish 1, or two years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, sections 1 and 2, 9-11.

S3. Intermediate Spanish (continuation of 2). _____
Prerequisite: Spanish 2, or three years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, 9-11.

S4. Introduction to Spanish Literature. Miss Fredine
Reading and translation. Prerequisite: Spanish 3 or four years of high school Spanish, or the equivalent. 4 units.
M Tu W Th F, 9-11.

133. The Realistic Novel of the Nineteenth Century. Mr. Rodríguez-Alcalá
A study of the antecedents, origins and development of the Spanish realistic novel in the nineteenth century. 2 units.
M Tu W Th F, 10.

134. Manuel Gálvez and the Novels of the Paraguayan War. Mr. Rodríguez-Alcalá
A general study of the novelistic work of Manuel Gálvez with an analysis of his three historical novels on the Paraguayan war. 2 units.
M Tu W Th F, 11.

S199. Special Study for Advanced Undergraduates. Mr. Rodríguez-Alcalá
Restricted to senior honor students, by previous arrangement with members of the departmental staff. 1-3 units.
Hours to be arranged.

S299. Special Advanced Study.

Mr. Rodríguez-Alcalá

Restricted to candidates for higher degrees, by previous arrangement with members of the departmental staff. 1-4 units.

Hours to be arranged.

SPEECH

(Department Office, 3125 Dwinelle Hall)

Robert L. Beloof, Ph.D., *Assistant Professor of Speech.*

C. Douglas Chrétien, Ph.D., *Professor of Speech and Linguistics.*

William Fearnside, LL.B., Ph.D., *Assistant Professor of Speech.*

Don Geiger, Ph.D., *Assistant Professor of Speech.*

Richard Hagopian, M.F.A., *Assistant Professor of Speech.*

Warren Mullins, M.A., *Lecturer in Speech.*

David Rynin, Ph.D., *Professor of Speech.*

Students must have passed Subject A before taking any course in speech.

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S1A. Elements of Speech.

Mr. Fearnside, Mr. Chrétien

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. 2 units.

M Tu W Th F, section 1, 10; section 2, 11.

S1B. Elements of Speech.

Mr. Chrétien, Mr. Fearnside

2 units.

M Tu W Th F, section 1, 10; section 2, 11.

S2A. The Fundamentals of Oral Interpretation of Literature.

2 units.

Mr. Hagopian

M Tu W Th F, 9.

S2B. The Fundamentals of Oral Interpretation of Literature.

2 units.

Mr. Hagopian

M Tu W Th F, 10.

7. Extemporaneous Speaking.

Mr. Mullins

A practical course in speech composition and delivery. Designed for persons 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, section 1, 10; section 2, 11.

SECOND SUMMER SESSION COURSES

(July 30 to September 8, 1956)

S1A. Elements of Speech.

Mr. Rynin

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. 2 units.

M Tu W Th F, 10.

S1B. Elements of Speech.

Mr. Geiger

2 units.

M Tu W Th F, 11.

S2A. The Fundamentals of Oral Interpretation of Literature. Mr. Beloof
2 units.
M Tu W Th F, 10.

S2B. The Fundamentals of Oral Interpretation of Literature. Mr. Beloof
2 units.
M Tu W Th F, 11.

7. Extemporaneous Speaking.

Mr. Geiger

A practical course in speech composition and delivery. Designed for persons 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, 10.

S117A. Semantics.

Mr. Rynin

An examination of the nature and functions of language, with special emphasis on the problems of meaning. 2 units.

M Tu W Th F, 11.

STATISTICS

(Department Office, 5416 Dwinelle Hall)

Grace E. Bates, Ph.D., *Associate Professor of Mathematics, Mount Holyoke College.*

David Blackwell, Ph.D., *Professor of Statistics.*

David R. Cox, Ph.D., *Visiting Associate Professor of Biostatistics, University of North Carolina.*

Thomas S. Ferguson, A.B., *Lecturer in Statistics.*

FIRST SUMMER SESSION COURSES

(June 18 to July 28, 1956)

S12. Elements of Probability and Statistics.

Mr. Cox

For students wishing to specialize in statistics as well as for those wishing to acquire basic concepts for general education. Relative frequency. Discrete probability. Testing statistical hypotheses. Illustrations from genetics, bacteriology, industrial sampling and public health. Prerequisite: two years of high school algebra or Mathematics D. 3 units.

M Tu W Th F, 8-9:30.

13. Elementary Applications of Mathematical Statistics.

Mr. Cox

Statistics 13 is supplementary to Statistics 12. Elementary methods frequently used in applied work. Illustrations from public health, engineering, and general biological research. 1 unit.

Hours to be arranged. Preliminary meeting will be held Monday, June 18, at 9:30 a.m., in Room 287 Dwinelle Hall.

47A. Introduction to Mathematical Analysis.

Mr. Ferguson

Intended as preparation for Mathematics 150A-150B. Differential and integral calculus from a rigorous point of view. Theory of limits. Cantor's definition of real numbers. Properties of continuous functions. Riemann integration. Differentiation. Properties of linear sets. Prerequisite: Mathematics 4A-4B. 2 units.

M Tu W Th F, 1.

S295S. Individual Research Leading to Higher Degrees.

2-4 units.

The Staff (Mr. Blackwell in charge)

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)***47B. Introduction to Mathematical Analysis.**

Mr. Ferguson

Continuation of 47A. Intended as preparation for Mathematics 150A-150B. Differential and integral calculus from a rigorous point of view. Theory of limits. Cantor's definition of real numbers. Properties of continuous functions. Riemann integration. Differentiation. Properties of linear sets. Prerequisite: Mathematics 4A-4B, 47A. 2 units.

M Tu W Th F, 1.

S113. Second Course in Probability and Statistics.

Miss Bates

Continuation of Statistics 12. Expectation, variance, correlation, regression. Probability generating function. Weak law of large numbers. Elements of estimation. Cramér-Rao inequality. Basic ideas of confidence intervals. Applications. Prerequisite: Mathematics 3A-3B, or 11A-11B, or 16A-16B, and Statistics 12. 3 units.

M Tu W Th F, 8-9:30.

114. Applications of Mathematical Statistics.

Mr. Ferguson

Statistics 114 is supplementary to Statistics 113. Genetical composition of successive generations under specified systems of mating. Use of expectation, variance, correlation, regression, and estimation in genetics, engineering, biological research, public health, physics, and other fields. 1 unit.

Hours to be arranged. Preliminary meeting Monday, July 30, at 9:30 a.m., in Room 287 Dwinelle Hall.

S295S. Individual Research Leading to Higher Degrees.

2-4 units.

The Staff (Mr. Blackwell in charge)

Hours to be arranged.

SUBJECT A

(Department Office, 210 California Hall)

E. Mason Cooley, M.A., *Associate in Subject A.*Paul J. Velguth, M.A., *Associate in Subject A.*Lee E. Winters, Jr., M.A., *Associate in 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 16, at 2 p.m., and Saturday, July 28, 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.

FIRST SUMMER SESSION COURSE*(June 18 to July 28, 1956)***A. English Composition.***

Mr. Cooley, Mr. Winters

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 4 units of credit.

SECOND SUMMER SESSION COURSE*(July 30 to September 8, 1956)***A. English Composition.***

Mr. Velguth

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.

ZOOLOGY*(Department Office, 4079 Life Sciences Building)*Max Alfert, Ph.D., *Assistant Professor of Zoology.*Eugene C. Haderlie, Ph.D., *Instructor in Biological Sciences, Monterey Peninsula College.*Cadet H. Hand, Ph.D., *Assistant Professor of Zoology.*Milton Hildebrand, Ph.D., *Assistant Professor of Zoology (Davis)*George W. Salt, Ph.D., *Assistant Professor of Zoology (Davis)*Ralph I. Smith, Ph.D., *Associate Professor of Zoology.*Frances M. Weesner, M.A., *Lecturer in Zoology.***FIRST SUMMER SESSION COURSES***(June 18 to July 28, 1956)***S1A. General Zoology.**

Mr. Alfert

An introduction to the principles of biology with special reference to structure, physiology, heredity, and evolution of animals. Prerequisite: Chemistry 1A. 4 units.

M Tu W Th F, lectures, 11; laboratory, 8-11.

S10. General Biology.

Mr. Haderlie

An outline of the main facts and principles of biology with special reference to the bearing of biology upon human life. Open without prerequisite to all students, but designed for those not specializing in zoology. Not open for credit to students who have had Zoology 1A, but students who have taken Zoology 10 may elect Zoology 1A for credit. 3 units.

Lectures, M Tu W Th F, 11; demonstration laboratory, section 1, Tu Th, 10; or section 2, Tu Th, 1.

S100. Vertebrate Embryology.

Mr. Hildebrand

Details of development of the vertebrate body with emphasis in lectures on human embryology, and in laboratory on that of the chick and pig. Prerequisite: Zoology 1B. 4 units.

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

S112. Invertebrate Zoology†

Mr. Hand, Mr. Smith

The biology of invertebrate animals, with special emphasis upon marine forms. Field work, laboratory, lectures, and special reports. Given at the seashore. Prerequisite: Zoology 1A. 6 units.

Hours to be arranged; full-time residence at the seashore is necessary.

* Students registered in Subject A may not enroll for more than 4 units of credit.

† As S112 and 212 are given at the seashore, arrangements should be made in advance for a place in the class and for personal lodging. Inquiries regarding details may be addressed to Dr. Ralph I. Smith, Department of Zoology, University of California, Berkeley, 4, California. Application for admission to the Summer Session should be made on the same basis as for courses given in Berkeley, and students enrolling in these courses are expected to register in Berkeley on Saturday, June 16, and to reach the shore in time to be ready for early classes on Monday, June 18.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Alfert in charge)

Prerequisite: senior standing with at least a B average in upper division courses in Zoology; background courses in chosen subjects. 1-4 units.

Hours to be arranged.

S212. Advanced Marine Invertebrate Zoology.* Mr. Smith, Mr. Hand

Special problems in marine zoology, with emphasis upon invertebrates. Field work, lectures, laboratory, and individual problems. Given at the seashore. Prerequisite: Zoology 112 or its equivalent, graduate standing, and fitness for independent work. 4 units.

Hours to be arranged.

S224. Research.

The Staff (Mr. Alfert in charge)

Original study on special topics in laboratory, field, and museum. The work may be carried on in the laboratories at Berkeley, in the field, or at a marine station. Credit awarded according to work accomplished. 1-4 units.

Hours to be arranged.

S299. Special Study for Graduate Students.

The Staff (Mr. Alfert in charge)

Any properly qualified graduate student who wishes to pursue a problem through reading or other advanced study may do so if his proposed project is acceptable to a member of the staff.

Prerequisite: graduate status in Zoology and consent of the instructor. 1-4 units.

Hours to be arranged.

SECOND SUMMER SESSION COURSES*(July 30 to September 8, 1956)***S1B. General Zoology.**

Mr. Salt

An introduction to vertebrate zoology. Structure, function, development, and history of the vertebrate body. Prerequisite: Zoology 1A. 4 units.

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

S4. Microscopic Technique.

Miss Weesner

The preparation of animal tissues for microscopic study; methods of fixing, sectioning, and staining. Laboratory and reading. Prerequisite: Zoology 1A and elementary chemistry. 2 units.

M Tu W Th F, 1-4.

S10. General Biology.

Mr. Hand, Mr. Smith

An outline of the main facts and principles of biology with special reference to the bearing of biology upon human life. Open without prerequisite to all students, but designed for those not specializing in zoology. Not open for credit to students who have had Zoology 1A, but students who have taken Zoology 10 may elect Zoology 1A for credit. 3 units.

M Tu W Th F, lectures, 9; three conference or demonstration periods each week to be arranged.

* As S112 and 212 are given at the seashore, arrangements should be made in advance for a place in the class and for personal lodging. Inquiries regarding details may be addressed to Dr. Ralph I. Smith, Department of Zoology, University of California, Berkeley, 4, California. Application for admission to the Summer Session should be made on the same basis as for courses given in Berkeley, and students enrolling in these courses are expected to register in Berkeley on Saturday, June 16, and to reach the shore in time to be ready for early classes on Monday, June 18.

S199. Special Study for Advanced Undergraduates.

The Staff (Mr. Hand in charge)

Prerequisite: senior standing with at least a B average in upper division courses in Zoology; background courses in chosen subjects. 1-4 units.

Hours to be arranged

S224. Research.

The Staff (Mr. Smith in charge)

Original study on special topics in laboratory, field, and museum. The work may be carried on in the laboratories at Berkeley, in the field, or at a marine station. Credit awarded according to work accomplished. 1-4 units.

Hours to be arranged.

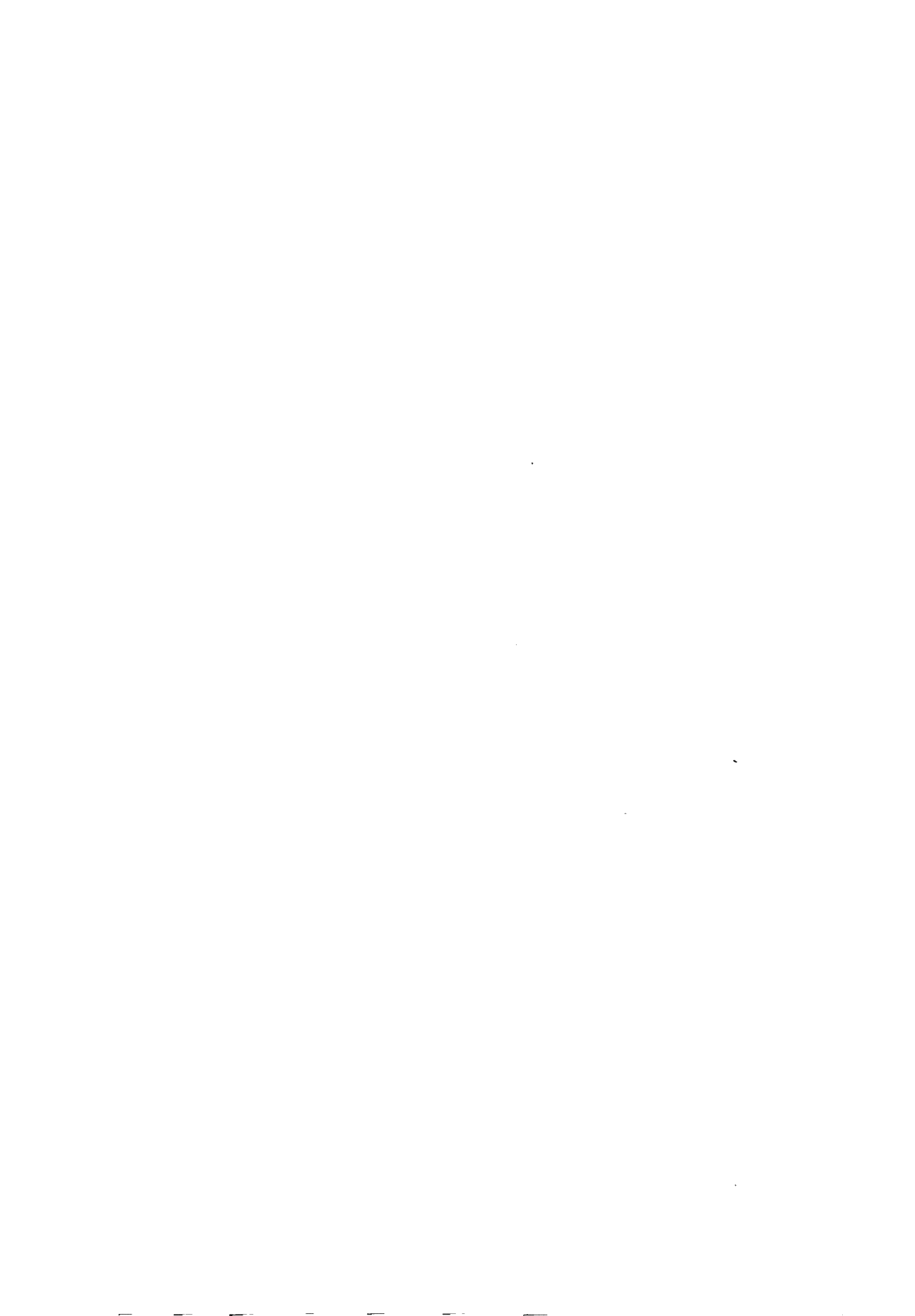
S299. Special Study for Graduate Students.

The Staff (Mr. Smith in charge)

Any properly qualified graduate student who wishes to pursue a problem through reading or other advanced study may do so if his proposed project is acceptable to a member of the staff.

Prerequisite: graduate status in Zoology and consent of the instructor. 1-4 units.

Hours to be arranged.



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BULLETIN

SUMMER SESSIONS

1956



UNIVERSITY OF CALIFORNIA
LOS ANGELES

February 10, 1956

BULLETIN

PUBLISHED AT BERKELEY, CALIFORNIA

Volume L

February 10, 1956

Number 17

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 (which supersedes the Act of July 16, 1894). Thirty-four issues a year—three times a month, January and February, and four times a month, March through September.



*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 Summer Sessions (Room 161, Administration Building), 405 Hilgard Avenue, Los Angeles 24 (Telephones: BRadshaw 2-6161 or GRanite 3-0971), or by the Office of the Summer Sessions (Room 1, Administration Building), University of California, Berkeley 4, California.

UNIVERSITY OF CALIFORNIA
LOS ANGELES

Summer Sessions

1956

SIX-WEEK SESSION

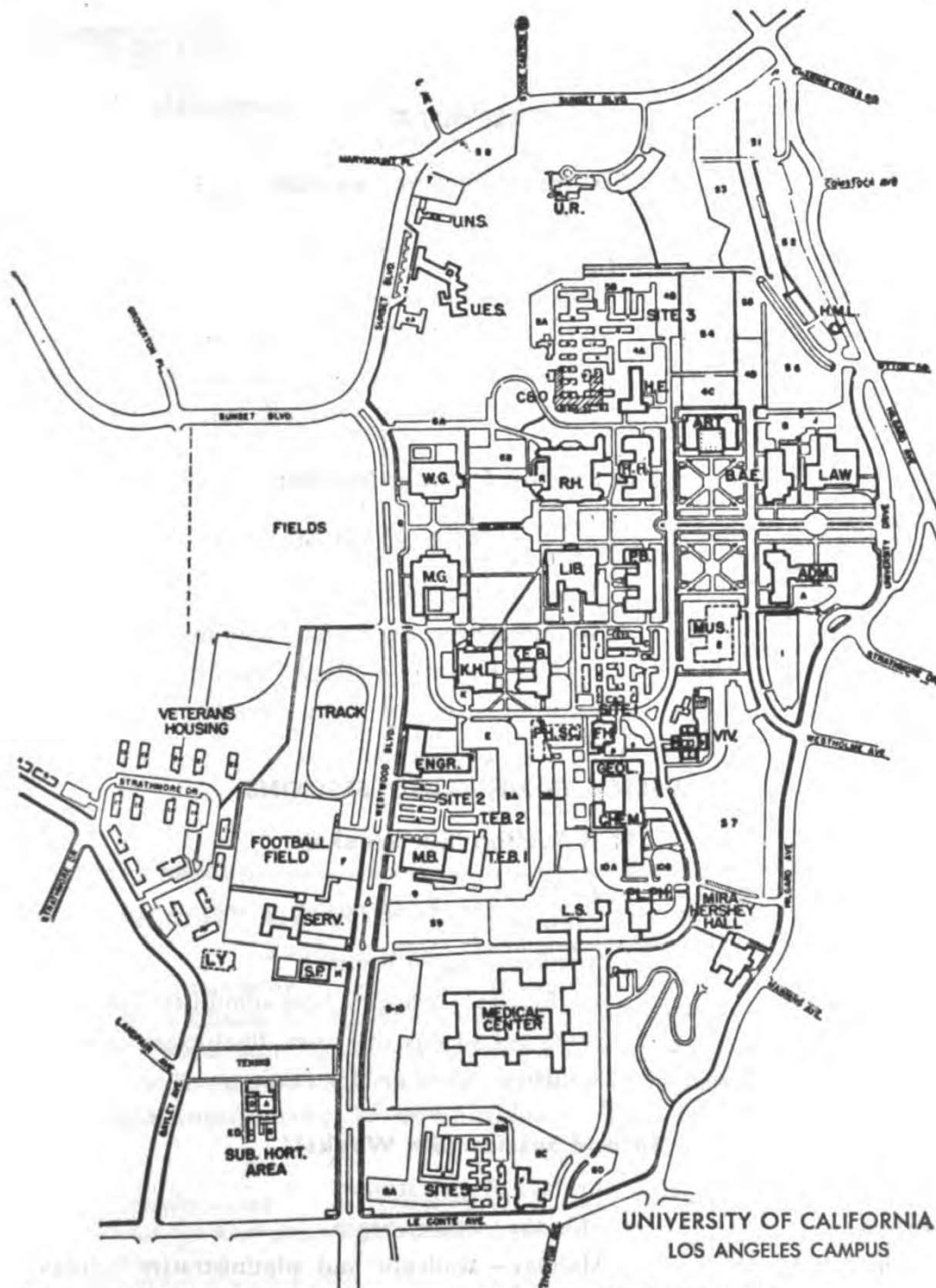
June 18 to July 27

EIGHT-WEEK SESSION

June 18 to August 10

FEBRUARY 10, 1956





UNIVERSITY OF CALIFORNIA
LOS ANGELES CAMPUS

- | | | | |
|----------------|--|-----------------------|--|
| Adm | Administration Building | MB | Mechanics Building |
| Art | Art Building | MC | Medical Center |
| BAE | Business Administration—
Economics Building | MG | Men's Gymnasium |
| C&O | Classroom and Office Building | MH | Moore Hall |
| Chem | Chemistry Building | Mus | Music Building |
| Engr | Engineering Building | PB | Physics-Biology Building |
| FH | Franz Hall | PI Ph | Plant Physiology Building |
| Geol | Geology Building | RH | Royce Hall |
| HE | Home Economics Building | TEB 1 | } Temporary Engineering
Buildings |
| HH | Haines Hall | TEB 2 | |
| HML | Home Management Laboratory | UES | University Elementary School |
| KH | Kerckhoff Hall | UNS | University Nursery School |
| Law | Law Building | Viv | Vivarium |
| Lib | Library | WG | Women's Gymnasium |
| LS | Life Sciences Building | 5A, 5B,
5C | } University Extension |

CALENDAR

Six-Week Summer Session

June 15 } { Friday } —Registration.
June 16 } { Saturday }
June 18 Monday—Classes begin.
July 4 Wednesday—Academic and administrative holiday.
July 27 Friday—Last day of classes, final examinations.
July 28 Saturday—Close of Six-Week Summer Session.

Eight-Week Summer Session

June 15 } { Friday } —Registration.
June 16 } { Saturday }
June 18 Monday—Classes begin.
July 4 Wednesday—Academic and administrative holiday.
August 10 Friday—Last day of classes, final examinations.
August 11 Saturday—Close of Eight-Week Summer Session.

SPECIAL ENGINEERING SESSIONS

First Session (Six Weeks)

June 15 } { Friday } —Registration.
June 16 } { Saturday }
June 18 Monday—Classes begin.
July 4 Wednesday—Academic and administrative holiday.
July 27 Friday—Last day of classes, final examinations.
July 28 Saturday—Close of First Session.

Second Session (Six Weeks)*

July 27 Friday—Registration.
July 30 Monday—Classes begin.
September 3 Monday—Academic and administrative holiday.
September 7 Friday—Last day of classes, final examinations.
September 8 Saturday—Close of Second Session.

* Note that this section of the calendar applies to the Department of Engineering only. See page 56.

DIRECTIONS

Six-Week Summer Session, June 18 to July 27

(Letters and Science, Applied Arts, Engineering)

Eight-Week Summer Session, June 18 to August 10

(Business Administration, Education, Law, Oceanography)

1. **On or before Monday, June 4***, file application with the Office of the Summer Sessions, Administration Building, 405 Hilgard Avenue, Los Angeles 24, California. This may be done by mail. See Application Form below. If formerly enrolled on the Los Angeles campus, enter name then recorded unless later changed by petition filed with the Registrar.

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 six-week Summer Session is permitted to carry for credit is 6 units (or 6½, if physical education is included). A student may carry 8 or 9 units in the eight-week session. If a graduate course (numbered 200-299) is included, the maximum is 4 units in the six-week session or 6 units in the eight-week session. Exceptions to these rules may be made for undergraduate students at the office of the Summer Sessions; for graduate students, only by permission of the Dean of the Graduate Division.

2. **Before Monday, June 11**, if possible, select lodgings in the vicinity of the campus (see page 22).

* May 21, for applicants who wish to register by mail. (See page 17.)

(OVER)

UNIVERSITY OF CALIFORNIA—LOS ANGELES—1956

Check

APPLICATION FOR ADMISSION

- I wish to register by mail. (See page 17.)
- Six-Week Summer Session, June 18 to July 27
- Eight-Week Summer Session, June 18 to August 10
- Special Engineering, First Session, June 18 to July 27
- Special Engineering, Second Session, July 30 to September 7

Mr.
Miss
Mrs.

.....
(Family name) (First name) (Middle name)

Mail address for answer to this Application:

.....
Permanent P. O. address:.....

.....
Mother's maiden name (for identification):.....

.....
Will you be 21 years of age or over on June 18, 1956?.....
(yes or no)

.....
Are you a high school graduate?..... Year of graduation.....
(OVER)

3. **Friday, June 15, and Saturday, June 16—Registration.** (These instructions refer to registration in person. See page 17 regarding registration by mail.): (a) Register, using the card provided for that purpose; (b) pay necessary fees*, and (c) obtain *registration card* and study list. The *registration card* is to be shown on demand to the officers in charge at class meetings, at any time during the Session. For further details regarding registration, see page 17.

4. *Regular class exercises will begin on Monday, June 18, at 8 a.m.*

5. **On or before Monday, June 25,** file your study list, duly filled out, at the Registrar's Information Window, Administration Building.

6. **Thursday, June 28,** last day to add a course to the study list. Obtain proper petition form from the Registrar.

7. **Thursday, July 5,** last day to drop a course from the study list. Obtain proper petition form from the Registrar.

8. **To obtain a transcript of record,** showing the courses taken in the session and the grade received in each: At any time during the session, leave a stamped self-addressed envelope at the Registrar's Information Window. At the close of the session this will be used to mail you an official transcript and a carbon copy thereof for your own use. If additional copies are desired, application may be made on a form to be obtained from the Registrar's Office.

9. 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.

Name of high school.....

Name of school you last attended or are now attending.....

..... Date of last attendance.....

Specify the courses in which you wish to enroll; e.g., Philosophy 1, English 114 (this information is for administrative use and changes in your plans need not be reported):

<i>Course</i>	<i>Units</i>
.....
.....

I understand that a student in the University of California, Los Angeles campus, who has been disqualified for academic reasons will not be allowed, toward graduation or reinstatement, credit or grade points earned in Summer Sessions except upon express permission of the Dean of his College.

I understand that acceptance of this Application does not admit me to a regular session of the University.

Date.....

(Applicant's Signature)

(No fee is to be paid with this Application.)

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

His Excellency, GOODWIN J. KNIGHT, A.B.
Governor of California and President
of the Regents
State Capitol, Sacramento 14

HAROLD J. POWERS
Lieutenant-Governor of California
State Capitol, Sacramento 14

LUTHER H. LINCOLN
Speaker of the Assembly
4000 Redwood rd, Oakland 19

ROY E. SIMPSON, M.A., Litt.D.
State Superintendent of Public
Instruction
721 Capitol av, Sacramento 14

ARTHUR J. McFADDEN, B.S., LL.B.
President of the State Board of
Agriculture
902 River lane, Santa Ana

WILLIAM G. MERCHANT
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4

EDWIN L. HARBACH
President of the Alumni Association of
the University of California
609 S Grand av, Los Angeles 17

ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

EDWARD A. DICKSON, B.L. (1958)
425 S Windsor blvd, Los Angeles 5

EDWIN W. PAULEY, B.S. (1970)
717 N Highland av, Los Angeles 38

BRODIE E. AHLPORT, A.B. (1956)
5657 Wilshire blvd, Los Angeles 36

EDWARD H. HELLER, A.B. (1958)
100 Montgomery st, San Francisco 4

VICTOR R. HANSEN, LL.B. (1962)
Superior Court, Courthouse,
Los Angeles 12

EARL J. FENSTON, A.B. (1964)
504 Helm bldg, Fresno 1

CHESTER W. NIMITZ, B.S., LL.D. (1956)
728 Santa Barbara rd, Berkeley 7

CORNELIUS J. HAGGERTY (1966)
995 Market st, Room 810,
San Francisco 3

JESSE H. STEINHART, A.B., LL.B. (1962)
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The University growing steadily in size, in influence and in opportunity, has expanded to eight campuses—at Berkeley, Los Angeles, San Francisco, Davis, Mount Hamilton, La Jolla, Riverside, and Santa Barbara. In addition, the University maintains a state-wide extension service. Summer Sessions are held at Berkeley, Los Angeles, Davis, San Francisco, and Santa Barbara.

The Los Angeles campus, comprising 400 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. The Pacific Ocean is five miles distant in a direct line.

The climate of Los Angeles is well suited to university work. Proximity to the ocean insures an even temperature without extremes. The warmest month of the year is August, with a mean temperature of about 68°.

For information concerning the separate colleges and schools on the Los Angeles campus of the University, write to the *Office of Admissions, University of California, 405 Hilgard Avenue, Los Angeles 24, California.*

SUMMER SESSIONS OF 1956

The Summer Sessions on the Los Angeles campus will begin Monday, June 18, the six-week session ending July 27. In the departments of Business Administration, Education, Law, and Oceanography, eight-week courses will be offered beginning June 18 and continuing until August 10.

At Berkeley there will be two Summer Sessions of six weeks each, beginning, respectively, June 18 and July 30. One Summer Session will be held at Santa Barbara College beginning June 25 and continuing for six weeks. Summer Sessions on the San Francisco and Davis campuses will begin on June 18.

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 enable service men and women to continue their educational programs. The University endeavors to make available programs of study based upon its wealth of knowledge and its full resources.

Summer Sessions are open to: (1) graduates of secondary schools regardless of age; (2) persons over twenty-one years of age of sufficient maturity and aptitude for the work they intend to undertake.

Admission

The application form on page 5 should be filed with the Office of Summer Sessions, Administration Building, 405 Hilgard Avenue, Los Angeles 24, before May 21, 1956, by those who wish to register by mail; and before June 4, 1956, by those who register in person. *No student will be permitted to register unless he has submitted an application and it has been approved.*

The University does not require a transcript of record to be submitted with an application for admission to the Summer Sessions, but such admission does not guarantee admission to the regular session. New students who plan to offer Summer Session credit toward a degree or certificate recommended by the University of California should file an application with the Director of Admissions and have transcripts filed as directed by that office. This must be done at least four weeks before the opening of the regular session which the student proposes to attend. Candidates for higher degrees or certificates will find requirements for the various colleges, schools, and the Graduate Division listed in the GENERAL CATALOGUE, in the ANNOUNCEMENT OF COURSES AND CURRICULA, DEPARTMENTS AT LOS ANGELES, and in separate bulletins of the colleges, schools, and the Graduate Division.

A student in the University of California, Los Angeles campus, who is disqualified for academic reasons, and who enrolls in the Summer Session, will be allowed credit or grade points toward reinstatement or graduation only with the express permission of the dean of the student's college.

Registration

By Mail

Registration by mail will be available to all students except veterans who expect to receive Public Law 345, Public Law 16, State benefits, and who did not attend and complete the Spring Semester, 1956, on the Los Angeles campus of the University of California.

The appropriate box on the application for admission must be checked, and the application must be filed by Monday, May 21, before registration forms and instructions can be sent.

In Person

Registration will be conducted on campus at these times:

Friday, June 15—9:00 a.m.—12:00 m.; 1:00 p.m.—3:00 p.m.

Saturday, June 16—9:00 a.m.—12:00 m.

Monday, June 18—8:30 a.m.—12:00 m.; 1:00 p.m.—3:00 p.m.

Late registrants 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

Tuition, for both residents and nonresidents of California, is \$51 for the six-week session or \$68 for the eight-week session (except for courses in the School of Law). Students taking both six-week and eight-week courses will pay only the fee for the eight-week session—\$68.

There are no laboratory fees.

Fees must be paid at the time of registration, *not in advance*; cash is preferred when fees are paid in person. Traveler's checks, Cashier's checks, and Money Orders are accepted.

Persons who wish to visit an occasional lecture may purchase 50-cent tickets for single lectures from the cashier in the Administration Building.

Any student who needs to request a refund must do so *at the time of withdrawal*. Refunds are made *only* when the registration card and fee receipt are returned, and when the reasons for withdrawal are satisfactory.

Authorized refunds are as follows:

<i>Fee</i>	<i>1st week (60%)</i>	<i>2d week (20%)</i>
\$51.00	\$30.60	\$10.20
\$68.00	\$40.80	\$13.60

No refund will be made after the second week.

Classification and Numbering of Courses

Courses in the Summer Sessions which are identical, or nearly so, with courses given during the regular session at Los Angeles are distinguished by the letter "S" prefixed to the regular number of the course.

I. UNDERGRADUATE COURSES

(1) *Lower Division Courses* are numbered 1 to 99, or sometimes indicated by letter.

(2) *Upper Division Courses* are numbered 100 to 199. Available to students who have completed prerequisites or equivalents, or have attained junior standing.

II. GRADUATE COURSES are numbered 200 to 299. To enroll in a graduate course the student must hold a bachelor's degree from a four-year college. 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.

III. TEACHERS' COURSES.—*Professional Teacher-Training Courses* are numbered 300 to 399.

IV. CERTAIN PROFESSIONAL COURSES numbered 400 to 499 are offered in Psychology.

Credit and Grades

In general, credit will be given at the rate of 1 unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of 2 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 pre-supposes 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 per class hour.

Six units is the normal program for course credit in the six-week session, and 8 units in the eight-week session. A student who includes in his program a graduate course in general may not register for more than 4 units of credit in the six-week session or more than 6 units of credit in the eight-week session, but he may exceed these limits if he is taking less than three courses. Additional credit for one-half unit of physical education may be received.

With the approval of the dean of the appropriate college, a student who is a candidate for a bachelor's degree in this University (that is, has attended regular session) may register for 9 units of degree credit, provided he is in good scholastic standing. Undergraduate students from other institutions may undertake 9-unit programs only with the approval of the Office of the Summer Sessions.

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

One Summer Session of eight weeks and a regular semester, making a total of 24 units of work, will be accepted as meeting the senior residence requirement in the undergraduate colleges.

By a general University rule, final examinations must be held in all courses unless other provisions are authorized. Usually the final examination is given at the last scheduled meeting of the class.

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 normally not permitted.*

Students are expected to complete all the work and examinations of the courses, to attend classes regularly until *the close of the Summer Sessions*, and to hand in all work by that time. No part of the work may be continued beyond the close of the Summer Sessions.

The final result of the work in every course will be reported to the Registrar by the grading system used in the regular sessions: A, excellent; B, good; C, fair; D, barely passing; E, conditioned; F, failure. It should be noted that the grade E is not normally assigned for Summer Session work.

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.

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.

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

Graduate Students

Students are warned that mere admission to graduate courses in the Summer Sessions does not constitute admission to the Graduate Division. Students who intend to pursue graduate work toward a higher degree in the University must file a formal application for admission to graduate status at the Office of the Dean of the Graduate Division with application fee of \$5. The application form and the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION, may be obtained from the Dean of the Graduate Division, University of California, 405 Hilgard Avenue, Los Angeles 24, California. For regulations governing requirements for higher degrees and for other information on graduate study, the student should consult the ANNOUNCEMENT OF THE GRADUATE DIVISION, SOUTHERN SECTION.*

Each student must file, in addition to the application for admission to the Graduate Division to work for a higher degree at this University, the application for admission to the Summer Sessions, using the form of application inserted in this bulletin. 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 status, but must hold at least a bachelor's degree from a four-year college, and must file the Summer Session application. *Unless a student has previously been admitted in regular graduate status, work done in Summer Sessions is not applicable to higher degrees from this University.*

Accepted as Graduate Courses

All courses numbered 200 to 299, 400 to 499.

* Veterans who expect to enroll under the provisions of Public Law 346 or Public Law 16 are not required to remit this fee at the time of application; if the applicant expects to enroll under Public Law 550 he should remit the fee with the application.

Accepted as Upper Division Courses on Graduate Programs

Students should consult their graduate advisers in regard to the selection of upper division courses that may be applied on the graduate program.

Veterans Affairs

The Office of Special Services maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits, and assists veterans in becoming assimilated into the life and spirit of the University. The Office is located in Room 38, Administration Building. The Los Angeles Regional Office of the United States Veterans Administration is located at 1380 South Sepulveda Boulevard. CAUTION: Public Law 346 terminates on July 25, 1956. Because complete costs for the Summer Session for P.L. 346 veterans will not be covered by the Veterans Administration, it will be necessary for educational costs to be prorated on an instructional day basis. Therefore P.L. 346 veterans planning to attend the Summer Session should be prepared to personally pay fees and educational costs, including books, supplies and equipment. Upon presentation of proper receipts, appropriate refunds may be made by the University after the expiration date of the law or date of withdrawal.

In order to enroll under the provisions of P.L. 346 (G.I. Bill) and obtain full veterans benefits, veterans must present an original or supplemental Certificate of Eligibility, register within the University's announced registration period, and file a study list. Veteran students planning to enroll in the Summer Sessions under P.L. 346, and who fall in one of the following classifications, must present a supplementary letter of eligibility: (1) continuing students, graduate or undergraduate, who expect to enroll in a new major, (2) new graduate students, (3) transfers from other institutions, from University Extension, and from other campuses of the University of California, (4) teachers who are using Summer Sessions only to establish continuity of training under subsidy and who were not in training under subsidy at this University during the summer of 1955, and (5) veteran trainees who, for any reason, did not complete the previous spring semester. School teachers who completed the Summer Session of 1955 at the University of California, Los Angeles, must present a letter signed by the employer verifying employment as a school teacher for the academic year 1955-1956.

In order to enroll under the provisions of Public Laws 16 and 894 (Rehabilitation), authorization to complete such enrollment must be obtained from the United States Veterans Administration Office and be received by the Office of Special Services prior to registration. Veterans should apply to their local United States Veterans Administration Offices in sufficient time to receive Certificate of Eligibility or proper authorization prior to registration, or be prepared to pay all expenses (tuition, fees, books, and supplies). Refunds of such expenditures may be made later to the veteran student based upon the effective date of the Certificate of Eligibility.

Korean veterans intending to receive scholarships under Public Law 550 for the first time at this University must present a Letter of Entitlement issued by the Veterans Administration. Application for such letter should be made to the local Veterans Administration Regional Office prior to the date of registration, and the letter is to be presented to the Office of Special Services immediately after registration to prevent delay in the receipt of scholarship checks.

Information regarding educational benefits available from the State of California may be obtained from the State Department of Veterans Affairs, located at 711 N Street, Sacramento, California, or by written request addressed to P. O. Box 1559, Sacramento, California, or to Room 38, Administration Building.

Physical Education

Physical examinations will be required of students taking swimming or tennis. Students enrolled in the University the preceding semester are ordinarily exempted. The examinations will be conducted for women in the Student Health Center during the first week of the Session and for men during the first three days of the Session. Appointments must be made in Medical Center A2-143A the first day of the Session.

Subject A

For students in the Summer Sessions who wish to enroll in courses in English composition or speech and who have not fulfilled requirements for Subject A (English Composition), a special examination will be given on Monday, June 18, 1 p.m. to 4 p.m., Room 147, Business Administration-Economics Building.

American History and Institutions

The American History and Institutions requirement may be met by completing any two courses from the approved list of which the following are offered during the 1956 Summer Sessions: Economics S13; History S7A, S173, S174B, S177; Political Science S1, S101, S125, S145, S146, S167A.

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.

Students preparing for credentials should consult the Credentials Counselor of the School of Education, Room 200, Moore Hall (Education Building), in order that their programs of study may be effectively planned.

The Selection and Counseling Service provides a testing program covering aptitudes for teaching and for advanced work in education. Required tests for credential candidates and for advanced degree candidates will be held on June 30 (deadline for signing up, June 22). The Graduate Record Examination will be held on July 14, 1956 (deadline for signing up, June 29). Students who have not taken any of these tests should call at Room 206, Moore Hall. Candidates for administration or supervision credentials should confer with the Faculty Adviser (Room 143, Moore Hall).

Students preparing for advanced degrees in education should report to the Office of the Dean of the School of Education (Room 231, Moore Hall) for information concerning their programs of study. Initial interviews with regard to the M.A. and M.Ed. degrees should be arranged with the Assistant Dean (Room 251, Moore Hall).

Bureau of School and College Placement

The Office of Teacher Placement is open during the Sessions in Room 123, Moore Hall. Those desiring positions in elementary schools, junior high schools, high schools, and colleges should register in this office, and pay at the Cashier's Office (Room 119, Administration Building) a fee of \$5 to cover the cost of clerical work. This fee also entitles registrants to the services of the Office of Teacher Placement on the Berkeley campus and at Santa Barbara College.

The University Library

The University Library has approximately 1,175,000 accessioned volumes and regularly receives about 14,750 periodicals and newspapers.

During the six-week session the Main Library will be open from 7:45 a.m. to 10 p.m., Monday through Thursday; from 7:45 a.m. to 5 p.m., Friday; from 9 a.m. to 5 p.m., Saturday; and from 1 to 5 p.m., Sunday. For the last two weeks of the eight-week session, it will be open from 7:45 a.m. to 5 p.m., Monday through Friday; and from 9 a.m. to 5 p.m., Saturday.

Circulation rules are posted in the Main Library. The registration card of the Summer Session student entitles him to full student privileges, including the home use of books. In accordance with the practice in regular sessions no additional library fee is required.

Students enrolled in graduate courses have access to the book stacks in the Main Library. The Graduate Reading Room provides special study facilities for graduate students and has complete facilities for reading microphotographic materials and for the use of typewriters.

An open-self collection of materials of interest primarily to undergraduate students is available in the Undergraduate Library in the Main Library Building.

The Main Library's Department of Special Collections contains rare books and rare and early pamphlets, maps, manuscripts, the University Archives, and back files of newspapers.

The Government Publications Room in the Main Library is a depository for the official publications of the United States government, the United Nations and certain of its specialized agencies, and the State of California, and also maintains extensive supplementary collections of official publications.

Branch libraries in Agriculture, Art, Biomedicine, Chemistry, Education, Engineering, English, Geology, Home Economics, Industrial Relations, Meteorology, Music, Physics, Theater Arts, and the University Elementary School are housed in the quarters of their respective departments. The Biomedical Library, situated in the east wing of the Medical Center, serves the schools of Medicine, Nursing, and Public Health and the Departments of Bacteriology and Zoology. Hours are posted and also listed in the library handbook, *Know Your Library*. Branch libraries serve primarily the schools and departments in which they are situated, but their resources are available to all students and faculty of the University.

The Law Library is housed in the Law Building and serves all students and faculty of the University.

Supplementing the University Library is the William Andrews Clark Memorial Library of about 66,000 books, pamphlets, and manuscripts, featuring English culture of the seventeenth, eighteenth, and nineteenth centuries, and the history of Montana. Materials in the library do not circulate, and admission is by card only, application for which should be made to the University Librarian. This library is not on the University campus, but is situated at 2205 West Adams Boulevard. From the Los Angeles campus, it may be reached by Metropolitan Coach Lines bus to Western Avenue, transferring to the "84" bus of the Los Angeles Transit Lines; from downtown, by the "11" bus of the Los Angeles Transit Lines. The Library is open Monday through Saturday from 8 a.m. to 5 p.m. Leaflets descriptive of the Clark Library are available upon application to the University Librarian.

Accommodations and Expenses

Single men and women may obtain housing accommodations in private homes, in privately owned residence halls and cooperatives, and in the fraternities and sororities. Single women may also obtain campus board and room accommodation in Mira Hershey Hall, the only University-owned residence hall.

A limited number of apartments for those married veteran students who have at least one child, will be available in the Veterans Emergency Housing project on the campus.

A map listing the addresses of residence halls, cooperatives, sororities, and fraternities offering accommodations (not for married couples) in the area near the University will be ready for distribution on May 14, 1956, and will be mailed on request. Up-to-date listings of accommodations in private homes and apartments are also available at the Housing Office; however, arrangements for such facilities cannot be made by mail but must be made in person with the landlord. Meals may be obtained in the Cafeteria of the Student Union Building, Kerckhoff Hall, or at any one of the many restaurants in Westwood Village adjoining the campus. Applications for women who wish to reside in Mira Hershey Hall, and information concerning all other living accommodations may be obtained by calling in person or writing to the Housing Office, Room 169, Administration Building, University of California, 405 Hilgard Avenue, Los Angeles 24, California.

The following table will help to estimate the expenses, apart from transportation to Los Angeles, of attending the six-week Summer Session.

	<i>Minimum</i>	<i>Maximum</i>
Summer Sessions tuition fee.....	\$51.00	\$68.00
Board and room	105.00	140.00
Textbooks and stationery	5.00	15.00
Miscellaneous	5.00	12.00
Total	\$166.00	\$218.00

The U.C.L.A. Students' Store carries all textbooks for courses offered in the Summer Sessions, stationery, and other supplies.

Y.W.C.A.

(Residence for Women, Meals for Men and Women)

The building of the University Young Women's Christian Association, at 574 Hilgard Avenue near the east campus entrance, will be open during the eight weeks of the Summer Sessions to women students. Dormitory sleeping accommodations at a reasonable rate for 34 women, preferably attending the eight-week session, are available. A member of the staff will be on duty during this period. All resident students will become members of the eating cooperative. Meals cost \$7.50 per week plus a minimum work schedule of three hours per week.

Thirty-four men may join the eating cooperative and obtain three meals per day, Monday breakfast through Saturday lunch, at the University Y.W.C.A. Of necessity, preference will be given to those attending the eight-week session. The price of meals is \$7.50 per week plus a minimum work schedule of three hours a week.

Contracts for residence and meals may be obtained at the Y.W.C.A. Office, 574 Hilgard Avenue.

Transportation

Bus lines operated by the Metropolitan Coach Lines and Santa Monica Municipal Bus companies connect Pershing Square, Pico, Wilshire, Beverly, Sunset, and Hollywood boulevards and districts of Santa Monica, Ocean Park, Venice, Brentwood Heights, West Los Angeles, Cheviot Hills, Culver City and Palms with the University.

Summer Schools for Children

A *Demonstration School*, consisting of nursery school, kindergarten, and grades one to six, will be maintained during six weeks (June 25 to August 3) of the eight-week Summer Session for the purpose of demonstrating the functions and operation of a modern elementary school. The school activities may be observed by teachers, supervisors, administrators, and others enrolled in Summer Session classes. Such observation will form the basis of conferences and discussion. See page 55.

A *Clinical School* of six weeks, June 18 to July 27, will be conducted by the Department of Psychology for children and adults of normal intelligence who have difficulty with reading, mathematics, or other school subjects. Members of the class in Psychology S167B, Laboratory in Remedial Techniques, will be given opportunity to learn the application of remedial techniques in basic school subjects by observation and assistance in the classrooms. See page 55.

Extracurricular Activities

A series of musical events, using both student and faculty talent, is being planned for the summer.

The Women's Gymnasium and the Men's Gymnasium provide facilities for sports and recreation. Swimming pools, tennis courts, handball courts, and fields for other sports and activities are available, except when used by regularly scheduled classes.

Recreational evenings are planned to include social, folk, and square dancing, games, swimming, and sports for all Summer Session students. Also, special lectures on various topics, open to the public without charge, will be given each week.

Students' Mail

The University has no regular facilities for handling students' mail; however, if it is absolutely necessary for a student to receive mail on the campus, it should be addressed as follows:

Name, Summer Session Student
Kerckhoff Hall, Post Office, University of California
405 Hilgard Avenue, Los Angeles 24, California

UNIVERSITY EXTENSION OFFERINGS**CLASSES****Folk Arts of the Pan Pacific****(Three weeks) June 18—July 6**

Dr. Mantle Hood, the Folklore Group of the University, and an outstanding panel of specialists will present an integrated series of lectures and feature events devoted to select areas of the western seaboard of the Americas, certain island groups of the Pacific and the eastern seaboard of Asia. Among the folk studies to be covered in the three-week course are music, dance, drama, plastic arts, folktales, crafts, and folk medicine. Credit: 2 units.

Workshop for Educational Secretaries**(1 week) July 23—July 27**

The lectures and discussions in the workshop will be devoted to the study of secretarial functions and responsibilities in school administration. Among

the topics to be included are records administration, shorthand and typing techniques, student body finance, supervisory techniques and office management, etc. Credit: 1 unit.

The Golden Renaissance:

Its Arts, Literature, and Civilization—(Three weeks) July 9–July 27

The fourteenth through the sixteenth centuries marked one of the greatest surges of cultural and scientific advancement in the entire history of man. To interpret the many facets of this period, University Extension has chosen a group of outstanding University faculty members and distinguished visitors for a specially planned invitation to learning. To enhance your artistic, literary, and historical insight, the University will also offer concerts, selected films and a tour of one of the finest private museums on Renaissance materials. Credit: 2 units.

COURSES IN EDUCATION

X173SC. Science in the Secondary School Curriculum.

Includes practical discussions of significant trends in the science curriculum; construction of regular and special science courses and sequences; provisions for atypical individuals and groups; relation of the science curriculum to other curricula; place of experimentations and demonstrations; and values and limitations of visual and supplementary aids.

X369AB. The Teaching of Driver Education and Driver Training.

Materials and equipment for classroom instruction and behind-the-wheel training; tests; objectives; liability and insurance; records and reports; problems of administration. Intended as a partial fulfillment of credential requirement.

X369CD. The Teaching of Public Safety and Accident Prevention.

Methods of organizing safety work in elementary and junior high schools and curriculum phases related to safety and accident prevention. Problems and historical background of traffic safety; pedestrian safety; work of community agencies engaged in accident prevention. Intended as partial fulfillment of credential requirement.

X329CD. Leadership Training for Parent Education.

Demonstration and practice in leadership of discussion groups. A variety of techniques examined, including the use of role-playing, panels, and films. Materials are those prepared for the discussion program "Parenthood in a Free Nation" by Ethel Kawin, Director of the University of Chicago Parent Education Project.

For further information on the classes listed above, write University of California Extension, Los Angeles 24, California.

These offerings are available to Summer Session students and others upon the payment of fees to be announced.

CONFERENCES

Family Financial Security Education Workshop

(Six weeks) June 18–July 27

Designed to prepare experienced teachers in the subject matter, materials, and methods useful in the development of a program for teaching information and understandings about family financial security. Six units of upper division

credit may be earned. Full details may be secured by writing to Mr. E. M. Keithley, Department of Business Education, University of California, Los Angeles 24. Applicants accepted will receive a room-and-board scholarship for the six-week session. Enrollment will be accepted only upon prior approval of the workshop staff and is limited to 40 students. The tuition fee for the session is \$54.

International Workshop on Human Relations in the Pacific Area

(Six weeks) June 20–July 31

Will include field trips, lectures, small group discussions, etc., and will be open to selected civic and education leaders of Japan, the Philippines, India, Pakistan, Mexico, Canada, Hawaii, the United States and other states bordering the Pacific Ocean. The credit is 6 units. The fee, including room and board, will be \$250. The workshop will be led by Mr. Stewart C. Cole and an international staff.

Western Training Laboratory on Group Development

(Two weeks) August 19–August 31

Recommended specifically for persons who have group work responsibilities. The location for the conference will be on the Santa Barbara campus of the University. Tuition, board and room—\$225 (\$150 tuition plus \$75 room and board).

For further information on the conferences listed above, write Department of Conferences and Special Activities, University Extension, University of California, Los Angeles 24.

These offerings are available to Summer Session students and others upon the payment of the above listed fees.

COURSES OF INSTRUCTION SUMMER SESSIONS, 1956

ANTHROPOLOGY AND SOCIOLOGY

Joseph B. Birdsell, Ph.D., *Associate Professor of Anthropology.*

Clement W. Meighan, Ph.D., *Assistant Professor of Anthropology.*

Richard T. Morris, Ph.D., *Assistant Professor of Sociology.*

C. Wilson Record, Ph.D., *Assistant Professor of Sociology, Sacramento State College.*

Calvin F. Schmid, Ph.D., *Professor of Sociology, University of Washington.*

Councill Taylor, Ph.D., *Instructor in Anthropology.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Anthropology

Prerequisite for all upper division courses: Anthropology 1, 2, or upper division standing.

S1. General Anthropology: Physical and Biological Factors. Mr. Birdsell

Human biology and physical anthropology; the relation of man and the animals; the origin and antiquity of man; fossil man; anthropometry; the criteria of race and racial classification; current racial theories; race problems. 2 units.

M Tu W Th F, 9.

S2. General Anthropology: Cultural Factors.

Mr. Taylor

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, 10.

S102. Ethnology.

Mr. Taylor

Major theories of culture; survey of principal culture types and their distribution; discussion of ethnological problems. 2 units.

M Tu W Th F, 9.

S147. Peoples of the Pacific.

Mr. Birdsell

The aboriginal civilization 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, 11.

197. Field Training in Archaeology.

Mr. Meighan

Introduction to archaeological field methods, involving participation in actual site excavation during the entire session. Recording and mapping of archaeological sites; photography; recovery of archaeological specimens; cataloging, preservation, and restoration of archaeological finds; archaeological records and reports. Prerequisite: consent of the instructor. 4 units.

To be conducted in the field, not on the campus.

S199. Special Problems in Anthropology.

Mr. Birdsell in charge

Prerequisite: consent of the instructor. 1-4 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

- 297. Graduate Field Training in Archaeology.** Mr. Meighan
Administration of archaeological field work; practical problems in stratigraphy and seriation based on material recovered in the field; preparation of archaeological reports for publication. Each student will be expected to undertake an individual project, either in analyzing field collections from the major excavation or in supervising the excavation and reporting of smaller sites in the region. Prerequisite: graduate standing, Anthropology S197 or its equivalent, and consent of the instructor. 4 units.
To be conducted in the field, not on the campus.

- S299. Research in Anthropology.** Mr. Birdsell in charge
1-6 units.
Hours to be arranged.

Sociology

Prerequisite for upper division courses: Sociology 1 or 101 or their equivalent and upper division standing. S142 requires only upper division standing.

- S1. Introductory Sociology.** Mr. Morris
Not open to students who have credit for courses 1A or 3.
Survey of the characteristics of social life, the processes of social interaction, and the tools of sociological investigation. 2 units.
M Tu W Th F, 11.
- S120. Social Disorganization.** Mr. Record
A survey of the forms and incidence of social maladjustment, and an inquiry into the social factors which generate maladjustment. 2 units.
M Tu W Th F, 10.
- S142. Marriage and the Family.** Mr. Record
The marriage-family system; development, modern functions, characteristics, and maladjustments. 2 units.
M Tu W Th F, 8.
- S143. Urban Sociology.** Mr. Schmid
Urban and rural cultures; the characteristics of cities in Western civilization with emphasis on the American metropolis. 2 units.
M Tu W Th F, 11.
- S161. Group Processes.** Mr. Morris
Systematic study of the formation, structure, and functioning of groups; analysis of group processes and group products from a variety of theoretical viewpoints; implications of various research techniques. 2 units.
M Tu W Th F, 9.

- 179. Graphic Techniques in the Social Sciences.** Mr. Schmid
Theory and practice of presenting statistical data in graphic form. Construction of bar, line, pictorial, and other types of charts and graphs, and areal distribution maps, etc., used for research and teaching in the social sciences and related fields. Prerequisite: consent of the instructor. Enrollment restricted to 20. 2 units.
M W F, 1, lecture; Tu Th, 1, 2, laboratory.

S199. Special Problems in Sociology.

Mr. Morris in charge

Prerequisite: open to seniors who have had 6 units of upper division courses in sociology with grades of B or above, and consent of the instructor. 1-4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S299. Research in Sociology.

Mr. Morris in charge

1-6 units.

Hours to be arranged.

ART

Sam Amato, B.F.A., *Instructor in Art.*

Phyllis Beacom, M.A., *Associate in Art.*

Karl M. Birkmeyer, Ph.D., *Assistant Professor of Art.*

Donald W. Chipperfield, M.A., *Associate in Art.*

Gibson A. Danes, Ph.D., *Professor of Art.*

Alice M. Everett, M.A., *Assistant Professor of Art.*

Thomas Jennings, M.A., *Associate Professor of Art.*

Bernard Kester, M.A., *Instructor in Art, Los Angeles City College.*

Rico Lebrun, *Visiting Professor of Art.*

Olga M. Richard, A.B., *Associate in Art.*

Jack D. Stoops, M.A., *Assistant Professor of Art.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S2A. Beginning Drawing and Painting.

Mr. Amato

2 units.

M Tu W Th F, 8-10.

S3A. Intermediate Drawing and Painting.

Mr. Amato

2 units.

M Tu W Th F, 8-10.

S5A. Fundamentals of Art.

Mr. Danes

Definitions of art, terminology, types of approach, design and meaning, color theory, appreciation of art. 2 units.

M Tu W Th F, 11.

S6A. Beginning Design.

Mrs. Beacom

Fundamental course in elements of art, and the principles involved in their use in creative design. 2 units.

M Tu W Th F, 10-12.

S7A. Intermediate Design.

Mr. Chipperfield

Application of fundamental art principles to three-dimensional form through experimental and creative studies in a variety of materials and varied spatial constructions. 2 units.

M Tu W Th F, 10-12.

S21A. Apparel Analysis.

Miss Everett

A discussion of clothing as an art form and as creative expression. Study of line, color, pattern, and texture in relation to the individual pictorial and psychological composition. No prerequisite. 2 units.

M Tu W Th F, 1-3.

S104A. Renaissance and Baroque Art.

Mr. Birkmeyer

Art and architecture from the Proto-Renaissance to end of the High Renaissance. Prerequisite: course 1A and 1B or consent of the instructor. 2 units.

M Tu W Th F, 9.

S108B. Modern Art.

Mr. Birkmeyer

Post-Impressionism and the contemporary movements in art, architecture and the fields of domestic, industrial and commercial art. 2 units.

M Tu W Th F, 3.

S134. Landscape Painting.

Mr. Amato

Selection of subject themes and their transformation in landscape painting. 2 units.

M Tu W Th F, 1-3.

S135. Advanced Painting.

Mr. Lebrun

Individual development in painterly concept, technical competence, control of pictorial order. Prerequisite: consent of the instructor. 2 units.

M Tu W Th F, 10-12.

S140A-S140B. Advertising Art.

Mr. Jennings

Development of concepts of design in visual advertising; lettering for reproduction; typography and layout. Prerequisite: courses 6A, 6B and 7A or consent of the instructor. 2 units.

M Tu W Th F, 8-10.

S145A. Advanced Advertising Art.

Mr. Chipperfield

Preparation of creative design material employing graphic and photographic techniques for reproduction processes. Prerequisite: course 140B. 2 units.

M Tu W Th F, 1-3.

S146. Illustration.

Mr. Jennings

The illustrative approach to prose, poetry, drama, and the advertising text. Prerequisite: course 128A or 44. 2 units.

M Tu W Th F, 8-10.

S152A. Interior Design.

Mrs. Beacom

Creative solutions to specific problems in interior design; a consideration of the home as a functional unit, including an analysis and application of current trends and materials and their uses. Prerequisites: courses 6A, 6B and 7A or consent of the instructor. 2 units.

M Tu W Th F, 1-3.

S158A-S158B. Advanced Interior Design.

Mrs. Beacom

The design of domestic and commercial interiors with limitations as to function, budget, and climate. Prerequisite: consent of the instructor. 2 units.

M Tu W Th F, 1-3.

S163A-S163B. Modern Costume Design.

Miss Everett

Integration of past experiences in art structure with new problems of clothing design; basic construction lines as fundamental; emphasis upon creative ideas within the limitations imposed by specific fabrics. Prerequisite: courses 6A, 6B and 7A or consent of the instructor. 2 units.

M Tu W Th F, 8-10.

S169A. Advanced Costume Design.

Miss Everett

Prerequisite: consent of the instructor. 2 units.

M Tu W Th F, 8-10.

S170A or 170B. Ceramics.

Mr. Kester

An analysis of form, function, and decoration in ceramics, with emphasis on materials and their use. Empirical method of glaze calculation and methods of vitrification. 2 units. Prerequisite: courses 6A, 6B, 7A or consent of the instructor.

M Tu W Th F, 10-12.

S176A-S176B. Weaving.

Mr. Kester

Relations of woven fabrics to world cultures: theory of creative design as applied to the woven fabric; research and experiments in weaving methods; study of fibers; fabric analysis. 2 units.

Lectures, demonstrations, studio work, quiz, field trips.

M Tu W Th F, 8-10.

S180. Advanced Design in Three Dimensions.

Mr. Chipperfield

Experimental work in three dimensions; theories of design; exploration of abstract principles of space and form. Prerequisite: courses 6A, 6B and 7A or consent of the instructor. 2 units.

M Tu W Th F, 10-12.

191. Creative Design for Teachers.

Mr. Stoops

A special course to provide laboratory opportunity for art teachers to work creatively with many materials in both two and three-dimensional design appropriate for public school art teaching. 2 units.

M Tu W Th F, 10-12.

S199A or B. Special Studies in Art.

Prerequisite: senior standing and an average grade of B or higher in the student's specified major. 1-4 units.

Sec. 1. History of Art

Sec. 2. Painting, Graphic Arts

Sec. 4. Interior Design

Sec. 5. Costume Design

Sec. 6. Applied Design

Sec. 8. Teaching of Art

Hours to be arranged.

Mr. Birkmeyer

Mr. Amato

Mrs. Beacom

Mrs. Beacom

Mr. Kester

Mr. Stoops

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S201. Bibliography and Research Methods.

Mr. Danes

2 units.

Hours to be arranged.

S290. Research Projects in the Arts.

The Staff

Advanced creative work, a course designed for candidates for the degree of Master of Arts. Prerequisite: permission of the department. 4 units.

Hours to be arranged.

S299A or B. Special Studies for Graduate Students.

1-4 units.

Sec. 1. History of Art

Sec. 2. Painting, Graphic Arts

Sec. 4. Interior Design

Mr. Birkmeyer

Mr. Amato, Mr. Lebrun

Mrs. Beacom

Sec. 5. Costume Design
 Sec. 6. Applied Design
 Sec. 8. Teaching of Art
 Hours to be arranged.

Mrs. Beacom
 Mr. Kester
 Mr. Stoops

PROFESSIONAL COURSES IN METHOD

S330. Industrial Arts for the Elementary Grades. Mrs. Richard
 Analysis of the aims, scope, and psychology of the industrial arts program;
 experience in activities embodying the basic concepts of the program. 2 units.
 Sec. 1: M Tu W Th F, 8-10.
 Sec. 2: M Tu W Th F, 10-12. (Kindergarten-Primary)

S370A. Principles of Art Education. Mr. Stoops
 A study of objectives and general educational principles as related to art
 education. Prerequisite: junior standing. 2 units.
 M Tu W Th F, 1-3.

S370B. Principles of Art Education. Mr. Stoops
 A study of method and the curriculum in art education. Prerequisite:
 course 370A. 2 units.
 M Tu W Th F, 1-3.

ASTRONOMY

Paul E. Wylie, C.E., *Lecturer in Astronomy and Engineering.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S1A. Elementary Astronomy. Mr. Wylie
 An introductory survey course in the general principles and the funda-
 mental facts of astronomy for nontechnical students. 2 units.
 M Tu W Th F, 9.

S10. Celestial Navigation. Mr. Wylie
 The determination of position and the solution of allied problems of celes-
 tial navigation, both at sea and in the air; the use of the *Air Almanac*, the
Nautical Almanac, modern tables and graphs, and the marine and bubble
 sextants; and the identification of the naked-eye stars and planets. 2 units.
 M Tu W Th F, 11.

BACTERIOLOGY

M. J. Pickett, Ph.D., *Associate Professor of Bacteriology.*
 Anthony J. Salle, Ph.D., *Professor of Bacteriology.*
 Henry A. Walch, Jr., Ph.D., *Instructor in Microbiology, San Diego State Col-
 lege.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Bacteriology

S1. Introductory Bacteriology and Microbiology. 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 or the equivalent. Students who have credit for course 6 will receive only 3 units for course S1. 4 units.

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

S6. General Bacteriology.

Mr. Salle

A cultural course for nontechnical students. Not open to students who have credit for course 1. 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: course 1 or the equivalent. Limited to 48 students and subject to the approval of the instructor. 5 units.

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

Tu W Th, lecture, 1.

S105. Serology.

Mr. Walch

The theory and practice of serological methods. Prerequisite: Bacteriology 103. Limited to 16 students and subject to the approval of the instructor. 4 units.

M W F, lecture, 12; laboratory, M W F, 1-5, Tu Th, 12-5.

S195. Proseminar.

Mr. Salle

Library problems. Prerequisite: course 103 or the equivalent. 2 units. Hours to be arranged.

S199A or S199B. Problems in Bacteriology.

Mr. Salle

Prerequisite: consent of the instructor. 2 units.

Hours to be arranged.

Microbiology

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S293A or S293B. Research in Microbiology.

Mr. Salle

2-4 units.

Hours to be arranged.

BOTANY

Frederick T. Addicott, Ph.D., *Professor of Botany.*

Carl C. Epling, Ph.D., *Professor of Botany.*

Karl C. Hamner, Ph.D., *Professor of Botany.*

Anton Lang, Ph.D., *Associate Professor of Botany.*

Mildred E. Mathias (Mildred Mathias Hassler), Ph.D., *Assistant Professor of Botany.*

John S. Mooring, Ph.D., *Instructor in Botany, State College of Washington.*

Bernard O. Phinney, Ph.D., *Associate Professor of Botany.*

Flora Murray Scott, Ph.D., *Professor of Botany.*

Henry J. Thompson, Ph.D., *Assistant Professor of Botany.*

Sam G. Wildman, Ph.D., *Associate Professor of Botany.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S1. General Botany.**

An introduction to the plant sciences. 5 units.
M Tu W Th, 12-2, lecture; M Tu W Th, 2-5, laboratory.

Mr. Mooring

S199A. Problems in Botany.

Prerequisite: senior standing. 2-4 units.
Hours to be arranged.

The Staff

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S278A. Research in Botany.

2-4 units.
Hours to be arranged.

The Staff

BUSINESS ADMINISTRATION

William F. Brown, Ph.D., *Associate Professor of Marketing.*

Elwood S. Buffa, M.B.A., *Lecturer in Production Management.*

Robert Wendell Buttrey, A.B., C.P.A., *Lecturer in Accounting.*

John G. Carlson, M.B.A., *Lecturer in Production Management.*

A. B. Carson, Ph.D., *Associate Professor of Accounting.*

James M. Gillies, Ph.D., *Assistant Professor of Real Estate and Urban Land Economics.*

S. Michal Ingraham, M.B.A., *Associate in Business Administration.*

Paul Kircher, Ph.D., *Associate Professor of Accounting.*

Wayne L. McNaughton, Ph.D., *Associate Professor of Personnel Management and Industrial Relations.*

Anelise N. Mosich, M.B.A., *Assistant in Business Administration.*

Frank E. Norton, Jr., Ph.D., *Assistant Professor of Business Economics.*

Irving Pfeffer, Ph.D., *Assistant Professor of Insurance.*

George W. Robbins, M.B.A., *Professor of Marketing.*

R. Clay Sprowls, Ph.D., *Assistant Professor of Business Statistics.*

William F. Stanton, Jr., Ph.D., *Acting Assistant Professor.*

Leon C. Steres, B.S., C.P.A., *Lecturer in Accounting.*

Ben B. Sutton, Ph.D., *Associate Professor of Economics and Finance, University of Minnesota.*

EIGHT-WEEK COURSES*(June 18 to August 10, 1956)*

Business Administration 1A-1B and Economics 1A-1B are prerequisite to all upper division courses.

S1A. Elementary Accounting.

Mr. Steres

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, 8, lecture; Tu Th, 1, 2, laboratory.

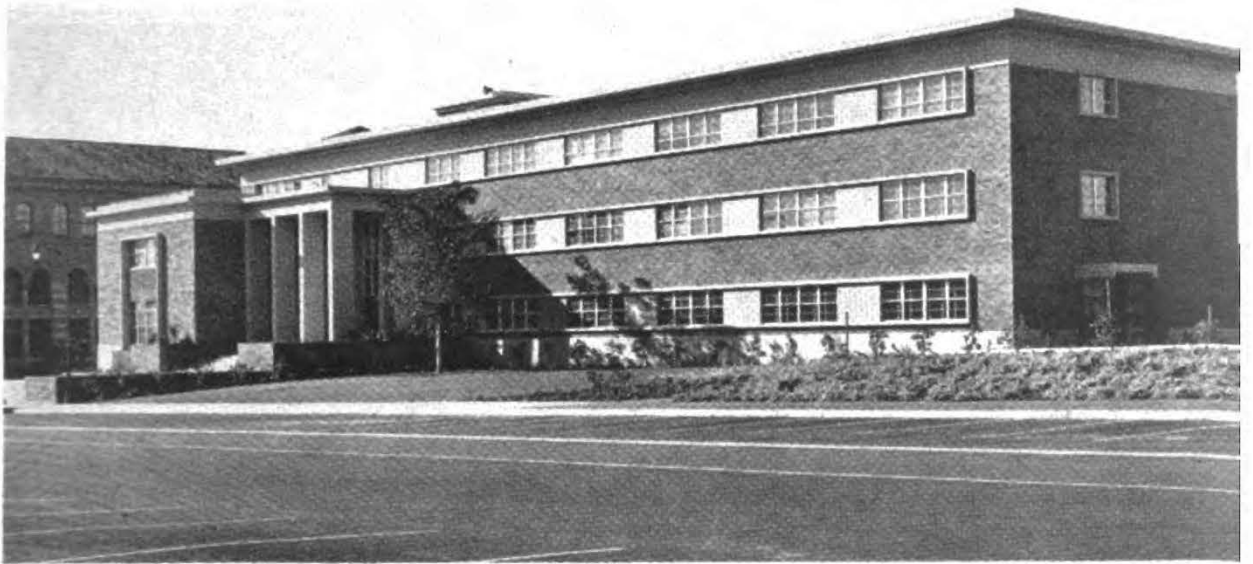


Above—Looking east toward the campus

Below—The new Chemistry-Geology Building on the Court of Science



The auditorium and many classrooms are located in Royce Hall



Above—Modern homemaking facilities and a cafeteria are situated in the new Home Economics Building

Below—A 164-foot mosaic mural portrays the history of music on the new Music Building



Entrance to the Willitts J. Hole Art Gallery in the Art Building

S1B. Elementary Accounting.

Mr. Kircher

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, 11, lecture; M W, 1, 2, laboratory.

S100. Theory of Business.

Mr. Gillies

Effort of the enterprise to secure profits, nature of demand for its products. Costs and production. Allocation of resources through competition. Forms of market competition. Relation of size to efficiency. Markets for productive factors. Incentives and growth. 3 units.

M Tu W Th F, 9.

S101. Business Fluctuations and Forecasting.

Mr. Norton

How the enterprise reacts to general economic fluctuations and how its decisions, in turn, affect them. Important forces in past fluctuations. Behavior of indices of business activity. Appraisal of forecasting techniques. Entrepreneurial and public policies to mitigate business fluctuations. Prerequisite: course 100. 3 units.

M Tu W Th F, 11.

S105A. Business Law.

Mr. Stanton

Law in its relationship to business. Contracts, agency, and property. 3 units.

M Tu W Th F, 10.

S105B. Business Law.

Mr. Stanton

Bailments, sales, negotiable instruments, and business organizations. Prerequisite: course 105A. 3 units.

M Tu W Th F, 11.

S115. Business Statistics.

Mr. Sprowls

Sources of statistical data; construction of tables, charts, and graphs; statistical distributions and their measurement; introduction to probability theory, market analysis, consumer sampling, and quality control; index numbers; correlation; time-series analysis; trend, seasonal, business cycles; business forecasting; statistics of national income. Students who have credit for Economics 140 will receive no credit for this course. 3 units.

M Tu W Th F, 9, lecture; M W, 1, 2, laboratory. Clinic to be arranged.

S120. Intermediate Accounting.

Mr. Mosich

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, 11, alternate F, 3.

S121. Advanced Accounting.

Mr. Mosich

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. Prerequisite: course 120. 3 units.

M Tu W Th F, 10, alternate F, 2.

S122. Cost Accounting.

Mr. Carson

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. Prerequisite: course 120. 3 units.

M Tu W Th F, 10.

S127. Federal Tax Accounting.

Mr. Buttrey

A study of the current federal revenue acts as relating to individual partnership, and corporation income taxation. Prerequisite: course 121. 3 units.
M Tu W Th F, 8.

S133. Investment Principles and Policies.

Mr. Sutton

Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of investment companies and investing institutions; relation of investment policy to money markets and business fluctuations; security price-making forces; construction of personnel investment programs. 3 units.

M Tu W Th F, 11.

S135. Principles of Insurance.

Mr. Pfeffer

Basic principles of risk and insurance and their applications to business management and personal affairs. Analysis of concepts and methods of handling risks; insurance carriers, contracts, and underwriting; loss prevention and settlement; government insurance programs; economic functions of insurance. 3 units.

M Tu W Th F, 9.

S140. Elements of Production Management.

Mr. Carlson

Principles, methods, and procedures related to the efficient utilization of resources in production. Specialization of process and labor; product and process analysis; production planning and control; materials procurement and control; methods improvement; time study; wage determination; selection of plant location; layout planning; production organization. 3 units.

M Tu W Th, 10, lecture; M W, 1, 2, laboratory, section 1; Tu Th, 1, 2, laboratory, section 2.

S150. Elements of Personnel Management.

Mr. McNaughton

A critical examination of the principles, methods, and procedures related to the effective utilization of human resources in organizations. Historical development and objectives of personnel management, individual differences, labor budgeting, job analysis, recruitment selection, placement training, transfer and promotion, wage and salary administration, hours of work, accident prevention, employee health, personnel services, motivation and morale, management-union relations. 3 units.

M Tu W Th F, 10.

S152. Leadership Principles and Practice.

Knowledge and skills leading to effectiveness in interpersonal relations. Understanding one's self as a leader, and others as individuals and as members of working groups. Understanding of group process, including group leadership. Practice in methods and procedures available to managers in effectively dealing with subordinates, peers, and superiors.

Required of all students specializing in personnel management and industrial relations.

Limited enrollment: 25 students. 3 units.

M Tu W Th, 2, 3.

S160. Elements of Marketing.

Mr. Robbins

A survey of the major marketing methods, institutions, and practices. The subjects of retailing, wholesaling, distribution channels, marketing legislation, advertising, cooperative marketing, pricing, marketing research, and marketing costs are treated from the standpoint of consumers, middleman, and manufacturers. 3 units.

M Tu W Th F, 11.

S162. Retail Store Management.

Mr. Brown

A study of retailing from the standpoint of management. Includes the case-method treatment of such problems as buying, sales promotion, inventory planning and control, pricing, style merchandising, and general management problems. Prerequisite: course 160. 3 units.

M Tu W Th F, 8.

S180. Elements of Real Estate and Urban Land Economics.

Mr. Gillies

Basic elements which influence managerial policy in the urban real estate field; and analysis of major influences affecting city location and growth; major elements of policy in appraising, managing, financing, marketing, developing, and subdividing urban property; the role of private and government institutions in influencing the use of urban land. 3 units.

M Tu W Th F, 8.

S190. Organization and Management Theory.

Mr. Norton

A study of the principles of business management. Emphasis is placed upon the application of these principles to the general, as distinguished from the functional, management of enterprise by means of readings and case studies. Prerequisite: second semester senior standing. 3 units.

M Tu W Th F, 9; laboratory, M W, 10, section 1 (Mrs. Ingraham); laboratory, M W, 12, section 2 (Mrs. Ingraham).

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S224. Accounting Data for Management Purposes.

Mr. Kircher

A study of accounting procedures to provide management with data to make decisions; types of data required for planning and control; availability and reliability of such data in accounting systems; provision of special purpose data; conditions of good internal reporting. 3 units.

M W, 3, 4.

S229. Seminar in Accounting Theory.

Mr. Carson

A survey of accounting literature, with emphasis on the development of basic accounting concepts. An attempt is made to explain contemporary practice as it has evolved in accordance with basic theory and expanding demands for accounting information. 3 units.

Tu Th, 1, 2.

S232. Problems of Business Finance.

Mr. Sutton

Application of principles of finance to the financial management of business enterprises. The program includes reading assignments on principles and methods of finance and individual student reports of financial problems of particular importance. 3 units.

Tu Th, 4, 5.

S235. Problems in Insurance Management.

Mr. Pfeffer

Advanced consideration of the problems of insurance management. Treats the actuarial, underwriting, investment, marketing, and regulatory problems relating to insurance activities. Prerequisite: course 135 or consent of the instructor. 3 units.

Tu Th, 4, 5.

S240A. Seminar in Industrial Plant Management.

Mr. Buffa

A study of the problems and policy decisions encountered at the coordinative, or plant management level. Basic production policies and organization; determination of production methods; coordinating production activities; industrial risk and forecasting; business indicators; social aspects of production. 3 units.

M W, 3, 4.

S251A. Seminar in Personnel Administration.

Mr. McNaughton

Consideration, at an advanced level, of factors underlying the formation and execution of managerial policies relating to the selection, development, adjustment, and motivation of individual employees. Emphasis on independent investigations and presentations by students. 3 units.

Tu Th, 3, 4.

S261. Seminar in Marketing Institutions.

Mr. Brown

Lays a groundwork for sound investigative procedures in solving marketing problems. Intensively studies marketing institutions (chain store, wholesaler, market research agency, and others), and the legal environment in which they operate (Sherman, Clayton, and Federal Trade Commission Acts, Fair Trade Laws, Unfair Practices Acts, etc.). 3 units.

Tu Th, 1, 2.

S292. Seminar in Leadership Theory.

A study of the variables determining interpersonal influence. Criteria of effective leadership. Leadership theory; characteristics of leaders, followers, and situations. Consideration of current research. Communication—the medium of leadership; modifying behavior—the techniques of leadership; morale and job satisfaction—the personal impact of leadership. Selection and development of leaders.

Prerequisite: course 152, or consent of the instructor. 3 units.

M W, 1, 2.

S299. Research in Business Administration.

The Staff

To be arranged.

BUSINESS EDUCATION

Robert V. Bacon, M.Ed., *Instructor in Business Education, Harbor Junior College.*

Lucille Parker Irvine, M.Ed., *Lecturer in Office Management and Business Education.*

Ralph A. Masteller, M.A., *Supervisor of Training, Secondary Business Education.*

Richard S. Perry, M.Ed., *Assistant Professor of Office Management and Business Education.*

Allien R. Russon, Ed.D., *Associate Professor of Office Management and Business Education, University of Utah.*

Samuel J. Wanous, Ph.D., *Professor of Office Management and Business Education.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S3A. Secretarial Training.**

Mr. Masteller

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. 2 units.

M Tu W Th F, 8, and laboratory hours to be arranged.

S3B. Secretarial Training.

Mr. Masteller

Continuation of course S3A. 2 units.

M Tu W Th F, 1, and laboratory hours to be arranged.

S4B. Secretarial Training.

Mrs. Russon

A study of shorthand in which the groundwork is laid for a thorough understanding of office management and business teaching problems. An analysis of various techniques used in mastery of technical vocabularies and speed writing and reading shorthand from dictation is included. Prerequisite: Business Education 4A or equivalent. 2 units.

M Tu W Th F, 8.

S110. Business Communications.

Mrs. Russon

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, 10.

S111. Applied Secretarial Practice.

Mrs. Irvine

Study of stenographic office problems, including the development of expert skill and ability in transcription. A consideration of the principles underlying the editing of dictated letters and reports and of the requirements and standards of stenographic positions in civil service as well as in various types of private offices. Prerequisite: courses 3A-3B, 4A-4B. 2 units.

M Tu W Th F, 9.

S113. Office Organization and Management.

Mr. Bacon

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, 11.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S299. Independent Study in Business Education.

Mr. Wanous

Enrollment by permission of the instructor. 2-4 units.

Hours to be arranged.

PROFESSIONAL COURSES IN METHOD

S370C. Methods of Teaching General Business and Merchandising.

Mr. Perry

A study of the devices, methods, and materials used in teaching general business and merchandising subjects. Emphasis placed on study of correct practices, objectives, teaching aids, testing, and evaluation of instructional materials. 2 units.

M Tu W Th F, 11.

370D. Methods of Teaching Office Practice.

Mrs. Irvine

The methods, course content, and materials used in teaching of office practice on secondary and collegiate levels. Organization of laboratories and development of standards, instruction sheets, objectives, teaching aids, and courses of study included. Prerequisite: course 112 or equivalent. 2 units.

M Tu W Th F, 10.

COURSES IN ANOTHER DEPARTMENT

Recent Developments in Business Education (Education 166).

Mr. Wanous

Administration and Supervision of Distributive Education (Education S166DE). Mr. Perry

Business Education (Education S226A). Mr. Wanous

CHEMISTRY

Paul S. Farrington, Ph.D., *Assistant Professor of Chemistry.*

Harper W. Frantz, Ph.D., *Lecturer in Chemistry, Pasadena City College.*

Herbert A. Laitinen, Ph.D., *Professor of Chemistry, University of Illinois.*

Edward Leete, Ph.D., *Instructor in Chemistry.*

Francis L. Scott, Ph.D., *Lecturer in Chemistry.*

Hosmer W. Stone, Ph.D., *Professor of Chemistry.*

Charles A. West, Ph.D., *Instructor of Chemistry.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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 course 2A. Required in the colleges of Agriculture, Chemistry, Engineering, and of pre dental, premedical, pre-mining, 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. 5 units.

M Tu W Th F, 10, Tu Th, 11, lecture; M W F, 11, quiz; M Tu Th F, 1, 2, 3, laboratory.

S1B. General Chemistry.

Mr. Frantz

Continuation of course 1A with special applications to the theory and technique of qualitative analysis; periodic system; structure of matter. Prerequisite: course 1A or the equivalent. Required in the same curricula as course 1A. 5 units.

M Tu W Th F, 10, Tu Th, 11, lecture; M W F, 11, quiz; M Tu Th F, 1, 2, 3, laboratory.

S2. Introductory General Chemistry.

Mr. West

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 course 2A. 3 units.

M Tu W Th F, 11, Tu Th, 10, lecture.

S2A. Introductory General Chemistry.

Mr. West

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 course 2. 5 units.

M Tu W Th F, 11, Tu Th, 10, lecture; M Tu Th, 1, 2, 3, quiz and laboratory.

S5A. Quantitative Analysis.

Mr. Laitinen

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: course 1A-1B or the equivalent. 3 units.

M Tu W Th F, 1, lecture; M Tu W Th F, 2, 3, 4, laboratory.

S8. Elementary Organic Chemistry.

Mr. Leete

An introductory study of the compounds of carbon, including both aliphatic and aromatic derivatives. Prerequisite: one year's course in college inorganic chemistry; concurrent enrollment in course S9 is advisable. This course is required of premedical and pre dental students, majors in petroleum engineering, sanitary and municipal engineering, home economics, public health, and some agriculture majors. 3 units.

M Tu W Th F, 9, M W, 10, lecture.

S9. Methods of Organic Chemistry.

Mr. Scott

Lectures and quizzes on principles of laboratory manipulation; practical experience in synthetic processes. Open to students who are taking or who have completed course 8 or the equivalent. 3 units.

M Tu W Th F, 1, lecture; M Tu W Th F, 2, 3, 4, laboratory.

S199. Problems in Chemistry.

Mr. Leete in charge

Prerequisite: junior standing with such special preparation as the problem may demand. 3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S260. Seminar in Chemistry.

Mr. Leete

1 unit.

Tu Th, 4.

S270. Modern Aspects of Chemistry and Chemical Education.

Mr. Farrington

Open to teachers in the secondary schools interested in the improvement of teaching in chemistry. A student-staff examination and appraisal of the principles covered in secondary school courses in chemistry. Recent developments in the major fields of chemistry will be covered by investigators currently active in those areas. 4 units.

M Tu W Th F, 1, 2.

S280. Research in Chemistry.

Mr. Stone in charge

2-4 units.

Hours to be arranged.

S281. Advanced Research in Chemistry.

Mr. Stone in charge

2-4 units.

Hours to be arranged.

ECONOMICS

Karl Brunner, Dr. Rer. Pol., *Associate Professor of Economics.*

F. D. Holzman, Ph.D., *Associate Professor of Economics, University of Washington.*

Dudley F. Pegrum, Ph.D., *Professor of Economics.*

Richard C. Spangler, Ph.D., *Assistant Professor of Economics, Whittier College.*

Donald E. Stout, Ph.D., *Assistant Professor of Economics.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)*

Prerequisite to all upper division courses: Economics 1A-1B, 101, or the equivalent.

S1A. Principles of Economics.

Mr. Stout

An introduction to the basic characteristics of the American economy and the fundamental tools of economic analysis. Theories of price and income distribution. 2 units.

M Tu W Th F, 8.

S1B. Principles of Economics.

Mr. Brunner

An introduction to the basic characteristics of the American economy and the fundamental tools of economic analysis. Theories of price and income distribution. 2 units.

M Tu W Th F, 8.

S13. Evolution of Economic Institutions in America.

Mr. Stout

Rise of large-scale capitalistic methods of production, influence of technology, prices, politics, ideologies and wars. 2 units.

M Tu W Th F, 10.

S101. Economic Principles and Problems.

Mr. Spangler

The principles of economics and their application to current economic problems. Not open to majors in economics or to those who have taken course 1A-1B. Course 101 serves as a prerequisite for all upper division courses in economics for all students except economics majors. 2 units.

M Tu W Th F, 11.

S121. Economic Problems of the U.S.S.R.

Mr. Holzman

An introduction to the organization and policies of the Russian Soviet economy. 2 units.

M Tu W Th F, 11.

S135. Money and Banking.

Mr. Brunner

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.

S150. Labor Economics.

Mr. Spangler

Economic analysis of trade union philosophies and practices; influences affecting real wages and employment; wage policies of the farm; union-management relations. 2 units.

M Tu W Th F, 9.

S170. Economics of Industrial Control.

Mr. Pegrum

The institutional patterns of regulation; 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, 10.

S195. Principles of International Trade.

Mr. Holzman

An introduction to the principles and mechanisms of international trade. Analysis of selected current international economic problems and policies. 2 units.

M Tu W Th F, 8.

S199. Special Problems in Economics.

The Staff

Admission by special arrangement with the chairman of the department.
1-3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S260A. Industrial Organization, Price Policies and Regulation. Seminar.

2 units.

Mr. Pegrum

Tu Th, 2-4.

S290. Special Problems.

The Staff

Admission by special arrangement with the chairman of the department.
1-4 units.

Hours to be arranged.

EDUCATIONLovincey J. Adams, M.A., *Head of Mathematics Department, Santa Monica City College.*Warren R. Baller, Ph.D., *Professor of Educational Psychology, Teachers College, University of Nebraska.*Melvin L. Barlow, Ed.D., *Associate Professor of Education; Supervisor of Trade and Industrial Teacher Training, Vocational Education.*Aubrey L. Berry, Ed.D., *Lecturer in Education.*Lee D. Bodkin, M.Ed., *Assistant Supervisor of Trade and Industrial Teacher Training, Vocational Education.*Jesse A. Bond, Ed.D., *Professor of Education.*William S. Briscoe, Ed.D., *Professor of Education.*Ruth Cahan, M.A., *Consultant for Third and Fourth Grades, Los Angeles City Schools.*Harry W. Case, Ph.D., *Professor of Engineering and Psychology.*Charlotte Crabtree, M.A., *Supervisor of Training, and Demonstration Teacher, University Elementary School.*Lawrence A. Cremin, Ph.D., *Associate Professor of Education, Teachers College, Columbia University.*Frederick B. Davis, Ph.D., *Professor of Education and Director of the Educational Clinic, Hunter College.*Clifford G. Dobson, M.Ed., *Supervisor of Trade and Industrial Education, Burbank City Schools.*Wilbur H. Dutton, Ed.D., *Associate Professor of Education.*Clarence Fielstra, Ph.D., *Associate Professor of Education.*Florence A. Itkin, M.Ed., *Principal, Los Angeles City Schools.*Einar W. Jacobsen, Ph.D., *Visiting Professor of Education.*B. Lamar Johnson, Ph.D., *Professor of Education.*Milo P. Johnson, Ed.D., *Director of Educational Planning, Santa Monica City Schools.*Evan R. Keislar, Ph.D., *Associate Professor of Education.*Edwin A. Lee, Ph.D., *Professor of Education.*William H. Lucio, Ph.D., *Associate Professor of Education.*F. Dean McClusky, Ph.D., *Professor of Education.*Lal Chand Mehra, Ed.D., *Lecturer in Audio-Visual Education, University Extension.*

Lloyd N. Morrisett, Ph.D., *Professor of Education.*

Reuben R. Palm, Ed.D., *Director, Division of Secondary Education, Los Angeles County Schools.*

Richard S. Perry, M.Ed., *Assistant Professor of Office Management and Business Education.*

George A. Pierson, Ed.D., *Professor of Education, Queens College.*

Betty L. Pollock, M.A., *Assistant in Education in the Summer Session.*

Herman H. Remmers, Ph.D., *Professor of Education and Psychology, Purdue University.*

Ralph M. Rogers, M.A., *Curriculum Consultant, Los Angeles City Schools.*

David G. Ryans, Ph.D., *Professor of Education.*

Corinne A. Seeds, M.A., *Associate Professor of Elementary Education.*

C. Morley Sellery, M.D., *Director of Health Service, Los Angeles City Schools.*

Lorraine M. Sherer, Ed.D., *Associate Professor of Education.*

Harry E. Simonds, A.B., *Supervisor of Apprentice Education, Los Angeles City Schools.*

A. Garth Sorenson, Ph.D., *Assistant Professor of Education.*

Mack Stoker, M.A., *Regional Supervisor, Bureau of Industrial Education, California State Department of Education.*

Samuel J. Wanous, Ph.D., *Professor of Business Education and Office Management.*

James F. W. Watson, A.B., *Vocational Counselor, Pacific High School, San Bernardino City Schools.*

F. Parker Wilber, A.B., *Director, Los Angeles Trade-Technical Junior College.*

Gertrude Wood, M.A., *Consultant, Division of Research and Guidance, Los Angeles County Schools.*

Flaud C. Wooton, Ph.D., *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.*

Mary Bentzen, A.B., *Teacher, Nursery School.*

Cynthiana Brown, M.A., *Supervisor, First Grade.*

E. David Cooke, Jr., A.B., *Supervisor, Fourth Grade.*

Charlotte A. Crabtree, M.A., *Assistant to the Principal.*

Janet R. Ecki, A.B., *Supervisor, Second Grade.*

Florence A. Itkin, A.B., *Assistant to the Principal.*

Marjorie F. Kluth, M.A., *Supervisor, Music.*

Mee Lee Ling, A.B., *Supervisor, Third Grade.*

Penrod Moss, A.B., *Supervisor, Fifth Grade.*

Robert A. Reynolds, A.B., *Supervisor, Art.*

Bernice K. Shorter, M.A., *Supervisor, Sixth Grade.*

Sterling Stott, M.A., *Counselor.*

Esther Swain, B.S., *Supervisor, Kindergarten.*

Ruth S. White, M.A., *Supervisor.*

CLASSIFICATION OF COURSES IN EDUCATION**ADMINISTRATION AND SUPERVISION**

132, S141, S142, S145, S147, 147VE, S148, 148C, S149, 151, 167S, S240A, S240B, 240P, S243A, S246, S247A, S251B, S255B, S257A, S276B.

EARLY CHILDHOOD EDUCATION

S128A, S128B, SK336.

EDUCATIONAL PSYCHOLOGY AND CHILD STUDY

S110, S111, S112, S114, S117A, 117Co, S119, 164, S194, S210C, S260B.

ELEMENTARY EDUCATION

131A, 131B, 132, 133, 134, S139, S194, S246, S262, SE336.

BUSINESS EDUCATION

166, 166DE, S226A.

HEALTH EDUCATION

151.

HISTORY AND PHILOSOPHY OF EDUCATION

S101, S106, S202, S206A, S256A.

JUNIOR COLLEGE EDUCATION

S209A, S279A-B.

PROBLEMS AND TECHNIQUES

131A, 131B, 132, S145, 167C, 167M, 167S, 171, S200A, S200B, S267.

SECONDARY EDUCATION

S170, 170VE, 171, S243A, S266B, S270B, S275B, S370, LS370, SJ374, S383.

VOCATIONAL EDUCATION

147VE, S160, 163C, 164, 167C, 167M, 167S, 168, 170VE, S224A, S266B, 361, 362, 363A, 367, 383VE.

EIGHT-WEEK COURSES

(June 18 to August 10, 1956)

Prerequisite: junior standing, or its equivalent, is prerequisite to all courses in the Department of Education.

S101. History of Education.

Mr. Wooton

The development of educational thought and practice viewed as a phase of the history of Western civilization. 3 units.

M Tu W Th F, 9.

S106. The Principles of Education.

Mr. Cremin

A critical analysis of the assumptions underlying education in a democratic social order. 3 units.

M Tu W Th F, 10.

S110. The Conditions of Learning.

Mr. Baller

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. 3 units.

M Tu W Th F, 9.

S111. Growth and Development of the Child.

Miss Wood and Staff

Deals with growth and development from early childhood through adolescence with implications for home-school education. One period each week is required for observation of children in addition to regular class meetings. 3 units.

M Tu W Th F, 9, Section 1; M Tu W Th F, 11, Section 2.

S112. Adolescence.

Mr. Keislar

Physical, mental, and social development during adolescence; personality formation and the learning process in relation to the secondary school. 3 units.
M Tu W Th F, 10.

S114. Educational Statistics.

Mr. Remmers

Elementary descriptive statistical procedures and sampling error theory applicable to educational problems. This course is a prerequisite for Education 200A-200B, which is required of all candidates for the M.A. and Ed.D. degrees. 2 units.

M Tu W Th, 8, Section 1; M Tu W Th, 9, Section 2.

S117A. Principles of Guidance.

Mr. Sorenson

The philosophy, techniques, and present practices of guidance as applied to the problems of pupil personnel and counseling in the public schools. The emphasis will be upon educational guidance. 2 units.

M Tu W Th, 9, Section 1; M Tu W Th, 11, Section 2.

117Co. School Counseling.

Mr. Pierson, Mr. Sorenson

A basic course for the General Pupil Personnel Services Credential in counseling techniques. Illustrative case materials will be drawn from the California schools; theory and practice will be related to a survey of the counseling movement. Prerequisite: course 117A or equivalent. Admission on consultation with the instructor. 2-4 units.

M W, 1-3.

S119. Educational Measurement.

Mr. Remmers

Introduction to achievement test construction, elementary theory of measurement, survey of measurement techniques, critical study of typical tests and inventories used for estimating aptitude, achievement, attitudes, temperaments, and interests. Prerequisite: course 114 or equivalent. 3 units.

M Tu W Th F, 11.

S128A. Kindergarten-Primary Education. Mrs. Sherer and Miss Pollock

Organization, curricula, and procedures in the kindergarten and primary grades. Includes audio-visual laboratory work, observations at the Demonstration School, and classroom observation and/or participation in teaching. One period each week in addition to class meetings is required for these experiences. Prerequisite: course 111, or the equivalent. 3 units.

M Tu W Th F, 9.

S128B. Kindergarten-Primary Education. Mrs. Sherer and Miss Pollock

Deals with children's literature, and with reading from a developmental standpoint, from prereading experiences through the early stages of reading. One hour per week in addition to regular class meetings should be allowed for work-type experiences, including observation and participation in teaching. Prerequisite: course 111, 128A, or teaching experience. 3 units.

M Tu W Th F, 11.

131A. Problems of the Progressive Elementary School.

Miss Itkin, 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, and critical analyses of observations of teaching in the Demonstration School. No credit given for this course if Education 330 previously completed. 2 units.

M W F, 12, 1. Observation daily at 9 or 10 in the Demonstration School.

131B. Unit of Work Construction.

Miss Crabtree, 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 experimental backgrounds and development of anticipatory programs of guided child activity. Prerequisite: courses 106, 110, 111; or 131A where Summer Session students have taken it; or by consent of the instructor. It is desirable that students take 131A concurrently with 131B during the Summer Session. 2 units.

Tu Th, 12-2.

132. Supervision of the Experience Program in the Elementary School.

Miss Seeds

For principals, general supervisors, supervisors of student-teachers, and classroom teachers interested in supervision. The meaning and practices of the experience program through guided observations in the Demonstration School; actual practice in the use of supervisory techniques with group evaluation; practice in critical analysis of learning experiences; study of needs of teachers and student-teachers and the planning of ways and means of satisfying these. Prerequisite: course 131A, or the equivalent. 4 units.

Tu Th, 2-4. Observation, 9 and 10 daily in the Demonstration School.

133. The Teaching of Arithmetic in the Elementary School. Mr. Adams

Analysis of the problems involved in the teaching of arithmetic in the elementary school and junior high school. Particular emphasis upon the development of meaning for each fundamental process. Opportunity to prepare teaching materials and to improve understanding of mathematical concepts. 2 units.

Tu Th, 2-4.

134. The Teaching of Reading in the Elementary School.

Mrs. Cahan

Comprehensive consideration of problems of curriculum, materials and methods of reading instruction; readiness, word recognition, beginning reading, advanced reading, vocabulary growth, diagnostic and remedial measures, problems of bilingual and mentally retarded pupils and other related topics. 3 units.

M Tu W Th F, 10.

S139. The Elementary Curriculum.

Mr. Dutton, Mr. Lucio

Current conceptions of the content and organization of the elementary school curriculum with emphasis upon the place of the skills in the total school program. Prerequisite: senior standing and courses 110 and 111. In addition to the regular class hours, students must provide for at least one free morning hour daily as follows: 9-10 a.m., or 10-11 a.m., or 11 a.m.-12 m. 4 units.

M Tu W Th, 3-5, Sec. 1 and Sec. 2.

S140. The Teacher and Administration.

Mr. Berry

The teacher considered as a part of the educational system, and his responsibilities to the organization. 2 units.

M W, 9-11.

S141. Administration of City School Systems.

Mr. Jacobsen

The principles of efficient school administration as exemplified in the practices of progressive cities. Prerequisite: one year of teaching experience. 2 units.

M W, 10-12.

S142. State and County School Administration.

Mr. Jacobsen

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

Tu Th, 8-10.

S145. Problems in Public School Finance and Business Administration.

Mr. Briscoe

Methods and problems of financing public education, including a study of the principles of public school business administration, preferred practice, and procedure. Prerequisite: consent of the instructor. 2 units.

M W, 8-10.

S147. Audio-Visual Education.

Mr. Mehra, Mr. McClusky

A course designed to acquaint teachers with the theories and methods of visual instruction and to furnish experience in the utilization of audio-visual aids. 2 units.

M Tu W Th, 8, section 1 (Mehra); M Tu W Th, 9, section 2 (Mehra); M Tu W Th, 10, section 3 (McClusky); M Tu W Th, 11, section 4 (McClusky).

147VE. Audio-Visual Education.

Mr. Dobson

The selection, construction, use, and evaluation of audio-visual and other aids to teaching. Limited to candidates for credentials in trade and industrial education. 2 units.

M W, 3-5.

S148. Legal Bases of Public Education in California.

Mr. Jacobsen

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: consent of the instructor. 2 units.

Tu Th, 10-12.

148C. Laws Relating to Children.

Mr. Berry

The educational code, labor code, and welfare code of the State of California, together with federal legislation applicable to school children. 3 units.

M Tu W Th F, 11.

S149. Field Work in Administration and Supervision.

Mr. Morrisett

To be taken concurrently with, or subsequent to, elementary or secondary school administration. 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, with particular reference to principles underlying education of less than college grade for agriculture, commerce, homemaking, and industry. 2 units.

M W, 3-5.

163C. Construction of Vocational Curricula.

Mr. Rogers

Planning an educational program for vocational students; evaluation and revision of existing curricula to coordinate vocational courses with the total educational program. 2 units.

Tu Th, 7-9 p.m.

164. Educational and Vocational Guidance.

Mr. Watson

Vocational guidance of youth: origin, philosophy, and present practices. Limited to candidates for credentials in trade and industrial education. 2 units.

M W, 7-9 p.m.

166. Recent Developments in Business Education.

Mr. Wanous

For teachers interested in evaluating instructional practices in terms of recent research in business education. Course content, prognosis, standards of achievement, error analyses, transfer of training, remedial devices, measurement, and related topics considered. 3 units.

M Tu W Th F, 9.

S166DE. Administration and Supervision of Distributive Education.

Mr. Perry

Development, philosophy, and objectives of distributive education, with special emphasis on supervisory techniques and coordination of cooperative training and evening extension programs. For coordinators, and instructors for secondary junior college, and adult level programs. 3 units.

M W, 1-3:30.

167C. Cooperative and Apprentice Education.

Mr. Simonds

A study of the organization and administration of apprenticeship and cooperative education and their relationship with the total education program. 2 units.

Tu Th, 3-5.

167M. Occupational Measurements.

Mr. Case

Construction and development of objective achievement tests used to measure accomplishments of students and employees under training and for selection and placement of students. 2 units.

M W, 1-3.

167S. Supervision of Vocational Education.

Mr. Stoker

Responsibilities, qualifications, duties and problems of local and state supervisors, coordinators, and trade school principals in organizing, supervising, and administering programs of vocational education. 2 units.

M W, 7-9 p.m.

168. Conference Leading.

Mr. M. P. Johnson

Conference leading problems; conference techniques and methods which can be used effectively in supervision and administration of vocational education programs. 2 units.

Tu Th, 7-9 p.m.

S170. Secondary Education.

Mr. Palm

A study of secondary education in the United States, with special reference to the needs of junior and senior high school teachers. Prerequisite: junior standing and Psychology 1A and either 1B or 33. 3 units.

M Tu W Th F, 10.

170VE. Secondary Education.

Mr. Barlow

Functions, scope, objectives, and curricula of the high school and junior college in relation to individual and social needs. Limited to candidates for credentials in Trade and Industrial Education. 2 units.

Tu Th, 1-3.

171. Improvement of Reading in the Secondary School. Mr. Davis
 Survey of research in the field of reading; diagnoses and treatment of cases of reading difficulty at the secondary and college levels; methods of improving reading in content fields; study of remedial reading programs; techniques and materials of instruction. 2 units.
 M Tu W Th, 9.

S194. Principles of Guidance in the Elementary School. _____
 The course includes the study of the functions of guidance personnel, the organization and administration of effective guidance programs, applications of evaluation techniques, school records, techniques of child study, the in-service training of teachers, and parent education. Prerequisite: course 111 and 119. 2 units.
 M W, 1-3.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S200A. Fundamentals of Educational Research. Mr. Ryans
 Research reporting, including bibliographical techniques, presentation of data. Prerequisite: course 114 or Psychology 105A or equivalent. Required of all candidates for M.A. and Ed.D. degrees. 2 units.
 Tu Th, 1-3.

S200B. Fundamentals of Educational Research. Mr. Ryans
 Application of the scientific method to educational research, including theory of research, experimental design, techniques for gathering data, and interpretation of results. 2 units.
 Tu Th, 10-12.

S202. The History of Education in the United States. Mr. Cremin
 A survey of educational ideas and practices in the history of the United States. In general, not open to students with credit for course 102. 2 units.
 Tu Th, 8-10.

S206A. Philosophy of Education. Advanced. Mr. Wooton
 A critical study and appraisal of educational theory, historical and current, the objective of which is to formulate a philosophy of education suited to modern demands. 2 units.
 M W, 10-12.

S209A. The Junior College. Mr. B. L. Johnson
 Junior college programs and practices will be studied in the light of the role and purposes of the junior college in American education. 2 units.
 M W, 10-12.

S210C. Advanced Educational Psychology. Mr. Keislar
 Exploration and critical study of current literature and research in educational psychology. Prerequisite: course 110 or Psychology 110, or the equivalent. 2 units.
 M W, 1-3.

S224A. Vocational Education. Advanced. Mr. Barlow
 An advanced course in the principles of vocational education, designed especially for supervisory and administrative personnel and candidates for the doctorate in education. Prerequisite: Course 160 or equivalent. Admission on consultation with instructor. 2 units.
 M W, 8-10.

S226A. Business Education.

Mr. Wanous

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, 11-1.

S240A. Organization and Administration of Education.

Mr. Morrisett

An advanced course in the organization and administration of public education in the United States. Required of all candidates for the doctorate in education. Open to teachers of experience who wish to qualify for the administration credentials. Admission upon consultation with the instructor. Prerequisite: courses 141 and 145 or the equivalent. 2 units.

Tu Th, 3-5.

S240B. Organization and Administration of Education.

Mr. Briscoe

An advanced course in the organization and administration of public education in the United States. Required of all candidates for the doctorate in education. Open to teachers of experience who wish to qualify for the administration credentials. Prerequisite: Education S240A. Admission upon consultation with the instructor. 2 units.

M W, 3-5.

240P. Practicum in School Administration.

Mr. Briscoe and Staff

Practical, creative projects and investigations in the area of school administration. These will deal with actual school administrative problems. Those persons expecting to enroll in this course are invited to bring with them accurate, detailed descriptions of situations and projects on which they need help and want to work. Students are invited to bring, for group investigation and study, actual school situations which need to be resolved. 2 units.

Th, 4-6, 7-9 p.m.

S243A. Administration of Secondary Education.

Mr. Palm

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.

S246. Administration of Elementary Education.

Mr. Lucio

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.

M W, 10-12.

S247A. Audio-Visual Education. Advanced Course.

Mr. Mehra

For supervisors and administrators dealing with the problems involved in developing programs of visual education on the various levels in public education. Admission on consultation with the instructor. 2 units.

Tu Th, 1-3.

S251B. Supervision of Instruction and Curriculum. 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.

M W, 3-5.

S255B. School Administration. Seminar.

Mr. Morrisett

Limited to candidates for the master's or doctor's degree whose major interest is school administration. Prerequisite: a teaching credential and course 141 or the equivalent. 2 units.

M W, 3-5.

S256A. Philosophy of Education. Seminar.

Mr. Lee

Limited to candidates for advanced degrees whose major interest is theory or philosophy of education. Prerequisite: Education 106 or the equivalent; 206A-206B or the equivalent. Admission on consultation with the instructor. 2 units.

Tu Th, 8-10.

S257A. Audio-Visual Education. Seminar.

Mr. McClusky

Limited to candidates for advanced degrees whose major interest is audio-visual education and to students desiring to carry on research in this area. Prerequisite: course 147 or the equivalent. 2 units.

M W, 1-3.

S260B. Educational Psychology. Seminar.

Mr. Baller

Prerequisite: course 210A-210B or the equivalent. Limited to candidates for the master's or doctor's degree whose major interest is in educational psychology and to students desiring to carry on research in this area. 2 units.

Tu Th, 10-12.

S262A. The Elementary School Curriculum. Seminar.

Mr. Dutton

For teachers, curriculum workers, administrators and other graduate students interested in the intensive study of curriculum problems in the elementary school. Prerequisite: course 139 or the equivalent. Admission on consultation with the instructor. 2 units.

Tu Th, 1-3.

S266B. 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.

267. Research Problems in Education. Seminar.

Mr. Ryans

Limited to graduate students whose major interest is in educational research.

The problems studied and the procedures employed in collegiate bureaus of educational research will be considered. Prerequisite: 200A, 200B, and 254A, 254B. Admission on consultation with the instructor. 2 units.

M Tu W Th, 12.

S270B. Secondary Education. Seminar.

Mr. Palm

Prerequisite: course 170. Admission on consultation with instructor. 2 units.

M W, 1-3.

S275B. The Secondary School Curriculum. Seminar.

Mr. Fielstra

For teachers, curriculum workers, administrators, and other graduate students interested in the intensive study of curriculum development on the secondary school level, with emphasis on current problems and trends. Prerequisite: course 170 or the equivalent. 2 units.

Tu Th, 3-5.

S276B. Research in Curriculum.

Mr. Fielstra

For graduate students who desire to pursue independent research in the curriculum. 2 units.

Hours to be arranged.

S279A-B. Junior College Problems.

Mr. B. L. Johnson

For junior college teachers, administrators, counselors, librarians and other graduate students interested in an intensive study of selected junior college problems from such areas as administration, instruction, curriculum, guidance, and accreditation. 4 units.

M W, 1-5.

SPECIAL COURSES**S330. Teaching in Elementary Schools.**

Not offered this summer. Students who planned to take this course may take course 131A and 131B in lieu thereof.

SE336. Supervised Teaching: General Elementary. Mr. Lucio and Staff

Prerequisite: course 139 and 330. Supplementary teaching which may be elected by students who have had at least one year of teaching experience or 4 units of credit in supervised teaching. Enrollment is limited to facilities available. Admission only with special permission of instructor. 2 or 4 units.

M Tu W Th F, 8-12.

SK336. Supervised Teaching: Kindergarten-Primary.

Mr. Lucio and Staff

Prerequisite: courses 128AB and 330. Supplementary teaching which may be elected by students who have had at least one year of teaching experience or 4 units of credit in supervised teaching. Enrollment is limited to facilities available. No facilities available in kindergarten. Admission only with special permission of instructor. 2 or 4 units.

M Tu W Th F, 8-12.

S370. Teaching in Secondary Schools.

Mr. Bond

Teaching and learning in the secondary school. Preparation of curriculum materials; study of procedures and methods, including the evaluation of outcomes. Prerequisite to all supervised teaching for the general secondary or junior college credentials. The course prepares for, and leads to definite placement in, supervised teaching. Prerequisite: senior standing, Education 170 and one course selected from the following: courses 101, 102, 106, 112, 140, and 180. 3 units.

M Tu W Th F, 1.

SJ374. Supervised Teaching: General Junior High School.

Mr. Bond and Staff

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 4 units of credit in supervised teaching. Enrollment limited and subject to the approval of the instructor. 2 units.

Hours to be arranged.

S383. Supervised Teaching: General Secondary.

Mr. Bond and Staff

(Eight weeks)

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.

Tu, 2-4.

COURSES FOR TRAINING TRADE AND INDUSTRIAL TEACHERS

The Summer Session 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. These courses are open to those who qualify for trade and industrial credentials under the California Plan for Vocational Education. Candidates must be high school graduates who have had at least three years of journeyman experience, in addition to an apprenticeship or accepted learning period in the trade or occupation they wish to teach, and whose personal characteristics would seem to fit them for teaching in vocational schools. They are also open to those now engaged in such teaching.

Further information may be obtained from the office of the Supervisor of Trade and Industrial Teacher Training, 131 Moore Hall.

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 in organizing an occupation into effective units of learning. 2 units.

Tu Th, 7-9 p.m.

362. Technique of Vocational Instruction.

Mr. Dobson

Introduction, demonstration, and practice of the methods and techniques of giving instruction in trade and industrial education classes. 2 units.

M W, 1-3.

363A. Organization and Management Instruction.

Mr. Watson

Organizing and managing shop instruction; shop layout, toolroom procedures and management; shop class techniques and safety precautions. 2 units.

Tu Th, 3-5.

367. Civic and Employment Relations.

Mr. Wilber

A survey of the basic employment relations that confront workers in our industrial society and some practical approaches for the use of vocational teachers in utilizing community industrial resources. 2 units.

Tu Th, 1-3.

383VE. Supervised Teaching: Vocational Education.

Mr. Bodkin

A supplementary course in secondary teaching, designed for (1) candidates meeting industrial education, and (2) experienced teachers of trade and industrial education who wish to improve their teaching techniques. Enrollment is limited and subject to approval of the instructor. 2-3 units.

M W, 7-9 p.m.

RELATED COURSES

The courses which require registration for observation in the Demonstration School are Education S110, S111, S128A, S128B, 131A, 131B, 132, 134, S194.

SIX-WEEK COURSES IN OTHER DEPARTMENTS OF SPECIAL INTEREST TO TEACHERS AND CREDENTIAL CANDIDATES

American Institutions (Political Science S101).

Mr. Mendel

Design Workshop for Teachers (Art 191).

Mr. Stoops

Industrial Arts for the Elementary Grades (Art S330).

Mrs. Richard

Principles of Art Education (Art S370A, S370B).	Mr. Stoops
Methods of Teaching General Business and Merchandising (Business Education S370C).	Mr. Perry
Methods of Teaching Office Practice (Business Education 370D).	Mrs. Irvine
Methods and Materials for Teaching Life Science (Life Science S370).	Mr. Herbst
Fundamentals of Arithmetic (Mathematics S38).	Mr. Bell
Music for Classroom Teachers (Music S31).	Mr. Heidsieck
Orchestration (Music S109A, S109B).	Mr. Kremenliev
Instrumental Technique (Music S115B-C).	Mr. Baskerville
University Band (Music S161).	Mr. Baskerville
Music Education for Classroom Teachers (Music S330).	Mrs. Kluth, Mr. Gerow
Music Education in Secondary Schools (Music S370).	Mr. Gerow
Elementary School Physical Education Activities (Physical Education S27A, S27B).	Mr. Nagel
Principles of Healthful Living (Physical Education S44).	Mr. Sutton
Health, Physical, and Recreation Education in the Elementary School (Physical Education S330).	Mr. Nagel
Remedial Techniques in Basic School Subjects (Psychology S167A, S167B).	Mr. Coleman

SCHOOLS FOR CHILDREN

ELEMENTARY DEMONSTRATION SCHOOL

June 25 to August 3, 1956

The Demonstration School, in session daily Monday through Friday, will comprise a complete elementary school unit from the nursery school through the sixth grade. The Nursery School, including children from two and one-half to four and one-half years of age, is in session from 9 a.m. to 12:30 p.m. The hours for the Kindergarten and grades one to six are 9 a.m. to 12 m. Classes will be open for observation by Summer Session students, especially those enrolled in related courses. Visitors may purchase single admission tickets from the school office. Students in the following courses are expected to observe in the Demonstration School as a part of the course requirements: Education S110, S111, S128A, S128B, 131A, 131B, 132, 134, S139, S194, Art S330, Music S330, PE S330.

The work of each grade is planned to illustrate how an integrated unit of work in social studies utilizes curriculum materials from several subject-matter fields. Observation and discussion will be centered upon the objectives, procedures, and outcomes of the activity approach to education. Basic principles of teaching and learning will be stressed.

Since enrollment in the school is limited, application should be made in advance, and should be submitted not later than June 1 to Miss Corinne A. Seeds, Principal of the University Demonstration School, University of California, Los Angeles 24, California. The fees for the six-week period are as follows: nursery school, \$75.00; kindergarten and grades one through three, \$35.00; grades four through six, \$25.00. Fees should be paid as soon as applications have been accepted. Checks should be made payable to The Regents of the University of California.

CLINICAL SCHOOL

June 18 to July 27, 1956

A Clinical School, specializing in remedial education, will be conducted for children and adults of normal intelligence who have difficulty with reading,

spelling, mathematics, and other school subjects. A diagnostic evaluation of each pupil will be made as a basis for planning a remedial program which meets his individual needs.

The Clinical School will be under the direction of Mr. James C. Coleman and will be conducted in connection with the course entitled Psychology 167B, Laboratory in Remedial Techniques. Opportunity will be given to all members of the class to do supervised work in the Clinical School.

The regular classwork of the Clinical School will begin on Tuesday, June 19, at 9 o'clock and will continue for a period of six weeks from 9 a.m. to 12 m., Monday through Friday until July 27.

Applications for enrollment of children should be made as soon as possible after January 1 to the Clinical School, Department of Psychology, 405 Hilgard Avenue, Los Angeles 24, California. Each application should be accompanied by the school record and any available medical and psychological test data on the student. The tuition fee of \$75 is payable on or before registration day, Monday, June 18, 1956.

ENGINEERING

In addition to the regular six-week session from June 18 through July 27, 1956, there will be a second six-week session of Engineering courses from July 30 through September 7, 1956. Attention is called to the scheduling of Mathematics 6B, which will also be offered during the second six-week period.

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.)

A regular Engineering student desiring degree credit for work completed during these summer sessions should file his study list in room 3040, Engineering Building.

SIX-WEEK COURSES (First Session)

This schedule of classes is subject to change

(June 18 to July 27, 1956)

S15A. Elementary Mechanics.

Composition and resolution of coplanar force systems, equilibrium of coplanar force systems, states of stress, simple stress calculations, frames, continuously distributed loads, moments of areas, torsion, beam stresses. Algebraic and graphic methods will be employed. Prerequisite: course 8, Physics 1A, Mathematics 4A or 6A (may be taken concurrently). 3 units.

M Tu W Th F, 10, lecture; M W F, 2-5, laboratory.

S102B. Engineering Dynamics.

Fundamental ideas of dynamics; kinematics and kinetics of rectilinear motion, two-dimensional motion, plane motion, and motion relative to moving reference frames; work-energy and impulse-momentum relationships; an introduction to oscillatory motion. Vector analysis methods are used in the treatment of most of these subjects. Prerequisite: course 15B; Mathematics 110AB or 110C (may be taken concurrently). 3 units.

M W F, 2; M Tu W Th F, 3.

S103A. Elementary 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. Occasional field trips may be scheduled. Prerequisite: course 102B; course 105B (may be taken concurrently). 3 units.

M Tu Th F, 10–12.

S104C. Senior Engineering Laboratory.

A year laboratory course containing a group of integrated experiments common to all engineering fields and a group of elective experiments particularly applicable to the several fields of engineering. Occasional field trips will be scheduled. Prerequisite: completion of all required freshman, sophomore, and junior courses. 4 units.

M Tu W Th F, 1–5. (Additional 10 hours per week required in preparation of reports.)

S104D. Senior Engineering Laboratory.

Continuation of Engineering S104C. 4 units.

M Tu W Th F, 1–5. (Additional 10 hours per week required in preparation of reports.)

S105A. Heat Transfer and Thermodynamics.

Concepts of temperature, heat, and work. First and second laws of thermodynamics. Properties of perfect and real gases. Thermodynamic properties of fluids. Elements of heat transfer, covering conduction, convection, radiation, and combined systems. Prerequisite: Mathematics 110AB or 110C (may be taken concurrently). 3 units.

M Tu Th F, 8–10.

S105B. Heat Transfer and Thermodynamics.

Applications of thermodynamic principles to flow of fluids, compression and expansion processes, vapor and gas power cycles, refrigeration. Relationships among thermodynamic functions and application to properties of gases, liquids, and solids. Mixture of gases and vapors, psychrometric principles, thermochemistry and chemical equilibrium, the third law. Prerequisite: course 105A. 3 units.

M Tu Th F, 8–10.

S108B. Strength of Materials.

Review of stress-strain relationships, including inelastic behavior, strain energy, combined stresses; stress concentration and fatigue; bending theory, including curved beams, inelastic behavior, composite beams, unsymmetrical loading; shear flow theory, including shear center, torsion of thin shells, deflections; inelastic buckling of columns, plates, and shells; energy methods of deflection analysis; introduction to analysis of statically indeterminate structures and relaxation methods. Prerequisite: course 15B; Mathematics 4B or 6B. 2 units.

M Tu W Th F, 12; W, 11.

S113A. The Engineer and His Professional Duties.

Oral and written reports on various subdivisions of knowledge with emphasis on the sociohumanistic periphery of engineering. Class meetings will be devoted to the subjects of the history of technology, business organization, personal efficiency, professional codes and ethics, industrial procedures, and engineering-report writing. The course serves as training in the professional duties of the engineer. Prerequisite: senior standing in engineering. Enrollment limited to twenty students per section. 2 units.

M W F, 8–10, section 1.

M W F, 8–10, section 2.

SIX-WEEK COURSES (Second Session)

This schedule of classes is subject to change

(July 30 to September 7, 1956)

S2. Descriptive Geometry.

The principles of descriptive geometry and their application to the solution of engineering problems. Prerequisite: one year of high school drafting, plane geometry. Recommended: solid geometry. 3 units.

M Tu W Th F, 2-5.

S8. Properties of Materials.

The properties of materials; 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 1A. 2 units.

M W F, 10-12.

S15B. Elementary Mechanics.

Composition and resolution of noncoplanar force systems, equilibrium of noncoplanar force systems, friction, deflection of beams, statically indeterminate beams, combined axial and bending loads, eccentric loads, columns, cables. Prerequisite: course 15A, Mathematics 4B or 6B (may be taken concurrently). 3 units.

M Tu W Th F, 9, lecture; M W F, 2-5, laboratory.

S100A. Circuit Analysis.

Elements of electrical circuit analysis with emphasis on solutions of circuit problems; analogs and duals; applications of steady state and transient analysis to linear electrical, mechanical, and thermal systems. Prerequisite: Mathematics 110AB or 110C (may be taken concurrently). 3 units.

M Tu Th F, 10-12.

S100B. Electrical Machines.

Principles and applications of the important basic electrical machines and equipment. Occasional field trips to electric plants and installations. Prerequisite: course 100A, 104A. 3 units.

M Tu Th F, 10-12.

S104A. Junior Engineering Laboratory.

Introductory experiments illustrating the properties of engineering materials; applications of circuit theory to electrical, mechanical, thermal, acoustical and fluid systems; measurements and instrumentation. Occasional field trips will be scheduled. Prerequisite: course 100A (may be taken concurrently). 3 units.

M Tu W Th F, 1-4. (Additional 8 hours per week required for preparation, calculations and reports.)

S104B. Junior Engineering Laboratory.

Introductory experiments on the operation and application of machines, and on the behavior of engineering structures; measurements and instrumentation. Occasional field trips will be scheduled. Prerequisite: Engineering 104A. Prerequisite or concurrent: courses 100B, 105A. 3 units.

M Tu W Th F, 1-4. (Additional 8 hours per week required for preparation, calculations and reports.)

S106A. Machine Design.

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 6 and 102B. 4 units.

M Tu W Th F, 1-5.

S107G. Analysis of Shell Structures.

Analysis for shear, bending, and torsional buckling of columns, plates, and shells; properties of aircraft structural materials; brief description of load factors and load distribution for aircraft structures. Prerequisite: course 108B. 3 units.

M Tu Th F, 1-3.

S112A. Basic Electronics.

Atomic structure of solids, work function, thermionic and photoelectric emission, secondary emission. Motion of charges in electric and magnetic fields; physical structure of electron tubes; characteristic curves; equivalent circuits, methods of analysis of circuits employing electron tubes; theory of operation of rectifiers, amplifiers, and oscillators; application of electron tubes to engineering devices and systems. Occasional field trips will be scheduled. Prerequisite: course 100A. Not open for credit to those who have had Physics 116A. 3 units.

M Tu Th F, 10-12.

S120. Principles of Engineering Investment and Economy.

Derivation of formulas used in investment theory; analysis of financial statements and cost accounting methods; analysis of original and alternative investments; equipment replacement problems; influence of personnel factors; quality control; studies in the economy of governmental projects. Prerequisite: courses 100B, 103A, 105B. 3 units.

M Tu Th F, 10-12.

S181A. Linear System Solutions by Transform Methods.

Formulation and solution of equations of behavior of linear electrical, mechanical, and thermal systems by the Laplace-transformation method. Applications of the transform method to lumped-parameter systems. Prerequisite: courses 100A, 102B, 104A; Mathematics 110AB or 110C. 3 units.

M Tu Th F, 8-10.

ENGLISH

Vinton A. Dearing, Ph.D., *Assistant Professor of English.*

John J. Espey, B.Litt., M.A., *Associate Professor of English.*

Robert P. Falk, Ph.D., *Associate Professor of English.*

George M. Grasty, M.A., *Assistant in the Summer Session.*

Claude E. Jones, Ph.D., *Associate Professor of English.*

Franklin P. Rolfe, Ph.D., *Professor of English.*

James R. Sutherland, B.Litt., M.A., *Professor of English, University College, University of London.*

Frank W. Wadsworth, Ph.D., *Assistant Professor of English.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S1A. First-Year Reading and Composition.

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 21 and 94). 3 units.

M Tu W Th F, 9, M W, 1, section 1.

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

S1B. First-Year Reading and Composition.

Writing based on the reading of selections in modern English. Open only to students who have passed English 1A. 2 units.

M Tu W Th F, 9.

S33B. English for Foreign Students.

Mr. Grasty

For foreign students only. Continuation of English 33A. Speaking, reading, and writing of English; intensified work in grammar, composition, conversation, vocabulary, speech laboratory. Examination in English required of those who have not taken English 33A. 4 units.

M Tu W Th F, 10, 11, Tu Th, 1.

S46A. Survey of English Literature, 1500 to 1700.

Mr. Wadsworth

Prerequisite: English 1A-1B or the equivalent. 2 units.

M Tu W Th F, 10.

S46B. Survey of English Literature, 1700 to 1900.

Mr. Dearing

Prerequisite: English 46A or the equivalent. 2 units.

M Tu W Th F, 10.

S106A. The Short Story.

Mr. Espey

Prerequisite: consent of the instructor. 2 units.

Sec. 1, M Tu W Th F, 9.

Sec. 2, M Tu W Th F, 11.

S115. Primitive Literature.

Mr. Jones

The study of primitive types, such as the fable, folk tale, myth, legend, ballad, and hero tales, as to characteristics and theories of diffusion. The comparative study of typical stories, and the work of collectors and adapters. 2 units.

M Tu W Th F, 12.

S117J. Shakespeare.

Mr. Wadsworth

2 units.

M Tu W Th F, 9.

S125C. The English Novel from the Beginning through 1832.

Mr. Jones

2 units.

M Tu W Th F, 11.

S133. American Life in American Letters.

Mr. Falk

The main currents of thought in American life as reflected in literature. 2 units.

M Tu W Th F, 9.

S167. The Age of Pope and Johnson.

Mr. Dearing

2 units.

M Tu W Th F, 12.

S177. The Romantic Age.

Mr. Sutherland

2 units.

M Tu W Th F, 10.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S225. Victorianism.

Mr. Rolfe

2 units.

M Tu W Th F, 12.

S252B. History of Literary Criticism.

Mr. Sutherland

2 units.

M Tu W Th F, 11.

S265D. Studies in the English Novel.

Mr. Rolfe

2 units.

Tu Th, 2-4:30.

ENTOMOLOGY

John N. Belkin, Ph.D., *Associate Professor of Entomology.*

Leland R. Brown, Ph.D., *Assistant Professor of Entomology.*

Walter Ebeling, Ph.D., *Professor of Entomology.*

Roland N. Jefferson, Ph.D., *Associate Professor of Entomology.*

No formal undergraduate courses in entomology are offered during the Summer Session. Course offerings are limited to special problems for advanced undergraduate and unclassified graduate students and research for regularly enrolled graduate students.

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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 19

S283A. Research in Entomology.

The Staff

Prerequisite: regular graduate status, and consent of the instructor. 2-4 units.

Hours to be arranged.

FLORICULTURE AND ORNAMENTAL HORTICULTURE

B. Lennart Johnson, Ph.D., *Associate Professor of Ornamental Horticulture.*

Anton M. Kofranek, Ph.D., *Assistant Professor of Floriculture.*

Harry C. Kohl, Ph.D., *Assistant Professor of Floriculture.*

Vernon T. Stoutemyer, Ph.D., *Professor of Ornamental Horticulture.*

Joseph W. Towner, Ph.D., *Instructor in Ornamental Horticulture.*

Victor B. Youngner, Ph.D., *Instructor in Ornamental Horticulture.*

No formal undergraduate courses in floriculture and ornamental horticulture are offered during the Summer Session. Course offerings are limited to special problems for advanced undergraduate and unclassified graduate students and research for regularly enrolled graduate students.

SIX-WEEK COURSES*(June 18 to July 27, 1956)***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 19

S286A. Research in Ornamental Horticulture.

The Staff

Prerequisite: regular graduate status, and consent of the instructor. 2-4 units.

Hours to be arranged.

FOLKLORE

Wayland D. Hand, Ph.D., *Professor of German and Folklore.*

Mantle Hood, Ph.D., *Instructor in Music.*

Arden Johnson, M.A., *Junior Supervisor of Physical Education.*

Claude E. Jones, Ph.D., *Associate Professor of English.*

Councill Taylor, Ph.D., *Instructor in Anthropology.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S105. American Folklore.**

Mr. Hand

A survey of American folklore, with illustrative materials from all genres (folk songs, folk tales, legends, superstitions, proverbs, folk speech). 2 units.

M Tu W Th F, 9.

S106. American Folk Song.

Mr. Hand

A survey of American balladry and folk song, with attention to historical development, ethnic background, and poetic and musical values. 2 units.

M Tu W Th F, 11.

S199. Special Problems in Folklore.

The Staff

1-2 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S298. Special Studies in Folklore.

The Staff

1-2 units.

Hours to be arranged.

COURSES IN OTHER DEPARTMENTS

Ethnology (Anthropology S102).

Mr. Taylor

Primitive Literature (English S115).

Mr. Jones

Folk Music (Music S136).

Mr. Hood

Seminar in Ethno-musicology (Music S264).

Mr. Hood

Folk and Square Dancing (Physical Education 12).

Mr. Johnson

FRENCH

Myron Irving Barker, Ph.D., *Associate Professor of French.*

Madeleine Letessier, A.B., *Associate in French.*

L. Gardner Miller, Docteur de l'Université de Strasbourg, *Associate Professor of French.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S1. Elementary French. _____

For beginners. Essentials of grammar (forms, sounds, syntax); practice in reading and conversation. 4 units.

Sec. 1. M Tu W Th F, 8-10.

Sec. 2. M Tu W Th F, 11-1.

S2. Elementary French. _____

Continuation of French S1. Grammar; composition; practice in conversation. Prerequisite: French 1, or the equivalent. 4 units.

Sec. 1. M Tu W Th F, 8-10.

Sec. 2. M Tu W Th F, 11-1.

S3. Intermediate French. _____

Continuation of French S2. Prerequisite: French 2, or three years of high school French. 4 units.

Sec. 1. M Tu W Th F, 8-10.

Sec. 2. M Tu W Th F, 11-1.

S4. Intermediate French. Miss Letessier

Continuation of French S3. Prerequisite: French 3, or four years of high school French. 4 units.

M Tu W Th F, 10-12.

S125. Gustave Flaubert, the Romantic and the Realist. Mr. Miller

Readings and discussions of the author's early writings and of *Madame Bovary*, *Salammbô*, *L'Education Sentimentale*, *La Tentation de St. Antoine*, and *Bouvard et Pécuchet*. 2 units.

M Tu W Th F, 11.

S199. Special Studies in French. The Staff

Prerequisite: consent of the instructor. Guided readings and reports. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S219C. Studies in Realism. Mr. Barker

Studies in the evolution of realism as represented in the works of Monnier, Duranty, Champfleury, et al., but with particular reference to the works of Flaubert. 2 units.

Hours to be arranged.

S290. Research in French. The Staff

Prerequisite: consent of the instructor. 1-6 units.

Hours to be arranged.

GEOGRAPHY

H. Louis Kostanick, Ph.D., *Associate Professor of Geography.*
 Richard F. Logan, Ph.D., *Associate Professor of Geography.*
 Howard J. Nelson, Ph.D., *Assistant Professor of Geography.*
 Benjamin E. Thomas, Ph.D., *Assistant Professor of Geography.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S1A. Introduction to Geography: Physical Elements.** 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 course 5A or 100 will receive only half credit for course S1A. 2 units.

M Tu W Th F, 9.

S1B. Introduction to Geography: Cultural Elements. Mr. Kostanick

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: course 1A, or 5A, or the equivalent. Students who have had course 100 will receive only half credit for course S1B. 2 units.

M Tu W Th F, 11.

S100. Principles of Geography. Mr. Nelson

A brief survey of the fundamental physical and cultural elements of geography and their integration on a world-wide regional basis. Prerequisite: senior standing, or candidacy for a teaching credential. Not open to those who have credit for course 1A–1B or 5A–5B; may not be counted on the major in geography. 2 units.

M Tu W Th F, 10.

S121. The Geography of Anglo-America. Mr. Thomas

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, or the equivalent. 2 units.

M Tu W Th F, 11.

S181. Political Geography. Mr. Kostanick

The principles of political geography as developed through regional studies of political phenomena throughout the world. Current problems in domestic and international affairs will be considered. Prerequisite: course 1A–1B, or 5A–5B, or 100, or the consent of the instructor. 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 19

S272. Seminar in Cultural Geography.

Mr. Nelson

The topic for 1956 will concern some aspect of industrial geography. Prerequisite: consent of the instructor. 2 units.

Tu Th, 2-4.

S275. Advanced Field Problems in Local Geography.

Mr. Logan

Advanced field studies in representative areas of southern California. The emphasis of the course will be on the regional approach to geography. One week will be spent on the study of a desert basin, one on the study of a mountain-top region, and four weeks in a complex area of southern Ventura County. Additional information may be obtained by writing to the department. Prerequisite: course 101 or the equivalent and consent of the instructor. Open to advanced undergraduate and graduate students. Tuition fee, \$51. 6 units.

S290. Research in Geography.

The Staff

Investigation subsequent to, and growing out of, any of the seminars. 1-4 units.

Hours to be arranged.

COURSE IN ANOTHER DEPARTMENT

Graphic Techniques in the Social Science (Anthropology S179).

Mr. Schmid

GEOLOGY

Vladimir J. Okulitch, Ph.D., *Professor of Paleontology and Stratigraphy, University of British Columbia.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Geology

S2. General Geology: Physical.

Mr. Okulitch

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.

S199. Special Studies in Geology.

Mr. Okulitch 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 19

S299. Research in Geology.

Mr. Okulitch in charge

1 to 4 units.

Hours to be arranged.

Paleontology

- 1. Paleontology: Elementary Paleontology.** Mr. Okulitch
The evolution and distribution of fossil animals. No prerequisite. 2 units.
M Tu W Th F, 11.

GERMANIC LANGUAGES

Eli Sobel, Ph.D., *Assistant Professor of German.*
Erik Wahlgren, Ph.D., *Professor of Scandinavian and German.*
Terence H. Wilbur, Ph.D., *Assistant Professor of German.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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, 8-10, section 1.
M Tu W Th F, 10-12, section 2.

S2. Elementary German.

Continuation of German S1. Reading, grammar, composition, and conversation. Prerequisite: course 1, S1, or two years of high school German. 4 units.
M Tu W Th F, 10-12, section 1.

S3. Intermediate German.

Readings in literary German. Prerequisite: course 2, S2, or three years of high school German. 4 units.
M Tu W Th F, 8-10.

Mr. Wilbur

S3PS. Intermediate German.

Readings in the physical sciences. Prerequisite: course 2, S2, or three years of high school German. 4 units.
M Tu W Th F, 10-12.

Mr. Sobel

S199A. Special Studies.

1 to 4 units.
Hours to be arranged.

The Staff

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S298A. Special Studies.

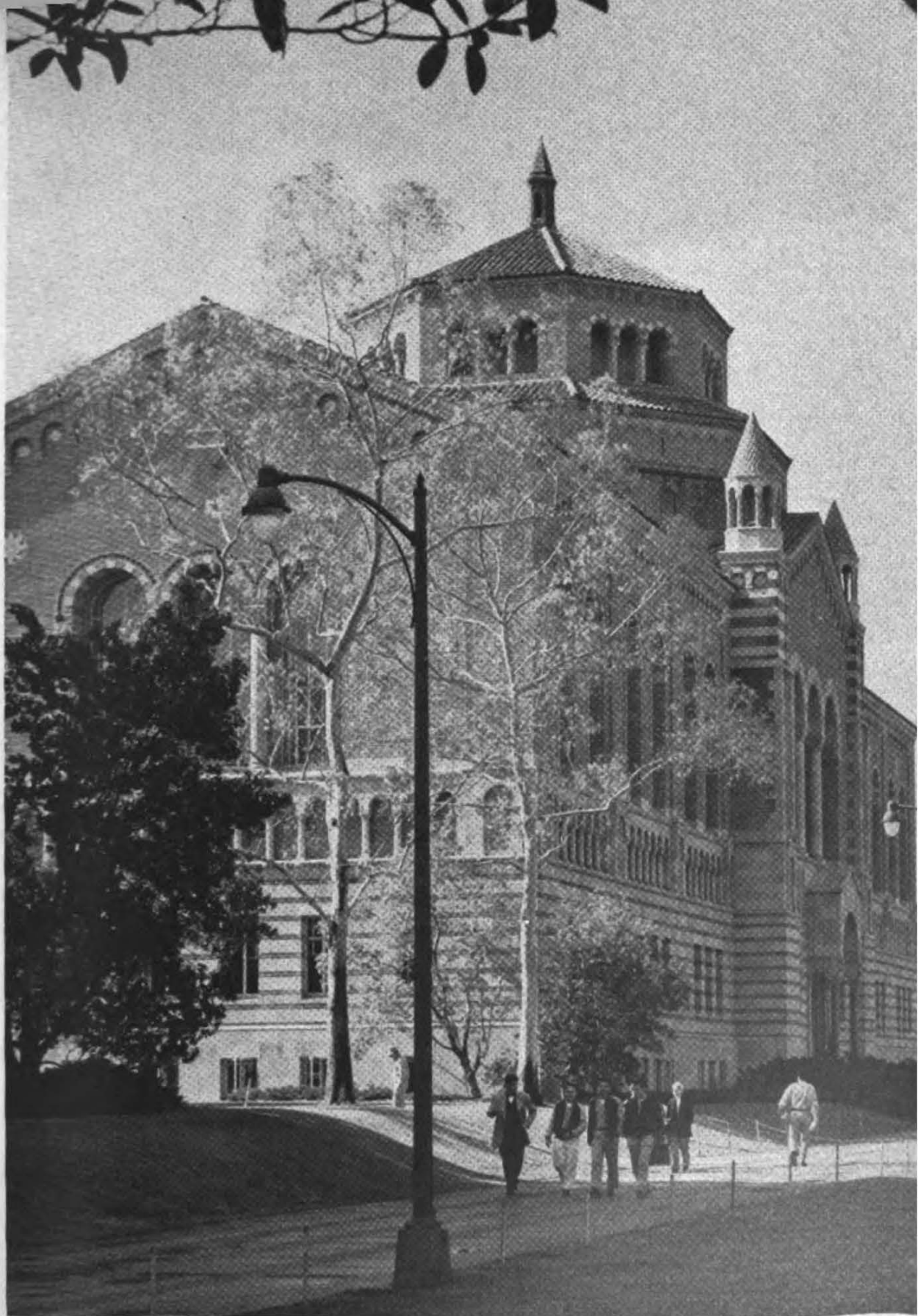
1 or 2 units.
Hours to be arranged.

The Staff

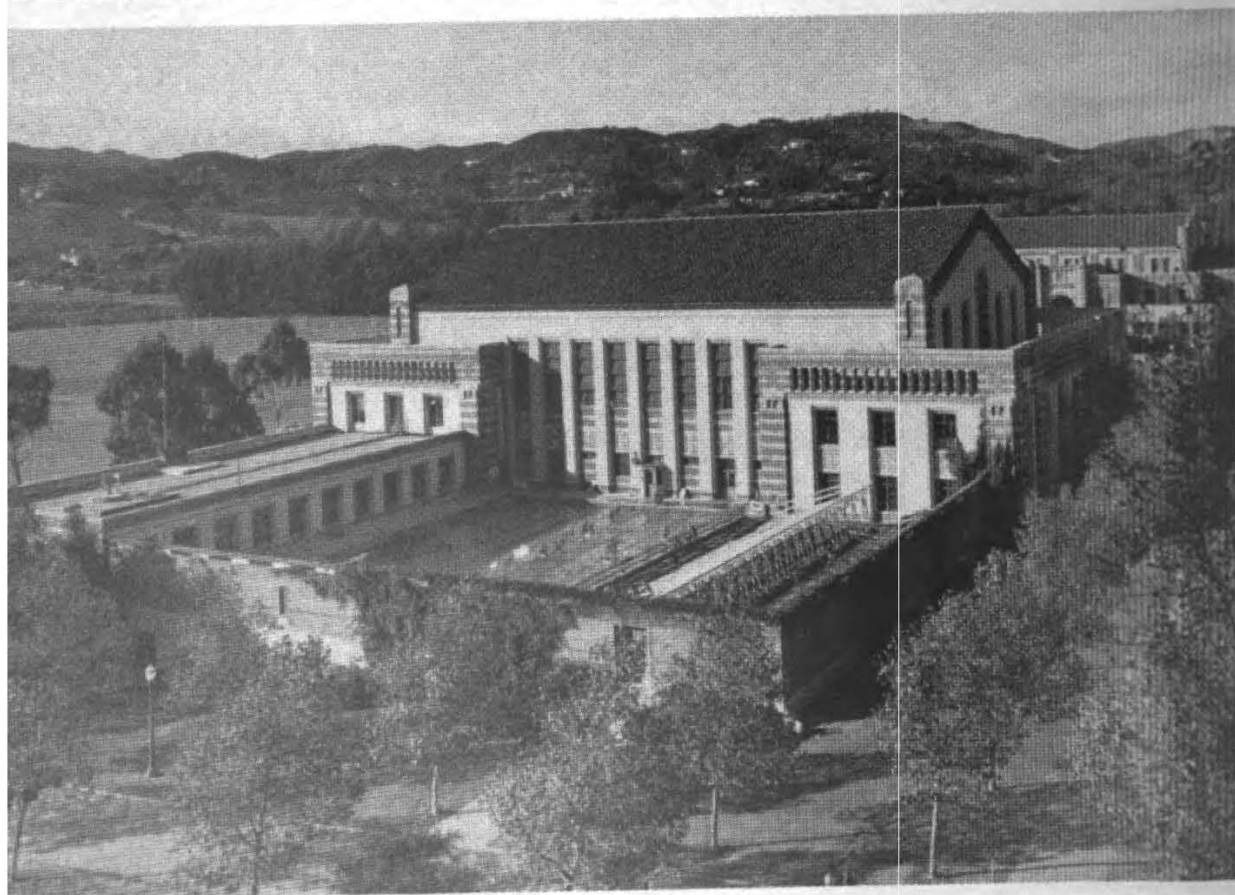
Scandinavian Languages**143. Strindberg.**

Lectures and readings (in translation) in the plays, novels, and stories of August Strindberg. No knowledge of Scandinavian required. 2 units.
M Tu W Th F, 9.

Mr. Wahlgren



The University Library



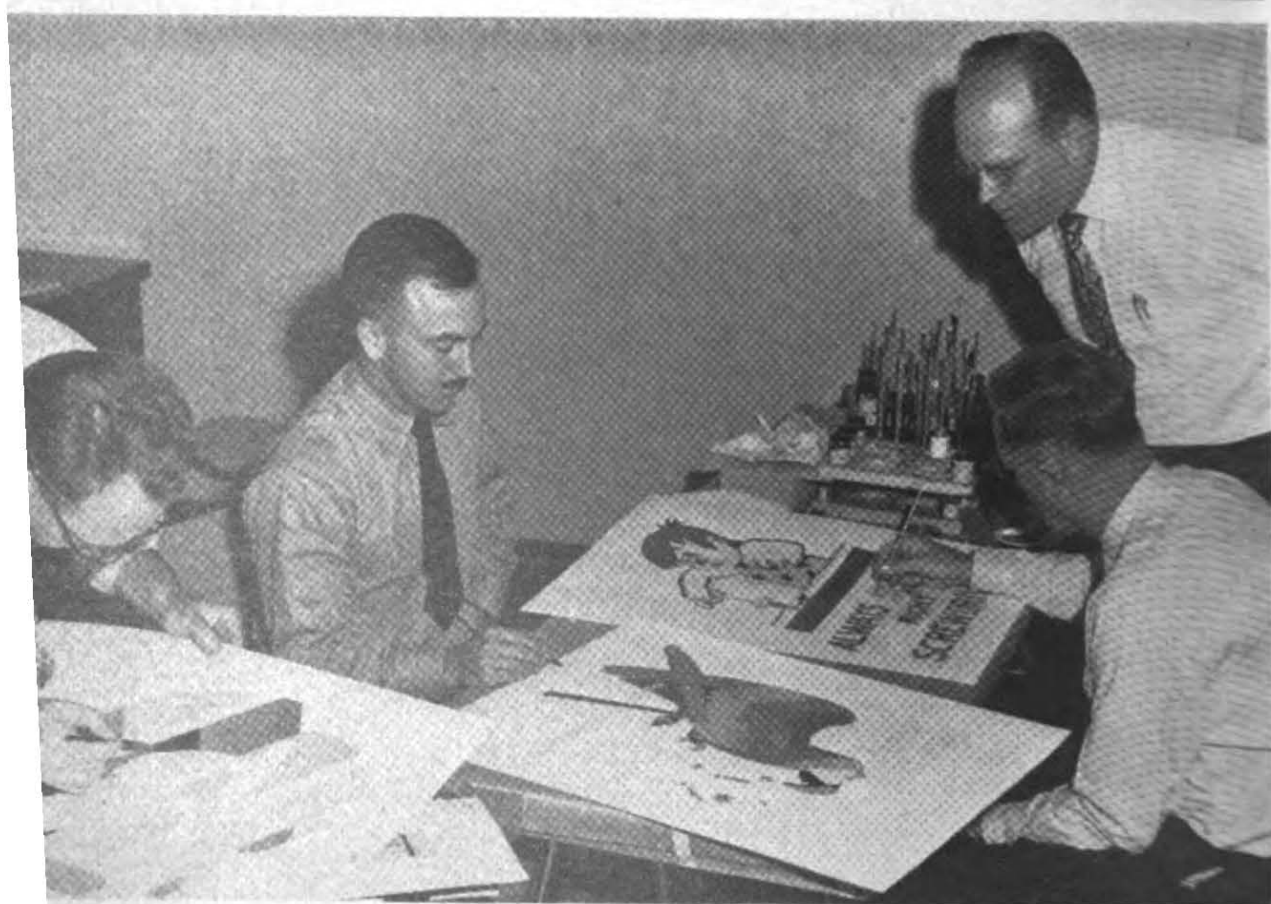
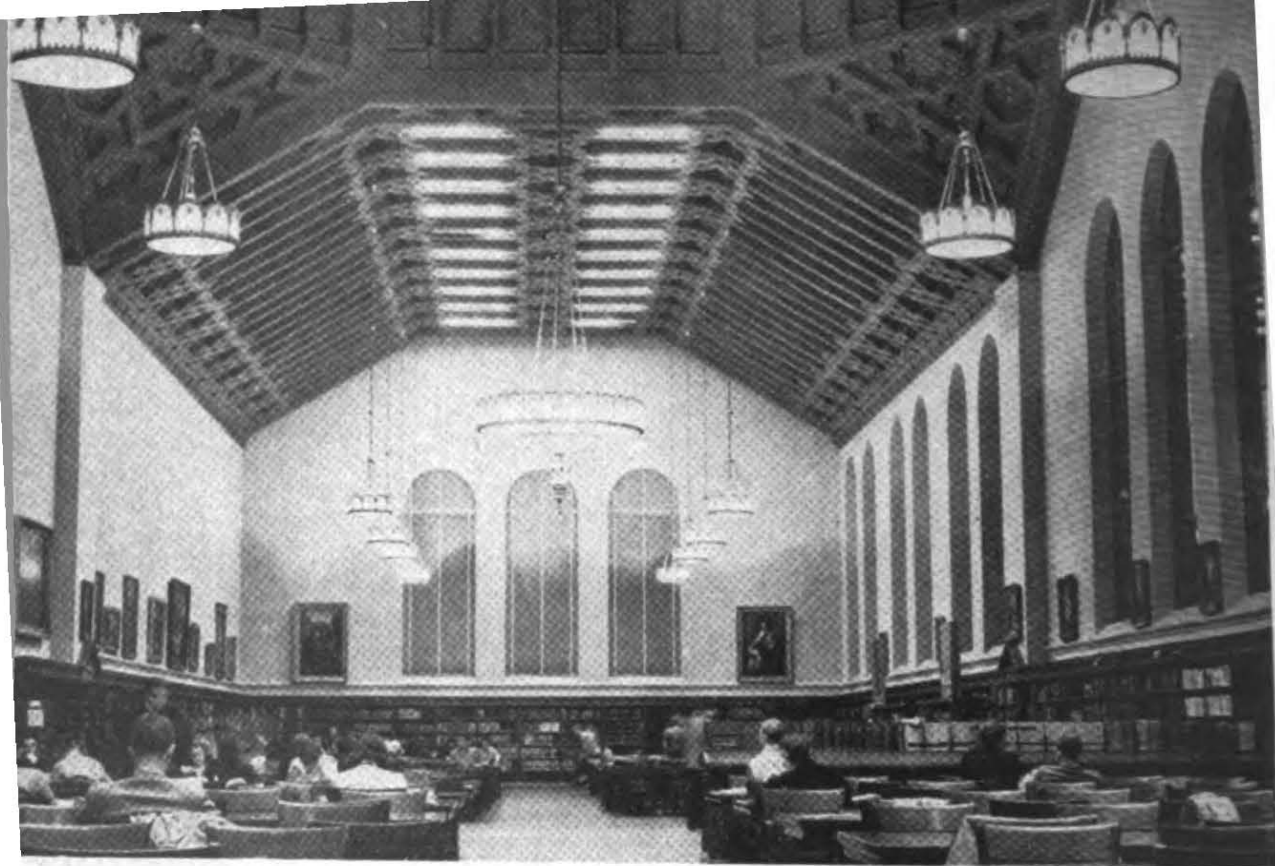
Above—Recreational facilities are available to the Summer Session students
Below—The Men's Gymnasium and pool



Above—Looking north to the entrance of the Art Building

Right—Pupils at the entrance of the University Elementary School





Above—Interior of the Main Reading Room of the University Library
Below—Students working in the Audio-Visual Laboratory

HISTORY

Truesdell S. Brown, Ph.D., *Associate Professor of History.*
 Robert N. Burr, Ph.D., *Associate Professor of History.*
 Mark H. Curtis, Ph.D., *Assistant Professor of History.*
 Yu-Shan Han, Ph.D., *Associate Professor of History.*
 William R. Hitchcock, Ph.D., *Assistant Professor of History.*
 Harold M. Hyman, Ph.D., *Acting Assistant Professor of History.*
 Bernard Lewis, Ph.D., *Visiting Professor of History.*
 Donald Meyer, Ph.D., *Assistant Professor of History.*
 George E. Mowry, Ph.D., *Professor of History.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

- S7A. Political and Social History of the United States.** Mr. Hyman
 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. Scope: 1492 to the Civil War. 2 units.
 M Tu W Th F, 9.
- S111B. History of the Ancient Mediterranean World.** Mr. Brown
 A survey of the history of the ancient Mediterranean world from the death of Alexander to the Fall of Rome. 2 units.
 M Tu W Th F, 11.
- S136. Islamic Institutions and Political Ideas.** Mr. Lewis
 Institutions and ideas of government, administration, justice, education, economic and social life in the Islamic Near East as they were before the impact of the West, and as they were affected by that impact. 2 units.
 M Tu W Th F, 10.
- S139. Development of Modern Turkey.** Mr. Lewis
 A survey of modern Turkish society and government from the eighteenth century to the present. The decay of Ottoman society and government in the eighteenth century, the first attempts at civilization, the Turkish reformers, successes and failures of the reforms, ideological trends, the young Ottomans, the age of despotism, the young Turks, the Kemalist republic, the republic since Kemal. 2 units.
 M Tu W Th F, 12.
- S145. Europe, 1870-1914.** Mr. Hitchcock
 The history of Europe from the end of the Franco-Prussian War to the eve of the First World War. A survey covering internal conditions of the major European countries, nationalism, neoimperialism, the rise of socialism, the spread of the industrial revolution, and the diplomatic background of the First World War. Students who have credit for History 140B may not take this course for credit. 2 units.
 M Tu W Th F, 11.
- S148B. European Diplomacy and Imperialism.** Mr. Hitchcock
 International rivalries since the middle of the nineteenth century. 2 units.
 M Tu W Th F, 9.

- S151A. History of the British People in Modern Times.** Mr. Curtis
A study of the main currents in the thought, culture, and social progress of the British people from Henry VIII to the Glorious Revolution. 2 units.
M Tu W Th F, 10.
- S162B. Hispanic America Since Independence.** Mr. Burr
2 units.
M Tu W Th F, 9.
- S173. The United States: Civil War and Reconstruction.** Mr. Hyman
The topics studied will include: the rise of sectionalism; the anti-slavery crusade; the formation of the Confederate States; the war years; political and social reconstruction. 2 units.
M Tu W Th F, 10.
- S174B. The United States: The Twentieth Century.** Mr. Mowry
The political, economic, intellectual, and cultural aspects of American democracy in the twentieth century. 2 units.
M Tu W Th F, 11.
- S177. Intellectual History of the United States.** Mr. Meyer
The principal systems of ideas about man and God, nature and society, which have been at work in American history. Emphasis on the sources of these ideas, their connections with one another, and their expression in great documents of American thought. 2 units.
M Tu W Th F, 10.
- S180. Social History of the United States Since 1800.** Mr. Meyer
An historical study of the character and values of the American people as affected by the interplay of regions, classes, and ethnic groups and as manifested in religion, education, and technology. 2 units.
M Tu W Th F, 11.
- S192B. The Twentieth-Century Far East.** Mr. Han
The social, economic, and political development of the Far Eastern countries, with special attention to changes in ideas and institutions after a century of Western impact. 2 units.
M Tu W Th F, 11.
- S194B. History of Modern China.** Mr. Han
A study of China's reaction to Western impact: struggles for modernization from the T'ai-p'ing revolution to the Communist victory, 1850-1950. 2 units.
M Tu W Th F, 9.
- S198. History and Historians.** Mr. Brown
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.
- S199. Special Studies in History.** Mr. Burr
Required of all history majors. Historical method, followed by individual investigations and reports. 2 units.
Tu Th, 2-4.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

- S260A. Seminar in English History.** Mr. Curtis
Studies in the Stuart Period. 2 units.
Tu Th, 2-4.

- S270A. Seminar in United States History.** Mr. Mowry
Studies in the recent American West and the recent United States. 2 units.
M W, 2-4.
- S290. Research in History.** The Staff
Open only to students who have passed the qualifying examinations for the doctor's degree. 1 to 6 units. Hours to be arranged.
- S298. Directed Study and Readings for Graduate Students Who Have Yet to Pass Their Qualifying Examinations.** The Staff
1-3 units.

HOME ECONOMICS

- George Fitzelle, Ph.D., *Assistant Professor in Home Economics.*
Olive Hall, Ph.D., *Assistant Professor of Home Economics.*
Donovan Hester, M.S., *Associate in Home Economics.*
Dorothy Leahy, Ed.D., *Professor of Home Economics.*
Frances Obst, Ed.D., *Lecturer in Home Economics.*
Edward L. Rada, M.S., *Acting Assistant Professor of Family and Consumer Economics.*
Marian Swendseid, Ph.D., *Associate Professor of Nutrition and Physiological Chemistry.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

- S134. Child Care and Guidance.** Mr. Fitzelle
Application of the principles of growth and development to the care and guidance of young children in the home. Prerequisite: Psychology 112. 2 units.
M Tu W Th F, 2.
- S138. Family Relationships.** Mr. Fitzelle
Recommended: course 12.
A study of the modern family and its relationships. Emphasis on personal adjustment of the individual, problems concerning marriage relations, parenthood and family administration. 2 units.
M Tu W Th F, 11.
- S144. Management of Individual and Family Finances.** Mr. Rada
Management of family income, consumer credit, personal investment, home ownership, and life insurance. Consideration of taxation in relation to family expenditure. Prerequisite: course 14 or consent of the instructor. 2 units.
M Tu W Th F, 8.
- S145. Home Management Problems.** Miss Hester
A study of the management of the various resources available to the family with a view to promoting family well-being and satisfaction. Prerequisite: course 14 and consent of the instructor. 3 units.
M Tu W Th F, 10, and two hours per week to be arranged.
- S146. Home Management Laboratory.** Miss Hester
Experience in group living for six weeks in the home management house with the guidance of an instructor. Prerequisite or concurrent: course 145. 2 units.
Hours to be arranged.

S155. House Planning and Furnishings.

Miss Obst

Planning the home with reference to livability, selection of furnishings and equipment, arrangements for minimizing work, and adaptation to the needs of families of varying positions and incomes. Prerequisite: course 15. Recommended: Art 6A. 2 units.

M W F, 1, lecture, Tu Th, 1-4, laboratory.

S181. Problems in Home Economics.

Miss Leahy

A study of special problems in the teaching of homemaking selected in accordance with the needs of the student. Emphasis is placed on the contribution of homemaking to school and community life. Prerequisite: course 370 or consent of the instructor. 2 units.

M Tu W Th F, 11.

S199A-B. Special Studies in Home Economics.

Section 1. Child Study.

Section 3. Family Economics.

Section 10. Nutrition.

Section 11. Teacher Education.

Mr. Fitzelle

Mr. Rada

Miss Swendseid

Miss Hall

Prerequisite: 6 units in upper division home economics courses and permission of the instructor. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S229. Methods of Research in Home Economics.

Miss Hall

A study of the methods of research applicable to the various areas of home economics; individual guidance in research in a selected problem; assistance in the statistical treatment of data. 2 units.

M Tu W Th F, 10.

S271. Seminar in Home Economics Education.

Miss Hall

Review of recent and current developments in the teaching of home economics. 2 units.

M Tu W Th F, 9.

S273. Seminar in the Organization and Administration of Home Economics.

Miss Leahy

A review of the literature, and intensive individual study of problems concerned with the organization and administration of home economics at all school levels. 2 units.

M Tu W Th F, 1.

S282A or S282B. Selected Problems in Home Economics.

The Staff

Laboratory or field investigation in a specialized area of home economics. 2-4 units.

Hours to be arranged.

IRRIGATION AND SOILS

Martin R. Huberty, Engr., *Professor of Irrigation.*

Owen R. Lunt, Ph.D., *Assistant Professor of Soil Science.*

Arthur F. Pillsbury, Engr., *Professor of Irrigation.*

No formal undergraduate courses in irrigation and soils are offered during Summer Session. Course offerings are limited to special problems for advanced undergraduate and unclassified graduate students and research for regularly enrolled graduate students.

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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 19

S280A. Research in Irrigation and Soils.

The Staff

Prerequisite: regular graduate status, and consent of the instructor. 2-4 units.

Hours to be arranged.

ITALIAN

Carlo L. Golino, Ph.D., *Assistant Professor of Italian.*

Domenico Ortisi, Dottore in Giurisprudenza, *Acting Instructor.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S1. Elementary Italian.

Mr. Golino

For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.

M Tu W Th F, 10-12.

S2. Elementary Italian.

Mr. Ortisi

Continuation of course S1. Prerequisite: course 1 or equivalent, or two years of high school Italian. 4 units.

M Tu W Th F, 8-10.

120. Twentieth-Century Italian Novel in English Translation. Mr. Golino

Readings in English translation of the most important novels of the period. Authors such as Pirandello, Deledda, Papini, Palazzeschi, Panzini, Moravia, Bacchelli, Pavese, Pratolini, Vittorini, Levi, Berto, and others are considered. No knowledge of Italian required, no prerequisites. 2 units.

M Tu W Th F, 9.

S199. Special Studies in Italian.

The Staff

Prerequisite: senior standing, and at least 9 units of upper division Italian. 1-2 units.

JOURNALISM

Robert E. G. Harris, M.A., *Professor of Journalism.*

Ivan Innerst, M.S., *Assistant Professor of Journalism.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S2. An Introduction to Journalism.

Mr. Innerst

Offered to beginning students desiring a survey course in the growth, and practical application of journalism in American life. Lectures will be supplemented by laboratory work in reporting, editing, make-up, radio copy preparation and picture editing. 2 units.

M Tu W Th F, 9.

S101. History of American Journalism.

Mr. Harris

A study of the development of journalism in the United States as well as a consideration of great editorial leaders and recent trends and tendencies in the press. 2 units.

M Tu W Th F, 10.

S104. Reporting and News Workshop.

Mr. Harris

Lecture classes in the technique of preparing finished news copy are supplemented with laboratory work in headline writing, copy preparation, and reporting on special assignments. 2 units.

M Tu W Th F, 1.

S111. Sources and Methods in Public Relations.

Mr. Harris

A course relating industrial and institutional public relations to the field of mass communications through journalistic techniques and background. Newspaper practices and germane journalistic topics will be integrated into the course. 2 units.

M Tu W Th F, 11.

LAW

The School of Law will offer professional work in the eight-week Summer Session. No students beginning the study of law will be permitted to take these professional courses. Information concerning tuition and the courses to be offered may be obtained by writing to the Office of the Dean, School of Law, 405 Hilgard Avenue, Los Angeles 24, California.

MATHEMATICS

Clifford Bell, Ph.D., *Professor of Mathematics.*

John B. Butler, Ph.D., *Instructor in Mathematics.*

Richard Gilbert, M.A., *Assistant in Mathematics in the Summer Session.*

Charles J. A. Halberg, Jr., Ph.D., *Instructor in Mathematics, University of California, Riverside.*

Paul G. Hoel, Ph.D., *Professor of Mathematics.*

Kenneth M. Hoffman, M.A., *Associate in Mathematics in the Summer Session.*

Alfred Horn, Ph.D., *Associate Professor of Mathematics.*

Robert R. Phelps, B.A., *Assistant in Mathematics in the Summer Session.*

Elmer E. Osborne, Ph.D., *Assistant Research Mathematician.*

Robert H. Sorgenfrey, Ph.D., *Associate Professor of Mathematics.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

SC. Trigonometry.

Mr. Hoffman

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. Students with one and one-half years of high school algebra may enroll in Mathematics SD concurrently. 3 units.

M Tu W Th F, 8; Tu Th, 1.

SD. Intermediate Algebra.

Mr. Phelps

Simultaneous linear and quadratic equations, binomial theorem, progressions and logarithms. Prerequisite: at least one year of high school algebra. Not open for credit to students who have received credit for two years of high school algebra; or trigonometry and one and one-half years of high

school algebra; or any one of the following courses: E, 1, 3A, 32A, or 32B. 3 units.

M Tu W Th F, 9; M W, 2.

S1. College Algebra.

Mr. Sorgenfrey

Prerequisite: two years of high school algebra and trigonometry or Mathematics SC concurrently. 3 units.

M Tu W Th F, 9; Tu Th, 1.

S3A. Plane Analytic Geometry.

Mr. Horn

Prerequisite: trigonometry and Mathematics D or 1, or the equivalent. 3 units.

M Tu W Th F, 10; Tu Th, 2.

S3B. First Course in Calculus.

Mr. Hoffman

Differentiation of algebraic and transcendental functions with applications. Prerequisite: Mathematics 3A or the equivalent. 3 units.

M Tu W Th F, 11; Tu Th, 2.

S4A. Second Course in Calculus.

Mr. Butler

Integration with applications; infinite series. Prerequisite: Mathematics 3B, or the equivalent. Students in the College of Engineering may, upon approval of their College, substitute this course for Mathematics 6A. 3 units.

M Tu W Th F, 8; Tu Th, 1.

S4B. Third Course in Calculus.

Mr. Hoel

Solid analytic geometry, partial differentiation, multiple integration with applications. Prerequisite: Mathematics 4A or the equivalent. Students in the College of Engineering may, upon approval of their College, substitute this course for Mathematics 6B. 3 units.

M Tu W Th F, 10; Tu Th, 2.

S5B. Analytic Geometry and Calculus.

Mr. Halberg

A unified course in analytic geometry, differential calculus and introduction to integration for transcendental functions. Prerequisite: course 5A. 3 units.

M Tu W Th F, 11; M W, 1.

S6A. Differential and Integral Calculus.

Mr. Gilbert

Indefinite and definite integrals, technique of integration, applications, infinite series. Prerequisite: course 5B. 3 units.

M Tu W Th F, 8; Tu Th, 1.

S38. Fundamentals of Arithmetic.

Mr. Bell

Of interest to teachers and others who are concerned about the origin and fundamental principles of mathematics. The course will review arithmetic from the viewpoint of modern teaching methods. Prerequisite: sophomore standing. 3 units.

M Tu W Th F, 10:35–11:50.

S101A. Fundamental Concepts of Mathematics. Algebra.

Mr. Bell

A course designed especially for teachers and prospective teachers of secondary mathematics. Selected topics in algebra; number system; logical concepts; elementary functions; determinants and matrices. Prerequisite: course 37 or the equivalent. 3 units.

M Tu W Th F, 9–10:15.

S110C. Advanced Engineering Mathematics.

Mr. Halberg

Prerequisite: course 6B, or an equivalent course containing at least one unit of differential equations. Students who have credit for course 119A will be limited to 2 units of credit. 3 units.

M Tu W Th F, 1; Tu Th, 2.

S119A. Differential Equations.

Mr. Butler

Not open to students who have credit for course 110AB or 110C. Prerequisite: course 4B. 3 units.

M Tu W Th F, 11; Tu Th, 2.

S124. Vector Analysis.

Mr. Sorgenfrey

Vector algebra, vector functions and vector calculus, linear vector functions, field theory, transformations of integrals. Prerequisite: course 4B. 3 units.

M Tu W Th F, 10; Tu Th, 2.

S136. Matrix Inversion and Decomposition.

Mr. Osborne

Algebra of finite matrices. Spectral theory of finite matrices. Direct and iterative methods for inverting matrices and solving linear equations. Various methods for obtaining characteristic values and vectors of matrices. Prerequisite: courses 108 and 119A, or the equivalent. 3 units.

M Tu W Th F, 8; Tu Th, 1.

S199. Special Problems in Mathematics.

The Staff

1-3 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

230. Theory of Games.

Mr. Hoel

A mathematical theory of games of strategy with applications to various fields. The min-max theorem for finite and infinite games. Existence and properties of optimal strategies. Methods of solving and approximating optimal strategies. Prerequisite: course 122A and 122B, or the equivalent. 3 units.

M Tu W Th F, 9.

241. Partial Differential Equations.

Mr. Horn

Total differential equations. General first order partial differential equations. Method of characteristics. Linear second order partial differential equations. Riemann method of integration. Discussion of elliptic, hyperbolic, and parabolic types. Applications to mathematics, physics. Prerequisite: course 119A, 122A and 122B, or consent of the instructor. 3 units.

M Tu W Th F, 11.

S260. Seminar in Mathematics.

The Staff

3 units.

SIX-WEEK COURSE (Second Session)

(July 30 to September 7, 1956)

S6B. Differential and Integral Calculus.

Mr. Gilbert

Solid analytic geometry, partial differentiation, multiple integration with applications, ordinary differential equations. Upper division credit will be allowed to students who are not majors in mathematics or engineering who take the course while in upper division. Prerequisite: course 6A. 3 units.

M Tu W Th F, 8; Tu Th, 1.

METEOROLOGY

James G. Edinger, Ph.D., *Assistant Professor of Meteorology.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S3. Descriptive Meteorology.

Mr. Edinger

Elementary survey of the causes and regional distribution of weather and climate. 3 units.

M W F, 10; Tu Th, 10 and 11.

MUSIC

Gerhard Albersheim, Ph.D., *Acting Assistant Professor of Music.*
 David Baskerville, M.A., *Assistant in Music in the Summer Session.*
 Harry R. Edwall, M.M., *Acting Assistant Professor of Music.*
 Maurice Gerow, M.M., *Assistant Professor of Music.*
 Ralph Heidsiek, M.A., *Assistant in Music in the Summer Session.*
 Mantle Hood, Ph.D., *Instructor in Music.*
 Marjorie F. Kluth, M.A., *Supervisor of Training, Music.*
 Boris Kremenliev, Ph.D., *Associate Professor of Music.*
 Raymond Moremen, M.S.M., *Associate Professor of Music.*
 Robert U. Nelson, Ph.D., *Professor of Music.*
 Feri Roth, Mus. Doc., *Associate Professor of Music.*
 Walter H. Rubsamen, Ph.D., *Professor of Music.*
 Pauline Turrill, M.A., *Assistant in Music in the Summer Session.*
 Roger Wagner, Mus. Doc., *Lecturer, and Director of the Roger Wagner Chorale.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S1A. Musicianship.

Mr. Heidsiek

Prerequisite: ability to sight-read simple hymns at the piano.

Ear training, sight singing, dictation, and keyboard harmony correlated with Music S3A. Concurrent enrollment in Music S3A is required. A basic course for the major in music. 2 units.

M Tu W Th F, 8.

S3A. Harmony.

Mr. Kremenliev

Prerequisite: ability to sight-read simple hymns at the piano.

The harmonization of figured basses and of given and original melodies; triads, nonchord tones, and the dominant seventh. Correlated with Music S1A. Concurrent enrollment in Music S1A is required. A basic course for the major in music. 2 units.

M Tu W Th F, 9.

S30A. History and Appreciation of Music.

Mr. Albersheim

Designed for the general university student. Presents a broad survey of the history of music and the comparative developments of rhythm, melody and harmony from ancient times to Beethoven. Through the use of illustrative recordings and selected literature emphasis is placed on the principal composers and stylistic features of the Medieval, Renaissance, Baroque and Classical periods. 2 units.

M Tu W Th F, 9.

S30B. History and Appreciation of Music.

Mr. Roth

Designed for the general university student. A survey of great musical literature, including symphonies, operas, and chamber music, from Beethoven's time to the present. No prerequisites are required. 2 units.

M Tu W Th F, 10.

S31. Music for Classroom Teachers.

Mr. Heidsiek

Not open to students whose major is music.

Required of candidates for the general elementary credential. Emphasis upon developing the basic music skills essential to effective music teaching in the public schools. 2 units.

M Tu W Th F, 9.

S40. Voice.

Mr. Moremen

A basic course for the credential student. 2 units.
M Tu W Th F, 10.

S41. Piano.

Mrs. Turrill

A basic course for the credential student. 2 units.
M Tu W Th F, 1.

S61. University Band.

Mr. Baskerville

Extensive reading of new band literature, with emphasis on efficient rehearsal techniques. Opportunities for students to conduct, arrange and compose for the wind ensemble; an instrumental workshop. 2 units.
M Tu W Th F, 12.

S63. University A Cappella Choir.

Mr. Wagner

The study and performance of standard choral works. Prerequisite: consent of the instructor. 2 units.
M Tu W Th F, 12.

S100B. History and Analysis of Music.

Mr. Rubsamen

A study of the development of musical styles from 1750 to the present. Symphonies and symphonic poems by Mozart, Beethoven, Liszt, Brahms, and others will be analyzed in class. 4 units.
M Tu W Th F, 9, 10.

S109A-109B. Orchestration.

Mr. Kremenliev

Ranges and properties of instruments. Theory and practice of arranging for band and orchestra, with emphasis on problems of the school ensemble. Prerequisites: courses 3A-3B-3C, or consent of the instructor. 2 units.
M Tu W Th F, 8.

S110. Choral Conducting.

Mr. Wagner

The theory and practice of conducting choral organizations. A study of oratorios, cantatas, masses, and other choral literature from the director's point of view. Prerequisites: Music 3A-3B, or consent of the instructor. 2 units.
M Tu W Th F, 11.

S115B-115C. Instrumental Technique.

Mr. Baskerville

A practical and theoretical study of the technique of orchestra and band instruments, including the principles of arranging music for representative combinations. Appropriate literature for instrumental ensembles. 2 units.

S115B. Woodwind (2).

S115C. Brass (2).

M Tu W Th F, 1.

S136. Folk Music.

Mr. Hood

Through the media of recordings, photographic slides, demonstration and selected literature the student is acquainted with varieties of European and non-European music. The role of a given music in its society and relationship to other art forms are general considerations; specific objectives include a study of scale structures, principal instruments, musical forms and performance standards. 2 units.

M Tu W Th F, 11.

S140. Advanced Voice.

Mr. Moremen

Prerequisite: completion of 4 units of course 40 or its equivalent, and consent of the instructor. 2 units.

M Tu W Th F, 10.

S141. Advanced Piano.

Mrs. Turrill

Prerequisite: completion of 4 units of course 41 or its equivalent, and consent of the instructor. 2 units.

M Tu W Th F, 1.

S161. University Band.

Mr. Baskerville

Extensive reading of new band literature, with emphasis on efficient rehearsal techniques. Opportunities for students to conduct, arrange, and compose for the wind ensemble; an instrumental workshop. 2 units.

M Tu W Th F, 12.

S163. University A Cappella Choir.

Mr. Wagner

Prerequisite: completion of 4 units of course 63 or its equivalent, and consent of the instructor. 2 units.

M Tu W Th F, 12.

S166. Chamber Music Ensemble.

Mr. Roth

The study and interpretation of chamber music literature. Prerequisite: audition for consent of the instructor. 2 units.

M Tu W Th F, 12.

S170. History of Opera.

Mr. Edwall

A survey of operatic music from the early seventeenth century until the present. The chief works of Monteverdi, Lully, Handel, Gluck, Mozart, Beethoven, Verdi, Wagner, Strauss, and many others will be analyzed and discussed. 2 units.

M Tu W Th F, 8.

S199. Special Studies in Music.

Mr. Rubsamen in charge

Prerequisite: consent of the instructor. 1-4 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S200. Research Methods and Bibliography.

Mr. Nelson

Intended for graduate students in all fields of research: musicology, music education, theory, ethnomusicology. 2 units.

Hours to be arranged.

S264. Seminar in Ethnomusicology.

Mr. Hood

A study of folk music in the Pan-Pacific area. Prerequisite: Music 136 or the equivalent. 2 units.

Hours to be arranged.

S299. Special Problems in Music.

Mr. Rubsamen in charge

Prerequisite: consent of the instructor. 1-4 units.

Hours to be arranged.

PROFESSIONAL COURSES

S330. Music Education for Classroom Teachers. Mrs. Kluth, Mr. Gerow

Emphasis upon exploring musical literature and interpretive activities appropriate for children in elementary schools. Prerequisite: sophomore standing and course 31 or its equivalent. *Not open to students whose major is music.* Required of candidates for the general elementary credential. 2 units.

Section 1: M Tu W Th F, 9.

Section 2: M Tu W Th F, 10.

S370. Music Education in Secondary Schools.

Mr. Gerow

Organization and administration of music in secondary schools. Required of candidates for the general secondary credential with music as a major. Prerequisite: junior standing. 2 units.

M Tu W Th F, 10.

OCEANOGRAPHY

Robert S. Arthur, Ph.D., *Assistant Professor of Oceanography.*

Milton N. Bramlette, Ph.D., *Professor of Geology.*

Adriano A. Buzzati-Traverso, Ph.D., *Professor of Biology.*

Carl Eckart, Ph.D., *Professor of Geophysics.*

Denis L. Fox, Ph.D., *Professor of Marine Biochemistry.*

Francis T. Haxo, Ph.D., *Assistant Professor of Botany.*

Carl L. Hubbs, Ph.D., *Professor of Biology.*

Douglas L. Inman, Ph.D., *Assistant Professor of Marine Geology.*

Martin W. Johnson, Ph.D., *Professor of Marine Biology.*

Walter H. Munk, Ph.D., *Professor of Geophysics.*

Fred B. Phleger, Ph.D., *Associate Professor of Submarine Geology.*

Russell W. Raitt, Ph.D., *Associate Professor of Geophysics.*

Norris W. Rakestraw, Ph.D., *Professor of Chemistry.*

Roger R. Revelle, Ph.D., *Director of the Scripps Institution of Oceanography and Professor of Oceanography.*

Francis P. Shepard, Ph.D., *Professor of Submarine Geology.*

Claude E. ZoBell, Ph.D., *Professor of Marine Microbiology.*

The courses in Oceanography are given at the Scripps Institution of Oceanography at La Jolla, California, and are limited to accepted graduate students. For further information concerning the Institution, write to the Director.

EIGHT-WEEK COURSES

(June 18 to August 10, 1956)

RESEARCH COURSE**S199. Special Studies in Oceanography.**

The Staff

Introduction to the observational and experimental methods, research problems, and literature of one or more of the following oceanographic sciences: physical oceanography; submarine geology; chemical oceanography; biological oceanography, including marine biochemistry, marine microbiology, marine botany, marine vertebrates and invertebrates. Open to advanced students by arrangement. 1-4 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S299. Research in Oceanography.

The Staff

Research in one or more of the following oceanographic sciences: physical oceanography; submarine geology; chemical oceanography; biological oceanography, including marine biochemistry, marine microbiology, marine botany, marine vertebrates and invertebrates. Students must present evidence of satisfactory preparation for the work proposed. 1-6 units.

Hours to be arranged.

PHILOSOPHY

Abraham Kaplan, Ph.D., *Professor of Philosophy.*

Nathaniel Lawrence, Ph.D., *Assistant Professor of Philosophy.*

Robert Yost, Ph.D., *Associate Professor of Philosophy.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

S6A. Introduction to Philosophy.

Mr. Lawrence

Introducing the student to the central problems of philosophy in their classical statement and contemporary applications. 2 units.

M Tu W Th F, 10.

S20B. History of Modern Philosophy.

Mr. Yost

The Renaissance and the rise of modern science; rationalism in Descartes, Spinoza, Leibniz; empiricism in Locke, Berkeley, Hume; Kant and his successors; recent movements. 2 units.

M Tu W Th F, 10.

S30. Inductive Logic and Scientific Method.

Mr. Yost

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, 11.

S104A. Ethics.

Morality in theory and practice; the history and development of ethical theory. 2 units.

M Tu W Th F, 9.

S125. Nineteenth-Century Idealism and Romanticism.

Mr. Kaplan

The philosophies of post-Kantian idealism, romanticism and evolution, with special reference to Hegel, Schopenhauer, Nietzsche, and Bergson. 2 units.

M Tu W Th F, 9.

S146. Philosophy in Literature.

Mr. Lawrence

A study of philosophical ideas expressed in the literary masterpieces of Plato, Lucretius, Dante, Shakespeare, Goethe, Tolstoy, Lewis Carroll, Thomas Mann, and others. Prerequisite: 6 units in philosophy, or upper division standing. 2 units.

M Tu W Th F, 11.

S170A. Contemporary Philosophy.

Theories of knowledge and nature in Russell, Santayana, Whitehead, and others; logical positivism and logical empiricism; problems in philosophical analysis. Prerequisite: course 20B or consent of the instructor. 2 units.

M Tu W Th F, 11.

S175. Pragmatism.

Mr. Kaplan

A systematic and critical analysis of American pragmatism, with special reference to James, Dewey, and Mead. Prerequisite: 20B or consent of the instructor. 2 units.

M Tu W Th F, 11.

S199A. Selected Problems in Philosophy.

Mr. Yost in charge

Admission by special arrangement. 2-3 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

298A. Special Study: Selected Problems in Philosophy.Admission by special arrangement. 2-4 units. Mr. Kaplan in charge
Hours to be arranged.**PHYSICAL EDUCATION**

James G. Dunkelberg, M.S., *Junior Supervisor of Physical Education.*
 Stanley Gabrielsen, Ed.D., *Assistant Professor of Physical Education.*
 Donald Handy, Ed.D., *Associate Professor of Physical Education.*
 Alma M. Hawkins, Ed.D., *Associate Professor of Physical Education.*
 Edward B. Johns, Ed.D., *Professor of Physical Education.*
 Arden Johnson, M.S., *Junior Supervisor of Physical Education.*
 Marjorie E. Latchaw, Ph.D., *Assistant Professor of Physical Education.*
 Gene A. Logan, M.S., *Assistant Supervisor of Physical Education.*
 Ben W. Miller, Ph.D., *Professor of Physical Education.*
 Charles Nagel, Ph.D., *Assistant Professor of Physical Education.*
 Mary H. Pendleton, M.S., *Junior Supervisor of Physical Education.*
 William Pillich, M.S., *Assistant Supervisor of Physical Education.*
 Raymond A. Snyder, Ed.D., *Associate Professor of Physical Education.*
 Wilfred Sutton, Ed.D., *Associate Supervisor of Physical Education.*
 Mary Ellen Weber, M.S., *Junior Supervisor of Physical Education.*

The programs in health, physical, and recreation education are planned so that students may take (1) courses in physical activities, (2) courses leading to the general elementary and secondary credentials, as well as the degrees of Master of Science and Doctor of Education, and (3) courses leading to a major in health, physical, or recreation education.

Physical Education activity courses taken in the Summer Sessions do not fulfill, or partially fulfill, the physical education requirement in effect during regular session.

The tennis courts are open to students of the Summer Session daily, 9 a.m. to 5 p.m., except during scheduled class hours; Saturday, 7 a.m. to 1 p.m.

Recreation hours for swimming for men and women in the women's pool will be as follows: Monday through Thursday, 3 p.m. to 5 p.m., and 7 p.m. to 9 p.m.; Saturday, 12 noon to 4 p.m.; recreational swimming for women only in women's pool, Monday through Friday, 12 noon to 1 p.m.; recreational swimming for men only in men's pool, Monday through Friday, 12 noon to 2 p.m.

All facilities of the Department of Physical Education, including the gymnasium and fields, will be open for Summer Session recreation except during regular class hours.

SIX-WEEK COURSES*(June 18 to July 27, 1956)***3. Physical Education Activities (Men and Women).****Sec. 1. Badminton.**Instruction in badminton. $\frac{1}{2}$ unit.

M Tu W Th, 10.

Mr. Johnson

- Sec. 2-3. Social Dance (Beginning). Mr. Pillich
Instruction in social dancing. $\frac{1}{2}$ unit.
M Tu W Th, 10, section 2; M W, 7:30-9:30 p.m., section 3.
- Sec. 4. Dance (Folk and Square). Mr. Johnson
Participation in American and international folk and square dances using couple, circle, line, and square formations. $\frac{1}{2}$ unit.
M Tu W Th, 11.
- Sec. 5. Basic Fundamentals (Men). Mr. Dunkelberg
A variety of activities to meet specific individual needs. $\frac{1}{2}$ unit.
M Tu W Th, 11.
- Sec. 6. Body Mechanics (Women). Miss Weber
Fundamentals of body structure and functions: movement, postures, rest, and relaxation. $\frac{1}{2}$ unit.
Tu Th, 1, 2.
- Sec. 7-10. Tennis. Mr. Logan, Miss Weber
Elementary and intermediate tennis. $\frac{1}{2}$ unit.
M W, 8, 9, section 7; M W, 10, 11, section 8; Tu Th, 8, 9, section 9;
Tu Th, 10, 11, section 10.
- Sec. 11-13. Swimming. Miss Pendleton
Open to beginning and intermediate swimmers. $\frac{1}{2}$ unit.
M Tu W Th, 10, section 11; 11, section 12; 1, section 13.
- Sec. 14. Senior Lifesaving. Miss Pendleton
Personal safety skills and knowledges for aquatic adventure and survival. $\frac{1}{2}$ unit.
M Tu W Th, 2.
- Sec. 15-18. Golf. Mr. Gabrielsen, Mr. Dunkelberg
Instruction for elementary and intermediate golfers. $\frac{1}{2}$ unit.
M Tu W Th, 11, section 15; 1, section 16; 2, section 17; 3, section 18.
- Sec. 19. Recreational Games. Mr. Johnson
A variety of activities involving participation in limited outdoor space and at home. $\frac{1}{2}$ unit.
M Tu W Th, 9.

S23. Recreational Activities. Mr. Johnson
An introduction to a variety of social recreational activities, with opportunity for planning, participating, and leadership in music, dramatics, games and sports, camping, arts and crafts, dance, informal gatherings, and hobbies. 2 units.
Tu Th, 1, 2.

S27A. Elementary School Physical Education Activities. Mr. Nagel
Participation in playground activities designed for the elementary school child; emphasis on skills and knowledge leading to proficiency in physical education. 1 unit.
M Tu W Th F, 11.

S27B. Elementary School Physical Education Activities. Mr. Pillich
Participation in physical education activities in the classroom, gymnasium, and rhythm room which are designed for the elementary school child. 1 unit.
M Tu W Th F, 8, section 1; M Tu W Th F, 9, section 2.

S44. Principles of Healthful Living. Mr. Sutton
Fundamentals of healthful living designed to provide scientific health information, promote desirable attitudes and practices. A prerequisite to Physical Education 330 for all elementary school credential candidates. 2 units.
M Tu W Th F, 11.

S102. Adapted Physical Education. Mr. Logan
Concerned with growth and developmental patterns with implications for

special and regular physical education programs. Includes an analysis of postures and divergencies, with procedures for prevention and correction within the public schools. Prerequisite: course 100. 2 units.

M Tu W Th F, 8.

S138. Recreation and the School.

Mr. Gabrielsen

The role of the school and its staff in the total community recreation program. A study of school and community recreation programs with emphasis on basic principles, organization, and administration, supplemented with field trips. 2 units.

M Tu W Th F, 9.

S139. Principles of Recreation.

Mr. Gabrielsen

A consideration of philosophy and foundations of recreation, the environmental factors influencing it, and the basic principles underlying community organization and professional practice in recreation. 2 units.

M Tu W Th F, 10.

S145A. School Health Education.

Mr. Sutton

A study of the school health program as an integral part of the school curriculum; the underlying principles and functions of health instruction, health service, healthful school living; and the contributing community health agencies. Prerequisite: course 44 or consent of the instructor. 2 units.

M W, 1, 2 (1 hour to be arranged).

S145B. School Health Education.

Mr. Sutton

A synthesis of the major areas of health education in the elementary and secondary school program. Prerequisite: courses 44, 145A, and senior standing, or consent of the instructor. 2 units.

Tu Th, 1, 2 (1 hour to be arranged).

S153A. Dance Composition Workshop.

Miss Hawkins

Prerequisite: consent of the instructor.

Analysis of the elements and process of dance composition and practice in individual and group composition and evaluation. 2 units.

Tu Th, 1, 2 (1 hour arranged).

S171. Conditioning of Athletes and Care of Injuries.

Mr. Logan

Anatomical and physiological approach to conditioning as it relates to athletic teams. Prevention, examination, and care of athletic injuries, methods of taping, bandaging, and therapeutic exercises applied to athletic injuries; diets; training room equipment; protective devices; and supplies. Prerequisite: course 102 or consent of the instructor. 2 units.

Tu Th, 9, lecture; M W F, 9, laboratory.

S190C. Field Work in the Profession.

The Staff

(Recreation)

Observation and practical experiences in public, private, and/or voluntary agency programs. Prerequisite: course 140 or consent of the instructor. 2 units.

Hours to be arranged.

S190D. Field Work in the Profession.

The Staff

(Recreation)

Observation and practical experience in public, private, and/or voluntary agency programs. Prerequisite: course 140 or consent of the instructor. 2 units.

Hours to be arranged.

- S199. Special Studies in the Profession.** The Staff
(Individual)
Prerequisite: consent of the instructor. 1 to 4 units.
Hours arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

- S201. Secondary School Curriculum in Physical Education.** Mr. Handy
Seminar and laboratory assignments.
A study of physical education programs based on the needs of boys and girls in American secondary schools. (Required of fifth-year students preparing for the General Secondary Credential.) 2 units.
M W, 8, 9 (1 hour arrange).

- S227. Comparative Study of Materials and Methods in Dance.** Miss Hawkins
A study of educational ideas and practices as they relate to the various forms of dance; primarily designed for students in the fifth year preparing for the General Secondary Credential. 2 units.
M W, 10, 11.

- S235. Advanced Evaluation Procedures.** Miss Latchaw
Study and application of advanced evaluation procedures and scientific instruments in the solution of problems and projects. Prerequisite: course 135 or consent of the instructor. 2 units.
M W, 1, 2 (1 hour to be arranged).

- S245. Curriculum Development in Health Education.** Mr. Johns
The development of the health instruction program 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: course 145A-145B or consent of the instructor. 2 units.
M W, 10, 11 (1 hour to be arranged).

- S250. Changing Perspectives in the Profession. (Seminar)** Mr. Snyder
A student-staff examination of changing perspectives in the field directed toward the formulation of a working professional philosophy in the fields of health education, physical education and recreation. 2 units.
Tu Th, 10, 11 (1 hour arranged).

- S254. Current Problems in Health Education. (Seminar)** Mr. Johns
A critical analysis of new findings in the basic health education areas (nutrition, mental health, family health, consumer health, safety, communicable and chronic diseases) contributing to healthful living in the family, school, and community. 2 units.
Tu Th, 1, 2 (1 hour to be arranged).

- S256. Administrative Problems in Physical Education. (Seminar)** Mr. Snyder
A consideration of policies, problems and practices in school and college physical education administration; interrelationships with the general curriculum, and among the local, state, and federal levels. 2 units.
M W, 10, 11 (1 hour arranged).

- S275. Seminar in Health, Physical, and Recreation Education.** Mr. Handy
An exploration of research in the profession and a critical evaluation of

needed studies through survey of literature and other sources leading to the identification and analysis of individual research problems. 2 units.

Tu Th, 8, 9 (1 hour arranged).

S276. Methods of Research in Health, Physical, and Recreation Education.

Miss Latchaw

The scientific methods and techniques of research in the organization, solution, and writing of theses, dissertations, and other research studies and projects. Prerequisite: course 275 or consent of the instructor. 2 units.

M W, 8, 9 (1 hour to be arranged).

S299. Independent Study.

The Staff

Individual investigation of a special professional problem based on the research needs and interests of the student and developed and written according to acceptable research standards. Prerequisite: course 275 or consent of the instructor. 2-4 units.

Hours arranged.

PROFESSIONAL COURSES IN METHOD

S327A. Principles of Teaching Dance (Women).

Miss Hawkins

A study of methods, curricular materials, and evaluation procedures as related to the teaching of dance in the secondary schools. Prerequisite: course 35 or 154. 2 units.

M Tu W Th F, 9.

S330. Health, Physical, and Recreation Education in the Elementary School.

Mr. Nagel

A course to prepare the student to guide elementary-school-age children through a well-balanced program in health, physical, and recreation education. Study of aims and objectives, procedures, methods, evaluation and program planning. Prerequisite to all supervised teaching for the kindergarten-primary or general elementary credentials. Prerequisite: upper division standing, courses 27A-27B, and 44, or the equivalent, and Education 111. 2 units.

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

PHYSICS

T. Vernon Frazier, Ph.D., *Assistant Professor of Physics, University of Nevada.*

Stanley C. Freden, M.A., *Instructor in Physics in the Summer Session.*

Julius Sumner Miller, M.A., M.S., *Department of Physics, El Camino College.*

Norman A. Watson, Ph.D., *Professor of Physics.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

The Department of Physics offers two sequences of elementary general physics courses from which certain courses have been selected for offering in the Summer Session.

Physics 1A, 1B, 1C, and 1D form a sequence of courses in general physics for major students in physics and applied physics. All, or part, of the sequence is also required or recommended as first choice for major students in: astronomy, chemistry, engineering, meteorology, and certain interdepartmental fields of concentration. In addition, any student with the correct prerequisites may elect course 1A and subsequently any other course in the

sequence. From this sequence, S1A, S1C, and S1D are being given in this year's Summer Session.

Physics 2A and 2B form a one-year course in general physics which is required of students in the following fields: agriculture, bacteriology, geology, medical technology, pre dentistry, premedicine, preoptometry, prepublic health, and zoology. It is an alternate sequence (but only on approval of the appropriate departmental adviser) for major students in physics, applied physics, astronomy, chemistry, and meteorology. It is recommended for teachers and prospective teachers of high school physics. Any other student with correct prerequisites may elect course 2A and subsequently 2B. Course S2B is being given in this year's Summer Session.

S1A. General Physics: Mechanics of Solids.

Mr. Watson

Prerequisite: high school physics or chemistry; Mathematics 5A or 1-3A; Mathematics 3B taken concurrently; or equivalent courses. 3 units.

M Tu W Th F, 8, lecture; quiz, F, 9; laboratory, M F, 2-4, section 1; Tu Th, 2-4, section 2.

S1C. General Physics: Electricity and Magnetism.

Mr. Freden

Prerequisite: Physics 1A or 2A; Mathematics 5B or 4A taken concurrently; or equivalent courses. 3 units.

M Tu W Th F, 11, lecture; quiz, Th, 1, section 1; Th, 1, section 2; laboratory, M F, 2-4, section 1; Tu Th, 2-4, section 2; Tu Th, 4-6, section 3.

S1D. General Physics: Light and Sound.

Mr. Miller

Prerequisite: Physics 1A or 2A; Mathematics 5B or 4A taken concurrently; or equivalent courses. 3 units.

M Tu W Th F, 9, lecture; quiz, M, 1, section 1; M, 1, section 2; laboratory, M F, 2-4, section 1; Tu Th, 2-4, section 2.

S2B. General Physics: Electricity, Magnetism, and Light.

Mr. Miller

Prerequisite: (1) three years of high school mathematics, or (2) two years of high school mathematics and college algebra; Physics 2A, or its equivalent. 4 units.

M Tu W Th F, 10, lecture; quiz, M Tu Th, 12; laboratory, Tu Th, 2-4.

21. Supplementary Laboratory Courses in General Physics.

Mr. Watson in charge

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, 1D, 2B. 1 unit.

Students should enroll under one or more of the following numbers.

S21 (1A). Mechanics of Solids.

S21 (1C). Electricity and Magnetism.

S21 (1D). Light and Sound.

S21 (2B). Electricity, Magnetism, and Light.

For hours, consult Physics S1A, S1C, S1D, and S2B.

31. Supplementary Lecture Courses in General Physics.

Mr. Watson in charge

These courses are intended for students of the Summer Session who desire credit for the lecture portions only of S1A, S1C or S1D. 2 units.

Students should enroll under one or more of the following numbers.

31 (1A). Mechanics of Solids.

31 (1C). Electricity and Magnetism.

31 (1D). Light and Sound.

For hours, consult Physics S1A, S1C, S1D.

Students who are repeating Physics 1A, 1C, or 1D should enroll in those courses and not in Physics 31.

32. Supplementary Lecture Course in General Physics.

Mr. Watson in charge

This course is intended for students of the Summer Session who desire credit for the lecture portions only of S2B. 3 units.

Students should enroll under the following number.

32 (2B). Electricity, Magnetism, and Light.

For hours, consult Physics S2B.

Students who are repeating Physics 2B should enroll in that course and not in Physics 32.

S108B. Physical Optics.

Mr. Frazier

Wave motion, interference, diffraction, dispersion, polarization, and crystal optics. Prerequisite: a complete elementary physics course of college level and of two or more semesters; differential and integral calculus. Recommended: one upper division physics course. 3 units.

M Tu W Th F, 10, lecture; quiz, Tu Th, 12.

S108C. Physical Optics Laboratory.

Mr. Frazier in charge

Laboratory to accompany S108B. Prerequisite: Physics 108B, completed or concurrent, or its equivalent. 1 unit.

M F, 2-5, section 1; Tu Th, 2-5, section 2.

S112. Thermodynamics and Introduction to Kinetic Theory.

Mr. Frazier

The fundamentals of thermodynamics with applications to pure, unmixed substances. Classical kinetic theory of matter. Maxwell-Boltzmann statistical mechanics. Emphasis throughout is on logical foundations with a limited number of applications. Prerequisite: a complete elementary physics course of college level and of two or more semesters; differential and integral calculus. 3 units.

M Tu W Th F, 8, lecture; quiz, M F, 12.

S199. Special Problems in Physics.

Mr. Watson in charge

As in the regular semesters, enrollment in this course is on an individual basis and will be approved by the staff member in charge only upon recommendation of the staff member who will supervise the problem. 1-3 units.

Hours to be arranged.

COURSE LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S290. Research.

Mr. Watson in charge

As in the regular semesters, enrollment in this course is on an individual basis and will be approved by the staff member in charge only upon recommendation of the staff member who will supervise the research. 1-4 units.

Hours to be arranged.

SPECIAL COURSE**302B. Demonstrations in Electricity, Magnetism, and Light.**

Mr. Miller

These are the demonstrations of Physics S2B, supplemented by: (1) additional experiments to illustrate the methods of demonstration in physics, and (2) visits to the research laboratories of the department. The course is designed primarily for teachers of science in the secondary schools. Prerequisite: one semester of college physics, or one year of high school physics, or consent of the instructor. The course is not open for credit to those students who have credit for Physics 2B, or equivalent. 3 units.

M Tu W Th F, 10, and one two-hour meeting each week by arrangement.

PLANT PATHOLOGY

Kenneth F. Baker, Ph.D., *Professor of Plant Pathology.*

John G. Bald, Ph.D., *Professor of Plant Pathology.*

Pierre A. Miller, M.S., *Professor of Plant Pathology.*

Donald E. Munnecke, Ph.D., *Assistant Professor of Plant Pathology.*

No formal undergraduate courses in plant pathology are offered during the Summer Session. Course offerings are limited to special problems for advanced undergraduate and unclassified graduate students and research for regularly enrolled graduate students.

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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 19

S282A. Research in Plant Pathology.

The Staff

Prerequisite: regular graduate status, and consent of the instructor. 2-4 units.

Hours to be arranged.

POLITICAL SCIENCE

David T. Cattell, Ph.D., *Assistant Professor of Political Science.*

Ernest A. Englebert, Ph.D., *Associate Professor of Political Science.*

Douglas H. Mendel, Jr., Ph.D., *Instructor in Political Science.*

Robert G. Neumann, Ph.D., *Associate Professor of Political Science.*

Foster H. Sherwood, Ph.D., *Associate Professor of Political Science.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Prerequisite for upper division courses: upper division standing.

S1. Introduction to Government.

Mr. Mendel

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. 2 units.

M Tu W Th F, 10.

S2. Introduction to Government.

Mr. Cattell

A comparative study of constitutional principles, governmental institutions, and political problems of selected governments abroad. Not open to students who have had course 31. 2 units.

M Tu W Th F, 9.

S101. American Institutions.

Mr. Mendel

The fundamental nature of the American constitutional system and of the ideals upon which it is based. 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 course 1 or course 3A. 2 units.

M Tu W Th F, 10.

Group I—Political Theory**S112. Modern Political Theory.**

Mr. Sherwood

An exposition and critical analysis of the ideas of the major political philosophers from the eighteenth century to the present. 2 units.

M Tu W Th F, 10.

Group II—International Relations**S125. Foreign Relations of the United States.**

Mr. Mendel

A survey of the factors and forces entering into the formation and carrying out of American foreign policy, with special emphasis on contemporary problems. 2 units.

M Tu W Th F, 8.

S127. International Relations.

Institutions and agencies of international government, including the United Nations, with major stress on outstanding issues in contemporary diplomacy. 2 units.

M Tu W Th F, 10.

S131. World Politics and National Policies: Soviet Sphere. Mr. Cattell

A contemporary survey of the foreign policies and aspirations of the Soviet Union and other states in the Soviet bloc. 2 units.

M Tu W Th F, 11.

Group III—Politics**S145. Political Parties.**

Organization, functions, and practices of political parties primarily in the United States. 2 units.

M Tu W Th F, 10.

S146. Public Opinion and Propaganda.

A study of the formation of public opinion and of its role as a political factor in the modern state, with special reference to the United States. 2 units.

M Tu W Th F, 12.

Group IV—Comparative Government**S154. The Governments of Central Europe.**

Mr. Neumann

An intensive study of the political and constitutional organization of Germany and Danubian Europe, with special attention to contemporary political issues, parties, elections, and foreign relations. 2 units.

M Tu W Th F, 11.

S157. Governments of Western Europe.

Mr. Neumann

The constitutional and political structure and development of the countries of western continental Europe with special attention to contemporary problems. 2 units.

M Tu W Th F, 9.

Group V—Public Law

- S167A. Constitutional Law.** Mr. Sherwood
General principles of constitutional law, federal and state; relations and powers of the federal government and the states. 2 units.
M Tu W Th F, 8.

Group VI—Public Administration

- S181. Principles of Public Administration.** Mr. Engelbert
Introduction to the technical study of public administration, especially to the technical problems of staff organization and operation. 2 units.
M Tu W Th F, 9.
- S186. National Policy and Administration.** Mr. Engelbert
A study of the major policies and programs of the national government and their administration. 2 units.
M Tu W Th F, 11.

Ungrouped

- S199. Special Problems in Political Science.** The Staff
Sec. 11. Individual Study.
Admission for undergraduates of high scholarship, subject to consent of the instructor. 1-3 units.
Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

- S212. International Relations.**
An intensive analysis of the principles and practices of international organization, chiefly as illustrated in the operation of the United Nations and its specialized agencies. Prerequisite: consent of the instructor. 2 units.
M Tu W Th F, 12.
- S298. Special Study and Research for Master's Candidates.** The Staff
Prerequisite: consent of the instructor. 1-3 units.
Hours to be arranged.
- S299. Special Study and Research for Ph.D. Candidates.** The Staff
Prerequisite: consent of instructor. 1-4 units.
Hours to be arranged.

PSYCHOLOGY

- Richard Centers, Ph.D., *Assistant Professor of Psychology.*
James C. Coleman, Ph.D., *Associate Professor of Psychology.*
Andrew L. Comrey, Ph.D., *Assistant Professor of Psychology.*
Joseph A. Gengerelli, Ph.D., *Professor of Psychology.*
Wendell E. Jeffrey, Ph.D., *Assistant Professor of Psychology.*
Erwin J. Lotsof, Ph.D., *Assistant Professor of Psychology.*
Martin Scheerer, Ph.D., *Professor of Psychology, University of Kansas.*
W. N. Schoenfeld, Ph.D., *Associate Professor of Psychology, Columbia University.*
Joseph G. Sheehan, Ph.D., *Assistant Professor of Psychology.*
Zanwil Sperber, Ph.D., *Instructor in Psychology.*

General prerequisite for all upper division courses: courses 1A and 1B, or the equivalent.

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S1A. Introductory Psychology.**

Mr. Jeffrey

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, 2.

S1B. Elementary Physiological Psychology.

Mr. Gengerelli

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. Prerequisite: course 1A. 2 units.

M Tu W Th F, 11.

S33. Personal and Social Adjustment.

Mr. Sperber

Orientation in the practical use of psychological principles in problems and circumstances encountered in college and later life. Prerequisite: course 1A. 2 units.

M Tu W Th F, 12.

S105A. Mental Measurements.

Mr. Comrey

The construction, techniques of application, and interpretation of tests and scales. Practice in statistical procedures applicable to data derived from tests. 2 units.

M Tu W Th, 12; plus two hours of laboratory to be arranged.

S106A. Experimental Psychology.

Mr. Comrey

Methods, techniques, and typical results in experimental research in psychology. 2 units.

M Tu W Th F, 10.

S108. Physiological Psychology.

Mr. Gengerelli

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, 9.

S112. Child Psychology.

Mr. Jeffrey

An elaboration of the developmental aspects of physical, mental, social, and emotional growth from birth to adolescence. 2 units.

M Tu W Th F, 12.

S126. Contemporary Psychology.

Mr. Scheerer

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, 1.

S137. Learning: Simple Processes.

Mr. Schoenfeld

Basic facts of conditioning and other elementary forms of learning provide an introduction to the major contemporary theories. 2 units.

M Tu W Th F, 9.

S143. Propaganda and Public Opinion.

Mr. Centers

Propaganda as a form of communication. The detection, analysis and effects of propaganda. The creation, manipulation, and measurement of public opinion; the relation between public opinion and propaganda; the relation between the mass media of communication and public opinion and propaganda. 2 units.

M Tu W Th F, 1.

S145A. Social Psychology. General Course.

Mr. Centers

Interaction between the individual and the group; the individual in the group. Critical analysis of concepts of group mind, imitation and suggestion; rational and irrational motives in group living. Social motivation, attitudes, values, opinions, and beliefs, in relation to group personality structure. Adjustments and maladjustments as conditioned by cultural and subcultural group pressures. 2 units.

M Tu W Th F, 11.

S148. Personality Structure and Development.

Mr. Sperber

Consideration of the cultural and biological determinants of personality. 2 units.

M Tu W Th F, 10.

S161. The Psychology of Exceptional Children.

Mr. Lotsof

A study of the nature, diagnosis, and treatment of exceptional disabilities and problem behavior in individual children or special groups. Prerequisite: course 112 or equivalent. 2 units.

M Tu W Th F, 10.

S162. Speech Pathology.

Mr. Sheehan

A clinical approach to speech problems, with emphasis on stuttering and neurological disorders and their treatment. 2 units.

M Tu W Th F, 9.

S167A. Remedial Techniques in Basic School Subjects.

Mr. Coleman

The diagnosis and treatment of reading, spelling, and other school disabilities in children and adults. Clinical demonstration, testing, and training of typical cases. 2 units.

M Tu W Th F, 1.

***167B. Laboratory in Remedial Techniques.**

Mr. Coleman

It is recommended that 167B be taken concurrently with S167A. 2 units.

W, 2; plus laboratory to be arranged, M Tu W Th F, 9, 10, or 11.

S168. Abnormal Psychology.

Mr. Sheehan

Disorders of sensation, perception, feeling and thought; their nature, causation, effects on life, and amelioration. 2 units.

M Tu W Th F, 11.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S216. Critical Problems in Psychology.

Mr. Schoenfeld

Some of the critical problems in the field of psychology will be discussed, depending on the interests of the instructor and the class. This course may be repeated without duplication of credit. 2 units.

M W, 11, 12.

S217A. Clinical Psychology.

Mr. Lotsof

Discussion and integration of basic concepts in clinical psychology. Prerequisite: course 161 or 168, or equivalent. 2 units.

Tu Th, 12, 1.

* A Clinical School for children and adults of normal intelligence will be conducted in connection with the course, Laboratory in Remedial Techniques. Diagnostic tests will be given to each pupil admitted to the school, followed by remedial instruction for the period June 18 to July 27. Special attention will be given to disabilities in reading and other basic school skills. Opportunity will be given to members of the class, Laboratory in Remedial Techniques, Psychology S167B, to work under supervision in the Clinical School.

S222. Personality Dynamics.

A survey of the theoretical views of Freud, Jung, Adler, Rank, and various modern writers, including Allport, Lewin, Murray, and Murphy. 2 units.
Tu Th, 9, 10.

Mr. Scheerer

S278A-S278B. Research in Psychology.

Prerequisite: consent of the instructor. 2-4 units.
Hours to be arranged.

Mr. Gengerelli

S279A-S279B. Field Work in Clinical Psychology.

Practical work in hospitals and clinics in clinical diagnostic testing and psychotherapy. Open only to regular graduate students previously accepted in the clinical training program. 2-4 units.
Hours to be arranged.

Mr. Gengerelli

PROFESSIONAL COURSE**S401A-S401B. Internship in Applied Psychology.**

Open only to regular graduate students previously accepted in the training program. 2-4 units.
Hours to be arranged.

Mr. Gengerelli

SLAVIC LANGUAGES

Marie A. Mestchersky, *Associate in Russian.*

SIX-WEEK COURSE

(June 18 to July 27, 1956)

S1. Beginning Russian.

The first course in the Russian language. 4 units.
M Tu W Th F, 9-11.

Mrs. Mestchersky

SPANISH AND PORTUGUESE

José R. Barcia, Licenciado en Filosofía y Letras, *Associate Professor of Spanish.*

Stanley Robe, Ph.D., *Assistant Professor of Spanish.*

Francisco Sánchez-Castañer, Ph.D., *Visiting Professor of Spanish, University of Valencia, Spain.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Spanish**S1. Elementary Spanish.**

For beginners. Pronunciation, essentials of grammar, reading, conversation. 4 units.

M Tu W Th F, 8-10.

S2. Elementary Spanish.

Continuation of course S1. Grammar review, reading, conversation. Prerequisite: Spanish S1 or its equivalent, or two years of high school Spanish. 4 units.

M Tu W Th F, 8-10.

- S3. Intermediate Spanish.** Mr. Robe
Prerequisite: Spanish S2 or its equivalent, or three years of high school Spanish. 4 units.
M Tu W Th F, 8-10.
- S4. Intermediate Spanish.** Mr. Barcia
Prerequisite: Spanish S3 or four years of high school Spanish. 4 units.
M Tu W Th F, 10-12.
- 109. The Spanish Novel since 1930.** Mr. Sánchez-Castañer
Readings, class discussions, and lectures. 1 unit.
Tu Th, 2-3:15.
- 154. Modern Spanish Drama.** Mr. Barcia
Readings, class discussion, and lectures. 2 units.
M Tu W Th F, 1.
- 162. Venezuelan Literature.** Mr. Robe
Readings, class discussions, and lectures. 2 units.
M Tu W Th F, 11.
- S199. Special Studies in Spanish.** The Staff
1-3 units.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

- 216. Studies in Cervantes.** Mr. Sánchez-Castañer
M Tu W Th F, 12.
2 units.
- 290. Special Study and Research.** The Staff
1-4 units.

SPEECH

Earl R. Cain, Ph.D., *Assistant Professor of Speech.*
Waldo Phelps, Ph.D., *Assistant Professor of Speech.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

- S1A. Elements of Public Speaking.**
The principles and practice of effective speech composition and delivery.
Prerequisite: Subject A. 2 units.
M Tu W Th F, 9, Section 1.
M Tu W Th F, 10, Section 2. Mr. Phelps
- S3A. Basic Voice Training.**
Voice physiology, phonetics, and voice drills. Prerequisite: Subject A.
2 units.
M Tu W Th F, 10, Section 1. Mr. Cain
M Tu W Th F, 11, Section 2. Mr. Phelps
- S107. Principles of Argumentation.** Mr. Cain
Analysis of propositions, tests of evidence, briefing. Study of hindrances to clear thinking, of ambiguity of terms, or prejudice. Prerequisite: course 1B or consent of the instructor. 2 units.
M Tu W Th F, 11.

SUBJECT A (English Composition)

Gretchen Martin, M.A., *Associate in Subject A.*

Myrtle Mulligan, M.A., *Associate in Subject A.*

SIX-WEEK COURSE

(June 18 to July 27, 1956)

A. (Elementary Composition.)

Training in correct writing, including drill in sentence and paragraph construction, diction, punctuation, grammar, and spelling. Compositions and written tests on the texts. Students registering in Subject A may not enroll for more than 4 units of credit. No credit for Subject A.

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

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

Mrs. Mulligan

Miss Martin

SUBTROPICAL HORTICULTURE

Jacob B. Biale, Ph.D., *Professor of Subtropical Horticulture.*

Sidney H. Cameron, Ph.D., *Professor of Subtropical Horticulture.*

Robert W. Hodgson, M.S., *Professor of Subtropical Horticulture.*

George F. Ryan, Ph.D., *Assistant Professor of Subtropical Horticulture.*

Charles A. Schroeder, Ph.D., *Associate Professor of Subtropical Horticulture.*

Leland M. Shannon, *Assistant Professor of Subtropical Horticulture.*

Arthur Wallace, Ph.D., *Assistant Professor of Subtropical Horticulture.*

No formal undergraduate courses in subtropical horticulture are offered during the Summer Session. Course offerings are limited to special problems for advanced undergraduate and unclassified graduate students and research for regularly enrolled graduate students.

SIX-WEEK COURSES

(June 18 to July 27, 1956)

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 19

S281A. 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 Boyle, Ph.D., *Associate Professor of Theater Arts.*

Ralph Freud, *Professor of Theater Arts.*

Arthur Friedman, Ph.D., *Assistant Professor of Theater Arts.*

Fred Gerber, M.S., *Lecturer in Theater Arts.*

Richard Hawkins, M.A., *Associate in Theater Arts.*

Walter Kingson, Ed D., *Associate Professor of Theater Arts.*
 William Melnitz, Ph.D., *Associate Professor of Theater Arts.*
 Richard Tumin, A.B., *Lecturer in Theater Arts.*

SIX-WEEK COURSES

(June 18 to July 27, 1956)

Where prerequisites to upper division courses are not stated, it is understood these courses are open only to students who have junior standing or its equivalent.

S2A. Acting Fundamentals.

Mr. Freud

The acting process. Exercises in characterization, interpretation, speech, diction, and movement. 2 units.

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

S27. Film Techniques.

Mr. Hawkins

Techniques and practices in photography, sound, editing, direction, animation, design, writing, management, and budgeting for the motion picture, and their place in theater arts. 2 units.

M Tu W Th F, 9.

S104. History of the American Theater.

Mr. Freud

The history of the American theater from the Revolutionary War to the present. 2 units.

M Tu W Th F, 11.

S105. Readings for the Contemporary Theater.

Mr. Boyle

Study and discussion of modern theories and styles of production, direction, and acting, based on readings in definite works on the modern theater. 2 units.

M Tu W Th F, 10.

S106. Fundamental Problems of Writing for Theater Arts.

Analysis of story structure, character, thematic approach, and author's point of view, in the creation of dramatic material meant for production in the mass media. Special problems of story synopsis with constructive critical commentary by instructors and class. 2 units.

M Tu W Th F, 12.

S112. Radio Speech.

Mr. Friedman

Study and practices of microphone technique for announcing, news commentation, and public service programs. 2 units.

M Tu W Th, 11, lecture; F, 1, 2, laboratory.

S123. Workshop in Educational Radio.

Mr. Friedman

Script and production problems of school broadcasting. The use of radio in the classroom to stimulate student creative self-expression. Transcription demonstrations and production practice under studio conditions. 2 units.

M Tu W Th F, 10.

129C-D-E. Summer Radio Workshop.

Mr. Kingson, Mr. Tumin, Mr. Gerber

A creative laboratory course in broadcasting, involving the preparation of programs for actual production and transmission at a local radio station. 2 units for each part, total, 6 units.

M Tu W Th F, 1-5; other laboratory hours to be arranged.

The three parts of this course must be taken concurrently. Students will not be permitted to carry more than 6 units of work in the six-week Summer Session.

S156A. Dramatic Direction.

Mr. Boyle

Studies in analysis of dramatic materials and techniques of directorial restatement in theatrical terms. Prerequisite: course 105 or consent of the instructor. 2 units.

M Tu W Th F, 11.

S164A. Motion Picture Direction.

Mr. Hawkins

Basic study of the theories of the directional process in motion pictures. Lecture, two hours. 2 units.

M Tu W Th F, 11.

S165A. Motion Picture Editing.

The mechanics of film cutting. 2 units.

Tu W Th, 10, lecture; laboratory, M, 1-5, section 1, or W, 1-5, section 2, or F, 1-5, section 3; other laboratory hours to be arranged.

S166A. Writing for the Screen.

Theory and practice in the writing of fictional film script. Prerequisite: consent of the instructor. Recommended preparation: English 106D-106E or Theater Arts 106. 2 units.

M Tu W Th F, 1.

S181A. Motion Picture Photography.

An elementary course in optics, photographic chemistry, sensitometry, lighting, and operation of all major 16 mm cameras, with practical work during laboratory hours. 2 units.

Tu W Th, 9, lecture; laboratory, Tu, 1-5, section 1, or Th, 1-5, section 2.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S200. Bibliography and Methods of Research in the Theater Arts.

2 units.

Mr. Melnitz

M Th, 2-3:30.

S272. Seminar in Theater History.

Mr. Melnitz

Exploration of a selected area of theatrical history. Guided reading in University, Clark, and Huntington libraries. Presentation of fully annotated written reports of independent investigation. 2 units.

Tu F, 2-3:30.

ZOOLOGY

Frederick Crescitelli, Ph.D., *Professor of Zoology.*

Reed A. Flickinger, Ph.D., *Assistant Professor of Zoology.*

Richard P. Hall, Ph.D., *Professor of Zoology, New York University.*

Lyle Herbst, M.A., *Lecturer in Education, Life Sciences.*

Gretchen L. Humason, M.A., *Lecturer in Microscopic Technique.*

Theodore L. Jahn, Ph.D., *Professor of Zoology.*

Malcom E. McDonald, Ph.D., *Assistant Professor of Zoology, Union College.*

William G. Reeder, Ph.D., *Instructor in Zoology.*

Nicholas Ricchiuti, B.S., *Associate in Zoology.*

A. Mandel Schechtman, Ph.D., *Professor of Zoology.*

SIX-WEEK COURSES*(June 18 to July 27, 1956)***S4. Histological Technique.**

Mrs. Humason

Lectures and laboratory in histological technique. Prerequisite: Zoology 1B, 15, or the equivalent, or consent of the instructor. 2 units.

M Tu W Th F, 9-12, conflict at 11 permitted.

S5. Technique for Tissue Technicians.

Mrs. Humason

Designed to supplement course 4 with additional training necessary for tissue technicians. Prerequisite or concurrent: course 4 and consent of instructor. 1 unit.

Hours to be arranged.

S15. Elementary Zoology and Physiology.

Mr. Ricchiuti

An introduction to the facts and principles of animal biology and physiology. 5 units.

M Tu W Th F, 11, lecture; laboratory, M Tu W Th F, 8-11, section 1; 1-4, section 2.

S100A. Vertebrate Embryology.

Mr. Flickinger

Study of the embryonic development of the main classes of vertebrates, with emphasis in the laboratory on the amphibia, bird and mammal. Prerequisite: Zoology 1A, 1B, or the equivalent. 4 units.

M Tu W Th F, 1, lecture; laboratory: 8-11, section 1; 2-5, section 2.

S102. Vertebrate Physiology.

Mr. Crescitelli

Physiology of those systems which are concerned with the integration of body functions and with determination of behavior. Designed particularly for majors in psychology and related fields. Prerequisite: upper division standing. 2 units.

M Tu W Th F, 9.

S110. Protozoology.

Mr. Hall

Prerequisite: course 1A. 4 units.

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

S127. Immunobiology.

Mr. Schechtman

Antibody production in the vertebrates, including the blood groups of man and animals; their use in the study of various problems of biology, including systematics and genetics. Prerequisite: at least one year of biological science or consent of the instructor. 2 units.

M Tu W Th F, 2.

S134. Biology of Birds and Mammals.

Mr. Reeder

Prerequisite: course 1A, 1B. 2 units.

M Tu W Th F, 11.

S134C. Laboratory in Birds and Mammals.

Mr. Reeder

Prerequisite or concurrent: course 134. 2 units.

M Tu W Th F, 2-5.

S195A or S195B. Reading in Zoology.

The Staff

Library problems. Prerequisite: senior standing. 2 units.

Hours to be arranged.

S199A or S199B. Problems in Zoology.

The Staff

Prerequisite: senior standing, with such special preparation as the problem may demand. 2 units.

Hours to be arranged.

COURSES LIMITED TO GRADUATE STUDENTS

For conditions of enrollment, see page 19

S251C. Seminar in Ecology of Birds and Mammals. Mr. McDonald
1 unit.
Hours to be arranged.

S263. Seminar in Physiology of Microorganisms. Mr. Hall
1 unit.
Hours to be arranged.

S290A or S290B. Research in Zoology. Mr. Jahn
Prerequisite: graduate standing with such special preparation as the problem may demand. 2-4 units.
Hours to be arranged.

Biology

S12. General Biology. Mr. McDonald
The biology of our environment, the common animals and some plants of southern California; their interrelationships, and their relationship to climate. Prerequisite: high school biological science or the equivalent, or consent of the instructor. 3 units.
M Tu W Th F, 10, lecture; F, 2, 3, 4, laboratory demonstration or field trips.

Life Science

Life Sciences S370. Methods and Materials for Teaching Life Science.

Mr. Herbst
Classroom materials, procedures and techniques used in teaching biology, human health and hygiene, human physiology, botany, and zoology (grades 7-12). Including: audio-visual aids; bibliographies; experiments; sources of free materials; curriculum planning; semester projects; and techniques of collecting, preserving, and identifying the flora and fauna of southern California. Lectures, demonstrations in a high school classroom, and field trips. Prerequisite: graduate or senior standing. 3 units.
M Tu, 1-4.

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An aerial, black and white photograph of the Santa Barbara College campus. The image shows a large, rectangular building complex with a central courtyard, surrounded by a fence. The campus is situated on a hillside, with a road and parking areas visible. In the background, there are rolling hills and mountains under a clear sky.

SANTA
BARBARA
COLLEGE

Summer Session, 1956

UNIVERSITY OF CALIFORNIA

PROGRAM

	Monday	Tuesday	Wednesday	Thursday	Friday
7:35- 8:50					
8:00- 8:50					
9:00- 9:50					
10:00-10:50					
11:00-11:50					
11:00-12:15					
12:00- 1:00					
12:35- 1:50					
1:00- 1:50					
2:00- 2:50					
2:00- 3:15					
3:00- 3:50					
4:00- 4:50					

UNIVERSITY OF CALIFORNIA

Summer Session

1956

June 25 to August 3, 1956

(Six Weeks)

SANTA BARBARA COLLEGE

SUMMER SESSION

JUNE 25 TO AUGUST 3, 1956

CALENDAR

May 14–May 23 . . . Preregistration counseling required of all students in attendance spring semester, 1956. By appointment with faculty adviser.

June 23, Saturday, 9 a.m.–11:30 a.m. Registration of all students

June 25, Monday Classes begin

July 2, Monday . . . Last day to change study program without petition

July 4, Wednesday Academic and administration holiday

August 3, Friday Last day of classes, final examinations

* REGISTRATION PROCEDURE

June 23, Saturday, 9 a.m.–11:30 a.m. Registration, Gymnasium

Fees. Students will be admitted to the Gymnasium for registration only upon presentation of fee payment receipt. Fees may be paid at the Cashier's Office, Building 427, any time in advance of registration, May 14–June 22, or on registration day, June 23, 8 a.m.–11:30 a.m. Students in attendance spring semester are encouraged to pay their fees prior to the close of the semester in order to speed up their registration. No fees will be accepted in the Gymnasium.

Counseling. Registration books will be released only upon presentation of an approved counseling card. Students in attendance spring semester must obtain this approved card prior to the close of the semester. Students not in attendance spring semester will be sent to their faculty adviser in the Gymnasium before obtaining registration book.

* *Detailed instructions will be issued at time of registration.*

For information concerning fall and spring semester offerings at Santa Barbara College, write to the Registrar, University of California, Santa Barbara College, Goleta, 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

SANTA BARBARA COLLEGE

NOTICE OF INTENTION TO REGISTER

Summer Session, 1956

This notice should be submitted to the Registrar, Santa Barbara College, by June 4. In cases 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 name

Middle name

Family name

Present address:

Permanent P.O. address:.....

Will you be 21 years of age or over on June 25, 1956? Yes..... No.....

In general, students who are more than twenty-one years of age are admitted to the Summer Session regardless of educational background, unless they are working for a degree or credential. Admission will be granted to persons under twenty-one years of age who are graduates of secondary schools.

Are you a high school graduate?.....Year of graduation.....

Name and location of school.....

Have you ever attended Santa Barbara College? Yes..... No.....

Students currently enrolled in Santa Barbara College, who are subject to dismissal for academic reasons or who are on contract may not register for Summer Session except by permission of the Committee on Reinstatement.

Do you plan to enter the College in a regular session? Yes..... No.....

If so, you must file formal application for admission. This Summer Session Notice of Intention to Register is not accepted by the Registrar as an application to a regular session. College transfers must be in good standing.

Applicant's signature.....Date:....., 1956



THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

- His Excellency, **GOODWIN J. KNIGHT, A.B.**
Governor of California and President
of the Regents
State Capitol, Sacramento 14
- HAROLD J. POWERS**
Lieutenant-Governor of California
State Capitol, Sacramento 14
- LUTHER H. LINCOLN**
Speaker of the Assembly
4000 Redwood rd, Oakland 19
- ROY E. SIMPSON, M.A., Litt.D.**
State Superintendent of Public
Instruction
721 Capitol av, Sacramento 14
- ARTHUR J. MCFADDEN, B.S., LL.B.**
President of the State Board of
Agriculture
902 River lane, Santa Ana
- WILLIAM G. MERCHANT**
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4
- EDWIN L. HARBACH**
President of the Alumni Association of
the University of California
609 S Grand av, Los Angeles 17
- ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.**
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles 24

APPOINTED REGENTS

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

- EDWIN W. PAULEY, B.S. (1970)**
717 N Highland av, Los Angeles 38
- BRODIE E. AHLPORT, A.B. (1956)**
5657 Wilshire blvd, Los Angeles 36
- EDWARD H. HELLER, A.B. (1958)**
100 Montgomery st, San Francisco 4
- VICTOR R. HANSEN, LL.B. (1962)**
Superior Court, Courthouse,
Los Angeles 12
- EARL J. FENSTON, A.B. (1964)**
504 Helm bldg, Fresno 1
- CORNELIUS J. HAGGERTY (1966)**
995 Market st, Room 810,
San Francisco 3
- JESSE H. STEINHART, A.B., LL.B. (1962)**
111 Sutter st, San Francisco 4
- DONALD H. MCLAUGHLIN, B.S., M.A.,
Ph.D., D.Eng. (1966)**
100 Bush st, San Francisco 4
- GUS OLSON, B.S. (1960)**
Clarksburg
- GERALD H. HAGAR, A.B., J.D. (1964)**
Central Bank bldg, Oakland 12
- HOWARD C. NAFFZIGER, B.S., M.S., M.D.
(1968)**
University of California Medical Center,
San Francisco 22
- EDWARD W. CARTER, M.B.A. (1968)**
401 S Broadway, Los Angeles 18
- MRS. DOROTHY B. CHANDLER (1970)**
202 W First st, Los Angeles 58
- THOMAS M. STORKE, A.B. (1960)**
Santa Barbara News-Press,
De La Guerra plaza, Santa Barbara

OFFICERS OF THE REGENTS

- His Excellency, **Goodwin J. Knight, A.B.**
Governor of California
President
State Capitol, Sacramento 14
- Robert M. Underhill, B.S.**
Secretary and Treasurer
240 Administration bldg, Berkeley 4
- James H. Corley, B.S., Vice-President—
Business Affairs**
250 Administration bldg, Berkeley 4
- Raymond W. Kettler, M.A., Controller**
401 Administration bldg, Berkeley 4
- George E. Stevens, Assistant Controller**
401 Administration bldg, Berkeley 4
- Thomas J. Cunningham, A.B., LL.B.**
General Counsel of the Regents
128 Administration bldg, Berkeley 4
- Ashley H. Conard, B.L., J.D.**
Associate Counsel of the Regents and
Attorney in Residence Matters
128 Administration bldg, Berkeley 4
- John E. Landon, A.B., LL.B.**
Associate Counsel of the Regents
128 Administration bldg, Berkeley 4
- R. Bruce Hoffe, A.B., LL.B.**
Assistant Counsel of the Regents
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Assistant Counsel of the Regents
128 Administration bldg, Berkeley 4
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Treasurer and Assistant Secretary**
240 Administration bldg, Berkeley 4
- Miss Marjorie J. Woolman**
Assistant Secretary
240 Administration bldg, Berkeley 4

UNIVERSITY OF CALIFORNIA

GENERAL ADMINISTRATIVE OFFICERS

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Richard J. Stull, A.B., *Vice-President—Medical and Health Sciences.*
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Claude B. Hutchison, M.S., LL.D., D.Agr. (hon.c.), *Vice-President of the University and Dean of the College of Agriculture, Emeritus.*
Robert M. Underhill, B.S., *Secretary and Treasurer of the Regents.*
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———, *Director of Relations with Schools.*

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Donald C. Davidson, Ph.D., *Acting Dean of Applied Arts and Librarian.*
Elmer R. Noble, Ph.D., *Dean of Letters and Science.*
Lewis F. Walton, Ph.D., *Acting Dean of Letters and Science.*
Paul W. Wright, Ph.D., *Registrar.*
Helen E. Keener, Ph.D., *Dean of Women.*
Lyle G. Reynolds, Ed.D., *Dean of Men.*
Elmer L. Chalberg, M.S., *Placement Executive.*
Wilfred T. Robbins, M.D., *Director of Student Health Service.*
Herbert S. Thomson, A.B., *Business Manager.*
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Lionel J. Livesey, A.B., *Administrative Assistant to the Provost.*
George Obern, A.B., *Manager, Office of Public Information.*
Willard L. McRary, Ph.D., *Assistant Director, Relations with Schools.*

SUMMER SESSION

J. Harold Williams, Ph.D., Coördinator of Summer Sessions and Professor of Education, State-wide.

MEMBERS OF THE FACULTY

- Arch R. Addington, M.A.....*Professor of Geology, Fresno State College*
A.B., Indiana University, 1922; M.A., 1925.
- Marion P. Alves, M.A.....*Associate in Home Economics*
B.S., University of Minnesota, 1936; M.A., 1941.
- J. Roy Barron, Ed.D.....*Coordinator Audio-Visual Services, Santa Barbara*
County Schools
B.S., The Citadel, 1941; M.A., Columbia University, 1947; Ed.D., University of Southern California, 1951.
- A. Russell Buchanan, Ph.D.....*Professor of History*
A.B., Stanford University, 1927; M.A., 1928; Ph.D., 1935.
- Jerry H. Clark, Ph.D.....*Assistant Professor of Psychology*
A.B., Southern Methodist University, 1933; M.A., 1936; Ph.D., University of Texas, 1948.
- Cedric B. Cowing, Ph.D.....*Acting Instructor in History*
A.B., Stanford University, 1948; A.M., 1950; Ph.D., University of Wisconsin, 1955.
- E. Burnham Dunton, Ed.D.....*Assistant Professor of Industrial Arts*
B.S., Rutgers University, 1932; M.A., Columbia University, 1936; Ed.D., New York University, 1940.
- John E. Gillespie, Ph.D.....*Assistant Professor of Music*
A.B., DePauw University, 1941; M.A., University of Southern California, 1948; Ph.D., 1951.
- Stephen S. Goodspeed, Ph.D.....*Associate Professor of Political Science*
A.B., University of California (Berkeley), 1936; Ph.D., 1947.
- Genevieve W. Haight, M.A.....*Assistant Professor of English*
B.S., University of Idaho, 1928; M.A., Columbia University, 1933.
- J. Frederick Halterman, Ph.D.....*Professor of Economics*
B.S., University of California (Berkeley), 1929; M.S., 1930; Ph.D., 1935.
- Jean L. Hodgkins, Ed.D.....*Associate Professor of Physical Education*
B.E., University of California (Los Angeles), 1936; M.A., Columbia University, 1937; Ed.D., 1952.
- Thomas F. Hout, Ph.D...*Assistant Professor of Sociology, Wayne University*
A.B., University of Illinois, 1942; M.A., Whittier College, 1948; Ph.D., University of Southern California, 1951.
- Mildred D. Hoyt, Ed.D.....*Assistant Professor of Education*
A.B., Central State College of Oklahoma, 1939; M.A., George Peabody College, 1945; Ed.D., Stanford University, 1955.
- Mayville S. Kelliher, Ed.D.....*Assistant Professor of Physical Education*
A.B., Santa Barbara State Teachers College, 1934; M.S., University of Oregon, 1948; Ed.D., 1955.

- Edith M. Leonard, M.A.....*Professor of Education*
B.E., National College of Education, 1924; M.A., Claremont Colleges, 1930.
- Edmond E. Masson, Ph.D.....*Assistant Professor of French*
A.B., Stanford University, 1929; M.A., 1930; Ph.D., University of California (Berkeley), 1950.
- Robert A. McCoy, Ed.D.....*Assistant Professor of Industrial Arts*
B.S., Bowling Green State University, 1933; M.Ed., University of Colorado, 1946; Ed.D., Oregon State College, 1953.
- Shirley A. Munger, M.A.....*Instructor in Music*
A.B., University of Washington, 1946; M.A., 1951.
- Upton S. Palmer, Ph.D.....*Assistant Professor of Speech*
A.B., University of Redlands, 1928; M.A., State University of Iowa, 1930; Ph.D., University of Michigan, 1950.
- Elsie A. Pond, M.A.....*Associate Professor of Education*
A.B., Stanford University, 1919; M.A., 1920
- Rollin W. Quimby, Ph.D.....*Assistant Professor of Speech*
A.B., Ohio Wesleyan University, 1943; M.A., University of Michigan, 1947; Ph.D., 1951.
- Winston A. Reynolds, M.A.....*Acting Instructor in Spanish*
A.B., University of California (Los Angeles), 1950; M.A., 1951.
- Maurice F. Richards, Ph.D.....*Assistant Professor of Industrial Arts*
B.S., Northern Michigan College of Education, 1935; M.S., University of Michigan, 1941; Ph.D., University of Missouri, 1950.
- William A. Rohrbach, M.A.....*Assistant Professor of Art*
A.B., University of Michigan, 1948; M.A., University of California (Berkeley), 1951.
- Lester B. Sands, Ed.D.....*Professor of Education*
A.B., Stanford University, 1929; M.A., 1933; Ed.D., 1939.
- Joseph J. Sayovitz, Ph.D.....*Assistant Professor of Industrial Arts*
B.S., Minnesota State Teachers College (St. Cloud), 1941; M.S., Iowa State College, 1947; Ph.D., University of Minnesota, 1955.
- Paul L. Scherer, Ed.D.....*Assistant Professor of Industrial Arts*
B.S., Ohio State University, 1930; M.A., Western Reserve University, 1938; Ed.D., 1951.
- Kermit A. Seefeld, Ed.D.....*Associate Professor of Industrial Arts*
B.Ed., State Teachers College (Oshkosh), 1932; M.Ed., Colorado Agricultural and Mechanical College, 1946; Ed.D., Stanford University, 1949.
- Lealand D. Stier, Ph.D.....*Assistant Professor of Education*
A.B., University of California (Berkeley), 1935; M.A., 1941; Ph.D., 1948.
- Richard G. Stoneham, Ph.D.....*Assistant Professor of Mathematics*
Sc.B., Illinois Institute of Technology, 1942; Sc.M., Brown University, 1944; Ph.D., University of California (Berkeley), 1952.
- Edward L. Triplett, Ph.D.....*Acting Instructor in Biology*
A.B., Stanford University, 1951; Ph.D., 1956.
- Howard Warshaw.....*Acting Instructor in Art*

- Charles W. Webster, Ed.D.....*Principal, Junior High School, Ventura*
A.B., University of California (Berkeley), 1938; M.S., University of South-
ern California, 1942; Ed.D., 1952.
- John H. Wilding, M.A.....*Teacher, Santa Barbara High School*
B. Architecture, Catholic University of America, 1950; M.A., Columbia Uni-
versity, 1951.
- Lawrence Willson, Ph.D.....*Assistant Professor of English*
A.B., Wesleyan University, 1934; M.A., Yale University, 1942; Ph.D., 1944.
- J. A. R. Wilson, Ed.D.....*Assistant Professor of Education*
A.B., University of British Columbia, 1932; M.A., 1939; Ed.D., Oregon
State College, 1951.
- Marie Wilson, M.S.....*Assistant Professor of Home Economics*
B.S., Iowa State College, 1925; M.S., Colorado Agricultural and Mechanical
College, 1940.

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 as to sex, creed, or race, and its instruction covers all the broad and essential fields of human knowledge, including the arts, the sciences, and literature. Moreover, it 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 Goleta (Santa Barbara College). In addition to its centers of resident instruction, the University of California maintains a state-wide extension service.

SANTA BARBARA COLLEGE

THE CAMPUS

Santa Barbara College is situated on a scenic 408-acre location on the Pacific Ocean, ten miles west along the coast from the city of Santa Barbara, near Goleta. This beautiful location has a vista of the majestic Santa Ynez Range on one side while on the other the blue Pacific Ocean stretches out to the Channel Islands. Four new permanent buildings have been completed recently—a Science Building, Library, Residence Hall for Women, and Music Building—and three others are under construction or in a planning stage. The campus was formerly a World War II Marine Air Base, and 60 of the military-type buildings have been attractively converted for college use until they can be replaced by new structures. The ample recreational facilities on the campus include tennis courts, swimming pool, campus beaches, 14 acres of playfields, track, baseball diamond, gymnasium, and a short golf course. Residence halls on the campus will accommodate 890 of the more than 2,000 students enrolled. The Industrial Arts Department is presently located on the Mesa campus in Santa Barbara and will remain there until new facilities are available on the new campus.

SUMMER SESSION OF 1956 AT SANTA BARBARA

The Summer Session will begin Monday, June 25, 1956, and will continue for six weeks through Friday, August 3.

Purpose of the Session—

The purpose of the Summer Session 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 continue their educational programs.

Admission Requirements—

The College does not attempt, in general, to make inquiry concerning the educational qualifications of applicants for admission to the Summer Session who are *more than twenty-one years of age*, unless they are working for a degree or credential.

Application for Admission—

Persons who wish to attend the Summer Session should notify the Registrar, University of California, Santa Barbara College, Goleta, California, on or before Monday, June 4, 1956, using the form of application on page 3 of this bulletin. Compliance with this condition will enable the College to make adequate preparation and to inform prospective students promptly of any change of program.

Admission will be granted to persons *under twenty-one years of age* who are graduates of secondary schools. Summer Session students who do not plan to enter a regular session of Santa Barbara College are not required to submit transcripts of record. In this case, there is no application fee. New students who wish credits earned in Summer Session to be applied toward the fulfillment of degree and credential requirements at Santa Barbara College should file transcripts of high school and college records with the Registrar at least three weeks before the opening of the Summer Session. A fee of \$5 must be paid at the time of submitting these transcripts.

A student who is disqualified for academic reasons will not be allowed to use Summer Session credit except by permission of the Committee on Reinstatement.

Information for Veterans—

The Office of the Dean of Men maintains liaison between veterans and the Veterans Administration, the State Department of Veterans Affairs, and other agencies offering veterans educational benefits; and assists veterans in becoming assimilated into the life and spirit of the University. On the Santa Barbara Campus, this office is located in Building 402, Room 209. Offices of the United States Veterans Administration are located as follows:

Regional Office, 49 Fourth Street, San Francisco 3, California

Regional Office, 1380 South Sepulveda Boulevard, Los Angeles 25, California

Regional Office, 325 B Street, San Diego 1, California

In order to enroll under the provisions of Public Law 346 (G.I. Bill) and obtain full veterans benefits, veterans must present an original or supplemental Certificate of Eligibility, register within the University's announced registration period, and file a study list. In order to enroll under the provisions of Public Law 16 (Rehabilitation), authorization to complete such enrollment must be obtained from the United States Veterans Administration Office and be received by the Office of the Dean of Men prior to registration. Veterans should apply to their local United States Veterans Administration Office in sufficient time to receive their Certificates of Eligibility or proper authorization prior to registration; or the veterans must be prepared to pay all expenses (tuition, fees, books and supplies). Refunds of such expenditures may be made later to the veteran student based upon the effective date of the Certificate of Eligibility.

Veterans who transfer to another campus of the University within the jurisdiction of the same Veterans Administration Regional Office and with no change of objective (or degree) and whose training under Public Law 346 has not been interrupted in excess of four months, need present only a Veterans Transfer Notice from the last campus attended. A veteran must present a supplemental certificate if (1) he has been out of training more than four months; (2) he has not completed the last term or session in which enrolled under veterans benefits; (3) he has attended any other institution; (4) he has last attended University Extension; or (5) he last attended a campus within the regional jurisdiction of a different Veterans Administration region. If the transfer is into a different Veterans Administration region, the veteran should request a transfer of his files to the proper regional office.

CAUTION: Public Law 346 terminates on July 25, 1956. Because complete costs for the Summer Session for P.L. 346 veterans will not be covered by

the Veterans Administration, it will be necessary for educational costs to be pro-rated on an instructional day basis. Therefore, P.L. 346 veterans planning to attend the Summer Session should personally be prepared to pay fees and educational costs, including books, supplies and equipment. Appropriate refunds may be made by the University after expiration date of the law or after date of complete withdrawal from summer session, if prior to expiration date of law, upon presentation of proper receipts.

Information regarding educational benefits available from the State of California (CVEI) may be obtained from Department of Veterans Affairs, Division of Educational Assistance, P.O. Box 1559, Sacramento 7, California; 515 Van Ness Avenue, San Francisco, California; or 1102 South Grand Avenue, Los Angeles 15, California.

Veterans wishing to enroll under the provisions of Public Law 550 (Korean G.I. Bill) should obtain from the United States Veterans Administration a Certificate for Education and Training which should be filed with the Dean of Men's Office upon completion of registration. These veterans must be prepared to pay all fees and educational costs at the time of registration as education and training allowances are paid to the veteran by the Veterans Administration.

Registration Date—

Registration of students for the Summer Session will be conducted at Santa Barbara College on Saturday, June 23, 9 a.m. to 11:30 a.m.

Students who find it impossible to register for the Summer Session on the above date may register as late as the second Tuesday of the session, but such students may enroll in the courses desired only if, in the opinion of the instructor, they can satisfactorily complete the work already done by the class.

Study Load—

The maximum credit obtainable during the six weeks of Summer Session by a student who devotes his entire time to courses of strictly university level is 6½ units, including ½ unit of physical education.

Changes in Study Programs—

Changes in study programs may be made not later than Monday noon, July 2. After this date, all revisions must be made by written petition filed with the Registrar.

Fees—

The tuition fee, irrespective of the number of courses taken, is \$51 for the six-week session, for both residents and nonresidents of California. If checks are presented they must not exceed the total amount of fees to be paid. Checks should be made payable to The Regents of the University of California, and, if mailed, should be sent to the Cashier, University of California, Santa Barbara College, Goleta, California.

Refunds of the tuition fee because of withdrawal are made only after the withdrawal has been completed and cleared through the Registrar, and only when the reasons for withdrawal are satisfactory and permitted by regulation. Persons who wish to visit an occasional lecture may purchase 50-cent tickets for single lectures from the Cashier in Building 427.

Classification and Numbering of Courses—

(1) *Lower Division Courses* (numbered 1-99). Lower division courses are open to freshmen and sophomores and are not acceptable 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. The completion of 55 units prior to enroll-

ment in an upper division course is necessary if upper division credit is to be given. Exceptions to this rule are granted by petition only. *The attention of students who are interested in the Graphic Arts Symposium and related courses is especially invited to this fact. Petition blanks are available in the Registrar's Office.*

(3) *The Graduate Program.* During the fall and spring semesters graduate courses leading to the master's degree in economics, history, political science and psychology are offered. Undergraduate courses supporting the work toward the M.A. degree may be taken during the summer session period. Information concerning regulations governing graduate study may be obtained from the Office of the Registrar, Building 427, Room 109.

Graphic Arts Program—

The Graphic Arts at Mid-Century is the theme of an integrated program of several departments for the Summer Session.

Courses in areas concerned with the graphic arts have been selected to form a program designed to emphasize the significance and interrelation of the various aspects of graphics: the fine arts, industrial arts, audio-visual education, and others. A lecture course, *Symposium on the Graphic Arts at Mid-Century*, will integrate the contents of the various courses through lectures, demonstrations, panel discussions, and exhibitions.

There will be graphic arts exhibits in the College Library, the Art Gallery, the Department of Education, and the Department of Industrial Arts. The Santa Barbara Museum of Art will coordinate its plans with those of the College, and offer to its visitors a selection from its store of graphic material.

The symposium will culminate in the meetings of the *International Graphic Arts Education Association* and in the activities especially designed for the members of this organization during the last week of the Summer Session. Graphic Arts 189, *Workshop in Basic Graphic Arts Processes* is a special course to be offered during the last week of summer session in conjunction with the conference. This course may be taken by anyone attending the full six-week session, but the student must register for the course on June 23, and the unit value (1 unit) must be counted toward the 6½-unit maximum study load that a summer session student can carry. The offerings of the last week are so organized that they may also be attended separately from any other specific course, and hence constitute a fitting climax and summary to any program selected by a student. See page 16.

Credit—*

Students who are registered for credit may audit any courses they choose.

Students from other institutions should find out from their own registrars whether or not courses taken in a Summer Session at 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.

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.

Scholarship Grades—

The final result of the work of students in every course will be reported to the Registrar in the grade designations used in the fall and spring semesters:

* See italicized paragraph on page 11 and statement above on study load.

A, excellent; B, good; C, average; D, barely passing; F, failure. No grade of E (incomplete) is given in any Summer Session course.

Grade points 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.

Upon application, transcripts of record for Summer Session work will be issued by the Registrar to any student in the session. Personal recommendations from instructors may be obtained by school officials and others through the Bureau of School and College Placement.

Final Examinations—

Final examinations are held in all courses unless other provisions are specifically authorized. Usually the final examination takes place at the last scheduled meeting of each class.

Bureau of School and College Placement—

To assist students in securing employment, both while in college and upon graduation, Santa Barbara College has established a Bureau of School and College Placement, which includes an Office of Teacher Placement and a Bureau of Occupations. This service is located in Building 431, Room 129.

The Office of Teacher Placement is maintained for the mutual service of school officials and the College's credentialed graduates. A fee of \$5, payable to The Regents of the University of California, is charged at the time of registration with the Office to cover certain incidental expenses in connection with recommendations for positions.

The Bureau of Occupations, a placement service designed for graduates majoring in fields other than teaching, assists students in securing full-time positions upon graduation. In addition, the services of the bureau are available to those seeking part-time employment while attending the College.

There is no guarantee that positions will be obtained for students, but every reasonable effort is made in their behalf. All candidates for positions are expected to reimburse the Office of Teacher Placement and the Bureau of Occupations for telephone messages and telegrams found necessary by the Placement Executive in transactions in behalf of the students. Accumulative placements records are maintained for each registrant, and transcripts of scholastic records may be obtained from the Office of the Registrar of the College. Transfer of application folders is made between the College and the University of California campuses at Berkeley and at Los Angeles.

Living Accommodations and Expenses—

Living accommodations for all summer students are arranged through the Housing Office. A file of available housing is maintained in the Housing Office and is for the use of prospective students.

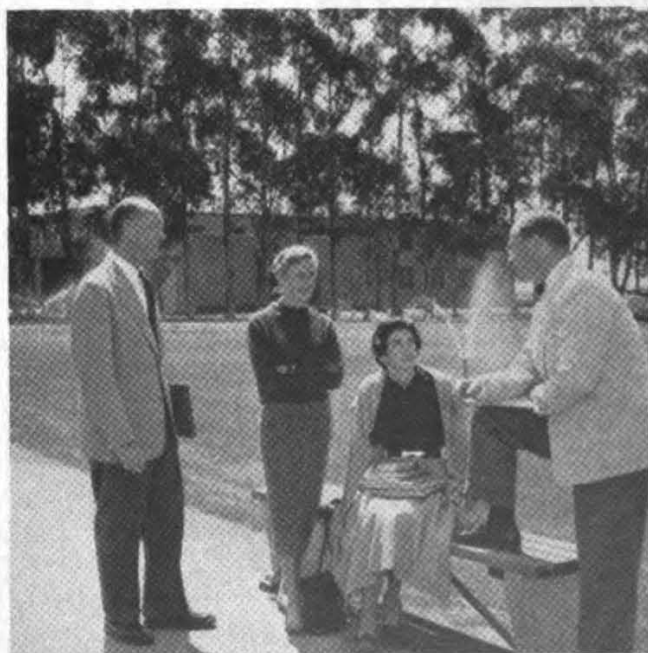
There are Residence Halls on the campus which will accommodate single students. The rate for the six-weeks session is \$168 for single occupancy of a room and \$147 per person for double occupancy. This includes three meals per day except on Sundays and holidays, when two meals are served. The Residence Halls will be open to summer students, providing there are a sufficient number of residents to warrant operation of the halls.* If you wish to apply for a room in the Residence Halls, you should write to the Housing Office and request an application form.

There is also housing in private homes in Santa Barbara and the vicinity and in sorority and fraternity houses. The cost for room and board ranges between \$105 and \$115 for the session. Board usually consists of two meals per day, six days a week, and one meal on Sunday. Lunches are not included in the cost. Living in apartments or in rooms with or without kitchen privileges usually costs from \$45 to \$75 for the six weeks and does not include

* There must be a minimum of 150 paid deposits by June 4, 1956, in order to guarantee opening of the halls.

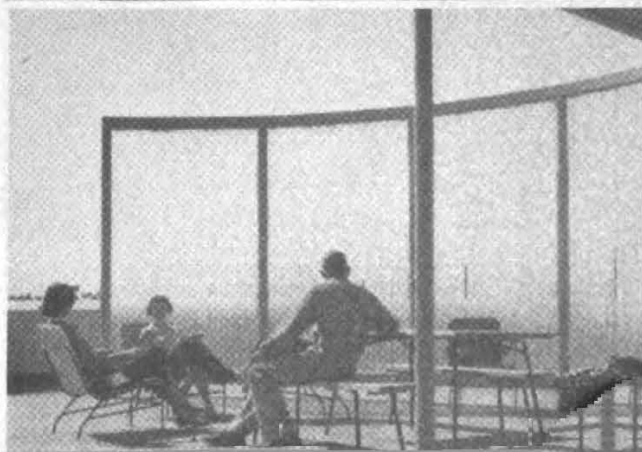


Marine biology specimens are sought on Goleta Point, the southernmost tip of the campus shoreline.



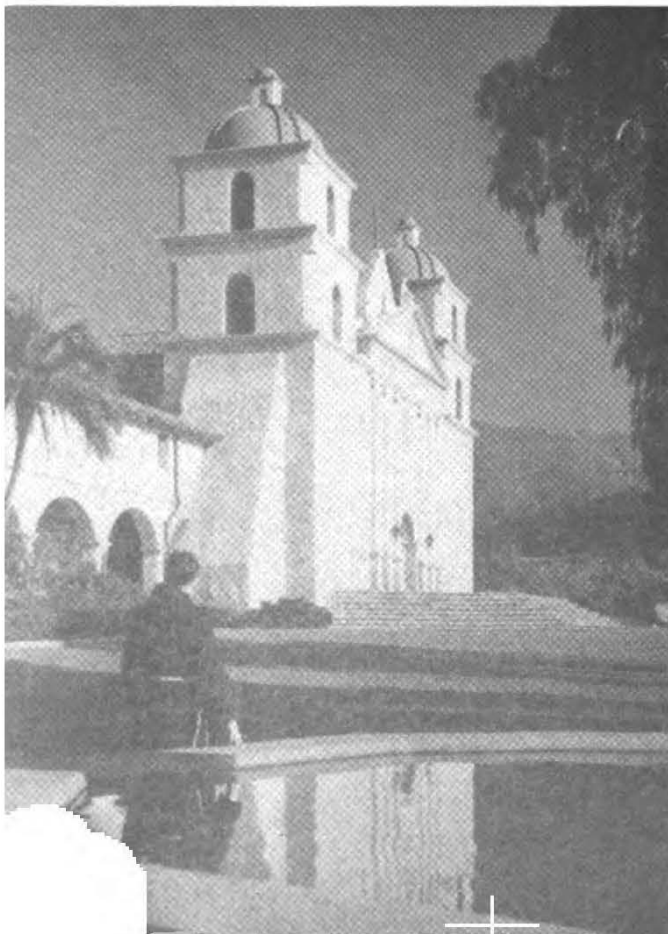
Friendly association between faculty and students is a tradition on the University of California, Santa Barbara College seashore campus.

Right. the outdoor reading areas are part of the library. The building is located 1,500 feet from the Pacific shore and has a view of the mountains.





The campus beach is only a short walk from residence halls and classrooms.



Landmark of Santa Barbara with its Spanish heritage is Mission Santa Barbara, founded in 1786.



Top, the latest electronic equipment is used in foreign language study.
Bottom, the Demonstration School provides an opportunity to study the best in method.



The new \$1,000,000 College library provides airy and well-lighted reading areas with an open-stack arrangement.



Department of Education professors evaluate a project for social studies in the elementary school.

the food. Single women students under twenty-one years of age are required to live in housing approved by the College.

There are apartments off the campus available for married couples, and arrangements for these apartments should be made a week or two before the beginning of the semester.

The Housing Office is located in Building 401, Room 209, upstairs. Office hours are from 8:00 a.m. until 5:00 p.m., Monday through Friday.

College Bookstore—

The College Bookstore, located in the Student Union, carries textbooks for Summer Session courses, stationery, other supplies and general merchandise.

The College Library—

The College Library contains 85,000 selected books, 10,000 pamphlets, and 3,100 phonograph records. The library currently receives 1,475 serials (includes periodicals). The building has seating capacity for 550 students with stacks and tables arranged to give easy access to all materials. Facilities for outdoor reading, conversation, and group study are provided by the first-floor patio and two second-floor decks. A branch library for Industrial Arts students is maintained on the Mesa campus in the city of Santa Barbara.

Special facilities include four audio-visual rooms for listening and preview, a microfilm reading room, three conference rooms, and audio-visual demonstration room and a typing room with tables for personal typewriters and a coin-operated typewriter.

The Wyles Collection of American History is one of the most extensive collections of Lincolniana and Civil War material in the West. The books, periodicals, and pamphlets in this collection are housed in a separate room and are for use only in the library.

The main library will be open from 8:00 a.m. to 5:00 p.m., Monday through Friday, three hours each evening Monday through Thursday, 9:00 a.m. to 1:00 p.m. on Saturday, and 2:00 p.m. to 5:00 p.m. on Sunday. The Industrial Arts branch will be open 8:00 a.m. to 5:00 p.m., Monday through Friday.

Summer School for Children—

The Demonstration School (Adams School located on Las Positas Road in Santa Barbara) will be in session daily from 9 a.m. until 12 m. from June 25 through August 3. It embraces the kindergarten and grades one to six inclusive. Opportunity to observe the various groups will be provided for students enrolled in certain related courses.

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.

A Remedial Room for children of normal intelligence with disabilities in reading, arithmetic, spelling, and speech will be a part of the Demonstration School. A specialist in remedial instruction will be in charge of the program. Enrollment in the room will be limited to children, ages 8 to 12 inclusive, who are recommended by the Santa Barbara City Schools or the Department of Education, Santa Barbara College.

Preliminary enrollment of children should be obtained in advance by application to the Chairman of the Department of Education: for the Demonstration School, by June 18; for the Remedial Room, by June 8. The number of students is limited. The fee for six weeks is \$15.

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 Registrar, Building 427, Room 109, University of California, Goleta, California (Telephone Woodland 8-5711).

COURSES OF INSTRUCTION*

SUMMER SESSION, 1956

THE GRAPHIC ARTS AT MID-CENTURY

The following courses from the Summer Session offerings will contribute to the theme of The Graphic Arts at Mid-Century.†

Symposium: The Graphic Arts at Mid-Century, Art 170B (2),

Mr. Scherer

This course is designed to emphasize the interrelation between the various types of graphic arts through readings, lectures, and exhibits. There will be six class meetings and six lectures by visiting authorities, followed by discussion periods. The history and development of graphic arts in their broad social and artistic manifestations dominates the first five weeks; the functional and instructional aspects will keynote the final week. The symposium will be under the direction of Mr. Paul L. Scherer, Assistant Professor of Industrial Arts.

Workshop in Basic Graphic Arts Processes, Graphic Arts 189 (1),

Mr. Dunton

Principles and practices in silk-screen printing, bookbinding, dry-point etching, papermaking and lithography. The course will consist largely of demonstrations by graphic arts teachers and experts from industry. This course is scheduled only for the last week of the summer session in conjunction with the conference of the *International Graphic Arts Education Association*. On Tuesday and Thursday the class will meet jointly with Art 170B (above).

Design and Color, Art 6A (2), Mr. Wilding

The Understanding of Art, Art 10 (2), Mr. Rohrbach

Art Education for Elementary Schools, Art 106 (2), Mr. Wilding

Print Making, Art 107A-107B (2-2), Mr. Warshaw

Art in Photography, Art 121 (2), Mr. Rohrbach

Audio-Visual-Radio Education, Education 147 (2), Mr. Barron

Children's Literature, English 189 (2), Mrs. Haight

Graphic Reproduction—Fundamentals, Graphic Arts 80 (3),

Mr. Dunton

Design and Production of School Publications, Graphic Arts 187 (3),

Mr. Dunton

Industrial Arts Design, Graphic Arts 105 (2), Mr. Seefeld

Modern Crafts Workshop, Industrial Arts 172C (3), Mr. McCoy

ART

William A. Rohrbach, M.A., *Assistant Professor of Art.*

Paul L. Scherer, Ed.D., *Assistant Professor of Industrial Arts.*

Howard Warshaw, *Acting Instructor in Art.*

John H. Wilding, M.A., *Teacher, Santa Barbara High School.*

6A. Design and Color. (2)

Mr. Wilding

Plastic elements common to all the visual arts.

Daily, 7:35-8:50, Building 412, Room 210.

* The unit value of each course is indicated by a number in parentheses immediately following the title of the course.

† For complete details see individual departments.

- 10. The Understanding of Art. (2)** Mr. Rohrbach
An appreciation of the art expressions of various cultures.
Daily, 11-11:50, Building 431, Room 102.
- 106. Art Education for Elementary Schools. (2)** Mr. Wilding
Art techniques, laboratory practice, observations. For nonart majors.
Daily 11-12:15, Building 412, Room 210.
- 107A-107B. Print Making. (2-2)** Mr. Warshaw
Prerequisite: courses 2A and 6A.
Original design and method in intaglio, relief, and serigraph processes.
M W F, 1-3:50, Building 414, Room 110.
- 115A-B-C-D. Painting. (2-2-2-2)** Mr. Warshaw
Prerequisite: courses 2A, 2B, 3A, 6A.
Composition and technique in oil painting.
M W F, 8-10:50, Building 414, Room 210.
- 121. Art in Photography. (2)** Mr. Rohrbach
Prerequisite: course 6A or equivalent.
Introduction to photography as an art medium. Laboratory, lectures, and field trips.
Tu Th, 8-10:50, Building 412, Room 202.
- 170B. Symposium: The Graphic Arts at Mid-Century. (2)** Mr. Scherer
The symposium is designed to emphasize the interrelation between the various types of graphic arts: the history and development of graphic arts in their broad social, artistic, and applied manifestations; lectures, readings, reports.
Tu Th, 1-2:50, Building 431, Room 102.
- 199. Independent Studies in Art. (1-3)** The Staff
Advanced individual problems.
Hours to be arranged.

BIOLOGICAL SCIENCES

Edward L. Triplett, Ph.D., *Acting Instructor in Biology.*

- 1A. Fundamentals of Biology. (4)** Mr. Triplett
Cell theory, cell division, and heredity. Physiology of plants and animals, with emphasis on man and his place in nature. Survey of the principal groups of plants and animals.
Lecture: Daily, 11-12:15, Science 1100. Laboratory: sec. 1, M W, 1-3:50, Science 1055; sec. 2, Tu Th, 1-3:50, Science 1055.
- 150. Life in the Sea. (2)** Mr. Triplett
Lectures and reading on the sea as an environment for living things: its relation to man. Field trips during the session to be arranged. A course in the biological sciences is prerequisite to 150. This course is acceptable in partial fulfillment of general education requirements.
Daily, 10-10:50, Building 403, Room 211.

EDUCATION

Edith M. Leonard, M.A., *Professor of Education.*
Lester B. Sands, Ed.D., *Professor of Education.*
Elsie A. Pond, M.A., *Associate Professor of Education.*
Mildred D. Hoyt, Ed.D., *Assistant Professor of Education.*

Lealand D. Stier, Ph.D., *Assistant Professor of Education.*

John A. R. Wilson, Ed.D., *Assistant Professor of Education.*

Roy Barron, Ed.D., *Coordinator Audio-Visual Services, Santa Barbara County Schools.*

Charles W. Webster, Ed.D., *Principal, Junior High School, Ventura.*

- 101. History of Education (2)** Mr. Sands
 Educational thought and practice as a phase of social progress. Ancient and medieval conceptions and their effect on modern education.
 Daily, 9-9:50, Building 409, Room 110.
- 105. Education in Foreign Countries. (2)** Mr. Sands
 Survey of organization and teaching practices. Education as an instrument of political power; dependence on natural and cultural traditions.
 Daily, 10-10:50, Building 409, Room 110.
- 110. Educational Psychology. (3)** Mr. Wilson
 Prerequisite: Psychology 1A.
 Application of principles of general psychology to the educative process; learning as it functions in the school environment; principles of mental hygiene and personality development.
 Daily, 2-3:15, Building 431, Room 107.
- 111. Child Growth and Development. (2)** Mr. Stier
 Prerequisite: Psychology 1A.
 Mental and physical growth and development; personal and social adjustment; preventive hygiene. Directed observation of normal children.
 Daily, 1-1:50, Building 431, Room 107.
- 117. Pupil Personnel and Counseling. (2)** Mr. Webster
 Practices and techniques in school counseling and guidance; child study; parent education; counseling of handicapped children and their parents.
 Daily, 1-1:50, Building 431, Room 121.
- 119. Measurement and Evaluation in Education. (3)** Mr. Wilson
 Prerequisite: course 110.
 Purposes and techniques of evaluation; including statistical measures, construction of valid tests, tabulating and scoring standard examinations, interpretation to parents of evaluations.
 Daily, 11-12:15, Building 431, Room 107.
- 135. Remedial Reading. (2)** Miss Hoyt
 Methods and materials of instruction and diagnosis; remedial treatment of difficulties in reading in the elementary school.
 Daily, 2-2:50, Building 409, Room 110.
- 136A-136B. Remedial Reading Laboratory. (1-1)** Miss Hoyt
 Prerequisite: approval of the instructor.
 Students assigned to directing remedial reading activities at any designated level in the school. Self-analysis of reading problems and laboratory work in self-improvement may also be approved. Education 135 and 136 may be taken concurrently.
 Hours to be arranged, Demonstration School.
- 137. Teaching Reading in the Elementary School. (2)** Miss Hoyt
 A study of the reading process and procedures in teaching reading. Consideration will be given to such topics as reading readiness, beginning reading, word recognition and analysis, types of reading programs, selection, preparation and use of reading materials, development of reading interests and

tastes, and analysis and treatment of reading disabilities. Observations will be made in the Demonstration School.

Daily, 8-8:50, Demonstration School.

138. Teaching Social Studies in the Elementary School. (2) Mr. Stier

A study of the nature, purpose, scope, organization, and instructional procedures in social studies in the elementary school. Concomitant observations will be held in the Demonstration School.

Daily, 9-9:50, Demonstration School.

139. Curriculum Construction. (2)

Miss Pond

Basic principles and practices in curriculum-making as derived from the psychological, sociological, and philosophical considerations.

Daily, 2-2:50, Building 431, Room 121.

141. Teaching Arithmetic in the Elementary School. (2)

Mr. Stier

Nature, purpose, scope, organization, and instructional procedures in arithmetic for the elementary school. Observations will also be held of arithmetic procedures in the Demonstration School.

Daily, 10-10:50, Demonstration School.

147. Audio-Visual-Radio Education. (2)

Mr. Barron

Audio-visual and radio aids in classroom teaching in elementary and secondary schools. Lecture and laboratory.

Take one lecture and one laboratory section per week.

Lecture I: Daily, 10-10:50, Science 1100; Lecture II: Daily, 2-2:50, Science 1100.

Section 1—M W, 11-11:50, Building 409, Room 110

Section 2—Tu Th, 11-11:50, Building 409, Room 110

Section 3—M W, 1-1:50, Building 409, Room 110

Section 4—Tu Th, 1-1:50, Building 409, Room 110

Section 5—M W, 3-3:50, Building 409, Room 110

170. Secondary Education. (3)

Mr. Sands

Objectives and functions of the American secondary school; historical background; present practices; organization; program; curricula; methods and personnel. Observations required.

Daily, 7:35-8:50, Building 431, Room 121.

180. Educational Sociology. (2)

Miss Pond

American culture—social groups, processes, institutions and changes—and its relation to education. Influence of organized education in social evolution.

Daily, 11-11:50, Building 431, Room 121.

EC 190B. Early Childhood Education Procedure (Primary) with Primary Forum and Observation. (4)

Miss Leonard

Daily, 9-10:50, Demonstration School.

I 190C. Curriculum Development in Industrial Arts. (2)

Mr. Seefeld

Daily, 11-11:50, Mesa Auditorium.

J 190A. Junior High School Procedure. (2)

Mr. Webster

Daily, 10-10:50, Building 431, Room 121.

J 190B. Junior High School Procedure. (2)

Mr. Webster

Daily, 9-9:50, Building 431, Room 121.

ME 190. Elementary Music Education. (2)

Miss Munger

Elementary education majors must have completed El 190 (Elementary Procedure) before taking this course, or be enrolled in it concurrently.

Daily, 11-11:50, Music 2210.

- 199. Independent Studies in Education.** (1-3) The Staff
 Study of special problems in various fields of education. Open only to advanced students approved by the chairman of the department.
 Hours to be arranged.

ENGLISH

Genevieve W. Haight, M.A., Assistant Professor of English.
Lawrence Willson, Ph.D., Assistant Professor of English.

- 1B. First-Year Reading and Composition.** (2) Mrs. Haight
 Training in intensive reading and expository writing. English 1A-1B is prerequisite to all other courses in English.
 Daily, 9-9:50, Music 2210.
- 130A. Survey of American Literature.** (2) Mr. Willson
 Hawthorne, Emerson, Melville, Whitman, Henry James.
 Daily, 10-10:50, Music 2236.
- 189. Children's Literature.** (2) Mrs. Haight
 Extensive readings; building of literary understanding in children; principles underlying the choice of literature for different age levels. (May not be counted toward English major.)
 Daily, 11-11:50, Music 1145.

FOREIGN LANGUAGES

Edmond E. Masson, Ph.D., Assistant Professor of French.
Winston A. Reynolds, M.A., Acting Instructor in Spanish.

FRENCH

- 12. French Pronunciation.** (1) Mr. Masson
 Prerequisite: French 1 or consent of the instructor.
 The sounds of French; a practical course. Phonetic practice in class and in the language laboratory based on materials of value to the students, as libretti, songs, poetry, and prose.
 M Tu W Th, 11-11:50, Building 403, Room 116.
- 33. French Refresher Course.** (2) Mr. Masson
 Prerequisite: French 2 or consent of the instructor.
 A brush-up course designed to review the fundamentals of conversation, composition, reading, and idiom. Recitation and individual assignments.
 M Tu W Th, 10-10:50, Building 403, Room 116.

SPANISH

- 1. Elementary Spanish. Beginners' Course.** (4) Mr. Reynolds
 Daily, 10-11:50, Building 403, Room 111.
- 8A. Spanish Conversation.** (1) Mr. Reynolds
 Prerequisite: course 2.
 M Tu W Th, 9-9:50, Building 403, Room 116.

HOME ECONOMICS

Marie Wilson, M.S., *Assistant Professor of Home Economics.*

Marion P. Alves, M.A., *Associate in Home Economics.*

13. Child Care. (2)

Mrs. Alves

Physical, emotional, and social needs of the infant and young child in relation to his membership in the family. Observations in well-baby clinics and nursery schools.

Daily, 1-1:50, Building 494, Room 101.

15. House Interiors and Furnishings. (3)

Mrs. Wilson

Prerequisite: Art 6A, or Art 10.

Functional and aesthetic factors influencing interiors and furnishings for family homes.

Lecture: M W F, 11-12:15, Building 494, Room 101; laboratory: Tu Th, 11-12:15, plus two hours to be arranged, Building 494, Room 101.

93. Dress Design and Selection. (2)

Mrs. Wilson

Application of fundamental art principles to wardrobe planning.

Lecture: M W, 9-9:50, Building 494, Room 101; laboratory: Tu Th, 9-11, Building 494, Room 101.

131. Readings in Child Development. (1)

Mrs. Alves

Prerequisite: course 13, or equivalent.

Reviews and discussions of current literature. May be adapted to students' special interests and needs in the field of child development.

Hours to be arranged, Building 494, Room 101.

199. Independent Studies in Home Economics. (1-3)

The Staff

For majors.

To be arranged.

INDUSTRIAL ARTS

Kermit A. Seefeld, Ed.D., *Associate Professor of Industrial Arts.*

E. Burnham Dunton, Ed.D., *Assistant Professor of Industrial Arts.*

Robert A. McCoy, Ed.D., *Assistant Professor of Industrial Arts.*

Maurice F. Richards, Ph.D., *Assistant Professor of Industrial Arts.*

Joseph J. Sayovitz, Ph.D., *Assistant Professor of Industrial Arts.*

Paul L. Scherer, Ed.D., *Assistant Professor of Industrial Arts.*

GRAPHIC ARTS

80. Graphic Reproduction—Fundamentals. (3)

Mr. Dunton

Design, composition, and production in letterpress, planographic and intaglio processes. Field trips, lecture, laboratory.

Daily, 1-3:50, Mesa 100.

105. Industrial Arts Design. (2)

Mr. Seefeld

Prerequisite: courses 1 and 5 or equivalent.

Structural and aesthetic design of industrial products; adaptability to industrial arts projects. Lecture, laboratory.

Daily, 8-9:50, Mesa 200.

187. Design and Production of School Publications. (3)

Mr. Dunton

This course is equally valuable for graphic arts teachers who are faced with the production of school publications, and for journalism teachers who wish to have experiences with type and presses. Emphasis placed on typographic design of school newspapers, annuals, magazines, and publicity.

Daily, 8-10:50, Mesa 100.

189. Workshop in Basic Graphic Arts Processes. (1) Mr. Dunton
Principles of and practices in silk-screen printing, bookbinding, dry-point etching, papermaking and lithography. The course will consist largely of demonstrations by graphic arts teachers and experts from industry. For further information see box on page 16.

Daily, 1-2:50, last week only, Auditorium, Goleta campus.

199. Independent Studies in Graphic Arts. (1-3) The Staff
Hours to be arranged.

INDUSTRIAL ARTS

43. Expressive Craft Activities for Elementary Schools. (2) Mr. Scherer
Daily, 8-9:50, Building 410, Room 210.

114. Design and Development of Contemporary Furniture. (3)
Prerequisite: background in art or industrial arts. Mr. McCoy
Application of the principles of modern design to contemporary furniture and the development of models or furniture designed in the class. Emphasis can be placed in either design or the development of contemporary furniture.
Daily, 1-3:50, Mesa 116.

127A. Art Metalwork. (3) Mr. Richards
Design and construction of ornamental articles of copper, brass, Britannia metal, silver, aluminum, nickel, bronze, and other nonferrous metals.
Daily, 1-3:50, Mesa 114.

143. Integrated Craft Activities for Elementary Schools. (2) Mr. Scherer
Daily, 10-11:50, Building 410, Room 210.

149. Electricity. (3) Mr. Sayovitz
Prerequisite: course 4A and Physical Science 1A or Physics 19 or equivalent.
Introduction to principles, correlated with the use of instruments, apparatus, and materials. Lecture, laboratory.
Daily, 1-3:50, Mesa 227.

152A. Advanced Electrical Laboratory Work. (3) Mr. Sayovitz
Prerequisite: courses 149 and 161.
Appliances and machinery used in home and industry. Individual laboratory problems in areas of electricity or radio.
Daily, 8-10:50, Mesa 227.

172C. Modern Crafts Workshop. (3) Mr. McCoy
Concentrated individual effort in one major area of crafts.
Daily, 8-10:50, Mesa 225.

195A. Organization, Objectives, and Supervision of Instruction in Industrial Arts Education. (3) Mr. Seefeld
Daily, 12-12:50, Mesa Auditorium.

199. Independent Studies in Industrial Arts. (1-3) The Staff
Hours to be arranged.

Related Course in Education

I 190C. Curriculum Development in Industrial Arts. (2) Mr. Seefeld
Daily, 11-11:50, Mesa Auditorium.

MATHEMATICS

Richard B. Stoneham, Ph.D., *Assistant Professor of Mathematics.*

1. **Introduction to Mathematics.** (3) Mr. Stoneham
Mathematics as an essential instrument in organizing and interpreting scientific data. Review of elementary algebra; significance and use of the elementary functions; basic concepts of statistics. Open to all students.
Daily, 12:35–1:50, Building 403, Room 211.

MUSIC

John E. Gillespie, Ph.D., *Assistant Professor of Music.*

Shirley A. Munger, M.A., *Instructor in Music.*

1. **Musicianship.** (2) Miss Munger
Fundamentals of music for the nonmusic major.
Daily, 10–10:50, Music 2210.
15. **Music History and Appreciation.** (2) Mr. Gillespie
Primarily for the nonmusic major.
Lecture: Daily, 8–8:50, Music 1145; listening sec. 1: M W F, 10–10:50, Music 1145; listening sec. 2: M W F, 1–1:50, Music 1145.
18. **Romantic Music.** (2) Mr. Gillespie
Prerequisite: Music 10 or Music 15 or consent of the instructor.
Daily, 9–9:50, Music 1145.
119. **History and Literature of Keyboard Music.** (2) Mr. Gillespie
Prerequisite: Music 10 or Music 15 or consent of the instructor. Open to nonmusic majors.
Daily, 10–10:50, Music 1250.

Related Course in Education

- ME 190. Elementary Music Education.** (2) Miss Munger
Elementary education majors must have completed EI 190 (Elementary Procedure) before taking this course, or be enrolled in it concurrently.
Daily, 11–11:50, Music 2210.

PHYSICAL AND HEALTH EDUCATION

Jean L. Hodgkins, Ed.D., *Associate Professor of Physical Education.*

Mayville S. Kelliher, Ed.D., *Assistant Professor of Physical Education.*

HEALTH EDUCATION

105. **Safety Education and Accident Prevention.** (2) Mr. Kelliher
Causes and prevention of the principal types of accidents occurring on the streets and highways, in recreation, and in the home and school.
Daily, 11–11:50, Science 1055.

PHYSICAL EDUCATION

- 1–20. **Sports Activities.** (½) The Staff
Elected activity from the areas of badminton, swimming, tennis, and golf. This course will help meet the requirement of one unit of physical education, general activities. Open to men and women.
Daily, 2–3:50, Pool, Gym, Courts, or Field.

- 26-16A. Elementary Folk Dance.** (4) Miss Hodgkins
M W F, 12:35-1:50, Building 422, Room 110.
- 138. Physical Education in the Elementary School.** (3) Miss Hodgkins
Prerequisite: course 26, section 16A or consent of the instructor.
Theory and activity.
Daily, 7:35-8:50, Building 422, Room 216.
- 140. Community Recreation.** (2) Mr. Kelliher
Fundamentals of community recreation, its objectives, principles, program, procedure, and administration.
Daily, 9-9:50, Music 2218.
- 199. Independent Studies in Physical Education.** (1) The Staff
Hours to be arranged.

PHYSICAL SCIENCES

A. R. Addington, M.A., *Professor of Geology, Fresno State College.*

CHEMISTRY

- 199. Independent Studies in Chemistry.** (1-4) The Staff
Directed individual study, normally experimental, open to qualified seniors in the Department of Physical Sciences.
To be arranged.

GEOGRAPHY

- 1A. Fundamentals of Modern Geography.** (2) Mr. Addington
The main features of the physical environment in their relationship to man's life and activities. Acceptable only as partial fulfillment of Social Sciences requirements in general education. See Social Sciences.
Daily, 8-8:50, Science 1100.

GEOLOGY

- 2. General Geology: Physical.** (2) Mr. Addington
Prerequisite: none. Not open to students who have credit for Geology 5 or 101.
Origin and development of the landscape.
Daily, 9-9:50, Science 1100.

PHYSICS

- 199. Independent Studies in Physics.** (1-4) The Staff
Directed individual study, normally experimental, open to qualified seniors in the Department of Physical Sciences.
To be arranged.

PSYCHOLOGY

Jerry H. Clark, Ph.D., *Assistant Professor of Psychology.*

- 1A. General Psychology.** (3) Mr. Clark
Introduction to the subject matter, methods, and techniques of psychology; emphasis upon basic principles underlying an understanding of human behavior. Lectures, textbook and collateral readings, classroom demonstrations, and discussions. *A sophomore course, not open to freshmen, with the exception of psychology majors.*
Daily, 7:30-8:50, Building 410, Room 111.

121. **Psychology and Modern Living.** (2) Mr. Clark
Contributions of psychology to various facets of everyday life: vocational, developmental, industrial, clinical, and abnormal; the individual as affected by the group; some aspects of the psychology of aging. Cannot be counted toward psychology major.
Daily, 9-9:50, Building 410, Room 111.

SOCIAL SCIENCES

- A. Russell Buchanan, Ph.D., *Professor of History.*
J. Frederick Halterman, Ph.D., *Professor of Economics.*
A. R. Addington, M.A., *Professor of Geology, Fresno State College.*
Stephen S. Goodspeed, Ph.D., *Associate Professor of Political Science.*
Thomas F. Hoult, Ph.D., *Assistant Professor of Sociology, Wayne University.*
Cedric B. Cowing, Ph.D., *Acting Instructor in History.*

ECONOMICS

104. **Economic Policy.** (3) Mr. Halterman
An analysis of contemporary economic policies and problems.
Daily, 11-12:15, Music 2236.

GEOGRAPHY

- 1A. **Fundamentals of Modern Geography.** (2) Mr. Addington
The main features of the physical environment in their relationship to man's life and activities.
Daily, 8-8:50, Science 1100.

HISTORY

- 17A. **Political and Social History of the United States.** (3) Mr. Cowing
The evolutions of American institutions and civilization. Acceptable as partial fulfillment of American History and Institutions requirement.
Daily, 11-12:15, Music 2218.
39. **History of California and the Pacific Coast.** (3) Mr. Buchanan
Daily, 7:35-8:50, Building 403, Room 213.
171. **Colonial and Revolutionary America.** (3) Mr. Cowing
Political and social history of the Thirteen Colonies, their neighbors, westward expansion, beginnings of culture, and the American Revolution. Acceptable as partial fulfillment of American History and Institutions requirement.
Daily, 12:35-1:50, Music 2210.

PHILOSOPHY

1. **Short Introduction to Philosophy.** (3) _____
Philosophical ideas in terms of which western civilization has sought to understand itself and the world of which it is a part. Not open for credit to students who have completed course 6A. Not recommended for freshmen.
Daily, 11-12:15, Building 403, Room 213.

POLITICAL SCIENCE

124. **International Law and Organization.** (3) Mr. Goodspeed
The character of international law and organization and the institutions and agencies of international government.
Daily, 11-12:15, Building 403, Room 211.

SOCIOLOGY**1. Introductory Sociology. (3)**

Mr. Hoult

The nature of human society and of its scientific study, cultural variation, social evolution, personality development, collective behavior, social institutions, ecology and population.

Daily, 12:35-1:50, Music 2218.

120. Marriage and the Family. (3)

Mr. Hoult

The human family past and present, adjustment in the contemporary American family.

Daily, 2-3:15, Music 2218.

SPEECH

Upton S. Palmer, Ph.D., *Assistant Professor of Speech.*

Rollin W. Quimby, Ph.D., *Assistant Professor of Speech.*

11. Fundamentals of Speech. (3)

Prerequisite to all other speech courses for nonmajors. Participation in public speaking, oral reading, and discussion.

Section 1—Daily, 7:35-8:50, Building 417, Room 212. Mr. Palmer

Section 2—Daily, 11-12:15, Building 417, Room 212. Mr. Quimby

136. Introduction to Remedial Speech. (2)

Mr. Palmer

Elementary speech training with emphasis on problems encountered in the public school.

Daily, 10-10:50, Building 417, Room 212.

142. Reading to Others. (2)

Mr. Quimby

Theory and practice of reading short stories, poems, and plays to an audience. Both individual and group performances will be included.

Daily, 9-9:50, Building 417, Room 212.

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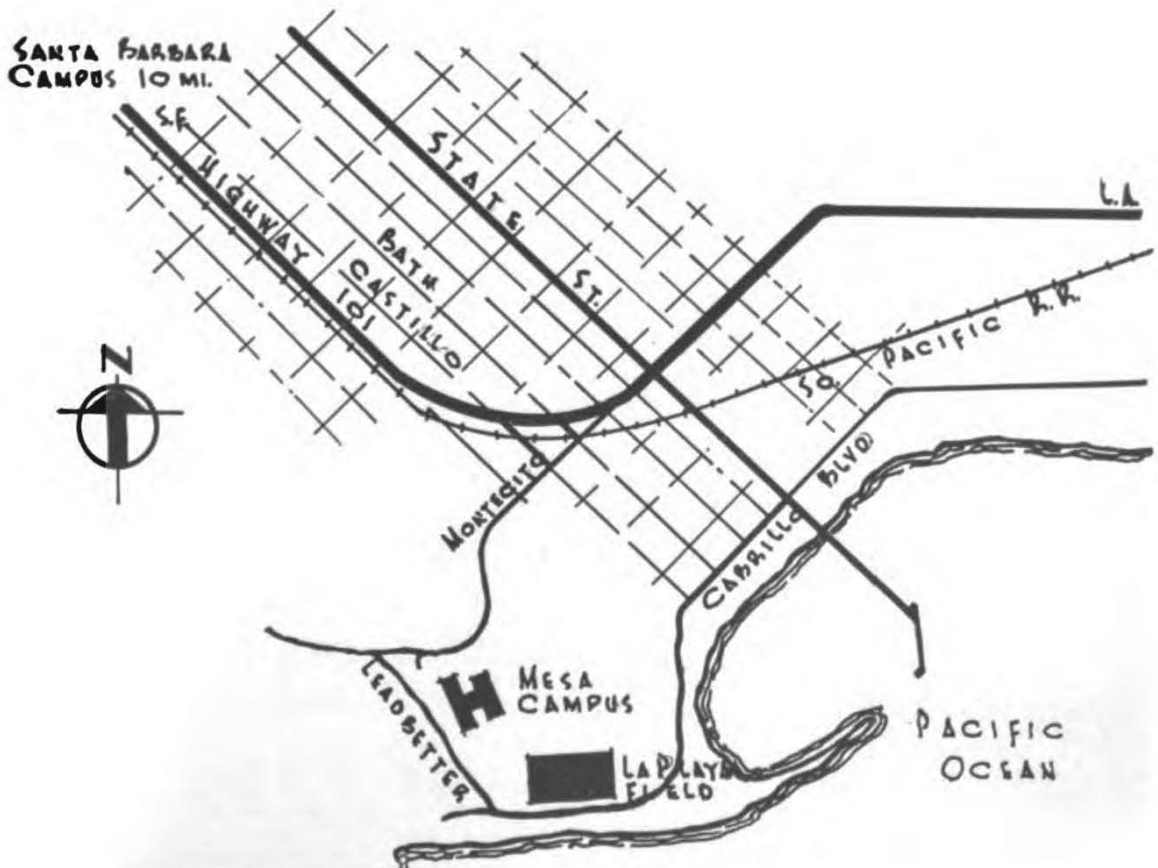
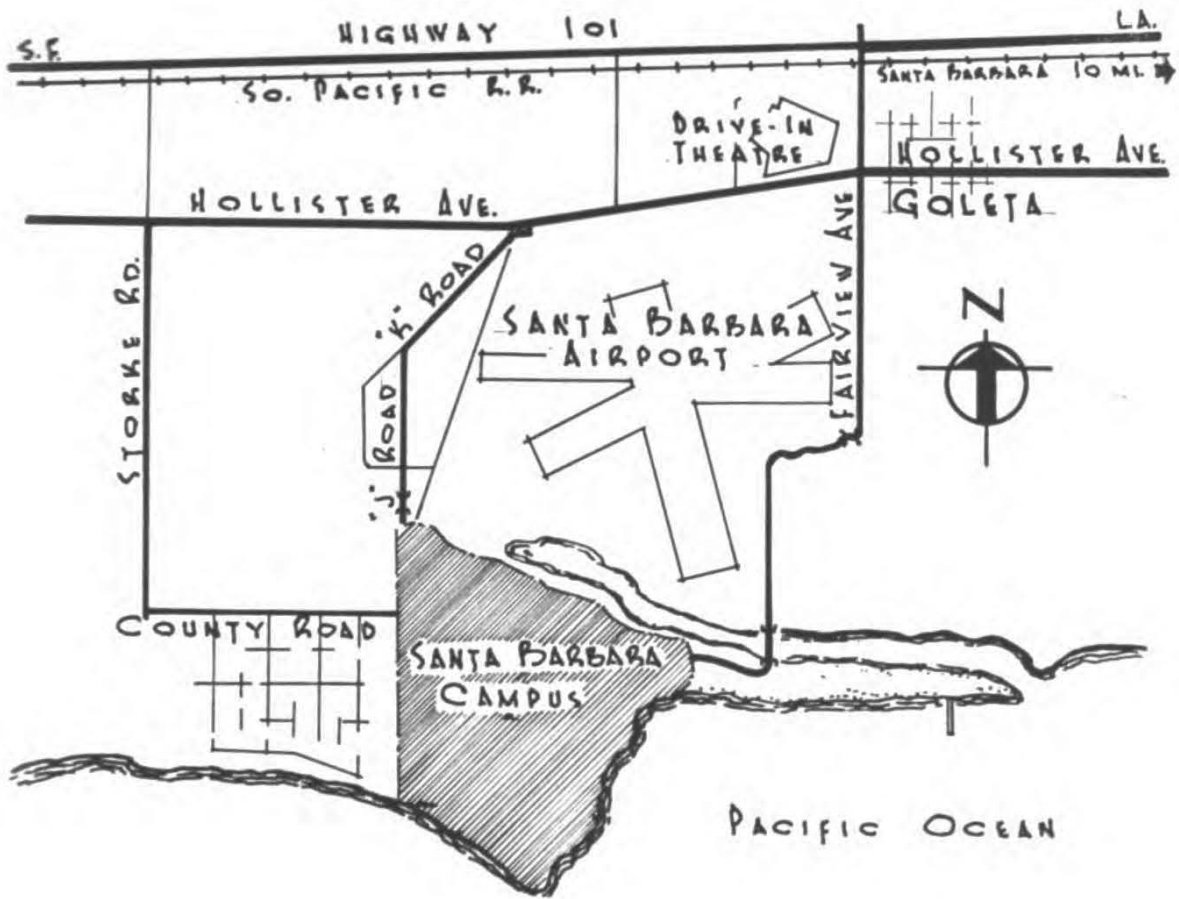
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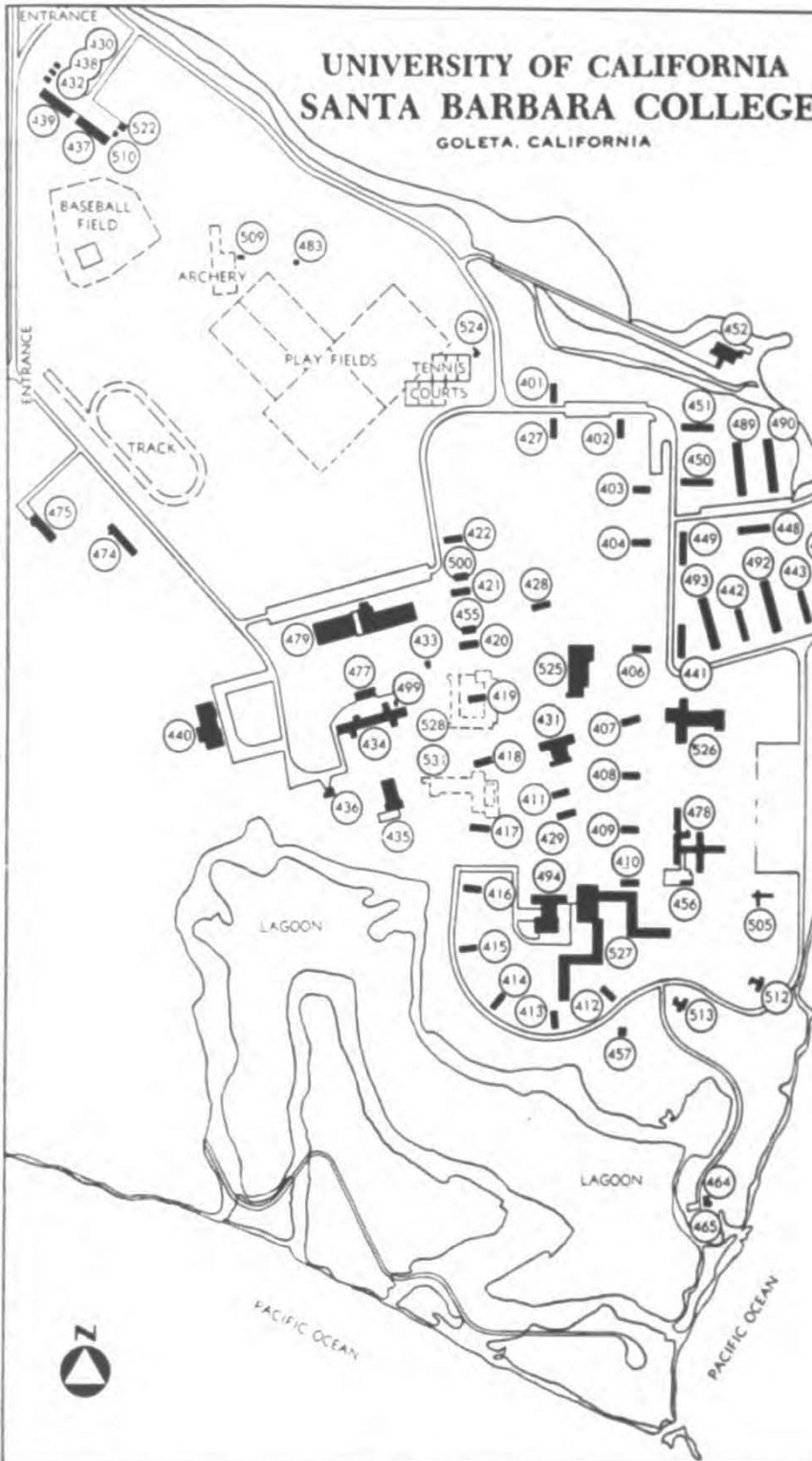




UNIVERSITY OF CALIFORNIA SANTA BARBARA COLLEGE

GOLETA, CALIFORNIA

Bldg. No.	Description
401	ADMINISTRATION
402	ADMINISTRATION
403	CL. RM. FOREIGN LANG. & ENG.
404	CL. RM. & FOREIGN LANG.
406	CL. RM. & ENGLISH
407	CL. RM. & MATHEMATICS
408	CL. RM. & SOCIAL SCIENCE
409	EDUCATION
410	EDUCATION & PSYCHOLOGY
411	INDUSTRIAL ARTS
412	ART
413	ART
414	ART
415	MUSIC
416	MUSIC
417	CL. RM. & SPEECH
418	CL. RM. & SOCIAL SCIENCE
419	MILITARY SCIENCE
420	PHYS. ED. MEN
421	PHYS. ED. WOMEN
422	PHYS. ED. WOMEN
427	ADMINISTRATION
428	CL. RM. & ENGLISH
429	CL. RM. & SOC. SCI.
430	GROUPS AND BUILDINGS
431	CL. RM. ED. & PSYCH.
432	GROUPS AND BUILDINGS
433	MILITARY SCIENCE
434	STUDENT UNION
435	AUDITORIUM
436	FIRE STATION
437	CENTRAL REC. & STORES
438	GROUPS AND BUILDINGS
439	GROUPS AND BUILDINGS
440	WAREHOUSE
441	MEN'S RESIDENCE HALL
442	MEN'S RESIDENCE HALL
443	MEN'S RESIDENCE HALL
444	MEN'S RESIDENCE HALL
445	MEN'S RESIDENCE HALL
446	STUDENT DINING & FACULTY CLUB
447	MEN'S RESIDENCE HALL
448	MEN'S RESIDENCE HALL
449	MEN'S RESIDENCE HALL
450	MEN'S RESIDENCE HALL
451	MEN'S RESIDENCE HALL
452	WAREHOUSE
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465	BIOLOGICAL SCIENCE
474	OFFICE OF ARCH. & ENGRS.
475	MILITARY SCIENCE
477	STUDENT & ALUMNI OFFICES
478	STUDENT HEALTH
479	GYMNASIUM
483	PHYS. ED. MEN—FLD. HOUSE
489	MEN'S RESIDENCE HALL
490	MEN'S RESIDENCE HALL
491	MEN'S RESIDENCE HALL
492	MEN'S RESIDENCE HALL
493	MEN'S RESIDENCE HALL
494	HOME ECON. & SPEECH
499	GROUPS AND BUILDINGS
500	PHYS. ED. WOMEN
505	GREENHOUSE
506	TOOL STORAGE
509	ARCHERY & GOLF STORAGE
510	SERVICE STATION
512	RESIDENCE
513	HOME MANAGEMENT HOUSE
522	CENTRAL GARAGE
524	SLIB STATION
525	LIBRARY BUILDING
526	SCIENCE BUILDING
527	WOMEN'S RES. HALL
528	CLASSROOM BLDG. SITE
531	MUSIC BLDG.



CAMPUS, UNIVERSITY OF CALIFORNIA, SANTA BARBARA COLLEGE

UNIVERSITY OF CALIFORNIA

DEGREES AND HONORS
1955-1956

At Berkeley

Ninety-third Commencement

At Los Angeles

Thirty-seventh Commencement

At Santa Barbara

Eleventh Commencement

At Davis

Ninth Commencement

At Riverside

Second Commencement

UNIVERSITY OF CALIFORNIA

THE NINETY-THIRD
COMMENCEMENT



1956

BERKELEY

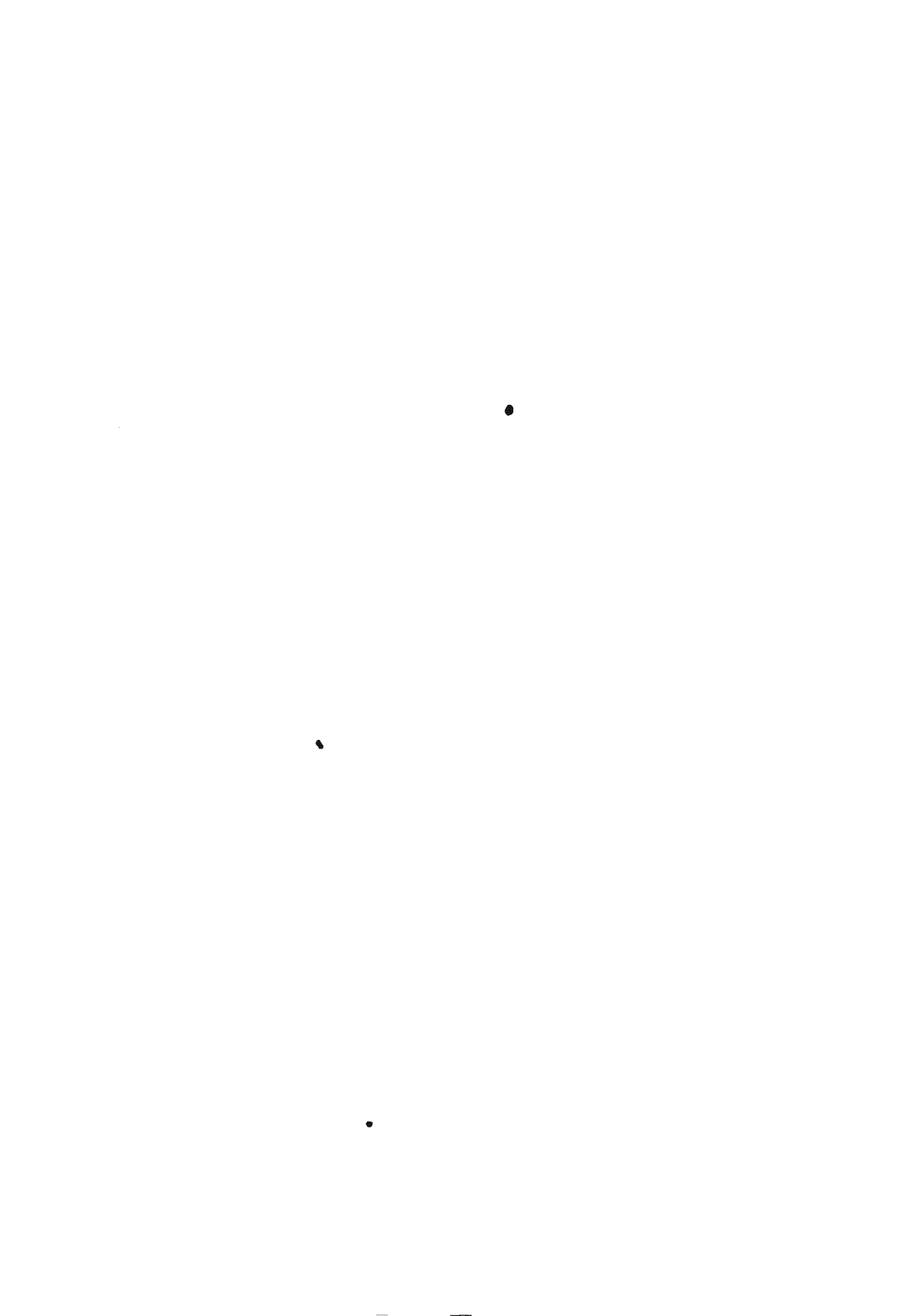
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UNIVERSITY OF CALIFORNIA

The Ninety-Third
Commencement Exercises

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UNIVERSITY OF CALIFORNIA

THE NINETY-THIRD
COMMENCEMENT



JUNE 6, 1956

CALIFORNIA MEMORIAL STADIUM
BERKELEY

PROGRAM



ENTRY OF CANDIDATES

Commencement Day Band

JAMES BERDAHL, Conductor

The audience will remain seated during the entry of candidates

ACADEMIC PROCESSION

A Festive Fanfare *Howard Ferguson*

Procession of Nobles from "Mlada" . . . *Nicolai Rimsky-Korsakov*

NATIONAL ANTHEM

INVOCATION

The Reverend FRANCIS G. QUINAN, C.S.P.

THE ABILITY TO CHOOSE WISELY

BERNICE NORINE BRONSDON

Candidate A.B., College of Letters and Science

SOCIETY AND THE SCIENTIST

WILLIAM SHARP FLOYD, JR.

Candidate B.S., College of Engineering

MUSIC

Toccata Marziale *Ralph Vaughan Williams*

FAREWELL REMARKS TO THE CANDIDATES

CHANCELLOR CLARK KERR

CONFERRING OF UNDERGRADUATE DEGREES AND CERTIFICATES

THE PRESIDENT OF THE UNIVERSITY

PROGRAM



AWARD OF THE UNIVERSITY MEDAL

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!

CONFERRING OF GRADUATE DEGREES AND CERTIFICATES AND THE HONORARY DEGREE

THE PRESIDENT OF THE UNIVERSITY

DISTRIBUTION OF SCROLLS

THE PRESIDENT OF THE UNIVERSITY
Chancellor CLARK KERR
Vice-President HARRY R. WELLMAN
Dean LINCOLN CONSTANCE
Acting Dean MORRIS A. STEWART
Dean HARRY J. VAUX

ADDRESS TO THE GRADUATES

THE PRESIDENT OF THE UNIVERSITY

PROGRAM



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

The Reverend Father QUINAN

EXIT MUSIC

Tarantella from "Soirées Musicales" *Benjamin Britten*

CHIMES

JOHN NOYES, Chimesmaster
MARGARET MURDOCK, Associate

UNIVERSITY MARSHAL

Professor ROBERT B. BRODE

HONORARY MARSHALS

For the Fifty-Year Reunion Class:

WILLIAM W. HENRY, Class of 1906

For the Twenty-five-Year Reunion Class:

DOLPH A. TIMMERMAN, Class of 1931

FACULTY MARSHALS

HARRY E. ALLISON

LANCE FLANAGAN

HAROLD W. IVERSEN

WOODROW W. MIDDLEKAUFF

HEBER A. NEWSOM

JACK D. ROGERS

MICHAEL C. ROGERS

MARK R. ROSENZWEIG

PAUL B. STEWART

WARD E. TABLER

ACADEMIC DRESS IN THE UNITED STATES

Academic dress, so prominent in a commencement ceremony, is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. The cap, gown, and hood of modern usage descended from articles of dress worn by church dignitaries in the Middle Ages. Today, the cap and gown indicate that the wearer is a member of a university or college. The hood shows that he holds a degree.

The cap, of black serge or broadcloth, is worn for all degrees, but the doctorate is entitled to a gold tassel, and the cap of the doctor may be of velvet.

Gowns are predominantly black. The bachelor's gown is distinguished by long, pointed sleeves. The master's gown has closed sleeves, square at the end, the arm coming through a slit at the elbow. (At the University of California candidates for masters' degrees wear bachelors' gowns.) The doctor's gown has round, bell sleeves, and is faced down the front and barred on the sleeves with velvet, either black or of the degree color.

The predominating color of all hoods is black. Bachelors' and masters' hoods are in the *Simple* shape while the Doctors' hoods are in the *Full* shape, the base of the hood in this latter shape being rounded. The lengths of the hoods are: bachelor, three feet; master, three and a half feet; doctor, four feet. Each hood possesses a silk, satin, or velvet border upon the outside, two to five inches wide, representing the faculty from which the wearer graduated, as follows:

Arts and Letters	White	Veterinary Science	Grey
Theology and Divinity . . .	Scarlet	Library Science	Lemon
Law	Purple	Pedagogy	Light blue
Philosophy	Blue	Commerce and Accountancy .	Drab
Science	Gold-yellow	Engineering	Orange
Fine Arts	Brown	Physical Education . . .	Sage-green
Medicine	Green	Humanics	Crimson
Music	Pink	Oratory	Silver-grey
Pharmacy	Olive	Public Health	Salmon-pink
Dentistry	Lilac	Agriculture	Maize
Forestry	Russet	Economics	Copper

Each hood is lined with silk in colors representative of the university granting the degree. Some examples of colors used in the lining of hoods are as follows:

<i>University</i>	<i>Lining</i>	<i>Chevron</i>
California	Gold	Yale blue
Chicago	Maroon . . . . .	.....
Columbia University	Light blue	White
Cornell University	Carnelian	Two white
Harvard University	Crimson . . . . .	.....
Illinois	Navy blue	Two orange
Indiana University	Cream	Crimson
Michigan	Maize	Blue
Minnesota	Old gold	Maroon
Pennsylvania	Cardinal	Navy blue
Princeton University	Orange	Black
Stanford University	Cardinal . . . . .	.....
Washington	Purple over gold . . . . .	.....
Wisconsin	Cardinal . . . . .	.....
Yale University	Blue . . . . .	.....

Members of the Board of Regents of the University of California wear *collaria officii*, narrow scarves of blue satin, with gold tassels hanging in front.

When degrees are conferred and certificates awarded, candidates will be presented in the following order:

Undergraduate Certificates

Curriculum in Nursing
Curriculum in Nursing Education
Curriculum in Public Health
Nursing
Medical Technology
Physical Therapy
X-ray Technicians
Technicians in Exfoliative Cytology

Undergraduate Degrees

Associate in Arts
Bachelor of Science
College of Agriculture
School of Business Administration
College of Chemistry
School of Criminology
College of Dentistry
College of Engineering
School of Forestry
School of Nursing
School of Optometry
College of Pharmacy
School of Medicine, Curriculum
in Physical Therapy
School of Public Health
Bachelor of Arts
College of Architecture
School of Criminology
College of Letters and Science

Graduate Certificates

Curriculum in Optometry
Teacher Training Curricula
Curriculum in Hospital Dietetics

Graduate Degrees

Bachelor of Laws, Hastings College
of the Law
Master of Business Administration
Master of City Planning
Master of Engineering
Master of Forestry
Master of Library Science
Master of Optometry
Master of Public Health
Master of Social Welfare
Master of Science
Master of Arts
Doctor of Pharmacy
Doctor of Dental Surgery
Bachelor of Laws, School of Law
Master of Laws
Doctor of the Science of Law
Doctor of Education
Doctor of Medicine
Doctor of Philosophy

At this Commencement the University is honoring the following retiring faculty and staff members for distinguished and faithful service:

FREDERICK S. BAKER, Professor of Forestry, and Silviculturist in the Experiment Station.

HARRY BERGER, Assistant Clinical Professor of Denture Prosthesis.

KARL M. BOWMAN, Professor of Psychiatry.

ASHLEY H. CONARD, Attorney in Residence Matters, and Associate Counsel of the Regents.

CLINTON C. CONRAD, Assistant Dean of Students, Director of Supervised Teaching, and Lecturer in Education.

CLINTON W. EVANS, Lecturer in Physical Education for Men.

HERMANN O. L. FISCHER, Professor of Biochemistry.

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

ERWIN G. GUDDE, Associate Professor of German.

BRUCE JAMEYSON, Professor of Civil Engineering.

RAYMOND W. JEANS, Professor of Architecture.

STAFFORD L. JORY, Professor of Architecture.

BENJAMIN H. LEHMAN, Professor of English.

ROLAND W. PINGER, Lecturer in Mechanical Engineering.

CLARENCE M. PRICE, Lecturer in Physical Education for Men.

HARRY W. SHEPHERD, Professor of Landscape Architecture.

ROBERT K. SPAULDING, Professor of Spanish.

We are honored to have with us on the stage at these Exercises the members of the Class of 1906, the Fifty-Year Reunion Class.



The Faculty and the First Year Students of the School of Social Welfare will entertain the graduating classes in both the Graduate and Group Major programs at a reception to be held at Stiles Hall immediately following the Commencement Exercises.

The Departmental Citation in Social Welfare will be presented at this reception.



At these Exercises the current members of the Band are grateful for the participation of a number of alumni of the University of California Band.



The Committee on Public Ceremonies acknowledges with appreciation the assistance of the following members of the Faculty who are responsible for planning the assembly and entry of the candidates:

Colonel CARL T. SCHMIDT
Lieutenant Colonel ARTHUR J. HOEMAN



At the conclusion of the Exercises, parents and friends of the graduates are invited to come to the stage and make the acquaintance of members of the faculty.



The Commencement Exercises are staged under the supervision of Chancellor CLARK KERR and the Committee on Public Ceremonies:

JAMES BERDAHL	MAYNARD T. MORRIS
ERNEST H. BURNES	NELLO PACE
MICHAEL A. GOODMAN	JACK D. ROGERS
HOBART M. LOVETT	DONALD J. ALSHULER, student member
STANLEY E. McCAFFREY	BETSY PRIDMORE, student member
DONALD MCGREGOR	

GARFF B. WILSON, Chairman
ALVIN A. EUSTIS, JR., Vice-Chairman

UNIVERSITY OF CALIFORNIA

CERTIFICATES, DEGREES,
AND HONORS*

JULY-SEPTEMBER, 1955



CERTIFICATES AWARDED



SCHOOL OF MEDICINE

CURRICULUM IN PHYSICAL THERAPY

Certificate of Completion to

² Louise Teresa Aaron (B.S. 1955)	Bessemer, Alabama
² Kashiwa Aizawa (B.S. 1955)	Chicago, Illinois
² Geraldine Grace Brancato (B.S. 1955)	San Jose
² Leland Harold Bresée (B.S. 1955)	Oakland
² Carole Lillian Carlin (A.B. 1954)	Marysville
² Pedro Castillo (B.S. 1955)	Berkeley
² Nancy Julia Cutter (B.S. 1955)	South Ashburnham, Massachusetts
² Edna Lou Darrow (A.B. San Diego State College 1953)	La Mesa
² Mary Lou Clausen Early (B.S. 1955)	Red Bluff
² Lewis Marsh Edwards (B.S. Utah State Agricultural College 1954)	Orem, Utah
² Yoshie Enkoji (B.S. 1955)	Sacramento
² Glea Joyce Gunderson (B.S. 1955)	South San Francisco
² Ann Stenton Halsey (B.S. 1955)	Oakland
² Margaret Mary Hess (B.S. 1955)	San Francisco
² Ramona Kirkpatrick Kline (A.B. 1954)	Long Beach
² John Martin Lollar (B.S. 1955)	Bakersfield
² Marlene Mickie Mlaker (A.B. San Jose State College 1954)	San Jose
² Akiko Oyamada (A.B. San Francisco State College 1953)	Berkeley
² Patricia Anne Putnam (A.B. Ohio Wesleyan University 1954)	Detroit, Michigan
² Phyllis Rae Rubin (B.S. 1955)	San Francisco
² Shirley Ellen Starr (A.B. University of Redlands 1954)	Holtville
² Phyllis Marion Vincent (B.S. 1955)	Ventura

CURRICULUM IN MEDICAL TECHNOLOGY

Certificate of Completion to

² Mary Kathleen Adams (A.B. 1954)	Grand Forks, North Dakota
² Rika Anton Aronov	San Francisco
² Gloria Choy (A.B. 1954)	San Francisco
² Kathleen Anne Flannery (A.B. San Francisco College for Women 1954)	San Jose
² Petronila Marzan Ibañez (A.B. 1954)	Bolinao, Pangasian, Philippine Islands
² Maria Ofelia Mapa (A.B. San Francisco College for Women 1954)	San Francisco
² Mary Jacqueline Michell (B.S. Marylhurst College 1954)	Warren, Oregon
² Joan Etsuko Narahara (A.B. 1954)	Alameda
² Thomas Shizuo Nishida (A.B. 1951)	Reedley
² Nancy Louise Poland (A.B. San Francisco College for Women 1954)	San Mateo
² Harold Sacks (A.B. 1954)	San Francisco
² Marylin Elizabeth Singiser	San Francisco
² Lois Patricia Sumner (A.B. Stanford University 1954)	San Francisco
² Victoria Mei Lan Wong (A.B. 1954)	San Francisco

* In this list the superior figure ¹ will denote awards of July 30, 1955; the superior figure ² will denote awards of September 10, 1955.

COURSE FOR X-RAY TECHNICIANS

Certificate of Completion to

² Ursula Ruth Koehne.....San Francisco

SCHOOL OF NURSING

**CURRICULUM IN NURSING EDUCATION
CLASS B**

Certificate of Completion to

² Ruth Wilhelmine Holm (B.S. 1955).....Worth, Illinois
² Elizabeth Anne Simons (B.S. 1955).....Catonsville, Maryland

CURRICULUM IN NURSING

Certificate of Completion to

¹ Lorna LaVella Austin (B.S. 1955)Independence
¹ Erna Louise Ballantyne (B.S. 1955).....El Cajon
¹ Margaret Jane Bowen (B.S. 1955).....Oakland
¹ Patricia Brandes (B.S. 1955).....Piedmont
¹ Laura Lee McBee (B.S. 1955).....Berkeley
² Barbara Kazuko Nishi.....Los Angeles
¹ Zena Pauline Trager (B.S. 1955).....Vallejo
¹ Kay Uno (B.S. 1955).....Los Angeles
¹ Sally Ann White (B.S. 1955).....San Francisco
¹ Louise Christine Young (B.S. 1955).....San Francisco
¹ Marlene Zander (B.S. 1955).....Ventura

DEGREES CONFERRED

COLLEGE OF PHARMACY

The Degree of Bachelor of Science in Pharmacy upon

¹ Oswald John Moreno.....Santa Barbara
¹ Jerome David Winkler.....San Francisco

COLLEGE OF DENTISTRY

The Degree of Bachelor of Science upon

¹ Jack Robert Brockbank (D.D.S. 1955).....Santa Ana

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

¹ Arthur AguiarOakland
¹ James Donovan AljianOakland
¹ Robert BernheimSan Francisco
² Cecil Conrad Bures (A.B. College of Puget Sound 1954).....Tacoma, Washington
¹ Gino Armando Casagrande.....Branca Perugia, Italy
¹ Peter Chua.....Manila, Philippine Islands
² Philip John Cronin (A.B. 1952).....Sacramento
² Clifford DavisNorth Highlands
² James Leroy Dillon.....Highland Falls, New York
¹ Alfredo Giorgio Durante.....Genoa, Italy
² Richard Edward Elson.....Ceres
² Harlan Kay Erickson.....Fullerton
¹ Mohammad Ali Etemad (Grad. University of Teheran 1951).....Tehran, Iran
² Alan Read Ghidossi.....Oakland
² Marvin Leonard Goodman.....Los Angeles
² Richard Dunn Graffis.....Alhambra
¹ Edward Ralph Gunion.....Oakland
² Paul Alvin Hathaway.....Eustis, Nebraska

¹ Matthew Emery Hazeltine, Jr.	Ross
¹ Theodore Leonard Johanson	Oakland
² Mary Elizabeth Lewis	San Francisco
² Jack Carl Lockhart	Albany
¹ Robert Francis Lucchetti (A.B. 1951)	San Francisco
² James Michael Lynch	Oakland
¹ Jackie Lee McDonald	Del Paso Heights
² John Lewis McFarlane	Riverside
² Charles Patrick Machado	Hayward
² Harold LeRoy Martinson	Portland, Oregon
² Henry Herman Meschendorf, Jr.	Yuba City
² Otto Junius Monson (A.B. Stanford University 1929)	Santa Monica
¹ Mary Lu Murry	Berkeley
¹ Kenneth William Ness	Aptos
² Yuji Okano	Yuba City
¹ Arthur Herman Persson	San Francisco
¹ Alan Thompson Pierce	Medford, Oregon
² Robert Watson Richards	Berkeley
¹ Norman Rivera	La Paz, Bolivia
¹ James Gregory Robinson	Sacramento
² Kenneth Lloyd Schwocho	Bakersfield
¹ Philip Seaton	Santa Rosa
² Stuart Warren Seiler	San Francisco
² Burton Stanley Sharpe	San Diego
¹ Ernest Adolph Spiess	San Francisco
² Ronald Edward Spring	San Francisco
¹ Walter Clain Straub	San Mateo
¹ Eric Hjalmar Swenson, Jr.	Albany
¹ James Vasile Vangele	San Francisco
¹ Ronald Ernest Vehlow	San Francisco
¹ James Henry Walsworth	Orange
² Henry G Wong	Oakland
¹ Yuen Yee Wong	Papeete, Tahiti
¹ Joseph Wilton Woods	San Mateo
² Herman Benjamin Zelles	San Francisco
² Said Mohammad Yassin Zia	Kabul, Afghanistan

SCHOOL OF CRIMINOLOGY

The Degree of Bachelor of Arts upon

¹ Robert Henry Dolloff	Oakland
¹ Richard Cookston Grace	Riverside

SCHOOL OF NURSING

CURRICULUM FOR UNDERGRADUATE STUDENTS IN NURSING

The Degree of Bachelor of Science upon

² Barbara Kazuko Nishi	Los Angeles
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CURRICULUM FOR GRADUATE NURSES

The Degree of Bachelor of Science upon

¹ Virginia Elizabeth Ackerman (A.B. Drake University 1945)	Oakland
² Mary Louise Anderson	Palo Alto
¹ Mary O'Brien Bates	San Rafael
¹ Betty Lou McLaughlin	Corning
² Lloyce Pritchett Moore	Denver, Colorado
¹ Esther Seynei	Oakland

SCHOOL OF OPTOMETRY

The Degree of Bachelor of Science upon

¹ Louis Charles Fosselman	Spreckels
² David Lee Land (A.B. 1952)	Des Moines, Iowa
¹ Jason Cheng Wong	Alameda

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

- ¹ Dorothy Darkenwald Blair Sacramento

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

- ¹ Hinrich Lorenz Bohn Sebastopol
¹ Donald Allen Cotton Pixley
¹ Lloyd Dennis Coyne Oakland
¹ Ralston Curtis Ross
¹ Millard LeRoy Johnson, Jr. San Fernando
¹ Joseph Stephan Kahn Ramot Hashavim, Israel
¹ Walter Jamieson McCallum Berkeley
² Philip Jules Marcus San Francisco
¹ George Carl Schattenburg Honolulu, Territory of Hawaii
¹ James Granville Siler, Jr. Orinda
¹ Larry King Simmering North Hollywood
¹ Carol Marie Spiekerman Lodi
¹ Jack Neal Vogley North Hollywood

COLLEGE OF ARCHITECTURE

The Degree of Bachelor of Arts upon

- ¹ Charles Medley Davis San Lorenzo
^{*1} James Gordon Hancock San Anselmo
¹ Manuel Jose Huertas Toronto, Canada
¹ Carlos Real Idefonso San Francisco
¹ Howard Ervin Leach Sutter Creek
² Torleif Hake Myhrer Oakland
¹ Eduardo José Sanabria Caracas, Venezuela
¹ Frank Smizer, Jr. Fontana
¹ George Frederick Voight Berkeley
¹ Raymond Weinstein San Diego

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

- ² Chester Leon Bramlett, Jr. Chemical Engineering, Basic Chemistry. Rodeo
¹ Toy Woon Der Basic Chemistry San Mateo
² Francis Herbert Godec (A.B. 1948). Chemical Engineering Fortuna
² Dietrich Wilhelm Heinritz Basic Chemistry Ardorf, Germany
¹ Coleman Richard Lee Chemical Engineering Daly City
¹ Shigeto Suzuki Basic Chemistry San Francisco

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

- ¹ Kristian Aaland Electrical Engineering Ulefoss, Norway
² Hussain Abid Awn Civil Engineering. . Diwaniyah, Dagharah, Iraq
¹ Giuseppe Jose Alicastro Civil Engineering San Rafael
¹ George A Amaroli Electrical Engineering Cloverdale
¹ Charles Anthony Andrade Engineering Physics San Francisco
² John Henry Bennett Civil Engineering Glendale
¹ Cecil Hamilton Best Engineering Physics Berkeley
¹ James Baillie Bouick, III Mechanical Engineering San Francisco
² Joseph Thomas Buckingham Mechanical Engineering Oakland

* As of June 16, 1955.

¹ Francis Joseph Clapham	Civil Engineering	Cainesville, Missouri
* ¹ Joseph Albert Cotteral, Jr.	Civil Engineering	Lafayette
¹ Clark Fremont Crocker		
(A.B. 1952)	Electrical Engineering	Berkeley
¹ Sherman Lewis Davis	Mechanical Engineering	Albany
² Donald Paul Evans	Mechanical Engineering	Castro Valley
² Charles William Farrell	Mechanical Engineering	San Francisco
¹ Kamal Noori Fattah	Civil Engineering	Sulaimanya, Iraq
¹ Lloyd Arthur Fecht	Mechanical Engineering	Encino
¹ Phyllis Anna Fong	Industrial Engineering	Ancon, Canal Zone
¹ Samuel Isamu Fukuda	Electrical Engineering	Sacramento
² Arvel Eston Gentry	Mechanical Engineering	Oildale
² Howard Robert Harker	Mechanical Engineering	Mill Valley
¹ Julian Hearne, Jr.	Electrical Engineering	Visalia
¹ Donald Marion Hostetter	Electrical Engineering	Oakland
² Ernest John Johnston	Mechanical Engineering	Oroville
¹ James Sidney Keith	Mechanical Engineering	Riverside
² Howard Lee	Electrical Engineering	San Francisco
² John Philip Lehman	Engineering Physics	San Diego
¹ Edward Hoyt McLaughlin	Industrial Engineering	Palm Springs
¹ Francis Xavier Morse	Electrical Engineering	Berkeley
¹ Walter Wynn Norsworthy	Civil Engineering	Sacramento
¹ James Daniel Palmer	Electrical Engineering	Mount Rainier, Maryland
² Dimitri Porkhayeff	Civil Engineering	Los Angeles
² Henry Dixon Powell, Jr.	Mechanical Engineering	Hayward
² Earl Richmond Rasmussen	Civil Engineering	Wilmar
² Frank A Regier		
(A.B. Bethel College 1948)	Electrical Engineering	Oakland
² Robert Alden Rhein	Engineering Physics	Oakland
* ¹ Pierre Elias Sawaya		
(B.S. 1951)	Process Engineering	Berkeley
¹ Charles Richard Schoner	Mechanical Engineering	Oakland
¹ Mahmoud Sepaspour	Petroleum Engineering	Tehran, Iran
² Ronald Earl Sorenson	Mechanical Engineering	Sacramento
² James Spiro Spirakis	Industrial Engineering	Brooklyn, New York
¹ Efstathios Peter Stathakis	Civil Engineering	San Francisco
¹ James Kenneth Story	Petroleum Engineering	Bellflower
¹ George Richard Trabert	Mechanical Engineering	San Francisco
¹ John Bernard Wathen	Civil Engineering	Fresno
² Henry Leslie White	Civil Engineering	Oakland
¹ Donald Yep	Civil Engineering	San Francisco

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

² Sue Ann Anderson	¹ Gerald Hamilton Haire
² Paul Chandler Ballard	² Joyce Christine Hardt
² Joan Brown Bedell	² Carol Elaine Hatherell
¹ Evelyn Brass	² Marilyn Horwitz
² Adolph Yeager Bremerman, Jr.	¹ Jane Kip Hutchins
¹ Jane Elizabeth Buchanan	¹ Jeanne Ann Jacobs
* ¹ Brenda Katharine Collins	² Robert Edward Jaffa
² Martha Ann Davidson	¹ Barbara Carole Johnson
² Evelyn Jean Fancher	¹ Kendric Arthur Johnson
² Ardis Joan Feldman	² Ronald Craig Johnston
¹ Milton Finger	¹ Carolyn Joyce Keith
² Laurretta Fox	¹ Dorothy Barbara Keller
¹ Mary Graybeal Fristedt	¹ La Vonne Peck Kilzer
² Andrew Manuel Giovannini	¹ Susan Lois Klugman
¹ Dan John Gruppo	¹ Egon Horst Kraus
¹ George Fred Hafner	¹ Rosemary Lee Krum

* As of June 16, 1955.

¹ Elizabeth Mills Laurenson	¹ Joy Ethel Schindler
² Howard Phillip Marguleas	¹ June Evelyn Smith
² Virginia Kay Melvin	¹ Robert Sherman Snow
¹ Loretta Marian Michaels	² Ernest Spaeth
² Sharon Miller	² Mary Alexia Stuart
² Frederick Britt Moosbrugger	² Joanne Adele Taylor
² Richard Manuel Moreda	² Charuwan Thirawat
² Allan Richard Morrison	¹ Reynold Tom
² Raymond Joseph Oakes, Jr.	² Sally Elizabeth Vaughan
² Elita Marie Patton	¹ Joan Ehrenzweig Von Kaschnitz
² George Meyer Rodenborn	² Alan Wayne Watson
² Hope Helen Rubsamen	² Lee Roy Francis Welser
¹ Florence Jane Saeltzer	² Darrell Monroe Wright
¹ Martha Anne Scheel	

The Degree of Bachelor of Arts upon

¹ Robert Dwight Adams	Physical Education	Salinas
² Virginia Cort Amos	History	Vallejo
¹ Joyce Virginia Anderson	General Curriculum	San Bruno
² Jacqueline Smith Andrew	General Curriculum	Oakland
¹ Frank Steve Arostegui	General Curriculum	Marysville
¹ James Dewey Baker	General Curriculum	Riverside
² Helen George Balakshin	Child Development	Berkeley
¹ Solon Domenico Barbis	Physiology	Oakland
¹ Beverly Helen Baumeister	Psychology	San Francisco
¹ Geralen Marjorie Beaver	General Curriculum	Walnut Creek
¹ Barbara Birdie Beckwith	Spanish, Political Science	Burbank
² Victor Zee Billington	Communication and Public Policy	Dunsmuir
² Robert Mario Bisio	Psychology	Redwood City
² Ronald Paul Bisio	Geological Sciences	Vallejo
² Harry Laurence Blair, Jr.	General Curriculum	Berkeley
¹ Barbara Ann Bloden	Political Science	Alameda
² Charles William Blodgett	Labor and Industrial Relations	Berkeley
¹ Alton Shaul Bock	English	Sacramento
¹ Audrey Marie Bohm	Psychology	San Francisco
* ¹ Faye Adele Sargent Bohn	French	Sonora
² Mary Catherine Bokinskie	French	Pittsburg
² Paul Wesley Bowen	Geological Sciences	Palo Alto
² Peter Edwin Boyes	Political Science	Piedmont
² Kathryn Anne Breuer	General Curriculum	Sacramento
¹ Eugene Edward Brick	Physics	San Mateo
¹ Mary Nortner Brown	English	San Francisco
* ¹ Robert Milton Brown	General Curriculum	Altadena
² Maxwell Ernest Bublitz, Jr.	Art	Berkeley
² Sara Zumwalt Burrows	General Curriculum	Colusa
² Charles Thomas Caito	Zoology	San Francisco
² John Campbell, Jr.	Economics	Honolulu, Territory of Hawaii
² Jeremy Joncris Carlson	General Curriculum	San Jose
² William Alderman Carney	General Curriculum	San Francisco
¹ Manuel Cardenas Carrillo	Political Science	San Francisco
² Lynn Palmer Cary	General Curriculum	San Francisco
† ² Beverly Case	General Curriculum	San Leandro
¹ Camille Cavalier	General Curriculum	Piedmont
¹ Marshall Joseph Celestin	Psychology	Oakland
² John Morse Chalmers, Jr.	General Curriculum	San Mateo
² Catherine Markovich Chapman	Journalism	San Francisco
¹ La Vonne Elaine Vick Christensen	Social Welfare	Alameda
¹ Florajean Cleave	Art	Richmond
¹ Robert Cordé Cline	Zoology	San Francisco
¹ Ivan Martin Cohen	Speech	San Francisco
¹ Joanne Marie Condrey	General Curriculum	Berkeley
¹ Barbara Ann Cook	General Curriculum	Beverly Hills

* As of June 16, 1955.

† Died September 11, 1955.

³ Carolyn Faunce Copeland	Journalism	Milford, Connecticut
² Robert Kenneth Cordeiro	Economics	Oakland
¹ Charles Evan Cornell	Psychology	Berkeley
² Sheldon Larry Corner	General Curriculum	Far Rockaway, New York
¹ Camille Elaine Crews	General Curriculum	Oakland
¹ Elizabeth Ann Crosby	General Curriculum	San Francisco
² Ceasar Morton Dangott	General Curriculum	Oakland
² Terry Hamilton Dearborn, Jr.	General Curriculum	Santa Barbara
² Sisvan Der Harootunian	Psychology	San Francisco
² Sheila Shepherd Derieg	General Curriculum	Piedmont
¹ Joan Marie Derry	General Curriculum	Atherton
¹ Zeev Dickmann	Zoology	Rishon-Le-Zion, Israel
¹ Donna Lea Dickson	General Curriculum	Piedmont
¹ Mary Ann Dillon	Social Welfare	Temple City
¹ Barbara Jean Dixon	General Curriculum	Hercules
¹ Sherman Drexler	Art	New York, New York
¹ Roger Charles Dunn	General Curriculum	Orinda
¹ John James Dutton	General Curriculum	Richmond, Texas
¹ Bettye Mae Eckhardt	General Curriculum	Glendale
¹ Marie Carmen Elizalde	General Curriculum	Carmel
² Walter Aloysius Ellis	Economics	Long Island City, New York
¹ Donna Joan Endsley	Physiology	La Crescenta
¹ Mark Eucher	French	Berkeley
² William Laimonis Ezers	Biochemistry	Berkeley
¹ Juanita Marchbanks Farrington	General Curriculum	Oakland
² Marian Ellyn Ferguson	General Curriculum	San Leandro
² Donald Thomas Fiala	Political Science	Jackson, Minnesota
² Thomas Lyle Fike	History	San Mateo
¹ Mary George Fogh	General Curriculum	Sebastopol
¹ Robert Ronald Fong, Jr.	Medical Sciences	Oakland
² Frances Anne Freistadt	General Curriculum	Hollywood
² George Franklin French	Slavic Languages and Literatures	San Francisco
¹ Richard Francis Fuery	Philosophy	Albany
¹ Isao Fujimoto	General Curriculum	Madrone
¹ Mary Stuart Fulkerson	English	Jonesboro, Tennessee
² John Minor Gabel	Education	Portland, Oregon
¹ Preston Herbert Gada	General Curriculum	Modesto
² Joanne Marie Gamlin	General Curriculum	Chicago, Illinois
¹ Henry Alan Garell	Labor and Industrial Relations	Reno, Nevada
¹ Rudolf Gast	Psychology	Hollywood
¹ Mary Teresa Gaughan	Social Welfare	Fall River, Massachusetts
¹ William E Geisreiter	General Curriculum	Sacramento
¹ Victor John Gianunzio	Political Science	Stockton
² Janice Hatton Gladstone	Sociology and Social Institutions	Berkeley
¹ Lawrence Robert Godtfredsen	Political Science	San Francisco
¹ Nancy Susan Goldberg	General Curriculum	Los Angeles
² Eugene Sangor Gordon	Linguistics	San Francisco
¹ Stanley Roger Gow	Biochemistry	San Francisco
² Emily Mae Grant	Social Welfare	Healdsburg
² Donald Cain Gray	History	Berkeley
² Frederick Louis Greene	General Curriculum	Oakland
¹ John William Griffith, III	General Curriculum	Houston, Texas
² Arthur Patrick Grollman	Chemistry	Dallas, Texas
² Zaven Geo Guiragossian	Physics	Los Angeles
² Margery Jean Guthrie	Art	Vallejo
¹ George Barrows Hagar	Political Science	Berkeley
² Kathleen Lois Hand	Dramatic Literature	Victorville
¹ Jean Delores Harris	General Curriculum	Oakland
² Edward Michael Hartnell	Art	Anaheim
(A.B. 1953)		
¹ Lawrence Everett Hawkins, Jr.	Speech	Berkeley
² Joseph Haynes	Economics	Berkeley
¹ Norma Benbrook Heffernan	General Curriculum	San Diego
¹ Frederick Warren Hellman	General Curriculum	San Francisco

¹ William John Heuer	General Curriculum	Oakland
² Eleanor Clark Hewlett	Vocational Education	Oakland
² Martin Hight	Chemistry	Oakland
² Phyllis Dwaine Hilton	History	San Bernardino
¹ Aiko Elsie Hirasaki	General Curriculum	Gilroy
² Philip Arthur Hogan	Geological Sciences	Berkeley
¹ John Holden	Speech	San Rafael
¹ Theresa Anne Hollander	General Curriculum	Arcadia
¹ William Franklin Holman, Jr.	General Curriculum	Oakland
¹ Jane Emiko Honda	Mathematics	Sacramento
¹ Francis Kenneth Hopfinger, Jr.	General Curriculum	Berkeley
² John William Johnson	Geological Sciences	Larkspur
(B.S. 1953)		
¹ Jessie Janice Jones	General Curriculum	Oakland
¹ Garnar Lu Jordan	General Curriculum	Ukiah
¹ Haruo Kato	Social Welfare	San Leandro
¹ Natalie Irene Kellett	History	Berkeley
¹ Sylvia Jean Kempe	Speech	Oakland
¹ Kathleen Dorothy Kenney	History	Berkeley
¹ Kerg Brooks Key, Jr.	General Curriculum	Alameda
² Marjorie Durling Kiviat	Economics	Ithaca, New York
² Phyllis Gertrude Koch	Child Development	Santa Cruz
¹ Diana Joyce Kovalevsky	Speech	Richmond
² Sylvia Marly Kramer	Music	Oakland
² Hans Wilhelm Krüger	Physics	Bremerhaven, Germany
¹ John Kenneth Kyes	Art	Oakland
² Thelma Joyce Larsen	General Curriculum	Oakland
¹ John Lawrence Laughlin	Economics	Eureka
² Edward Oliver Lee	General Curriculum	Oakland
¹ Leta Lee	Speech	Sacramento
² May Lon Lee	Journalism	Tracy
² James Lucas Lindsey, Jr.	Wildlife Conservation	Ukiah
² Amaryllis Noffsinger Lipscomb	Social Welfare	Berkeley
¹ Nicholas John Lothar	English	San Francisco
¹ George Lester Low, Jr.	General Curriculum	Oakland
¹ Jack Alan McCourtney	General Curriculum	Oakland
¹ Jane Ellen McGregor	English	Berkeley
² Daniel Alexander McMillan, III	Journalism	San Francisco
² Robert Gordon McWhirter	Economics	Albany
² Vincent Joseph Maiorana	Physical Education	Monterey
² Virginia Lee Mallery	Sociology and Social Institutions	San Francisco
² Charles Eugene Markley	General Curriculum	Albany
² James Woods Marshall	Political Science	Long Beach
² Sheila Ann Mattson	General Curriculum	Martinez
² John Matula	Physical Education	New York, New York
¹ Mary Sturdivant Mayne	General Curriculum	San Mateo
² Donald Russell Meek	General Curriculum	San Francisco
¹ Milton Shy Meeker	Psychology	Oakland
¹ Seymour William Meister	History	San Francisco
¹ Grace Marlene Merrill	General Curriculum	Long Beach
¹ Aubrey Wade Metcalf	General Curriculum	Oakland
² Yvon Antoine Milré	History	Pacific Palisades
² Leslie Arnold Minkus	English	San Francisco
² Suzanne Mitchell	Spanish	Riverside
² Daisho Miyagawa	Social Welfare	Berkeley
² Marianne Elisabet Molin	English	New York, New York
² Thomas Richard Mon	General Curriculum	Oakland
¹ Diane Marilyn Moncrieff	Speech	Berkeley
¹ Betty-Caryl Montgomery	Psychology	Piedmont
² John Stevenson Morken	General Curriculum	Martinez
² Richard Dutton Mulliner	General Curriculum	Salinas
¹ Lee Willard Myers	Philosophy	San Francisco
² Robert Eugene Myers	General Curriculum	Piedmont
¹ Karlyn Glaser Nathan	General Curriculum	Menlo Park

² Montejean Newman	General Curriculum	La Mesa
¹ Bart Nyman	General Curriculum	Oakland
² Barbara Flick O'Connor	English	Indio
¹ Midori Ogawa	General Curriculum	Pasadena
² Marilyn Berger Owens	Psychology	Suisun
¹ Ausma Ozols	General Curriculum	Oakland
¹ Chester Edmund Pennington	General Curriculum	San Francisco
² Richard Eric Pfeiffer	General Curriculum	Burlingame
¹ Bruce Albert Pifel	Communication and Public Policy	Oceanside
¹ Olga M Pirojnikoff	Social Welfare	San Francisco
² Arthur David Polson	General Curriculum	Seattle, Washington
¹ Marvin Robert Pugh	General Curriculum	San Francisco
¹ Richard Thomas Pullen, Jr.	Regional Group Major on Russia and Eastern Europe	Long Beach
² Thelma Leah Rabinovitz	General Curriculum	Portland, Oregon
² Carol Louise Racine	General Curriculum	Lafayette
¹ Jose Roberto Ramirez	Social Welfare	Pittsburg
¹ Jacques Robert Raven	Political Science	San Francisco
² Nancy Reading	General Curriculum	San Francisco
¹ Walter Recknagel	Economics	Landenburg, Germany
² Ernest Herbert Riley	(A.B. Mexico City College 1949) Psychology	Alameda
¹ Ronald Peter Rissone	General Curriculum	Reno, Nevada
¹ Doris Adele Ritchie	General Curriculum	Stockton
² David George Rogne	English	Lafayette
² Elizabeth Ann Rooney	French	Berkeley
¹ Jack Lee Rosenberg	Psychology	San Diego
¹ Robert Lewis Rossi	History	Ross
² Hadden Wing Roth	General Curriculum	Mill Valley
¹ Patricia Ann Royer	Social Welfare	Berkeley
¹ Thomas Ellwood Sawyer	Slavic Languages and Literatures	Los Angeles
² Ilse Schlanger	Psychology	Berkeley
² Stephen Everett Shank	Paleontology	Berkeley
¹ Harold Graham Shook	General Curriculum	San Francisco
² Eugene Simmons	History	Oakland
¹ Lloyd Simpson (B.S. 1951)	Geological Sciences	Los Angeles
¹ William Lee Simpson	Economics	Knoxville, Tennessee
¹ Anthonette Cynthia Skaggs	English	Redondo Beach
² Nancy Crenshaw Smith	Anthropology	Rancho Santa Fé
² Peter Schermerhorn Smith	General Curriculum	Beverly Hills
² James Edward Spangler	General Curriculum	Sacramento
¹ Margaret Patricia Sperry	General Curriculum	Oakland
² Malcolm Wallace Steel	Art	San Francisco
¹ Leighton Goldsmith Steele	English	Detroit, Michigan
¹ Florence Susan Steinmetz	General Curriculum	Danville
² Larry Joe Stensaas	Paleontology	Modesto
² Virginia Stott Steven	General Curriculum	San Francisco
¹ William Camp Stevenson	Social Welfare	Albany
¹ Shirley Lucille Stitt	General Curriculum	Antioch
² Henry Allen Stone	Physical Education	Berkeley
² Charles Asa Strong, Jr.	History	Piedmont
² Charles Mortimer Stuart	Zoology, Physiology	San Leandro
² Frederick George Styles	Political Science	Sacramento
¹ Carol Joyce Sweet	General Curriculum	Stockton
¹ Rosie Antonette Tallerico	Spanish	Weed
² Betty Michie Taniguchi	Social Welfare	Hilo, Territory of Hawaii
² Raymond Samuel Tankersley	Music	Colma
¹ Margaret Taylor	Psychology	Fresno
¹ Margaret Lewis Tellep	General Curriculum	El Segundo
² Norman Lee Thomas	Philosophy	Sparks, Nevada
² Allen Sprague Thompson	General Curriculum	Sunnyvale
¹ Frank Daniel Tuzzolino	History	Oakland
² Shimao Rod Umino	Psychology	Stockton

* As of June 16, 1955.

¹ Juan Valencia	Spanish	Hayward
² Melvin Chester Veregge	History	Stockton
¹ Hedy Helen Vogt	Social Welfare	Oakland
² Zaki Abdul Wahab	Economics	Bagdad, Iraq
² Carol Walter	Education	Travis Air Force Base
² Anna Biggs Walton	General Curriculum	Covina
¹ Rodney Bernard Warren	History	San Francisco
¹ Richard Henry Waters	Mathematics	Tulsa, Oklahoma
¹ Robert Davis Watkins	General Curriculum	Compton
¹ Diane Williams Watts	Art	Los Angeles
¹ Julius L C Weinberg	Philosophy	Oakland
² Marilyn Janice West	English	Sacramento
¹ Donald Pauson Whyte	General Curriculum	Scarsdale, New York
¹ Madelle Elizabeth Widrig	Sociology and Social Institutions	San Francisco
¹ Eleanor Baker Wigler	Psychology	Dugway, Utah
² Cress Williamson	General Curriculum	Sacramento
² Harold Wollenberg	Geological Sciences	San Francisco
¹ Beverly Anne Woodward	Political Science	Fresno
² John Joseph Wooldridge	Geophysics	Los Angeles
² Benjamin Mason Yates, Jr.	Art	Berkeley
² Paul Yensing Yee	Art	San Diego
¹ Stanley Setsuo Yoshida (B.S. Sacramento State College 1952)	Bacteriology	Sacramento
¹ Natalie Michael Zagrebin	General Curriculum	Berkeley
¹ Kenneth Douglas Zug	General Curriculum	Pacific Grove

SCHOOL OF PHARMACY

The Degree of Doctor of Pharmacy upon

² Kenneth James Ballard (A.B. 1950; B.S. 1954)	Palo Alto
² Lucia Sapong Casenas (B.S. Centro Escolar University, Manila, 1952)	Quezon City, Philippine Islands
² Alexander Frederick Dmytrow (B.S. 1950)	Smoky Lake, Alberta, Canada
² Conchita Ramos Garces (B.S. University of Philippines, Quezon City, 1953)	Hilo, Territory of Hawaii
² Adolph Joseph Kamil (B.S. 1954)	Dortmund, Germany
² Wang-Chung Thomas Li (B.S. 1953)	Hong Kong, China

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

¹ Floyd Arteas Serr (A.B. Sacramento State College 1951)	Courtland
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GRADUATE DIVISION

CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

² Virginia Fox Abplanalp (A.B. 1954)	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
² Janet Ann Banneck (A.B. University of Michigan 1953)	Richmond
<i>Major: Social Studies; Minor: English.</i>	
² Margaret Graham Coffey (A.B. 1939)	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
² Lucy Janet Duffel (A.B. 1954)	El Cerrito
<i>Major: English; Minor: Social Studies.</i>	

- ² Shirley-Jean Dyke (A.B. College of the Pacific 1954) Alameda
Major: Psychology; Minor: Social Studies.
- ² Mary Elizabeth Gerrity (A.B. 1955) Berkeley
Major: Music; Minor: French.
- ² Lila Mae Jackson (A.B. 1953) San Francisco
Major: Psychology; Minor: French.
- ² Donald Lee Kirkpatrick (A.B. 1954) Berkeley
Major: Social Studies; Minor: Psychology.
- ² Helen Adele Papen (A.B. 1954) San Francisco
Major: Psychology; Minor: English.
- ² Charlotte Tarleton Smith (A.B. 1955) Berkeley
Major: Art; Minor: Social Studies.
- ² William Wong (A.B. 1950; M.A. 1951) Oakland
Major: Social Studies; Minor: Art.

**CURRICULUM FOR THE TRAINING OF SECONDARY
SCHOOL TEACHERS**

Certificate of Completion (School of Education) to

- ² Betty Gayle Bennet (A.B. Stanford University 1954) San Francisco
Major: Social Studies; Minor: English.
- ² Gerald Raymond Bocciardi (A.B. 1948; M.A. 1950) San Leandro
Major: Italian; Minors: Spanish, Social Studies.
- ² Donald Frank Brown (A.B. Pomona College 1953) Berkeley
Major: Art; Minor: Social Studies.
- ² Kenneth Hunter Brown (A.B. 1951) Berkeley
Major: English; Minor: Social Studies.
- ² Carol Hink Carmody (A.B. 1931) Piedmont
Major: French; Minor: English.
- ² William Allen Clark (B.S. 1950; M.A. 1951) Berkeley
Major: Business Education; Minor: Social Studies.
- ² Theodore Naoum Gangursky (A.B. San Diego State College
1952) North Hollywood
Major: Social Studies; Minor: Life Science.
- ² Donald Francis Gercich (A.B. 1954) Oakland
Major: Physical Education; Minor: Social Studies.
- ² Mary Fredericka Glavin (A.B. Mills College 1954) Berkeley
Major: French; Minor: English.
- ² Marilyn Norville Hadley (A.B. 1954) Berkeley
Major: Social Studies; Minor: Speech.
- ² Taylor Milvern Harrell (A.B. 1954) Berkeley
Major: Social Studies; Minor: Spanish.
- ² Edward Abram Hart, Jr. (A.B. 1951) Oakland
Major: Physical Education; Minor: Speech.
- ² Clesson Hopkins Harvey (B.S. 1954) Berkeley
Major: Physical Science; Minor: Mathematics.
- ² Hildreth Manz Headrick (A.B. 1937) Oakland
Major: Art; Minor: English.
- ² Eugenia Jivi Horton (B.S. 1950; M.S. 1952) Berkeley
Major: Home Making; Minor: Social Studies.
- ² Richard Gable Hovannisian (A.B. 1954) Tulare
Major: Social Studies; Minor: English.
- ² Jeanne Lovejoy Johnson (A.B. 1953) San Bernardino
Major: Physical Education; Minor: English.
- ² Lanita M Londahl (A.B. 1955) Richmond
Major: English; Minor: Social Studies.
- ² Dorothy Low (B.S. 1954) San Francisco
Major: Home Making; Minor: Social Studies.
- ² Samuel Burton Melner (A.B. 1951; A.B. 1952) North Hollywood
Major: Social Studies; Minor: Life Science.
- ² Nancy Ballard Niederholzer (A.B. 1953) Berkeley
Major: Art; Minor: English.
- ² Dolores Conta Patton (A.B. 1954) Berkeley
Major: Social Studies; Minor: English.

- ² Irvin Edgar Rautenberg (A.B. 1948; M.A. 1953) Berkeley
Major: Social Studies; Minor: Italian.
- ² Dorothea Richardson (A.B. Mt. Holyoke College 1954). Wyomissing, Pennsylvania
Major: English; Minor: Social Studies.
- ² Ernest Allan Richter (A.B. University of Illinois 1952) Chicago, Illinois
Major: Social Studies; Minor: English.
- ² Jerome Cady Schneider (A.B. University of Wisconsin 1950) .. Willsboro, New York
Major: Social Studies; Minor: English.
- ² Carmen Wilde Shapley (A.B. University of Texas 1951; M.A. 1954) Sonoma
Major: French; Minors: Spanish, English.
- ² David Signer (A.B. 1953) Berkeley
Major: English; Minor: French.
- ² Ruth Jeanne Simmons (A.B. 1953) Berkeley
Major: Social Studies; Minor: English.
- ² Ann Teel (A.B. 1954) San Francisco
Major: Mathematics; Minor: Social Studies.
- ² Nell Sullivan Van Becker (A.B. 1950) San Francisco
Major: English; Minor: Social Studies.
- ² Christine Ann West (A.B. Occidental College 1954) Alhambra
Major: Mathematics; Minor: Social Studies.

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL SUPERVISORS

Certificate of Completion (School of Education) to

- ² Martin Anthony Tucker (A.B. 1946; M.A. 1953) Oakland
- ² Gertrude Ruth Williams (B.S. University of Akron 1940) Oakland

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ² Lucille Boudin Curtin (A.B. State College of Washington
 1928) Spokane, Washington
- ² Wiley Robert Martin (A.B. 1950) Oakland
- ² James Manuel Nunes (A.B. Stanford University 1930) Niles
- ² Arnold Robert Pagano (A.B. 1948) Berkeley
- ² Robert William Reasoner (A.B. 1950) Berkeley
- ² Charles Jackson Sudduth, Jr. (A.B. Lincoln University, Missouri,
 1940) Los Angeles

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL SUPERVISORS

Certificate of Completion (School of Education) to

- ² Martin Anthony Tucker (A.B. 1946; M.A. 1953) Oakland

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ² Thelma May Carder (A.B. 1945) Oakland
- ² James Beharrell Cozens (B.S. University of California, Los Angeles, 1948) .. Berkeley
- ² Edwin Clarence Rundstrom, Jr. (A.B. 1940) Anaheim
- ² Alvin H Thompson (A.B. Occidental College 1949; M.A. 1953) Los Angeles

CURRICULUM FOR THE TRAINING OF GENERAL ADMINISTRATORS

Certificate of Completion (School of Education) to

- ² William Holmes Bouton (A.B. San Francisco State College 1946) Oakland
- ² Robert Seligman (A.B. 1937) Berkeley

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

- ² Anne Potter Wigger (A.B. San Jose State College 1951; M.A. 1954) . . Santa Clara
Major: English; Minor: Social Studies.
- ² Gayle Audrey Wold (A.B. University of Minnesota 1951) Berkeley
Major: English; Minor: Social Studies.

DEGREES CONFERRED

**The Degree of Master of Business Administration (School of Business Administration) upon*

- ² Robert Eugene Berry San Diego
A.B. San Diego State College 1953.
- ² Soter G Liberty San Francisco
B.S. University of San Francisco 1952.
- ² Winton Edward Mather Berkeley
B.S. 1954.
- ² John Robert Moore, Jr. Cranford, New Jersey
A.B. Indiana University 1950.
- ² Vance Shepard Ridges Crockett
B.S. 1951.

The Degree of Master of City Planning upon

- ² Nancy Bronson Sacramento
A.B. Vassar College 1950.
Thesis: The functions of a California state planning agency, with particular reference to land use, circulation, and local planning.
- ² Heinz Fenichel Tel-Aviv, Israel
A.B. 1952; M.A. 1953.
Thesis: Sound as a factor in urban aesthetics.
- ² Donald Robert Newmark Berkeley
A.B. 1950.
Thesis: Urban renewal for Berkeley.
- ² Khalid Shibli Peshawar, Pakistan
B.S. University of the Punjab 1948; M.Eng. 1953.
Thesis: Role of urban planning in a national planning agency for Pakistan.

**The Degree of Master of Engineering upon*

- ² Peter Pei-Te Song Civil Engineering Hong Kong, China
B.S. University of Hong Kong 1952; Diploma, Imperial College of Science and Technology, London, 1953.
- ² Frank Clyde Stambach Irrigation Fresno
B.S. Fresno State College 1953.
- ² Philip Noel Storrs Sanitary Engineering Berkeley
B.S. 1953.

†The Degree of Master of Library Science (School of Librarianship) upon

- ² David Edward Ball Berkeley
A.B. 1952.
- ² Helen Meyer Brown San Francisco
A.B. 1930.

* 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 prescribed course of study and a thesis, or a prescribed course of study alone.

- ² Martha Louise Carter Los Angeles
A.B. 1954.
- ² Millie Jue Chong Oakland
A.B. 1954.
- ² Amerigo Ciani Berkeley
A.B. 1939; M.A. 1940; Ph.D. 1949.
- ² Joann Louise Cohn Portland, Oregon
A.B. Stanford University 1952.
- ² Alma Iwalani Franklin Honolulu, Territory of Hawaii
A.B. University of Hawaii 1954.
- ² Mary Katherine Chase Geyer Oakland
A.B. Stanford University 1922; Ph.D. University of Brussels 1927.
- ² Janet Eloise Kidwell Berkeley
A.B. 1954.
- ² Sheila Ann Knights San Francisco
A.B. San Francisco College for Women 1953.
- ² Harriet Jane Lampert Orange
A.B. 1954.
- ² Margaret Conniff Lanphier San Mateo
A.B. 1953.
- ² Edna Ashby Lytch Tucson, Arizona
A.B. University of Arizona 1953.
- ² Rosamond Margaret Maunula Menlo Park
A.B. Stanford University 1951.
- ² Robert Raymond Berkeley
A.B. 1949; M.A. 1953.
- ² Floyd Vernon Smith, Jr. Hayward
A.B. 1952.
- ² Roberta Berenice Stevenson San Bernardino
B.S. Miami University 1940.
- ² Mary Helen Stiles Phoenix, Arizona
A.B. 1954.
- ² Enoch Joseph Stolla Roosevelt, Utah
A.B. University of Utah 1954.
- ² Dorothy Louise Strang Long Beach
A.B. 1952.
- ² Marilyn Rae Swasey Modesto
A.B. 1954.
- ² Donnarae Charlotte Thompson Los Angeles
A.B. University of California, Los Angeles, 1954.
- ² Helen Sande Truber Berkeley
A.B. Willamette University 1928.
- ² Ann Whipple Wolcott Berkeley
A.B. University of Wisconsin 1953.
- ² Patricia Margaret Woodcock San Francisco
A.B. Montana State University 1954.

****The Degree of Master of Optometry (School of Optometry) upon***

- ² Edward Scott Hendricks Carmel
A.B. 1951; B.S. 1954.
- ² Marvin Ray Kasanoff Los Angeles
B.S. 1954.
- ² Gerald Alan Nankin Oakland
B.S. 1954.

*****The Degree of Master of Public Health (School of Public Health) upon***

- ² Donald Allen Beegle Rainier, Oregon
B.S. 1949 and M.S. 1951 University of Oregon.
- ² Antonino Pietro Romeo Calarco Oakland
B.S. 1950; M.A. San Francisco State College 1954.

* 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 Dorothy Rowena CostainHuron, South Dakota
A.B. State University of Iowa 1932.
- ² Joan Cannon FeastSacramento
A.B. Sacramento State College 1952; B.S. 1954.
- ² Donald Andrew HewittVictoria, British Columbia, Canada
M.D. University of Toronto 1941.
- ² Donald Carlisle JohnsonOakland
A.B. Stanford University 1950.
- ² Vaughan Alexander KalajanBeverly Hills
A.B. University of Utah 1947; M.A. Teachers College, Columbia University, 1948.
- ² Melvin Henry KirschnerLos Angeles
A.B. 1948 and B.S. 1949 University of California, Los Angeles.
- ² Ruth Sandoval MarcondesSão Paulo, Brazil
M.A. Arizona State College, Tempe, 1951.
- ² Virginia I MatéManila, Philippines
B.S. University of the Philippines 1948.
- ² Victoria Ann OgalWinnipeg, Manitoba, Canada
A.B. University of Manitoba 1953.
- ² Vincent Paul ParletteLa Jolla
A.B. 1949 and B.S. 1950 University of California, Los Angeles.
- ² Harper PuzissBerkeley
A.B. 1948; B.S. 1950.
- ² Mabel Stiles RickettSeattle, Washington
B.S. University of Washington 1952.
- ² Mehdy SorayaTeheran, Iran
Grad. University of Teheran 1951.
- ² Samuel Richard Wickel, Jr.Huntington Park
B.S. University of Utah 1953.

*****The Degree of Master of Social Welfare (School of Social Welfare) upon**

- ² Dorothy Marie BellBarnum, Minnesota
A.B. University of Minnesota 1948.
- ² Jeannemarie BurnhamSeattle, Washington
A.B. University of Washington 1945.
- ² Robert Jean HearickNorth Hollywood
A.B. San Jose State College 1953.
- ² Ruth Marie HeintzSan Jose
A.B. 1953.
- ² John Edgar LindbergSan Francisco
B.S. 1938.
- ² Phyllis Reiss LippincottSan Francisco
A.B. Brooklyn College 1951.
- ² Carolyn Moll PadillaSanta Clara
A.B. Gustavus Adolphus College 1952.
- ² Edna Hansen PriceSalt Lake City, Utah
A.B. University of Utah 1952.
- ² Marcia Wooster RoseGetzville, New York
A.B. University of Buffalo 1950.
- ² George Lawrence SmithReno, Nevada
A.B. Pontifical College Josephinum, Worthington, Ohio, 1923.
- ² Jane Magaw TotmanBerkeley
A.B. Syracuse University 1950.

****The Degree of Master of Science upon**

- ² Craig Clayton ChandlerForestryWalnut Creek
B.S. 1951.
Thesis: The classification of forest fuels for wild-land fire control purposes.
- ² Abd El Kader Mohamed El-Zarka..Plant PathologyOrman, Egypt
B.S. University of Cairo 1942.

*** A candidate may qualify for the degree on the basis of a thesis and a comprehensive examination or a comprehensive examination alone.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- 2 Clarence Chandler Gerrard Industrial Engineering . . Salt Lake City, Utah
 B.S. University of Utah 1950.
Thesis: The effect of the number of rows of objects and the width of visual field on
 visual inspection.
- 2 Leonard Gock Industrial Engineering Hong Kong, China
 A.B. Pomona College 1950.
Thesis: A study of the relationship between eye movements and manual work
 patterns.
- 2 Elkana Halevy Soil Science Tel-Aviv, Israel
 B.S. 1953.
Thesis: The nature of clay minerals in limestone soils from Israel.
- 2 Peter Edgar Hare Chemistry Takoma Park, Maryland
 B.S. Pacific Union College 1954.
- 2 Calvin Milton Heeb Chemistry Chico
 A.B. Chico State College 1953.
- 2 John Charles Ingamells Mechanical Engineering Albany
 B.S. 1954.
Thesis: Heat transfer to fluid flowing in coiled pipes.
- 2 Morimi Iwama Electrical Engineering Anjo, Japan
 B.S. 1954.
Thesis: A study of an anticipator type control for an airframe.
- 2 Gunars Kemanis Electrical Engineering Berkeley
 B.S. 1953.
Thesis: Scattering by a ferrite obstacle in a multimode waveguide.
- 2 Wilhelm Johan Klüver Electrical Engineering St. Louis, Missouri
 Engineer, Royal Institute of Technology, Stockholm, Sweden, 1951.
Thesis: Studies of backward-wave magnetron interaction.
- 2 Mordechai Max Korman Electrical Engineering Tel-Aviv, Israel
 B.S. 1952.
Thesis: Radiation from a ferrite-filled slot antenna.
- 2 Philip Thomas McGoldrick Genetics San Diego
 A.B. San Diego State College 1953.
- 2 Hiroshi Mori Civil Engineering Kyoto, Japan
 Grad. Tokyo University 1944.
Thesis: An investigation of the strength and stress-strain characteristics of com-
 pacted silty clay.
- 2 Israel Naor Irrigation Tel-Aviv, Israel
 B.S. 1954.
Thesis: The behavior of the interface between two fluids moving through porous
 media studied by means of the Hele-Shaw model.
- 2 Dorothy Jean Pederson Nutrition Minnewaukan, North Dakota
 B.S. North Dakota Agricultural College 1953.
Thesis: The utilization of carotene as affected by different levels of dietary protein.
- 2 Sara F Plett Nursing Hillsboro, Kansas
 A.B. Tabor College, Hillsboro, Kansas, 1947; B.S. University of Minnesota 1949.
- 2 George Peter Plotnikoff Electrical Engineering San Francisco
 B.S. 1950.
Thesis: A study of a proposed method for design of wideband transistor amplifiers.
- 2 Pauline Mont Sherman Mechanical Engineering Berkeley
 B.S. University of Michigan 1952.
Thesis: Visualization of low-density flows by means of oxygen absorption of ultra-
 violet radiation.
- 2 Armand Staprans Electrical Engineering Berkeley
 B.S. 1954.
Thesis: Electron trajectories in crossed field devices.
- 2 Daniel Michael Tellep Mechanical Engineering San Diego
 B.S. 1954.
Thesis: Lift on flat plates in supersonic low-density flow.
- 2 Thomas Andrew Trozera Metallurgy San Bernardino
 B.S. 1953.
Thesis: Activation energy for tensile deformation of aluminum.
- 2 Thomas Roberts Welch Electrical Engineering Ojai
 B.S. 1953.
Thesis: Investigation of the use of the describing function technique to specify
 nonlinear compensation of feedback control systems.

****The Degree of Master of Arts upon**

- ² Richard AbcarianEnglishBerkeley
A.B. 1952.
- ² Boyd Grant AllenArtBerkeley
A.B. 1954.
- ² Clio Phanie AslanisFrenchSan Francisco
A.B. San Francisco State College 1954.
- ² Albert BallEnglishHollywood
A.B. 1953.
- ² Gerda Straus BarkiZoologyBerkeley
A.B. 1943.
- ² Robert Clark BlaisdellPaleontologyWatsonville
B.S. University of Oregon 1953.
Thesis: The stratigraphy and foraminifera of the Matilija, Cozy Dell, and "Cold-water" formations near Ojai, California.
- ² William Francis BlazeGeophysicsHayward
A.B. 1951.
- ² Leslie Florence BoeEducationDetroit, Michigan
A.B. Albion College 1944.
- ² Chi Yuen ChanBacteriologyHanover, New Hampshire
A.B. Barnard College 1953.
- ² Gem Russell Davis, Jr.EducationPaso Robles
A.B. 1943.
- ² Sanford DavisEducationOakland
A.B. 1951.
- ² Charles Prewitt DickeyEducationOakland
A.B. 1951.
- ² Richard Tetsuwo DoiArtStockton
B.S. Northern Illinois State Teachers College 1949.
- ² Giles Ambrose DoylePolitical ScienceTucson, Arizona
A.B. University of Santa Clara 1952.
Thesis: The United States Geological Survey: a study of the role of science in government.
- ² Ronald Perry du BoisArtWinnipeg, Manitoba, Canada
A.B. 1952.
- ² Jamal ed Din Muhi ed Din
el MuzaffarInternational Relations....Jerusalem, Jordan
A.B. University of Kansas City 1953.
Thesis: National awakening and Arab unity.
- ² Dorothy Pearl EstepPhysical EducationSnelling
A.B. 1941.
Thesis: The relationship of static equilibrium to ability in motor activities.
- ² Griffith Osler FreedChild DevelopmentLos Angeles
A.B. University of California, Los Angeles, 1950; A.B. 1951.
Thesis: Personality formation as revealed through Thematic Apperception protocols.
- ² Assar Wolfgang Freund-Corvin ...Child DevelopmentSan Francisco
A.B. 1950.
Thesis: The perception of "adjustment."
- ² Joseph Bayard GoffEducationSan Francisco
Ed.B. University of California, Los Angeles, 1940.
- ² Emmanuel Kwamina HaganSociology and Social Institutions
B.S. State College of Washington 1953. Accra, West Africa
Thesis: Ethnic division of labor in East and West Africa.
- ² George Max HahnPhysicsBerkeley
A.B. 1952.
- ² Ellis James HarlowEducationSacramento
A.B. 1948.
- ² Esther Catherine HarriEducationBerkeley
A.B. 1953.
- ² Herbert J HauerMathematicsBerkeley
B.S. Queens College, New York, 1949.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- 2 Robert Peter Holten Mathematics Santa Rosa
 A.B. 1953.
- 2 Nathan Irvin Huggins History San Francisco
 A.B. 1954.
- 2 Anne Louise Hummel History Phoenix, Arizona
 A.B. University of Arizona 1952.
- 2 Austin George Hunt Education Sacramento
 A.B. Brigham Young University 1937.
- 2 Richard Stoneman Ivey Political Science Portland, Oregon
 A.B. Reed College 1950.
Thesis: The metropolitan press in the 1954 senatorial election in Oregon.
- 2 Mohammad Haris Jafri Economics Karachi, Pakistan
 A.B. 1949 and LL.B. 1951 University of Allahabad.
Thesis: Domestic financing of economic development.
- 2 Joyce Kislitzin Kallgren Political Science Berkeley
 A.B. 1953.
Thesis: Asian influences on Indochinese nationalism.
- 2 Norman Kanter Art Santa Monica
 A.B. 1954.
- 2 Peter Kirby Architecture. . Washington, District of Columbia
 B.Arch. University of Pennsylvania 1951.
Thesis: The physical character of urban spaces.
- 2 Elizabeth Ann Knight Education Carmel
 A.B. San Jose State College 1948.
- 2 Marjorie Isabelle Koenig Education Oakland
 A.B. 1940.
- 2 Diana Auriel Kontas Education Los Angeles
 A.B. Scripps College 1953.
- 2 Job Kuijt Botany..... Thetford Mines, Quebec, Canada
 A.B. University of British Columbia 1954.
- 2 John Rocca Lara Art Woodland
 A.B. 1953.
- 2 Milton Lees Mathematics Berkeley
 A.B. 1953.
- 2 Barbara Levison Sociology and Social Institutions. San Francisco
 A.B. Stanford University 1950.
Thesis: Tradition and westernization: the politics of intellectuals in India.
- 2 Elmer William McCormick Education Oakland
 A.B. 1940.
- 2 Eugene McCreary Education Fresno
 A.B. Fresno State College 1940.
- 2 Marilyn Esther McCurtain Political Science Berkeley
 A.B. Occidental College 1949.
Thesis: Political ecology of three metropolitan areas of California: San Francisco,
 Los Angeles, San Diego, 1850-1950.
- 2 Florence Eleanor McMurtry Education..... Calgary, Alberta, Canada
 A.B. University of Alberta 1949.
- 2 James Francis Mahar, Jr. Economics Berkeley
 A.B. 1949.
Thesis: Application of linear programming to a transportation problem of ocean-
 going ships.
- 2 Fred Thomas Martin Art Oakland
 A.B. 1949.
- 2 Gertrude Hertha Theresia Matl Architecture Graz, Austria
 Engineer, Technical Institute, Graz, Austria, 1952.
Thesis: Function and form in industrial architecture: a case study of long-range
 architectural planning in industry.
- 2 Doris Christine Meyer Physical Education..... San Francisco
 A.B. 1948.
- 2 Leonard Munter Education Walnut Creek
 A.B. George Washington University 1947.
- 2 Robert Stanley McFarlane Nielsen. Economics Armidale, Australia
 B.Econ. University of Sydney 1950.
Thesis: Transportation influences in urban development.
- 2 Sister Mary Aquinas Nimitz Zoology Berkeley
 A.B. Stanford University 1953.

- ² Henry Silas Panian History Honolulu, Territory of Hawaii
A.B. University of Oregon 1950.
Thesis: The immigration policy of Benito Juárez.
- ² Charles W Perkins Education Great Falls, Montana
A.B. College of Great Falls, Montana, 1953.
- ² Mary Francie Pinckert Art Larkspur
A.B. 1953.
- ² Bernard Halsie Purcell History Bakersfield
A.B. 1952.
- ² Elizabeth Gordon Ranck History Berkeley
A.B. 1953.
- ² Carl Edgar Roscheck Scandinavian Languages and Literatures
A.B. 1954. Berkeley
- ² Marjorie Kathryn Rosser Education Williamsport, Pennsylvania
A.B. Pennsylvania State College 1944.
- ² John Sabot Economics Parma, Ohio
B.B.A. University of Miami 1952.
Thesis: A method of determining residential real estate price trends.
- ² Janice Nicholson Schenk Statistics Berkeley
A.B. Millsaps College, Jackson, Mississippi, 1947.
- ² Jo Anne Shimonek Education Oakland
B.S. 1953.
- ² Philip Julian Sinnott, Jr. Education Berkeley^o
A.B. 1948.
- ² Sherman George Skaggs, Jr. Education Berkeley
A.B. 1951.
- ² Joseph Beiter Smith Slavic Studies New Philadelphia, Ohio
A.B. Dartmouth College 1949.
Thesis: The German attack on the Soviet Union and its effect on Soviet agrarian
policy, 1941-1943.
- ² Leona Atherton Smith Education Waco, Texas
A.B. Prairie View State Normal and Industrial College 1936.
- ² Maurice Camp Smith Anatomy Redlands
A.B. 1951.
Thesis: The effect of growth hormone, adrenocorticotrophic hormone, pitressin,
and hydrocortisone on mammary adenocarcinomas in C₃H mice.
- ² Helen Novak Stuart German Danville
A.B. Florida Southern College 1952.
- ² Robert Franklin Tilton Slavic Studies New Castle, Pennsylvania
A.B. Washington and Jefferson College 1950.
Thesis: The significance of the Locarno Treaties in the foreign policy of the Union
of Soviet Socialist Republics.
- ² Philip Auman Tippet Art Richmond
A.B. College of the Pacific 1950.
- ² Zdenek Trason International Relations Berkeley
Thesis: The origins of the Communist Party of Czechoslovakia.
- ² Elizabeth Lyser Tucker Child Development Berkeley
A.B. San Jose State College 1945.
Thesis: Convalescent children and their adjustment to hospitalization.
- ² Anthony Joseph Tudisco History Norwich, Connecticut
A.B. 1954.
- ² Thomas Richard Turner Education Berkeley
A.B. Chico State College 1937.
- ² David Meherin Van Becker English Berkeley
A.B. 1952.
- ² Estelle Dorothea von Ende Psychology Martinez
A.B. 1940; A.B. 1951.
Thesis: A cluster analysis of Judaic-Christian religious beliefs and of prejudice.
- ² Mary Virginia Wells English Brighton, Colorado
A.B. University of Colorado 1930.
- ² Gertrude Ruth Williams Education Oakland
B.S. University of Akron 1940.
- ² Alan Ray Wilson Education Berkeley
A.B. 1950.

- * Paul Aleck WilsonArchitectureSan Francisco
A.B. 1954.
Thesis: A marine retreat.
- * Gayle Audrey WoldEnglishBerkeley
A.B. University of Minnesota 1951.
- * John Lang WorcesterPhysicsBurbank
A.B. Occidental College 1953.
- * Robert Leonard WynneEducationAlameda
A.B. 1949.
- * Leonard Francis ZallerPolitical ScienceCleveland, Ohio
A.B. University of Notre Dame 1949.
Thesis: Economic factors in the development of Yugoslav foreign policy, 1939-1941.
- * Dvora ZoharyEducationJerusalem, Israel
M.A. Hebrew University 1950.

The Degree of Doctor of Education (School of Education) upon

- * LeRoy Alfred BlaserEducational Administration.....San Lorenzo
B.S. 1936 and M.S. 1944 Utah State Agricultural College.
Thesis: A study of certain factors relating to enrollment and retention of freshman students at Utah State Agricultural College.
- * Lawrence Sheldon Deacon.....Elementary EducationOakland
A.B. 1941; M.A. 1952.
Thesis: A comparison of two programs of instruction in spelling.
- * Patrick John GroffElementary Education..Klamath Falls, Oregon
B.S. 1949 and M.S. 1951 University of Oregon.
Thesis: Children's attitudes toward reading and their critical reading abilities in four content-type materials.
- * Rudolph Harry WeylandEducational CurriculumManteca
A.B. Northwestern College, Watertown, Wisconsin, 1934; M.S. Oklahoma Agricultural and Mechanical College 1945.
Thesis: The effects of a workshop on certain fourth-grade teachers' skills in teaching music reading.

The Degree of Electrical Engineer upon

- ** James Robert Freeman, Jr.....Los Angeles
B.S. California Institute of Technology 1944; M.S. 1951.
Thesis: The effect of eddy currents and distributed capacitance on the accuracy of electrodynamic wattmeters.

The Degree of Doctor of Philosophy upon

- * Johannes AbplanalpGeneticsLiebefeld, Switzerland
Ing. Swiss Federal Institute of Technology 1949; M.S. State College of Washington 1952.
Thesis: Effects of environmental heterogeneity on the estimation of genetic value of chickens.
- * Doris Goodrich AdamsEconomicsBerkeley
A.B. 1947.
Thesis: Population trends in relation to the economic development of Iraq.
- * Warren Edward AdamsEconomicsBerkeley
A.B. 1947.
Thesis: The land development program in Iraq, with special reference to the Dujaila Settlement, 1945-1954.
- * Irma Glicman AdelmanEconomicsBerkeley
B.S. 1950; M.A. 1952.
Thesis: The monetary theory of Leon Walras: a general equilibrium analysis of money.
- * Henry Aaron Alexander, Jr.PhilosophyAtlanta, Georgia
A.B. Princeton University 1947; M.A. 1951.
Thesis: Thomas Reid's defense of common sense.
- * Nicholas Michael AlexanderBiochemistryBoise, Idaho
A.B. 1950.
Thesis: Studies on the biosynthesis of serine.

* As of June 16, 1955.

- ¹ Bernard Edward Apfelbaum Psychology Berkeley
A.B. 1950.
Thesis: Dimensions of transference in psychotherapy.
- ² Frances Edna Anne Bailey Education Berkeley
A.B. 1937; M.A. 1938.
Thesis: The response of adolescents to selected Bible passages: the ability of youth to relate the Bible to its concerns.
- ³ Kenneth Edwin Barnhart, Jr. Mechanical Engineering San Diego
B.S. 1947; M.S. 1949.
Thesis: Transverse impact on elastically supported beams.
- ⁴ Edwin Demuth Becker, Jr. Chemistry Columbia, Pennsylvania
B.S. University of Rochester 1952.
Thesis: Infrared spectra of solids: I. Matrix isolation studies of reactive molecules: II. Temperature dependence of the spectrum of p-nitroaniline.
- ⁵ Chester Peter Bednarczyk Slavic Studies San Leandro
A.B. St. Mary's College, Michigan, 1938; M.A. 1953.
Thesis: Soviet technique of domination in Poland, 1943–1947.
- ⁶ R Linn Belford Chemistry La Porte, Texas
B.S. University of Illinois 1953.
Thesis: Bonding and spectra of metal chelates: ultraviolet, visible, infrared, and electron resonance absorption. Near infrared spectra of alcohols.
- ⁷ Monroe Roberts Birdsey Botany Coral Gables, Florida
A.B. University of Miami 1946; M.A. Columbia University 1947.
Thesis: The morphology and taxonomy of the genus *Syngonium* (Araceae).
- ⁸ Arnold Stanley Brownell Biophysics Idaho Falls, Idaho
B.S. University of Wyoming 1948.
Thesis: On the radiation sensitivity of *Escherichia coli*.
- ⁹ Laurence William Cor Romance Literature Black Eagle, Montana
A.B. Stanford University 1933; M.A. University of California, Los Angeles, 1949.
Thesis: Language in the theater: its nature and function according to contemporary dramatic theory in France.
- ¹⁰ Walter La Mon Crafford Economics El Cajon
A.B. San Diego State College 1948.
Thesis: Variations in the supply of retail automobile credit: a case study.
- ¹¹ Jack Arthur Culbertson Education Stockton
A.B. Emory and Henry College 1943; M.A. Duke University 1946.
Thesis: An evaluation of techniques for studying communication in school organizations.
- ¹² John Heywoode Dalton, Jr. Economics Berkeley
A.B. 1943.
Thesis: Gold Coast economic development: problems and policies.
- ¹³ Royce Deems Delmatier History Berkeley
A.B. 1948; M.A. 1951.
Thesis: The rebirth of the Democratic Party in California, 1928–1938.
- ¹⁴ Shoi Balaban Dickinson Sociology and Social Institutions Berkeley
A.B. 1949; M.A. 1951.
Thesis: The significance of interaction between status levels: a case study of a major department store.
- ¹⁵ Richard Rayman Doell Geophysics Richmond
A.B. 1952.
Thesis: Remanent magnetism in sediments.
- ¹⁶ Gene Frederick Dresselhaus Physics Sebastopol
A.B. 1951.
Thesis: Electronic energy bands in semiconductors with cubic crystal structure.
- ¹⁷ Douglas Carl Engelbart Electrical Engineering Mountain View
B.S. Oregon State College 1948; E.E. 1953.
Thesis: A study of high-frequency gas-conduction electronics in digital computers.
- ¹⁸ Charles John Erasmus Anthropology Santa Monica
A.B. University of California, Los Angeles, 1942; M.A. 1950.
Thesis: Reciprocal labor: a study of its occurrence and disappearance among farming peoples in Latin America.
- ¹⁹ Grant Noel Farr Economics Berkeley
B.S. 1942; M.B.A. 1947.
Thesis: A study of the origins of Section 7(a) of the National Industrial Recovery Act.

- ² Bernard Ross Felix Physics Santa Cruz
A.B. 1950.
Thesis: The thermal conductivity of lead at very low temperatures.
- ² José Fernando Fernández-Bertrán. Chemistry Havana, Cuba
Dr. in Physico-Chem. Sci. University of Havana 1950; M.S. Duquesne University
1952.
Thesis: Microwave spectra and structure of trimethylene oxide.
- ² Theodore Thomas Frankel Mathematics Encino
A.B. 1950.
Thesis: Harmonic integrals.
- ² Andrew Leroy Gardner Physics Salem, Utah
B.S. Utah State Agricultural College 1940.
Thesis: Determination of electron density in nitrogen afterglows using microwave
methods.
- ² William Wallace Gifford English Plainfield, New Jersey
A.B. Swarthmore College 1950; M.A. 1952.
Thesis: The social and political opinions of John Donne.
- ² Victor Ginsburg Comparative Biochemistry San Francisco
A.B. 1952.
Thesis: Carbohydrate metabolism in wheat seedlings.
- ² William Goldner Economics San Francisco
A.B. Stanford University 1937.
Thesis: Factors affecting the wage levels of metropolitan labor markets.
- ² Daniel Harris Goodman Electrical Engineering Berkeley
B.S. 1949; M.S. 1953.
Thesis: Density modulation of an electron stream from a field emitter cathode.
- ² Manuel Joe Gordon Zoology Columbus, Ohio
B.S. Ohio State University 1949; M.A. 1952.
Thesis: Physico-chemical investigations on rabbit spermatozoa, with special refer-
ence to electrophoretic separation of X- and Y-chromosome-bearing spermatozoa.
- ² Warren Stanley Gramm Economics Berkeley
A.B. 1944 and M.A. 1948 University of Washington.
Thesis: The development of electric power in northern California.
- ² Bernard Hall Economics Brooklyn, New York
A.B. Brooklyn College 1948.
Thesis: Interindustry and cyclical characteristics of manufacturing productivity
in the United States.
- ² Hugh Groves Hansen Economics Palo Alto
A.B. Oberlin College 1938; M.P.A. University of Michigan 1946.
Thesis: The Central Valley Project: federal or state?
- ² Charles Alexander Hanson Entomology Beverly Hills
B.S. 1948; M.S. 1949.
Thesis: The biology of *Garmania amboinensis* (Oudemans), with notes on two
other species of phytoseiid mites.
- ² Robert Carl Hanson Sociology and Social Institutions
A.B. 1949; M.A. 1951. Marquette, Kansas
Thesis: Confirmation in social research.
- ² Robert Derry Hapgood English Lompoc
A.B. 1950; M.A. 1951.
Thesis: A rebirth of tragedy: ritual as matrix and element in Shakespeare's early
tragedies.
- ² David Francis Hardwick Entomology Ottawa, Ontario, Canada
A.B. University of Saskatchewan 1946; M.S. McGill University 1948.
Thesis: A revision of the reniform-eyed group of the genus *Schinia* (Lepidoptera:
Phalaenidae).
- ² Franklin Marcel Harold Comparative Biochemistry
B.S. The City College, New York, 1952. New York, New York
Thesis: Tracer studies on the degradation of cholesterol and related sterols in the
rat.
- ² Roger George Hart Biophysics St. Paul, Minnesota
A.B. University of Minnesota 1948.
Thesis: The fine-structure of tobacco mosaic virus as revealed by electron micro-
scopy.
- ² Elmer Bostwick Harvey Zoology Stockton
B.S. 1949; M.A. 1953.
Thesis: Placentation in Ochotonidae and Aplodontidae.

- ² Harry Thomas Harvey Plant Pathology San Diego
A.B. 1948 and M.A. 1951 San Diego State College.
Thesis: Germination type in downy mildews and its relation to fungicidal action.
- ² Robert Tweed Hersh Biophysics Cleveland, Ohio
A.B. 1947 and M.A. 1951 Columbia University.
Thesis: Studies with a synthetic-boundary ultracentrifuge cell, and properties of an abnormal protein found in mosaic-diseased tobacco plants.
- ² Philip Elwin Hildreth Zoology Marlboro, New Hampshire
A.B. Dartmouth College 1947; M.A. 1950.
Thesis: The problem of synthetic lethals in *Drosophila melanogaster*.
- ² Jerome Edwin Hirsch Psychology Berkeley
A.B. 1952.
Thesis: The determinants of learning without awareness.
- ² Boyd Francis Huff History Spokane, Washington
A.B. University of Washington 1938.
Thesis: The maritime history of San Francisco Bay.
- ² Charles Marion Huggins Chemistry Greensboro, North Carolina
B.S. University of North Carolina 1952.
Thesis: Infrared and nuclear magnetic resonance studies of hydrogen bonding systems.
- ² William James Humphries Romance Literature Columbia, South Carolina
A.B. and M.A. University of South Carolina 1935; M.Ed. Pennsylvania State College 1941.
Thesis: An edition and study, linguistic and historical, of the French translation of 1372 by Jean Corbechon of Book XV (Geography) of Bartholomaeus Anglicus' *De proprietatibus rerum*.
- ² William Pryor Irwin Political Science Cleveland, Ohio
A.B. Hiram College 1948; M.A. Western Reserve University 1950.
Thesis: The Rocky Mountain ballot: a study of political behavior in the State of Colorado.
- ² Norman Richard Jackman Sociology and Social Institutions Berkeley
A.B. 1947; B.L.S. 1950; M.A. 1953.
Thesis: Collective protest in relocation centers.
- ² George Jeromson Applied Mathematics New York, New York
B.E.E. The City College, New York, 1944; M.E.E. Polytechnic Institute of Brooklyn 1947.
Thesis: Propagation of electromagnetic waves in ferrites.
- ² James Jiu Chemistry Oakland
B.S. 1952.
Thesis: Studies in polycyclic compounds.
- ² Walter John, Jr. Physics Oklahoma City, Oklahoma
B.S. California Institute of Technology 1950.
Thesis: Systematics of excitation functions with application to lead.
- ² Nikki Reichard Keddie History Palo Alto
A.B. Radcliffe College 1951; M.A. Stanford University 1951.
Thesis: The impact of the West on Iranian social history.
- ² Bert Yarbrough Kersh Education Burlingame
A.B. Santa Barbara College 1950; M.A. 1953.
Thesis: Variations in number symbols and instructional procedures in learning numerical concepts.
- ² John Killeen Mathematics Los Gatos
A.B. 1949; M.A. 1951.
Thesis: Asymptotic perturbation of differential equations.
- ² Oscar Clinton Kolar, Jr. Physics Los Angeles
A.B. University of California, Los Angeles, 1949.
Thesis: The mechanism of the reaction $p + O^{16} \rightarrow p + 4\alpha$ at 29 Mev.
- ² Robert Paul Kraft Astronomy Whittier
B.S. 1947 and M.S. 1949 University of Washington.
Thesis: The Ca II emission in classical Cepheid variables.
- ² Donald Richmond Le Gallais Plant Physiology
Vancouver, British Columbia, Canada
B.S.A. 1937 and M.S.A. 1941 University of British Columbia.
Thesis: A study of growth of plant tissue in relation to composition and concentration of the external medium.

- ² Robert Aaron Levy Physics El Paso, Texas
B.S. 1947 and M.A. 1948 University of Texas; M.A. 1950.
Thesis: Investigations of metals and metal-ammonia solutions by electron spin resonance.
- ² Robert Henry Lindquist Chemistry Minneapolis, Minnesota
B.Chem. 1949 and M.S. 1950 University of Minnesota.
Thesis: The relative rate of isomerization of isotopically substituted cyclopropane.
- ² Beverly Turner Lynds Astronomy Mount Hamilton
B.S. Centenary College 1949.
Thesis: Spectra of white dwarfs.
- ² Clarence Roger Lynds Astronomy Burbank
A.B. 1952.
Thesis: The eclipsing binary UX Monocerotis.
- ² Alvin Leonard Marty Economics Los Angeles
A.B. University of California, Los Angeles, 1947.
Thesis: Statics and dynamics in Ricardo and Marshall.
- ² James Dawson Mohler Zoology Columbia, Missouri
A.B. 1949 and M.A. 1950 University of Missouri.
Thesis: Genotype and phenocopy frequency in *Drosophila melanogaster*.
- ² Mir Subhan Mulla Entomology Kandahar, Afghanistan
B.S. Cornell University 1952.
Thesis: The biology of *Typhlocyba prunicola* Edwards and *T. quercus* (Fabricius) on prunes in California.
- ² Yook Cheng Ng Biophysics Berkeley
A.B. 1949.
Thesis: Applications of infrared spectrometry to the biochemistry of lipids and proteins.
- ² Robert Joseph Pitchell Political Science Sacramento
A.B. Fordham University 1939.
Thesis: Twentieth-century California voting behavior.
- ² Elmer Joseph Reist Chemistry Edmonton, Alberta, Canada
B.S. University of Alberta 1952.
Thesis: Cyclic intermediates in reactions of certain organic compounds.
- ² Gordon Wayne Repp Physics Sacramento
A.B. 1950.
Thesis: π^+ photomeson production from hydrogen, deuterium, helium, and carbon.
- ² John Brockway Rogan Chemistry Laramie, Wyoming
B.S. University of Wyoming 1952.
Thesis: The chemistry of angularly substituted fused-ring systems.
- ² Robert Rogers, Jr. Philosophy San Francisco
A.B. 1949; M.A. 1953.
Thesis: The representative theory of perception.
- ² James Givens Roney, Jr. Anthropology Dallas, Texas
A.B. Texas Technological College 1939; M.D. Marquette University 1948.
Thesis: A study of skeletal maturation in central Iran.
- ² Francis Warren Sayre Biochemistry Empire
A.B. 1949; M.A. College of the Pacific 1951.
Thesis: Studies on hydroxyamino acid deaminating enzymes.
- ² Joye Harold Severaid Zoology Huxley, Iowa
B.S. Iowa State College of Agriculture and Mechanic Arts 1938; M.S. University of Maine 1941; M.A. 1949.
Thesis: The natural history of the pikas (mammalian genus *Ochotona*).
- ² George Donald Shelby Economics Cincinnati, Ohio
A.B. University of Cincinnati 1947.
Thesis: An analysis of Schumpeter's business cycle theory.
- ² Virgie Guinn Shore Biochemistry Berkeley
A.B. 1950.
Thesis: Energy transfer and fluorescence in proteins, nucleic acids, and related compounds.
- ² William Russell Sickles Psychology Bigfork, Montana
A.B. Wittenberg College 1940; M.A. Teachers College, Columbia University, 1941.
Thesis: Probability, perception, and form.
- ² Raymond Andrew Sjodin Comparative Physiology South Gate
B.S. California Institute of Technology 1951.
Thesis: The behavior of brain and retinal tissue in mortality of the early chick embryo.

- ² Helen Jeanette SoudersNutritionPiedmont
B.S. Montana State College 1932; M.S. University of Michigan 1935.
Thesis: Changes in weight and composition of organs during the reproductive cycle in rats.
- *² Edward Fawsitt StanifordHistorySouth Pasadena
A.B. Grinnell College 1944; M.A. 1947.
Thesis: Governor in the middle: the administration of George C. Pardee, Governor of California, 1903–1907.
- ² Eileen TannenbaumChemistryHolyoke, Massachusetts
A.B. 1950 and M.A. 1952 Mount Holyoke College.
Thesis: The microwave spectrum and barrier to internal rotation of CH_3NO_2 , CD_3NO_2 , and CF_3NO_2 .
- ² David Robert TeetersPhysicsCorvallis, Oregon
A.B. Oregon State College 1942; M.A. 1949.
Thesis: Nuclear magnetic resonance in some binary alloys.
- ² Robert Daniel TrippPhysicsBronxville, New York
B.S. Massachusetts Institute of Technology 1949.
Thesis: Elastic scattering of high-energy polarized protons by complex nuclei.
- ² Mark Jay Van AkenHistoryColdwater, Michigan
A.B. University of Michigan 1944; M.A. 1950.
Thesis: Origins of the Pan-Hispanic movement to 1866.
- ² Emil John Volcheck, Jr.ChemistryOmaha, Nebraska
B.S. Massachusetts Institute of Technology 1952.
Thesis: Structural and synthetic studies on carpaine.
- ² Harold Ivan WeingartenChemistryLos Angeles
B.S. University of California, Los Angeles, 1952.
Thesis: Rearrangements of 3- and 4-methoxycyclohexanecarboxylic acid derivatives.
- ² Stanley L. Whetstone, Jr.PhysicsChatham, New Jersey
A.B. Williams College 1949.
Thesis: The scattering of 22-Mev positive pions on protons.
- ² Marion Isabelle WiemanPsychologyWrightwood
A.B. Antioch College 1940.
Thesis: Some possible cortical controls of recall behavior.
- ² Robert Morgan WiemanPhilosophyChicago, Illinois
A.B. Central College, Fayette, Missouri, 1942; M.A. 1947.
Thesis: The social criteria of value.
- ² Raymond Grover Wolfe, Jr.Comparative BiochemistryOakland
A.B. 1942; M.A. 1948.
Thesis: The isolation and mechanism of action of the enzyme malic dehydrogenase.
- ² Manfred Ernst WolffPharmaceutical ChemistrySan Francisco
B.S. 1951; M.S. 1953.
Thesis: The synthesis and some pharmacological properties of certain derivatives of 1-phenyl-2, 3-diamino-1-propanol.
- ² Tom J YpsilantisPhysicsSalt Lake City, Utah
B.S. University of Utah 1949; M.A. 1952.
Thesis: Experiments on polarization in nucleon-nucleon scattering at 310 Mev.

* As of June 16, 1955.

HONORS WITH DEGREES**HONORABLE MENTION WITH THE DEGREE OF
ASSOCIATE IN ARTS****JULY—SEPTEMBER, 1955****IN THE COLLEGE OF LETTERS AND SCIENCE**

- | | |
|---|--|
| ² Adolph Yeager Bremerman, Jr. | ² Frederick Britt Moosbrugger |
| ² Mary Graybeal Fristedt | ² George Meyer Rodenborn |
| ² Andrew Manuel Giovannini | ¹ Martha Anne Scheel |
| ¹ George Fred Hafner | ¹ June Evelyn Smith |
| ² Robert Edward Jaffa | ² Ernest Spaeth |
| ¹ LaVonne Peck Kilzer | ² Charuwan Thirawat |
| ¹ Susan Lois Klugman | ¹ Reynold Tom |
| ¹ Egon Horst Kraus | ¹ Joan Ehrenzweig Von Kaschnitz |
| ² Sharon Miller | |

HONORS WITH THE BACHELOR'S DEGREE†**JULY—SEPTEMBER, 1955****IN THE SCHOOL OF BUSINESS ADMINISTRATION**

- ¹
- Alan Thompson Pierce

IN THE SCHOOL OF NURSING**CURRICULUM FOR GRADUATE NURSES**

- | | |
|--|----------------------------|
| ¹ Virginia Elizabeth Ackerman | ¹ Esther Seynei |
|--|----------------------------|

IN THE COLLEGE OF AGRICULTURE

- | | |
|----------------------------------|---------------------------------------|
| ¹ Joseph Stephan Kahn | ¹ Walter Jamieson McCallum |
|----------------------------------|---------------------------------------|

IN THE COLLEGE OF ARCHITECTURE

- ¹
- Howard Ervin Leach

IN THE COLLEGE OF ENGINEERING**ELECTRICAL ENGINEERING**

- | | |
|---------------------------------|-----------------------------|
| ¹ Julian Hearne, Jr. | ² Frank A Regier |
|---------------------------------|-----------------------------|

ENGINEERING PHYSICS

- ²
- John Philip Lehman

MECHANICAL ENGINEERING

- | | |
|---------------------------------------|---------------------------------|
| ² Joseph Thomas Buckingham | ¹ James Sidney Keith |
| ² Ronald Earl Sorenson | |

† In this list the superior figure ¹ denotes awards of July 30, 1955; the superior figure ² denotes awards of September 10, 1955.

IN THE COLLEGE OF LETTERS AND SCIENCE

ART

¹ Florajean Cleave

CHEMISTRY

² Arthur Patrick Grollman

ECONOMICS

¹ William Lee Simpson

² Zaki Abdul Wahab

EDUCATION

² Carol Walter

ENGLISH

¹ Mary Nortner Brown

GENERAL CURRICULUM

² Sheila Shepherd Derieg

¹ Barbara Jean Dixon

¹ John James Dutton

Highest Honors

² Sheldon Larry Corner

LINGUISTICS

² Eugene Sangor Gordon

PHILOSOPHY

Highest Honors

¹ Julius L C Weinberg

PSYCHOLOGY

² Ernest Herbert Riley

¹ Eleanor Baker Wigier

Highest Honors

¹ Audrey Marie Bohm

ONAL GROUP MAJOR ON RUSSIA AND EASTERN EUROPE

¹ Richard Thomas Pullen, Jr.

SLAVIC LANGUAGES AND LITERATURES

² George Franklin French

SOCIAL WELFARE

¹ William Camp Stevenson

SOCIOLOGY AND SOCIAL INSTITUTIONS

² Janice Hatton Gladstone

SPEECH

¹ Sylvia Jean Kempe

¹ Diana Joyce Kovalevsky

VOCATIONAL EDUCATION

² Eleanor Clark Hewlett

UNIVERSITY OF CALIFORNIA
CERTIFICATES, DEGREES,
AND HONORS

JANUARY 26, 1956



CERTIFICATES AWARDED

SCHOOL OF MEDICINE

CURRICULUM IN MEDICAL TECHNOLOGY

Certificate of Completion to

Anne Elizabeth Allumbaugh (B.S. Oregon State College 1953) San Francisco
Virginie Cecille Desme (A.B. San Francisco State College 1955) San Francisco
Allen Wong (B.S. 1952) San Francisco

COURSE FOR TECHNICIANS IN EXFOLIATIVE CYTOLOGY

Certificate of Completion to

Gloria Choy (A.B. 1954) San Francisco
Howard Vernon Greenman (A.B. 1943) San Francisco
Joan Etsuko Narahara (A.B. 1954) Alameda
Thomas Shizuo Nishida (A.B. 1951) Reedley
Petronila Ibañez Pugay (A.B. 1954) Bolinao, Pangasian, Philippine Islands
Harold Sacks (A.B. 1954) San Francisco

SCHOOL OF NURSING

CURRICULUM IN PUBLIC HEALTH NURSING

CLASS B

Certificate of Completion to

Virginia Elizabeth Ackerman (A.B. Drake University 1945;
B.S. 1955) Earlham, Iowa
Cecilia Therese Kotecki (B.S. 1955) Berkeley
Golda McGowan (B.S. 1955) Concord
Mary Clare McKinnon (B.S. 1955) Oakland
Elizabeth Rice (B.S. 1954) San Francisco
Mary Kacer Skeen (B.S. 1955) Berkeley
Helen Elizabeth Wicks (B.S. 1955) Castro Valley

CURRICULUM IN NURSING EDUCATION

CLASS A

Certificate of Completion to

Ruby Lee Liles (A.B. 1951; B.S. 1955) San Francisco
Yuriye Morimoto (B.S. 1954) Auburn

CLASS B

Certificate of Completion to

Mary Margaret Gomes (B.S. 1955)	Pittsburg
Betty Lou McLaughlin (B.S. 1955)	Corning
Loyce Pritchett Moore (B.S. 1955)	Denver, Colorado

CURRICULUM IN NURSING

Certificate of Completion to

Marjorie Ann Achterberg	Visalia
Patricia Louise Callison	San Jose
Carol Marzluff Dutra	Berkeley
Carol Joyce Gin	Oakland
Marjorie Mable Hofer	Dinuba
Renata Margaret Leeman	Oakland
Mary Ann Lichti	Fresno
LaVonne Weisenberger Lynch	El Cerrito
Joan Beverly Murray	Fresno
Constance Vivian Pomeroy	San Francisco
Lorraine Carlyon Ritchlin	Oakley
Millicent Manwaring Rodman	Santa Cruz
Etsuko Sakuma	Los Angeles
Pauline Hatsue Sakuma	San Francisco
Grace Sachiye Sato	Los Angeles
Keiko Shimane	Gardena
Rae Ellen Smith	Hayward
Gladys Kiyoko Takenouchi	Pasadena
Marilyn Elaine Williams	Oakland
Kaoru Yokogawa	San Francisco

DEGREES CONFERRED

COLLEGE OF PHARMACY

The Degree of Bachelor of Science in Pharmacy upon

John Lincoln Carlson	Palo Alto
Hiram Hin Chow	Pittsburg

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

Glenn Leighton Atwater	Palo Alto
Norman Vance Auther	Berkeley
Arthur William Barsi	San Francisco
Robert Gene Baylor	San Francisco
Clayton Alfred Berg	San Diego
Howard Stanley Berg	Walnut Creek
Charles Wesley Bishop	San Francisco
Norman Bowen	San Francisco
Thomas Archer Bowles	San Francisco
David Melvin Bradley	Hayward
Wendell Louis Broderick	Redding
Leland H Brown	Walnut Creek
Robert Reed Brownlee	Yuba City
Richard Nestor Byrnes	San Francisco
Betty Ann Campbell	Oakland
James Edwin Carlisle	Auburn
Emma Yolanda Cassetto	Oakland
C B Childers	Berkeley
David Hull Coolbaugh	Berkeley

Richard Frederick Cooper	Sacramento
Donald Frederick Dorward	Piedmont
George Frederick Emanuels, III	Concord
Robert Francis Falge	Piedmont
Albert Fong	Sacramento
Margaret Garcia	Willows
Thomas Joseph Garvey, Jr.	Oakland
Warren Douglas Geldert	Berkeley
Michael Sharp Giberson	Burlingame
Mitchell Ray Glenn	Richmond
David Charles Goodwin	San Francisco
Joseph Gordillo, Jr.	San Leandro
Ben Ames Grammar	Phoenix, Arizona
Walter Samuel Hale, Jr.	Albany
Dale Robert Hall	San Diego
Janice Mary Hanson	Oakland
Phyllis Joy Harris	Vallejo
Robert Lloyd Hein	Oakland
Robert Wallis Hill	Willows
Alan Grant Hughes	Lafayette
David Hy Kelly	Waukegan, Illinois
Henry Michael Kent	San Francisco
Denis Lee Kim	Los Angeles
James Shao-Ping Lee	Hong Kong, China
Richard Dennis Leitner	Los Angeles
George Rucker McCurry, Jr.	Ceres
Robert Lee McHenry	San Francisco
Aliceon Kent McInroe	Eureka
Hugh John Maguire	Los Angeles
Jack Walter Martin, Jr.	Stockton
Kenneth Alan Miller	Albany
David Harry Moulton	Altadena
Maurice Soly Moyal	White Plains, New York
Kimiaki Nakano	San Francisco
Bernard William Nebenzahl	San Francisco
Thomas Kenichiro Nomura	Oakland
Lorimer Reuben Olson	Oakland
William Frederick Park	Riverside
Richard Forsell Pawson	Albany
Richard Lee Payne	Vallejo
William Herbert Pence	Costa Mesa
Richard Elden Peters	Exeter
Ole Anker Pettersen	Oakland
Ronald Arthur Plomgren	Alameda
Ronald Curtis Plough	Palo Alto
Robert Dearborn Pope	Honolulu, Territory of Hawaii
Donal Lloyd Praeger	San Francisco
Leland Elbert Pritchard, Jr.	Oakland
Donald Edward Pryde	Albany
Ralph Bruce Ricks	Oakland
Donald Paul Rodgers	Oakland
Philip Nathaniel Ryan	Burlingame
Camilo Alfonso Salgar	Bogotá, Colombia
Delano Schroeder	Dinuba
Karl Martel Schroeder, Jr.	Burlingame
Betty Herman Schumacher	Oakland
Allan On Shak	Kapaa, Territory of Hawaii
John Ming Shum	Berkeley
Marjorie Anne Simpson	Oakland
*Douglas Lyman Smith	Chicago, Illinois
Nancy Eleanor Sutliff	Sunnyside
Andrew Louis Tobia	Sacramento
Robert Randolph Walker	San Francisco

* As of September 10, 1955.

John Robert Ward, Jr.	Berkeley
Dean John Weibel	Colma
Lewis Frank Williams	Richmond
Dale Richard Wilson (A.B. San Jose State College 1950).....	Hanford
Robert Dean Winkenbach	Orinda
Anna Wong	Canton, China
Lewis Irvin Wood	Richmond
William Warren Woodworth	Los Angeles
Dale Melford Aldeous Zerda	Berkeley

SCHOOL OF CRIMINOLOGY

The Degree of Bachelor of Science upon

Paul McCord Dougherty	Ojai
Ronald Albert Ricco	Butte, Montana

The Degree of Bachelor of Arts upon

Thomas Edmond Bolger	Oakland
Gerald Ira Brooks	Hilt
John Edwin Ford	Pittsburg
Ronald Keith Harris	Berkeley
George Howard Holt	Sacramento
Ruth Duvander Karimi	Lafayette
Calvin James Larson	Alameda
Aarre Anselm Maenpaa	Miami, Florida
Nancy Tuster Mannon	Oakland
Richard John Milicevich, Jr.	Jackson
Neil Patrick Miller	Richmond
Roland Curt Pahner	Walnut Creek
Michael James Phelan	Los Angeles
Ronald Dean Smith	Inglewood
Joan Thompson	San Francisco
Haruichi Uchida	Puunene, Territory of Hawaii
Allan Scott Watts, Jr.	Hayward

SCHOOL OF FORESTRY

The Degree of Bachelor of Science upon

Woodbury Lee Bunnell, Jr.	Los Angeles
James Edward Cox	Oakland
Phillip Grover Lowell	San Lorenzo

SCHOOL OF NURSING

CURRICULUM FOR UNDERGRADUATE STUDENTS IN NURSING

The Degree of Bachelor of Science upon

Marjorie Ann Achterberg	Visalia
Alvina Oliver Baranco	Vallejo
Linda Anne Beaty	Bakersfield
Marilyn Joan Berkla	San Carlos
Patricia Louise Callison	San Jose
Barbara Marie Ciemny	Los Angeles
Geraldine Dere	San Francisco
Carol Marzluft Dutra	Berkeley
JoAnn Louise Emery	San Francisco
Sorrell Etkin	Los Angeles
Joyce Winifred Ferguson	San Francisco
Carol Joyce Gin	Oakland
Wilma Jean Hansen	Patterson
Kay Denise Helman	Manteca

Roberta Claire Herman	Woodland
Beverly Gayle Hettich	Big Sur
Marjorie Mable Hofer	Dinuba
Carol Ramona Larsen	San Francisco
Renata Margaret Leeman	Oakland
Mary Ann Lichti	Fresno
Evelyn Jean Lowry	Redding
LaVonne Weisenberger Lynch	El Cerrito
Joan Beverly Murray	Fresno
Carol Olsen O'Reilly	Los Gatos
Mary Maren Parker	Morenci, Arizona
Stephanie Sue Pearl	San Francisco
Constance Vivian Pomeroy	San Francisco
Dorothy Hardie Regan	San Francisco
Lorraine Carlyon Ritchlin	Oakley
Millicent Manwaring Rodman	Santa Cruz
Etsuko Sakuma	Los Angeles
Pauline Hatsue Sakuma	San Francisco
Grace Sachiye Sato	Los Angeles
Keiko Shimane	Gardena
Rae Ellen Smith	Hayward
Dora Lou Moore Stice	Los Gatos
Gladys Kiyoko Takenouchi	Pasadena
Joneen Tettemer	Beverly Hills
Hatsue Watanabe	Kahuku, Territory of Hawaii
Marilyn Elaine Williams	Oakland
Annie Liu Worth (A.B. San Francisco State College 1953)	San Francisco
Kaoru Yokogawa	San Francisco
Lorraine Karlotski Young	Castro Valley

CURRICULUM FOR GRADUATE NURSES

The Degree of Bachelor of Science upon

Anita Beverly Chusid	New York, New York
Margaret Irene Cope	Sacramento
Elinor Damon Dorries (A.B. San Francisco State College 1951)	Oakland
Joyce Ione Hansen	Ventura
Dorothy Kleinfeld	Santa Monica
Esther Elizabeth Kuehn	Mansfield, South Dakota
Thelma Ruth Main	San Francisco
Norma Marie Martinetti	Pittsburg
Lettie Johneva Thomas	Los Angeles
Deborah Sadie Titus	Los Angeles
Marcia Marcella Van Lane	La Mesa

SCHOOL OF OPTOMETRY

The Degree of Bachelor of Science upon

Galen Stanley Grant	Visalia
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SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

Brian Alexander Dobrow	El Monte
Calvin Fung	Oakland
William Lawrence Grossi	Vallejo
Ann Sylvia Jensen	Burlingame
David Neil McNeill	San Francisco
Elga Martinson	Merced
Robert Warren Murch	San Francisco
Anne Hart Smith	Cardiff-by-the-Sea
Michiko Tashiro	San Francisco

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Stavros Efthemios Booras	San Francisco
David Kirkham Brown	Lafayette
Marie Elisabeth Croly	Berkeley
Ruth Ann Day	Oakland
Esther Lydia Frasch	Lodi
Joseph Ellis Frentzen	Arbuckle
Ronald Hayse Goodwin	Topeka, Kansas
Lory Keith Hellstrom	Redwood City
Lester Howard Henriksen	Eugene, Oregon
Lois Scott Hoskins	Sunnyside, Washington
Jacob Lalo	Tel Aviv, Israel
James Rothney Lugg	Sacramento
Warren Irving McCord	Hayward
Kenneth Adolph Pedersen	Oakland
Marcia Jane Sigler (A.B. Ohio Wesleyan University 1944)	Boise, Idaho
Ricardo Alberto Soto-Rivera	New York, New York
Johnson Chee Sue	Oakland
Mary Helen Townsend	Bakersfield
Gene Susumu Uematsu	Santa Monica
John William White	Bakersfield
Bernhardt Wohlgermuth, Jr.	Oakland

COLLEGE OF ARCHITECTURE

The Degree of Bachelor of Arts upon

Bruce Wendell Beebe	San Diego
Edward James Bennett	Oakland
Eddie Tze Yin Chiu	Hong Kong, China
George Charles Cocallas	Long Beach
Georgina Tam Wu Cocallas	Lima, Peru
Manuel Jesus Corao	Caracas, Venezuela
Paul Leonard Dachauer	San Francisco
Peter Hampton Dodge	Temple City
John Emmett Gerrity, Jr. (A.B. 1951)	Berkeley
Gordon Charles Gervin	Sacramento
William Roy Hull	Lennox
Wallace Dung Jeong	Hernando, Mississippi
Sue Moon Jew	Merced
Donald Takashi Kasamoto	Hilo, Territory of Hawaii
Bennie Everett Kinikin, Jr.	South Gate
Frank Richard Krueger	Hollywood
Bruce Clinton Lane (B.S. Iowa State College 1949)	Cedar Rapids, Iowa
Neal Howard Lawson	Dillon Beach
Robert Finke Mason	Sacramento
Hernán Molina	Buenos Aires, Argentina
Sho Nakata	Kingsburg
Hisham Zaki Nuseibeh	Jerusalem, Palestine
William Franklin Remular	Honolulu, Territory of Hawaii
Hans Heinrich Riecke	Hamburg, Germany
Frederick John Schlaepfer	Kreuzlingen, Switzerland
Robert Emanuel Sereda	San Leandro
Arthur Lee Simpson	Fort Bragg
William Eugene Simpson	Porterville
Conrad Harold Stieber	Santa Cruz
William Eiichi Tsukamoto	Los Angeles
Leonard Mendel Veitzer	San Diego
Howard Bloom Weber	Los Angeles
John Gilbert Wells	Sacramento
Tar Kuay Whang	Singapore, Malay States

Gilbert Collins Wheat, Jr.	Kentfield
Alan Robert Williams	Pasadena
Robert Emil Wood	Taft

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

Thomas Soulé Blake (B.S. 1955) ..	Chemical Engineering	Oakland
William Albert Daniels	Chemical Engineering	Oakland
Joseph Irving De Graw, Jr.	Basic Chemistry	San Lorenzo
Josephine Dollie Farina	Basic Chemistry	San Francisco
John Neil Graham, Jr.	Chemical Engineering	Long Beach
Joseph Marvin Greendorfer	Basic Chemistry	San Francisco
Therese Huang	Basic Chemistry	Oakland
Masami Kayamoto (A.B. University of California, Los Angeles 1954)	Basic Chemistry	Los Angeles
Alexis I Kaznoff	Chemical Engineering	San Francisco
Clarke Harold Lewis, Jr.	Chemical Engineering	Coronado
Jerry Lee Lewis	Chemical Engineering	Ojai
Robert Eugene Meredith	Basic Chemistry	Memphis, Texas
Charles Allan Minne	Chemical Engineering	Oakland
John Richard Phillips	Chemical Engineering	Berkeley
Robert Farnsworth Sharp	Basic Chemistry	San Francisco
Ronald John Terranova	Basic Chemistry	San Francisco
Ronald Roger Tinay	Basic Chemistry	Lafayette
Leslie James Van Nice	Chemical Engineering	Santa Ana
Nobel Wakabayashi	Basic Chemistry	San Francisco
Chin Yuan	Basic Chemistry	San Francisco

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

Dhia Abdul-Razzak Al-Dabbagh ...	Industrial Engineering	Baghdad, Iraq
Nassir M H Ali	Civil Engineering	Basra, Iraq
William Allen Ames	Civil Engineering	Lafayette
John Bruce Anderson	Industrial Engineering	Santa Ana
Leland Graham Anderson	Mechanical Engineering	Santa Cruz
Robert James Anderson	Civil Engineering	Oakland
Lorenzo Azpurua	Civil Engineering	Caracas, Venezuela
Jerald Elliott Backstrand	Civil Engineering	Salem, Oregon
John Rogers Baird	Civil Engineering	San Diego
Gerald Lee Baker	Civil Engineering	Inglewood
Roy Thorne Beck	Electrical Engineering	Ukiah
Sheldon Alphius Bowers, III	Civil Engineering	Sacramento
Lawrence Edward Boyd	Engineering Physics	Richmond
Charles Ray Bras	Civil Engineering	Fresno
Cesar Edmund Cavanna	Mechanical Engineering	Modesto
Robert Su Chuck	Industrial Engineering	Menlo Park
Gerald Claude Cox	Civil Engineering	Torrance
David Edward Creek	Metallurgy	River Forest, Illinois
Robert D Cunningham	Electrical Engineering	Salinas
Thomas G Diel	Industrial Engineering	Fresno
Hans Welter Doelman	Mechanical Engineering	Carmel
Alfred Lewis Donlevy	Metallurgy	San Leandro
David Owen Dunn	Engineering Physics	Long Beach
John Jewett Earle, Jr. (A.B. 1951)	Civil Engineering	Piedmont
Thomas David Edwards	Civil Engineering	Chico
Cleo L Gephart (A.B. 1952)	Electrical Engineering	Vallejo
John Whitfield Gerhart	Mechanical Engineering	San Marino
Mohammad Shuaib Ghausi	Electrical Engineering	Kabul, Afghanistan
Dorian Ginzburg	Electrical Engineering	Tel-Aviv, Israel
Claude Neil Gorevin	Electrical Engineering	San Francisco
Daryl Leslee Gray	Metallurgy	Stockton

George Willoughby Guppy	Civil Engineering	Lafayette
Thomas Henry Hackley	Electrical Engineering	Kernville
Takuzo Handa (A.B. 1952)	Electrical Engineering	San Francisco
Richard Kenneth Hansen (B.A.S. 1954)	Civil Engineering	Reedley
Jacob William Holderman	Civil Engineering	Palm Springs
Tholbert Milton Honea, Jr.	Industrial Engineering	Pittsburg
Randolph Hong	Civil Engineering	San Francisco
Richard Alfred Hosegood	Civil Engineering	San Bernardino
Douglas Andrew Howden	Mechanical Engineering	Oakland
John Paculan Irwin	Civil Engineering	San Francisco
Wylie Adams Jones	Civil Engineering	San Francisco
James Odell Kelley	Electrical Engineering	Alameda
Warren Joseph Kerzon	Engineering Physics	Millbrae
Bob Kazuo Kimura	Electrical Engineering	Richmond
Ming Dai Koo	Mechanical Engineering	San Francisco
Earl Cletus Krueger	Electrical Engineering	Sacramento
Percy David Lea	Electrical Engineering	Stockton
Fred Lee	Electrical Engineering	Los Angeles
James MarcAlan Leland	Industrial Engineering	Oakland
Jack Lester Lytton	Mechanical Engineering	Riverside
Donald Eugene McClure	Electrical Engineering	Watsonville
Wayne Oliver MacDonell	Civil Engineering	Berkeley
David Marshall	Industrial Engineering	San Francisco
Ezra Abraham Meyer	Civil Engineering	Bombay, India
Albert Mizuhara	Electrical Engineering	San Francisco
Eugene Denzil Murray	Electrical Engineering	Oakland
Kiyoshi George Nakagawa	Civil Engineering	Richmond
Isamu Sam Nao	Civil Engineering	San Francisco
Donald Arthur Nefzger	Civil Engineering	Petaluma
Parviz Noori-Alizadeh	Industrial Engineering	San Francisco
Morad Noorilynejad	Electrical Engineering	Teheran, Iran
Caesar Nuti	Electrical Engineering	Richmond
Donald Eugene Owen	Civil Engineering	Red Bluff
Higino Gomes Paula (Licence, University of Lisbon 1947)	Electrical Engineering	Setubal, Portugal
Gerald Pesavento	Electrical Engineering	Sacramento
John Frederick Petersen	Mechanical Engineering	Menlo Park
Donald Edward Peterson	Civil Engineering	Compton
Philippos Constantinou Philippou	Civil Engineering	Nicosia, Cyprus
Lew Allan Raney	Electrical Engineering	Whittier
Richard Griffith Reese, Jr.	Mechanical Engineering	Bakersfield
Leonard Marvin Rodney	Civil Engineering	San Francisco
Robert Allan Rogers	Civil Engineering	Los Angeles
Arthur Elliott Schlaifer	Civil Engineering	Los Angeles
Donald James Shields	Electrical Engineering	Oakland
Stewart Hiabock Shon	Civil Engineering	Los Angeles
Vernon Hastings Sullivan	Civil Engineering	Oakland
Burton Charles Swenson	Civil Engineering	Berkeley
Harold Randall Tally	Electrical Engineering	Santa Rosa
Robert Lamare Taunton	Electrical Engineering	San Bernardino
John William Thielen	Electrical Engineering	Santa Cruz
Gerald Raymond Thiers	Civil Engineering	Woodland
Edward Willis Timmons, Jr.	Civil Engineering	Crockett
DeWitt Clay Tufts	Civil Engineering	Spokane, Washington
James Roy Ward	Electrical Engineering	Camarillo
Donald Rankine Wells	Engineering Physics	Long Beach

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Arlene Nancy Allen
Robert Baird Armeson
Joseph Carnegie Avakoff

Michael Jay Azevedo
Michael William Basten
Walter Bauer

Gilbert Collins Wheat, Jr.	Kentfield
Alan Robert Williams	Pasadena
Robert Emil Wood	Taft

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

Thomas Soulé Blake (B.S. 1955) ..	Chemical Engineering	Oakland
William Albert Daniels	Chemical Engineering	Oakland
Joseph Irving De Graw, Jr.	Basic Chemistry	San Lorenzo
Josephine Dollie Farina	Basic Chemistry	San Francisco
John Neil Graham, Jr.	Chemical Engineering	Long Beach
Joseph Marvin Greendorfer	Basic Chemistry	San Francisco
Therese Huang	Basic Chemistry	Oakland
Masami Kayamoto (A.B. University of California, Los Angeles 1954)	Basic Chemistry	Los Angeles
Alexis I Kaznoff	Chemical Engineering	San Francisco
Clarke Harold Lewis, Jr.	Chemical Engineering	Coronado
Jerry Lee Lewis	Chemical Engineering	Ojai
Robert Eugene Meredith	Basic Chemistry	Memphis, Texas
Charles Allan Minne	Chemical Engineering	Oakland
John Richard Phillips	Chemical Engineering	Berkeley
Robert Farnsworth Sharp	Basic Chemistry	San Francisco
Ronald John Terranova	Basic Chemistry	San Francisco
Ronald Roger Tinay	Basic Chemistry	Lafayette
Leslie James Van Nice	Chemical Engineering	Santa Ana
Nobel Wakabayashi	Basic Chemistry	San Francisco
Chin Yuan	Basic Chemistry	San Francisco

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

Dhia Abdul-Razzak Al-Dabbagh ...	Industrial Engineering	Baghdad, Iraq
Nassir M H Ali	Civil Engineering	Basra, Iraq
William Allen Ames	Civil Engineering	Lafayette
John Bruce Anderson	Industrial Engineering	Santa Ana
Leland Graham Anderson	Mechanical Engineering	Santa Cruz
Robert James Anderson	Civil Engineering	Oakland
Lorenzo Azpurua	Civil Engineering	Caracas, Venezuela
Jerald Elliott Backstrand	Civil Engineering	Salem, Oregon
John Rogers Baird	Civil Engineering	San Diego
Gerald Lee Baker	Civil Engineering	Inglewood
Roy Thorne Beck	Electrical Engineering	Ukiah
Sheldon Alphius Bowers, III	Civil Engineering	Sacramento
Lawrence Edward Boyd	Engineering Physics	Richmond
Charles Ray Bras	Civil Engineering	Fresno
Cesar Edmund Cavanna	Mechanical Engineering	Modesto
Robert Su Chuck	Industrial Engineering	Menlo Park
Gerald Claude Cox	Civil Engineering	Torrance
David Edward Creek	Metallurgy	River Forest, Illinois
Robert D Cunningham	Electrical Engineering	Salinas
Thomas G Diel	Industrial Engineering	Fresno
Hans Welter Doelman	Mechanical Engineering	Carmel
Alfred Lewis Donlevy	Metallurgy	San Leandro
David Owen Dunn	Engineering Physics	Long Beach
John Jewett Earle, Jr. (A.B. 1951)	Civil Engineering	Piedmont
Thomas David Edwards	Civil Engineering	Chico
Cleo L Gephart (A.B. 1952)	Electrical Engineering	Vallejo
John Whitfield Gerhart	Mechanical Engineering	San Marino
Mohammad Shuaib Ghausi	Electrical Engineering	Kabul, Afghanistan
Dorian Ginzburg	Electrical Engineering	Tel-Aviv, Israel
Claude Neil Gorevin	Electrical Engineering	San Francisco
Daryl Leslee Gray	Metallurgy	Stockton

George Willoughby Guppy	Civil Engineering	Lafayette
Thomas Henry Hackley	Electrical Engineering	Kernville
Takuzo Handa (A.B. 1952)	Electrical Engineering	San Francisco
Richard Kenneth Hansen (B.A.S. 1954)	Civil Engineering	Reedley
Jacob William Holderman	Civil Engineering	Palm Springs
Tholbert Milton Honea, Jr.	Industrial Engineering	Pittsburg
Randolph Hong	Civil Engineering	San Francisco
Richard Alfred Hosegood	Civil Engineering	San Bernardino
Douglas Andrew Howden	Mechanical Engineering	Oakland
John Paculan Irwin	Civil Engineering	San Francisco
Wylie Adams Jones	Civil Engineering	San Francisco
James Odell Kelley	Electrical Engineering	Alameda
Warren Joseph Kerzon	Engineering Physics	Millbrae
Bob Kazuo Kimura	Electrical Engineering	Richmond
Ming Dai Koo	Mechanical Engineering	San Francisco
Earl Cletus Krueger	Electrical Engineering	Sacramento
Percy David Lea	Electrical Engineering	Stockton
Fred Lee	Electrical Engineering	Los Angeles
James MarcAlan Leland	Industrial Engineering	Oakland
Jack Lester Lytton	Mechanical Engineering	Riverside
Donald Eugene McClure	Electrical Engineering	Watsonville
Wayne Oliver MacDonell	Civil Engineering	Berkeley
David Marshall	Industrial Engineering	San Francisco
Ezra Abraham Meyer	Civil Engineering	Bombay, India
Albert Mizuhara	Electrical Engineering	San Francisco
Eugene Denzil Murray	Electrical Engineering	Oakland
Kiyoshi George Nakagawa	Civil Engineering	Richmond
Isamu Sam Nao	Civil Engineering	San Francisco
Donald Arthur Nefzger	Civil Engineering	Petaluma
Parviz Noori-Alizadeh	Industrial Engineering	San Francisco
Morad Nooriylnejad	Electrical Engineering	Teheran, Iran
Caesar Nuti	Electrical Engineering	Richmond
Donald Eugene Owen	Civil Engineering	Red Bluff
Higino Gomes Paula (Licence, University of Lisbon 1947)	Electrical Engineering	Setubal, Portugal
Gerald Pesavento	Electrical Engineering	Sacramento
John Frederick Petersen	Mechanical Engineering	Menlo Park
Donald Edward Peterson	Civil Engineering	Compton
Philippos Constantinou Philippou	Civil Engineering	Nicosia, Cyprus
Lew Allan Raney	Mechanical Engineering	Whittier
Richard Griffith Reese, Jr.	Mechanical Engineering	Bakersfield
Leonard Marvin Rodney	Civil Engineering	San Francisco
Robert Allan Rogers	Civil Engineering	Los Angeles
Arthur Elliott Schlaifer	Civil Engineering	Los Angeles
Donald James Shields	Electrical Engineering	Oakland
Stewart Hiabock Shon	Civil Engineering	Los Angeles
Vernon Hastings Sullivan	Civil Engineering	Oakland
Burton Charles Swenson	Civil Engineering	Berkeley
Harold Randall Tally	Electrical Engineering	Santa Rosa
Robert Lamare Taunton	Electrical Engineering	San Bernardino
John William Thielon	Electrical Engineering	Santa Cruz
Gerald Raymond Thiers	Civil Engineering	Woodland
Edward Willis Timmons, Jr.	Civil Engineering	Crockett
DeWitt Clay Tufts	Civil Engineering	Spokane, Washington
James Roy Ward	Electrical Engineering	Camarillo
Donald Rankine Wells	Engineering Physics	Long Beach

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Arlene Nancy Allen
Robert Baird Armeson
Joseph Carnegie Avakoff

Michael Jay Azevedo
Michael William Basten
Walter Bauer

Barbara Ann Baxter
 Bruce Walter Belding
 *Helen Constance Berejkoff
 Katherine McCulloch Bird
 James Charles Boudreau
 Nathaniel Erving Brasill
 Peter Dorris Brewer
 Donna Lindley Briney
 Davel Rolando Brodesky
 William Barry Brodovsky
 Sandra Lynne Brose
 Adelaide Dean Brusie
 Virginia Chan
 Choy Jack Chung
 Gerard Howard Clarfield
 Malcolm Stanley Cole
 Jean Clennell Cooke
 Alexander Clayton Crosby
 Elaine Ann Darby
 Gail Christine Davis
 Kenneth Melville Davis
 Anthony Eugene Desmond
 William Ryder Dunn, Jr.
 Marvin Barron Ellenberg
 Arthur Asao Endo
 Joan Claire Erbentraut
 John Philip Flambard
 Barbara Ellen Fletcher
 Myrtle Ann Franklin
 Cecile Irene Friedman
 Raymond Attilio Galliani
 Mary Jane Godward Garbarino
 Hayman Gong
 Sanford Haber
 Carol Ayami Hagihara
 Madeline Neva Hambric
 Allan Armand Hitchcock
 Hilda Holtz
 Earl Hsu
 Sarah Jones Hussey
 Cynthia Hyde
 Orra Crosby Hyde, III
 Sharon Lynn Hyslope
 Sumiko Suzan Ikeda
 Henry Jacobson
 Sharon Marie Jensen
 Barbara Jean Jeskalian
 Susan Carol Johanson
 Nina Johnson
 Mary Jung
 Elizabeth Sinclair Juul
 Shiela Jean Karman
 Momoko Miriam Kawahara
 Bruce André Keppel
 Sherry Margaret Klobas
 Inta Kumins
 Erda Lois Labuhn
 Joseph Lanza
 Hoover Lee
 Joyce Lucille LeFebvre
 John Richard Light
 Elizabeth Meade McGill
 Nancy Donna MacKenzie

David Bruce McPhee
 Janice Eleanor Marple
 Norma Jean Meador
 Ronald Tad Melbin
 Peter Wallace Merner
 Leslie William Michael
 Thelma Monzón
 Michael Isnardi Mote
 Leah Curran Moulton
 Robert D Roy Mullikin
 Richard Carl Munter
 Harold Jack Neu
 John Edward Nie
 Lynne Norman
 Robert Emmett O'Donnell
 James Paul Ong
 Mary Marie Parker
 Edithie Ventura Peal
 Louis Emilio Pelfini
 Cosette Elaine Platz
 Carle Amon Privette
 Kathleen Sharon Randall
 Marion Yost Ray
 Ellen Fish Reagan
 Thomas Francis Reilly
 Kenneth Ring
 Judith Ann Rosenblatt
 Thomas Alexander Russell
 Margery Holburne Saunders
 Stephen Henry Schadlich
 Dolores Naomi Schectman
 Paul Frederick Schmidt
 Alfred Joseph Schwarz, Jr.
 John W Schwerin
 Jere Lu Amalia Scott
 William Martin Sherlock
 John Janis Skujins
 Faustina Soe
 Robert Terry Solton
 Erika Sonnenschein
 Susan Ann Spongberg
 Laurance Abraham Steinhart
 Frank Roller Stoll, Jr.
 Helen Esther Stone
 Nancy Lee Straszer
 Sandra Jean Striker
 Douglas Hillman Strong
 Elizabeth Stewart Sutton
 Dolph Thomas Urban
 Carol von Metnitz
 Gustave Victor Wagenhoffer
 Dennis Richard Watt
 Robert Wingate Weck
 Ardith Beth Weiman
 June Paula Weiner
 Angus Joseph Whyte
 Lee Warren Wilson
 Juanita Nelson Worthington
 Cyrilla Susan Wright
 Beatrice Iona Yoder
 Donna Lois Young
 Christine Yao-hua Yuan

* As of July 30, 1955.

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Arts upon

Ronald Mervyn Abend.....	English	San Francisco
Margaret May Acord.....	Child Development	Susanville
Akbar Ahmadzadeh.....	Physics	Isfahan, Iran
David Charles Alciati.....	Preventive Criminology	San Francisco
Marlene Dee Anderson.....	General Curriculum	Oakland
Bernard Marcus Angel.....	Political Science	Los Angeles
Therese France Arcand (A.B. 1954)	Psychology	San Francisco
Folger Athearn, Jr.....	Economics	Lima, Peru
Mary Charlotte Aulwurm.....	Physical Education	Berkeley
Donald William Badger (B.S. Ore- gon State College 1950).....	Physiology	Portland, Oregon
William Coulter Bailey.....	General Curriculum	San Diego
Barbara Jean Baker.....	General Curriculum	Redding
Peter Charles Baker.....	Zoology	San Francisco
Diana Ellen Barber.....	General Curriculum	Sacramento
Wesley Lawton Barker, Jr.....	General Curriculum	San Anselmo
Richard Barnes	Bacteriology	San Francisco
Sarah Ellen Barry.....	General Curriculum	Berkeley
Marilyn Lea Barth.....	Political Science	Duluth, Minnesota
Peter Pierce Beaver.....	International Relations.....	San Francisco
Daniel Vladimir Begovich.....	General Curriculum	San Francisco
Joan Tarabori Beier.....	Psychology	Oakland
Idele Dorathy Bercovich.....	English	Oakland
Richard Warren Bierce.....	Physics	Jackson
Anthony Harcourt Biggs.....	Speech	Walnut Creek
Roy Vincent Bogas.....	Music	San Francisco
Elizabeth Skillen Bogen.....	History	Olive View
Susan Lum Bothwell.....	General Curriculum	Alameda
Earl Jerome Bowling, Jr.....	Geological Sciences	Oakland
Virginia Lee Boyd.....	English	Bakersfield
Merton Holbrook Brandt.....	General Curriculum	Fairfield
Pauline Elizabeth Brantley.....	English	Berkeley
Howard Charles Brashers.....	Creative Writing	Maxwell
Kathryn Lee Breslauer.....	General Curriculum	San Francisco
Joan Marie Brichetto.....	General Curriculum	Stockton
Richard Bridgman	English	Toledo, Ohio
Evelyn Ann Brokenshire.....	Psychology	San Jose
Gilbert Brooks	General Curriculum	Hayward
Donald Grant Brown.....	General Curriculum	Corte Madera
Marlene Hight Brown.....	General Curriculum	Loleta
Elizabeth Atwater Bryant.....	General Curriculum	Hanford
Vincent Francis Campodonico, Jr.	General Curriculum	Lodi
James Nelson Castle.....	Physiology	Quincy, Massachusetts
Hubert Carlton Cavanagh.....	Political Science	Garden Grove
Allen Kenneth Charnow	Mathematics	New York, New York
Paul Raymond Chastain, Jr.....	Economics	Olivehurst
Marcia Ann Chavin.....	General Curriculum	Hollywood
Howard Cheung	General Curriculum	Walnut Grove
Lynne Betz Chytil.....	Art	Concord
Carroll Gene Clark.....	Journalism	Modesto
Nancy Meagher Clark.....	English	Berkeley
Burton Daniel Combs.....	Zoology	Richmond
Richard Martin Congdon.....	Political Science	Redding
Alberto Aurelio Consiglieri.....	Zoology	Lima, Peru
Alan Hall Coogan.....	Paleontology	San Francisco
Thomas Manning Cook.....	Political Science	Oakland
Carol Adele Copeland.....	General Curriculum	Red Bluff
Shirley Jean Cornelius.....	Sociology and Social Institutions.....	Vallejo
Tona Cornette	Art	Belvedere
Stanley Cotter	Music	Taos, New Mexico
Jann O'Neil Craddick.....	Speech	Berkeley

Marrs Allen Craddick.....	General Curriculum	Alturas
James Leonard Crew.....	General Curriculum	Oakland
Connaught Marie Cutler.....	Communication and Public Policy, Sociology and Social Institutions....	Berkeley
Bernard Elie Della Santina.....	English	Santa Rosa
Uldine Marion De Witz.....	General Curriculum	Antioch
Steve James Dimeff.....	Physics	San Jose
John Edward Dineen.....	English	Berkeley
Thomas Homer Doctor.....	General Curriculum	Oakland
George Iskandar Doumani.....	Geological Sciences	Beirut, Lebanon
Barbara Dudziak	General Curriculum	Alhambra
Dorette Claire Dufour.....	English	Oakland
John Norvell Dyer.....	Physics	Virginia Beach, Virginia
Helen Louise Eddy.....	General Curriculum	Oakland
David Irvin Edwards, Jr.....	English	San Francisco
Harry Eliopoulos	Sociology and Social Institutions.	San Francisco
Albert Edward Ellison, Jr.....	Anthropology	San Leandro
Richard Dean Estes.....	Paleontology	San Rafael
Lawrence Olen Fagan, Jr.....	English	Santa Rosa
Irene Toby Feinstein.....	Psychology	Los Angeles
Ben Edward Fernandez.....	English	Emeryville
Ellen Ly Finkel.....	German	Berkeley
Beverly Ann Fitch.....	Physical Education	North Hollywood
Sally Lee Flinn.....	General Curriculum	San Francisco
Benjamin Fong	General Curriculum	Oakland
Robert James Force (B.S. 1949) ..	Mathematics	Salinas
Gerard Frederik Franken.....	Philosophy.....	Amsterdam, The Netherlands
Jamesine Ellen Friend.....	Sculpture	Berkeley
Thomas Allen Fuller.....	Journalism	Columbus, Ohio
Robert Predrag Gakovich.....	Regional Group Major on Russia and Eastern Europe	San Francisco
Phyllis Lorraine Galbraith.....	General Curriculum	Albany
Bruce Douglas Garland.....	General Curriculum	Berkeley
Nari Phiroshaw Gazdar.....	Political Science	Berkeley
David Gee.....	General Curriculum	San Bernardino
Donald Joseph Gehb	General Curriculum	Albany
John Daniel George.....	General Curriculum	Los Angeles
Carolyn Sabin Geyman.....	General Curriculum	Santa Barbara
George Albion Gibbs.....	General Curriculum	San Marino
Norman Golds	Political Science	Los Angeles
Alfonso Zuniga Gonzales.....	Regional Group Major on Hispanic America	Sacramento
Robert John Gorgen.....	General Curriculum	Whittier
Anne Grafft	Political Science	Sanger
Phyllis Carroll Grandey.....	Psychology	Aliquippa, Pennsylvania
Barbara Lou Green	Psychology	San Francisco
Fred Joseph Grgich.....	Sociology and Social Institutions....	San Pedro
Joel Edward Grose.....	Physical Education	Vallejo
Adrienne Gruber	Social Welfare	Los Angeles
Richard José Gutierrez.....	Political Science	Palo Alto
Alan Roy Haight.....	Geophysics	San Leandro
Betty Jane Halliday	Zoology	San Francisco
Alice Vera Hoyt Hallman.....	History	Oakland
Gordon Todd Harker.....	English	La Crescenta
Ann Thérèse Harper.....	History	San Francisco
Justin Giichi Haruyama.....	Education	Oakland
Carolyn Deitch Haselkorn.....	General Curriculum	Los Angeles
Ida Yoshiko Hayashi.....	General Curriculum	Berkeley
John MacRae Hayden.....	General Curriculum	Concord
Barbara Smith Hayward.....	Decorative Art	Orinda
Norma Jo Markes Hemphill.....	General Curriculum	Portland, Oregon
Thelton Eugene Henderson.....	Political Science	Los Angeles
Merritt Lewis Herring.....	Geological Sciences	El Cerrito
Anne Schneider Hewel.....	General Curriculum	Santa Rosa
Allen Edward Hill	History	Riverside

Harold Wayne Hobbs, Jr. (B.S. 1951)	English	Takoma Park, Maryland
Margery Hyde Hoffelt	General Curriculum	Sacramento
Kathryn Ann Holliger	General Curriculum	Stockton
Jeanne Erma Hoppe	General Curriculum	Santa Cruz
Maurine Morrison Hotchkis	General Curriculum	Piedmont
Clifford Eric Hubach	General Curriculum	Walnut Creek
Ann Huberty	General Curriculum	Los Angeles
Daniel Bernard Hunt	Economics	Modesto
John Byers Hutchins	Physics	Sausalito
Kathleen Hutchinson	General Curriculum	Berkeley
Herschel Henry Hyde	Geological Sciences	Berkeley
Vivian June Irvine	General Curriculum	Berkeley
Irene Xenia Ivanoff	Slavic Languages and Literatures	San Francisco
Martha Ann Ives	General Curriculum	San Francisco
Roy Kazuo Iwaki	Political Science	San Francisco
Stephen Seward Jacobs	General Curriculum	Pasadena
Nancy Sue Jacoby	Art	Highland Park, Illinois
Anne Howard Jarvis	General Curriculum	Sacramento
Sandra Joffe	Social Welfare	San Francisco
Sandra Louise Johnson	Economics	San Diego
Mary Catherine Johnstone	Social Welfare	San Diego
Raymond Richard Jones	General Curriculum	San Francisco
Janice Carole Kaelin	General Curriculum	Santa Rosa
Barbara Zmaeff Karler	French	Monterey
Walter Marcus Kaufman	Sociology and Social Institutions	Berkeley
William Merrill Keese, Jr.	Mathematics	San Francisco
Marilyn June Keremitsis	Art	Alameda
Elaine Claire Klang	Social Welfare	San Francisco
Theodore Leonard Kloski	Art	Vallejo
Donna Glenne Knight	Psychology	Richmond
Diane Lee Knudson	Economics	Salt Lake City, Utah
Theodore Kowalski	General Curriculum	Toledo, Ohio
Riyo Kunisawa	Bacteriology	San Francisco
James Robert Lackey	Economics	Riverside
Edward Jay Lackner (A.B. 1952) ..	Bacteriology	San Jose
Richard Conley LaForce	Physics	Downey
Hagit Lalo	Art	Tel-Aviv, Israel
Herbert Richard Lawson	Philosophy	Altaville
Rheda Marie Leach	General Curriculum	San Jose
Sue Gum Lee	Zoology	Stockton
Grace Yan Lem	General Curriculum	Madison, Wisconsin
Gerald Stewart Levin	Dramatic Art	San Francisco
Richard William Levis	General Curriculum	San Francisco
Katherine Jane Little	Recreation	Stockton
Gloria Baer Lombardo	Psychology	Oakland
Hermie Fern Lopez	General Curriculum	Berkeley
William Ashbrook Lowe	Political Science	Sacramento
Sally Ulrich Lowry	Decorative Art	Oakland
Dennis Dale Lynton	Political Science	Glendale
JoAnne Steninger McCallister	History	San Francisco
Gardiner Rae McCauley	Art	Oakland
Maureen Ruth McClellan	General Curriculum	La Canada
Douglas Earl McCormick	History	Berkeley
David Bruce MacKay	Economics	Piedmont
Robert Vansickle McKeen	General Curriculum	Piedmont
William Russell Mackey	Journalism	Greenbrae
Judith Ann McLean	History	Danville
Edgley William McMahan	General Curriculum	Oakland
Thomas Francis McMahan	History	San Francisco
Jacqueline Nancy Malfanti	General Curriculum	San Francisco
Patricia Leilani Malloy	Economics	Oakland
Roberta Carol Mann	General Curriculum	El Cerrito
Mary Louise Martin	Social Welfare	Santa Cruz

Joyce Adele Martinelli	Child Development	Forestville
Judith Jane Marvin	General Curriculum	Sacramento
Joanne Martha Matthews	General Curriculum	Burlingame
Clifford Henry Meese	Political Science	Oakland
Ida Boynton Michael	Political Science	Santa Rosa
Barton Dale Miller	Communication and Public Policy	San Diego
Robert Harris Miller	History	San Francisco
Dolores Jean Mooney	English	San Francisco
Rudolf H Moos	Psychology	San Francisco
Antonio Elosegui Moreno (Grad. University of Madrid 1946)	Physics	San Sebastian, Spain
James Edward Morrison	History	Richmond
Walter Cope Moulder	Dramatic Art	San Francisco
Stefan Miroslaw Mrozowski	Sculpture	Oakland
Robert Coleman Munn	Political Science	Oakland
James Irwin Murphey	Geography	Alameda
Maureen Pauline Murphy	Political Science	San Francisco
Adalbert Hans Guenter Naujoks	General Curriculum	Lubeck, Germany
Cora Pei-Ying Nee	Art	Belmont
Verl Kelvin Neil	Physics	Pampa, Texas
Robert Paul Nelson, Jr.	General Curriculum	Oakland
Joseph Barrett Newman, Jr.	Social Welfare	San Francisco
Patricia Ng	Art	Oakland
John Nichols, Jr.	Philosophy	Richmond
Jonathan Sei Nishimura	Biochemistry	Berkeley
Paul Nordin, Jr.	Physics	Los Angeles
Pharaba Vaughan Oakley	General Curriculum	Berkeley
Barbara Ann O'Farrell	General Curriculum	Redwood City
Margaret Olney	Political Science	Berkeley
May Blossom Omura	Social Welfare	Stockton
John Richard O'Neil, III	Labor and Industrial Relations	San Jose
Raymond Emerson Orth, Jr. (B.S. United States Military Academy 1946)	Mathematics	Spokane, Washington
Theodore Burnett Osborn	English	Alameda
Robert Nelson Owen	Psychology	Los Angeles
Henry LeRoy Palmer	Physics	Stockton
James Leighton Palmer	Physics	San Diego
Edith Anne Parkin	General Curriculum	Chula Vista
Dorothy Ewing Parsons	General Curriculum	Clarksburg
Joseph Anthony Paulucci	History	Sacramento
Roger Harrison Pearl	English, Slavic Languages and Literatures	El Cerrito
Frederika Banning Peterson	Psychology	San Leandro
Nancy Lee Pohlmann	Art	Millbrae
Robert Joseph Porter	Physical Education	Oakland
Harry Knapp Potter	General Curriculum	Sacramento
Carol Louise Proudfoot	General Curriculum	Berkeley
Altha Celestine Pugh	Psychology	Woodland
Carroll Wirth Pursell	History	San Francisco
Lawrence Rabinowitz	Biological Sciences	San Francisco
Alan Herman Rasmussen	General Curriculum	Bakersfield
Benson Maurice Read	Psychology	Sacramento
Elaine Roggero Reuter	Child Development	El Nido
Kenneth Wesner Rhoades	Physics	Seymour, Indiana
Gordon Allen Rice	Anthropology	Los Angeles
Elizabeth Zublin Robertson	French	Los Gatos
Sandra Lee Robinson	Speech	Oakland
Wesley John Robinson	Music	San Francisco
William Ellsworth Rogin	General Curriculum	Berkeley
Joseph Michael Romanelli	History	Oakland
Samuel Rosa	General Curriculum	San Francisco
Caroline Kay Rosenberg	Psychology	Berkeley
Ronald Rickard Ross	Physics	Costa Mesa
Morton Rothman	General Curriculum	San Mateo

Bonnie Eve Rubinstein	English	San Francisco
Lya Noel Rumsey	Psychology	Richmond
George Wladimir Rushizky (A.B. Columbia University 1954)	Biochemistry	Stuttgart, Germany
Cosette Rowe Rushmer	General Curriculum	Oakland
Jeanne Shelley Sanford	English	Concord
Sidney Charles Schelling, Jr.	General Curriculum	Exeter
William Fredrick Scheuermann, Jr.	Political Science	Alameda
Ruth Ann Schultz	History	Huntington Beach
Mark Allen Selsor, Jr.	Social Welfare	Albany
Barbara Hope Sherman	Philosophy	Eureka
Robert Stemmler Slauson	General Curriculum	Walnut Creek
Joyce Ann Smith	General Curriculum	Kentfield
Lorraine Ann Smith	General Curriculum	Petaluma
Sylvia Marie Smolick	General Curriculum	Inglewood
Walter Huxley Springer	General Curriculum	San Francisco
Elizabeth Ann Steffen	Social Welfare	Berkeley
Nancy Jane Stewart	Political Science, Philosophy	Modesto
Andrew Herbert Stone	General Curriculum	San Francisco
James Carlisle Stone	General Curriculum	San Francisco
Richard Hamilton Stone	Classics	Washington, District of Columbia
Sylvia Louise Swan	History	Oakland
Edwin Noboru Takahashi	General Curriculum	San Francisco
Buron Lewis Teale	Sociology and Social Institutions	West Point
Louis Richard Testardi	Physics	Lansdowne, Pennsylvania
Phyllis Ann Thompson	General Curriculum	Oakland
Mary Jane Tierney	Social Welfare	Santa Rosa
Jennie Ting	Decorative Art	San Francisco
Walter Reddington Tingley, Jr.	General Curriculum	Sacramento
Leonard Russell Tobin	General Curriculum	San Francisco
Ruth Naomi Todd	General Curriculum	Berkeley
Darlene Yim Tom	Mathematics	Oakland
Marlena Tom	Sociology and Social Institutions	Berkeley
Frank Donald Toombs	General Curriculum	Los Angeles
George Rutherford Towner	Philosophy	Piedmont
Evelyn Niemack Truman	English	Monrovia
Gillian Bentham Turner	Dramatic Art	Berkeley
Robert Antonio Vallergera	General Curriculum	Yountville
Dea Lee Van der Boom	English	Sacramento
William Vernon Van Nortwick	General Curriculum	San Bruno
William Edwin Vaughan	Political Science	Concord
Cezar Brillantes Velarde	Political Science	Iloilo, Philippine Islands
Joseph Christopher Vellenoweth	Social Welfare	Rodeo
Gertrude Johnson Venton	Art	El Cerrito
Carlene Anne Viargues	Political Science	San Francisco
Rowland Wayne Walker	Sociology and Social Institutions	Oakland
Geraldine Elaine Wallace	Art	Irvine
James Vincent Walters	General Curriculum	San Francisco
Berthiel Betty Westerberg	Art	Berkeley
Charles Marcus White, Jr.	General Curriculum	San Jose
Neysa Mather Whittemore	Psychology	Washington, District of Columbia
Dixie Dowdle Wiese	General Curriculum	Vallejo
Elizabeth Ann Williams	General Curriculum	Antioch
James Edgar Wilson	Slavic Languages and Literatures,	Lakewood, Colorado
Alberta May Wong	Social Welfare	Berkeley
Edward Carlyle Woodward	Sociology and Social Institutions	Walnut Creek
Lorraine Woollomes	General Curriculum	San Francisco
Henry Woon	Political Science	Oakland
Thomas Prescott Wright	General Curriculum	Berkeley
Elvin Wu	Psychology	Oakland
Doris Sun York Yee	General Curriculum	Oakland
Sophie Victoria Ymasa	Social Welfare	Berkeley
Carolyn Schwenck Yorston	General Curriculum	Berkeley

Sherel Lynn Young	.....General Curriculum	.....San Jose
Rhoda Margaret Zanow (B.S. University of Wisconsin 1950)	..Bacteriology	.....San Francisco
June Zech	.....General Curriculum	.....San Francisco
Dean Harding ZoBell	.....Medical Sciences	.....La Jolla
Scott Nelson Zumwalt	.....General Curriculum	.....Lafayette

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

Ronald Elton ColeSan Francisco
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SCHOOL OF LAW

The Degree of Bachelor of Laws upon

Robert Lee Christensen (A.B. 1952)Eureka
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The Degree of Master of Laws upon

Aley Alexander (A.B. Women's College, Madras University 1936; LL.B. Madras University Law College 1938; LL.M. Travancore University Law College 1943)Travancore, India
Alejandro Felipe DeSantos (LL.B. University of the Philippines 1940; LL.M. University of Manila 1949)	.....Manila, Philippine Islands
<i>Thesis: A critical analysis of the hearsay rule in the Philippines.</i>	

GRADUATE DIVISION
 CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY
 SCHOOL TEACHERS

Certificate of Completion (School of Education) to

Virginia Carole Amiot (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: Psychology.</i>	
Phyllis Margaret Andrews (A.B. 1955)	Modesto
<i>Major: Psychology; Minors: Music, Social Studies.</i>	
Norma Carolyn Backlund (A.B. 1955)	Berkeley
<i>Major: English, Speech; Minor: Social Studies.</i>	
Margaret Louise Barshell (A.B. 1954)	Burlingame
<i>Major: Music; Minor: Social Studies.</i>	
Geralen Marjorie Beaver (A.B. 1955)	Walnut Creek
<i>Major: Social Studies; Minor: Art.</i>	
Corinne Benson (A.B. 1955)	San Rafael
<i>Major: Psychology; Minor: English.</i>	
Shelley Bickoff (A.B. 1950)	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
Mary Lou Bishop (A.B. 1955)	Oroville
<i>Major: Music; Minor: Social Studies.</i>	
Denise Marie Blake (A.B. 1955)	San Francisco
<i>Majors: Social Studies, Speech; Minor: Psychology.</i>	
Nancy Elin Bracken (A.B. 1955)	Berkeley
<i>Major: Social Studies; Minor: Psychology.</i>	
Lucia Brandon (A.B. 1954)	Glendale
<i>Major: Social Studies; Minor: Psychology.</i>	
Carolyn Lucile Buckner (A.B. 1955)	Pomona
<i>Major: English; Minor: Social Studies.</i>	
Jean Rosemary Campbell (A.B. 1955)	San Francisco
<i>Major: English; Minor: Social Studies.</i>	
Gail Elizabeth Carroll (A.B. 1955)	San Francisco
<i>Majors: Social Studies, Speech; Minor: Psychology.</i>	
Barbara Tambs Chase (A.B. 1944)	Walnut Creek
<i>Major: Social Studies; Minor: Art.</i>	
Bernice Chin (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: Psychology.</i>	
Mary Sarah Chwastyk (A.B. 1947)	Los Angeles
<i>Major: Social Studies; Minor: French.</i>	
Lillian Wilson Coburn (A.B. 1954)	Carlotta
<i>Major: Social Studies; Minor: Psychology.</i>	
Sandra Helen Croce (A.B. 1955)	San Francisco
<i>Majors: Social Studies, Speech; Minor: Psychology.</i>	
Ruth Clydella Crosswell (A.B. 1952)	Oakland
<i>Major: Social Studies; Minor: English.</i>	
Arline Rita Curtice (A.B. University of California, Los Angeles, 1951)	Berkeley
<i>Major: Art; Minor: French.</i>	
Janet Roche Davidson (A.B. 1955)	Berkeley
<i>Major: Social Welfare; Minor: English.</i>	
Elizabeth Joe della Santina (A.B. 1955)	Los Angeles
<i>Major: Child Development; Minor: Social Studies.</i>	
Virginia Amelia Delucchi (A.B. 1955)	Oakland
<i>Major: Social Studies; Minor: Psychology.</i>	
Sherrill Lea Dobrowsky (A.B. 1955)	Redding
<i>Major: Social Studies; Minors: Speech, Psychology.</i>	
Carol Ann Dyc (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: Psychology.</i>	
June Isaacs Elia (A.B. 1955)	Turlock
<i>Major: Social Studies; Minor: English.</i>	

- Sarah Frances Euler (A.B. San Francisco State College 1953) San Francisco
Major: Social Studies; *Minor:* English.
- Gail Raffaelli Fennell (A.B. 1955) San Francisco
Major: English; *Minor:* Social Studies.
- Marian Ellyn Ferguson (A.B. 1955) San Leandro
Major: Psychology; *Minor:* English, Speech.
- Marilyn Dianne Fini (A.B. 1955) Oakland
Major: Social Studies; *Minor:* Psychology.
- Mary Lee Mott Forgy (A.B. 1955) San Marino
Major: Social Studies; *Minor:* Psychology.
- Katherine Louise Toews Freed (A.B. University of California, Los Angeles, 1949)
Major: Social Studies; *Minor:* English. Santa Monica
- Frances Anne Freistadt (A.B. 1955) Venice
Major: Social Studies; *Minor:* English.
- Melford Gartenberg (A.B. 1952) San Francisco
Major: Music; *Minor:* Social Studies.
- Shirley Glenn Gilzean (A.B. 1955) Redding
Major: Social Studies; *Minor:* Speech.
- Barbara Ann Gratiot (A.B. 1955) Piedmont
Major: Social Studies; *Minor:* English.
- Rosalie Jean Gray (A.B. 1955) El Cerrito
Major: Speech; *Minor:* Social Studies.
- Gretchen Green (A.B. 1955) Los Angeles
Major: Social Studies; *Minor:* Psychology.
- Dorothy Jean Grettenberg (A.B. 1955) Balboa
Major: Psychology; *Minor:* Social Studies.
- Claire Agnes Hansen (A.B. 1955) Oakland
Major: Social Studies; *Minor:* English.
- Melissa Maude Harris (A.B. 1955) Oakland
Major: English; *Minors:* French, Social Studies.
- Joan Lee Hartong (A.B. 1955) Oakland
Major: Speech; *Minor:* Social Studies.
- Ann Leonie Harvey (A.B. 1955) San Francisco
Major: Social Studies; *Minor:* Psychology.
- Lorraine Drury Haynes (A.B. 1954) Berkeley
Major: English, Speech; *Minor:* Social Studies.
- Helen Adele Hudson (A.B. 1955) Clarksburg
Major: Social Studies; *Minor:* Art.
- Loretta Marie Iarussi (A.B. 1955) Berkeley
Major: Social Studies; *Minor:* English.
- Laurice Soeth Jenkins (A.B. 1948) Oakland
Major: Natural Science; *Minor:* Psychology.
- Shirley Tambllyn Jensen (A.B. 1955) Richmond
Major: Social Studies; *Minor:* French.
- Valerie Johnson (A.B. 1955) Los Angeles
Major: Speech; *Minor:* Social Studies.
- Jessie Janice Jones (A.B. 1955) Oakland
Major: Social Studies; *Minor:* English.
- Garnar Lu Jordan (A.B. 1955) Ukiah
Majors: Speech, Social Studies.
- Natalie Irene Kellett (A.B. 1955) Berkeley
Major: Social Studies; *Minor:* Psychology.
- Jack Trenard Kohn (A.B. San Francisco State College 1950) San Francisco
Major: Social Studies; *Minor:* English.
- Mary Fogh Kruger (A.B. 1955) Sebastopol
Major: Social Studies; *Minor:* Psychology.
- Donna Lee Lauer (A.B. 1955) Berkeley
Major: Social Studies; *Minor:* English
- Esther Lee (A.B. 1955) San Francisco
Major: Social Studies; *Minor:* Music.
- Susan Goodwin Little (A.B. Connecticut College 1950) Hartford, Connecticut
Major: Psychology; *Minor:* English.
- Charlotte Allen Lowrey (A.B. 1954) Oakland
Major: Social Studies; *Minor:* Music.

Janet Carol McDonough (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minors: French, Psychology.</i>	
Michele Glavinovich McInaney (A.B. 1955)	San Francisco
<i>Major: English; Minor: Social Studies.</i>	
Mary Grace McReynolds (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minors: Psychology, English.</i>	
Sharon Gail McVey (A.B. 1955)	Merced
<i>Major: Social Studies; Minor: Art.</i>	
Virginia Lee Mallery (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: Speech.</i>	
Joyce Diane Meyer (A.B. 1955)	Inglewood
<i>Major: Social Studies; Minor: English.</i>	
Patricia Jacobberger Michellini (A.B. 1955)	Berkeley
<i>Major: Speech; Minor: Psychology.</i>	
Shirley Anne Mills (A.B. 1955)	Berkeley
<i>Major: Art; Minor: Psychology.</i>	
Diane Marilyn Moncrieff (A.B. 1955)	Berkeley
<i>Major: Speech; Minor: Psychology.</i>	
Carol Lee Moore (A.B. 1955)	Pebble Beach
<i>Major: Social Studies; Minor: English.</i>	
Edna-Gene Morrell (A.B. 1955)	Berkeley
<i>Major: Art; Minor: Social Studies.</i>	
Midori Ogawa (A.B. 1955)	Pasadena
<i>Major: Social Studies; Minor: Music.</i>	
Irene Sumie Otamura (A.B. 1955)	Cotati
<i>Major: Social Welfare; Minor: English.</i>	
Shirley Mae Peters (A.B. 1949)	Berkeley
<i>Major: Music; Minor: Social Studies.</i>	
Carol Louise Racine (A.B. 1955)	Lafayette
<i>Major: Speech; Minor: Art.</i>	
Allene Joan Raggio (A.B. 1955)	Jackson
<i>Major: Speech; Minor: Social Studies.</i>	
Lesle Creech Rea (A.B. 1955)	Chico
<i>Major: Social Studies; Minor: English.</i>	
Nancy Reading (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: English.</i>	
Margot Josephine Rees (A.B. 1955)	Piedmont
<i>Major: Social Studies; Minor: Psychology.</i>	
Joyce Marie Rock (A.B. 1955)	Oakland
<i>Major: Speech; Minor: Psychology.</i>	
Nancy Goldberg Rodkin (A.B. 1955)	Los Angeles
<i>Major: Social Studies; Minor: English.</i>	
Nancy Rosenfeld (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: English.</i>	
Virginia Hartz Scott (A.B. 1955)	Oakland
<i>Major: Social Studies; Minor: Art.</i>	
Sandra Rose Sherman (A.B. 1955)	Beverly Hills
<i>Major: English; Minor: Social Studies.</i>	
Robnett Louise Shiffler (A.B. 1955)	San Francisco
<i>Major: English; Minor: Social Studies.</i>	
Jessie Siu (A.B. 1955)	Oakland
<i>Major: Social Studies; Minor: Psychology.</i>	
Shirley Powell Sluiter (A.B. 1944)	Santa Paula
<i>Major: Social Studies; Minor: Speech.</i>	
Andrea Lucille Smith (A.B. 1955)	Hayward
<i>Major: English; Minor: Psychology.</i>	
Shirley Kesterson Smith (A.B. 1955)	Palo Alto
<i>Major: Social Studies; Minor: English.</i>	
Josephine Staub (A.B. 1955)	San Francisco
<i>Major: English; Minors: Psychology, Social Studies.</i>	
Marianne Elise Swanson (A.B. 1955)	Saratoga
<i>Major: Child Development; Minor: Social Studies.</i>	
Dorothy Coolidge Tarpey (A.B. 1946)	Oakland
<i>Major: Natural Science; Minor: Psychology.</i>	

Elizabeth Anne Vinzent (A.B. 1955)	Oakland
<i>Major: Social Studies; Minor: Art.</i>	
Vernice Gladys Wachter (A.B. 1955)	Napa
<i>Major: Social Studies; Minor: Psychology.</i>	
Diane Frances Walsh (A.B. 1955)	San Francisco
<i>Major: Social Studies; Minor: Psychology.</i>	
Anneke Catherina Went (A.B. Pomona College 1954)	Pasadena
<i>Major: English; Minor: Social Studies.</i>	
Cynthia White (A.B. 1955)	San Mateo
<i>Major: Social Studies; Minor: Psychology.</i>	
Gwendolyn Eunice Whiteford (A.B. 1955)	El Cerrito
<i>Major: Social Studies; Minor: English.</i>	
Ruth Clydene Williams (A.B. 1955)	Oakland
<i>Major: Speech; Minor: Social Studies.</i>	
Jacqueline Price Wollenberg (A.B. 1955)	Berkeley
<i>Major: Art; Minor: Psychology.</i>	
Barbara Sui Wong (A.B. 1955)	Berkeley
<i>Major: Child Development; Minor: Social Studies.</i>	

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

Gerald Rollin Anderson (A.B. 1955)	Lafayette
<i>Major: Physical Education; Minor: Business Education.</i>	
Robert Clement Beal (A.B. 1953)	Los Angeles
<i>Major: Physical Education; Minor: Social Studies.</i>	
Suzanne Marion Brown (A.B. 1954)	Chula Vista
<i>Major: French; Minor: Social Studies.</i>	
Willis Lee Burgess (A.B. 1955)	Berkeley
<i>Major: Spanish; Minor: Social Studies.</i>	
Thomas Bruce Dutton (A.B. 1954)	Berkeley
<i>Major: Social Studies; Minor: Physical Education.</i>	
Carolyn Mae Froomin (A.B. 1955)	San Francisco
<i>Major: English; Minor: Spanish.</i>	
John Joseph Gallas (B.S. University of San Francisco 1954; B.L.S. 1955)	
<i>Major: Librarianship; Minor: English.</i>	
James Arnold Garvey (B.S. 1947)	San Francisco
<i>Major: Life Science; Minor: German.</i>	
Robert Harvey Gilzean (A.B. 1953)	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
Jenette Inglis Golds (A.B. 1953)	San Diego
<i>Major: Social Studies; Minor: English.</i>	
Lawrence Robert Halling (A.B. 1952)	San Francisco
<i>Major: Life Science; Minor: Social Studies.</i>	
Muriel Kleven Keith (A.B. 1954)	Castro Valley
<i>Major: English; Minor: Social Studies.</i>	
Richard Besuden Keller (A.B. 1954)	Berkeley
<i>Major: Music; Minor: Social Studies.</i>	
Barbara Jane Lee (A.B. 1952)	San Francisco
<i>Major: English; Minor: Social Studies.</i>	
Jorice Jacobs Maag (A.B. University of Redlands 1954)	Redlands
<i>Major: English; Minor: Social Studies.</i>	
Kenneth Lee McEnroe (A.B. 1950)	Oakland
<i>Major: Physical Science; Minor: Mathematics.</i>	
Marilyn Ann Patterson (B.S. 1955)	Burlingame
<i>Major: Home Making; Minor: Speech.</i>	
Richard Alan Paynter (A.B. 1955)	Oakland
<i>Major: Physical Education; Minor: Social Studies.</i>	
Marie Janice Phillips (A.B. 1955)	San Francisco
<i>Major: Speech; Minor: Social Studies.</i>	
Lawrence Daniel Richard Regello (A.B. 1950)	San Pablo
<i>Major: Art; Minor: Social Studies.</i>	

- Richard Lutes Righter (B.S. 1955) Berkeley
Major: Business Education; Minor: Physical Education.
- Shirley Pember Roberts (A.B. 1955) Danville
Major: Art; Minor: Spanish.
- Mary Elizabeth Rothganger (B.S. 1955) Oakland
Major: Home Making; Minor: Speech.
- Rosemary Way Toby (A.B. 1954) South Pasadena
Major: Art; Minor: Social Studies.
- Lloyd John Torchio (A.B. 1955) Lafayette
Major: Physical Education; Minor: Life Science.
- William Riley Wirth (A.B. 1955) Albany
Major: Physical Education; Minor: Social Studies.
- Alfred John Wrobel (B.S. Swarthmore College 1952; M.A. Columbia
 University 1953) Berkeley
Major: Social Studies; Minor: English.

**CURRICULUM FOR THE TRAINING OF ELEMENTARY
 SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- Dale Hume Hill (B.S. 1950; M.A. 1953) Berkeley

**CURRICULUM FOR THE TRAINING OF SECONDARY
 SCHOOL ADMINISTRATORS**

Certificate of Completion (School of Education) to

- H Robert Brummett (A.B. San Francisco State College 1948) Oakland

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

- Elroy R Avalos (A.B. 1954; M.A. 1955) Berkeley
Major: History; Minor: Spanish.
- Nikki Reichard Keddie (A.B. Radcliffe College 1951; M.A. Stanford Uni-
 versity 1951; Ph.D. 1955) Palo Alto
Major: History; Minor: English.
- Louis Emile Kiger (A.B. 1948 and M.A. 1949 Rutgers University)
Major: History; Minor: English Rahway, New Jersey
- Donald George Morton (A.B. 1944; M.A. 1948) San Mateo
Major History; Minor: Social Studies.
- Adelia Roth Sabiston (B.S. 1947) Berkeley
Major: Home Economics; Minors: Physical Science, Life Science.
- Frank Eugene Sherman (A.B. 1951; M.A. 1954) Berkeley
Major: English; Minor: Philosophy.
- Aaron Herbert Shotten (A.B. 1950) Berkeley
Major: Sociology and Social Institutions; Minor: Psychology.

DEGREES CONFERRED

**The Degree of Master of Business Administration (Graduate School of
 Business Administration) upon*

- William Richard Anderson Sacramento
 A.B. Sacramento State College 1952.
- Rolf Gösta Ingemar Andréasson Gothenburg, Sweden
 Engineer, Chalmers Institute of Technology, Gothenburg, Sweden, 1952.
- Mike Gil Azcona, Jr. Berkeley
 B.S. 1952.

* A comprehensive final examination in the major subject is required in lieu of a thesis.

Augusto Cherubino Breschi	Pistoia, Italy
B.S. 1954.	
William Burford Cook, Jr.	Altadena
A.B. Claremont Men's College 1952.	
Richard Michael D'Arezzo	Oakland
A.B. 1949.	
Paul Richard Dolan	Oakland
B.S. 1953.	
Donald Clarence Fiske	Lincoln, Nebraska
B.S. University of Nebraska 1951.	
Richard Duane Herring	Minneapolis, Minnesota
B.B.A. University of Minnesota 1952.	
Muriel Nadine Jansson	Vallejo
A.B. 1947.	
William John Kelley	Piedmont
B.S. 1954.	
Illi Kirk	San Francisco
Grad. Institute of Commerce, Vienna, Austria, 1947.	
Theodore A Martin	Berkeley
A.B. Stanford University 1951.	
Theodore John Murphy	Berkeley
B.S. 1952.	
Marvin Nimmo Nathan	Los Angeles
B.S. University of North Carolina 1950.	
John Bradley Patrick	Seymour, Indiana
B.S. Indiana University 1952.	
William George Sanders	Alameda
B.S. 1954.	
Robert David Threshie, Jr.	Pasadena
A.B. Pomona College 1952.	

The Degree of Master of City Planning upon

Max Earnest Anderson	Berkeley
A.B. 1950.	
<i>Thesis</i> : The urban economic base study: an examination of its nature and usefulness in city planning.	
Mario Miguel Barriere	San Salvador, El Salvador
B.S. California State Polytechnic College 1953.	
<i>Thesis</i> : Comprehensive planning for El Salvador.	

**The Degree of Master of Engineering upon*

Leigh Hansen Ballard	Transportation Engineering	Pacoima
B.S. 1954.		
Harry Glover Behrens	Sanitary Engineering	Gustine
B.S. 1953.		
Jack Lynford Godsey	Irrigation	Visalia
B.S. 1955.		
Harry Krebs	Petroleum Engineering	Tel-Aviv, Israel
B.S. 1953.		
James Ward Murray	Civil Engineering	Los Angeles
B.S. 1951.		

***The Degree of Master of Journalism upon*

Fred George Herman	Berkeley
A.B. 1951.	
<i>Thesis</i> : Press access to information in Contra Costa County: a case study.	

* 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 Library Science (School of Librarianship) upon*

- William Makoto Osuga Sacramento
A.B. 1947; M.A. 1949.
Ronald Barker Shelburn San Francisco
A.B. San Francisco State College 1954.

***The Degree of Master of Public Health (School of Public Health) upon*

- Kenneth Lauren Briney Berkeley
B.S. 1952.
Dixie Davidson Damon Oakland
B.S. 1943.
Shlomo Fonaroff Brooklyn, New York
B.S. Harvard University 1923.
Kitima Kanithayon Dhonburi, Thailand
A.B. Chulalongkorn University 1952.
Doris Elaine Lauber Savannah, Missouri
B.S. Northwest Missouri State College 1942.
Mary H Rourke Tucson, Arizona
B.S. University of Arizona 1945.
Thomas Bernard Sexton, Jr. Berkeley
B.S. 1952.

****The Degree of Master of Social Welfare (School of Social Welfare) upon*

- Helen Evelyn Ausenbaum Chicago, Illinois
A.B. 1938.
Thesis: A comparative study of leaders versus non-leaders in an urban high school.

***The Degree of Master of Science upon*

- George Louis Benning Electrical Engineering .. Fort Wayne, Indiana
B.S. University of Notre Dame 1949.
Thesis: A design method for a transistor feedback amplifier.
Frances Gold Brown Nursing Oakland
B.S. 1954.
Nina Laura Cohen Nutrition Oakland
B.S. 1953.
Thesis: Studies on pantothenic acid deficiency in cholesterol-fed hamsters.
Duane Garth Dalley Electrical Engineering Lemon Grove
B.S. 1954.
Thesis: Near-zone fields of paraboloid reflectors.
Hikmat Tawfik Fikrat Chemistry Salymania, Iraq
A.B. American University of Beirut 1952.
Jack Vernon Franck Electrical Engineering San Leandro
B.S. 1941.
Thesis: A study of a cavity-stabilized oscillator with two feedback circuits.
Theodore Joe George Civil Engineering Oroville
B.S. 1955.
Thesis: Evaporation from irrigation sprinkler sprays as determined by an electrical conductivity method.
K V Gopalappa Irrigation Bangalore, India
B.Eng. University of Mysore 1948.
Frederick Graebe Civil Engineering San Francisco
B.S. 1954.
Howard Sully Harris Sanitary Engineering Piedmont
B.S. 1953.

† A candidate may qualify for the degree on the basis of a prescribed course of study and a thesis or a prescribed course of study alone.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

*** A candidate may qualify for the degree on the basis of a thesis and a comprehensive final examination or a comprehensive final examination alone.

- Stephen Williams HitchcockEntomologyWilmette, Illinois
A.B. Grinnell College 1950.
Thesis: A taxonomic study of immature forms in the genus *Nemoura*.
- Frederick Houston KaufmanElectrical EngineeringFort Belvoir, Virginia
B.S. University of Notre Dame 1951.
Thesis: Interactions between space harmonics in cascade traveling-wave amplifiers.
- Melvin William KernerComparative Pharmacology and Toxicology
B.S. 1951. Fresno
Thesis: The effects of cerium and related rare earths on *Entamosba histolytica*.
- Toivo Henry KoskiElectrical EngineeringBerkeley
B.S. 1950.
Thesis: A study of negative ion sources for a charge-exchange accelerator.
- Keith Clark McKinneyIndustrial EngineeringSanta Ana
B.S. 1951.
Thesis: Visual inspection and concurrent reinspection of spheroids in combined translation and rotation.
- Donald Johnstone McLeodChemistryCarbon, Alberta, Canada
B.S. University of Alberta 1954.
Thesis: Synthesis of three methyltetracosanoic acids.
- Yo-ichiro MashikoChemistryTokyo, Japan
B.S. Tokyo University 1942.
Thesis: A study of internal rotation in dimethyl ether.
- David Schmucl MathanGeneticsTel-Aviv, Israel
B.S. University of California, Los Angeles, 1954.
Thesis: Inheritance of lanceolate, a new leaf-shape mutant in the tomato.
- Raymond Victor MelletteMechanical EngineeringAlbany
B.S. 1950.
Thesis: Thermal stresses in thin rectangular plates.
- Edward MizunoElectrical EngineeringOakland
B.S. 1954.
Thesis: Direct conversion of modulated radio-frequency energy into sound.
- Frances Bent PackwoodNursingPiedmont
B.S. 1943.
- Samuel Laird Pharr, Jr.PathologySan Francisco
B.S. Davidson College 1949.
Thesis: A cytologic and histologic study of pulmonary carcinogenesis in animals.
- Susanne Elaine RitsemaChemistryGrand Rapids, Michigan
A.B. Calvin College 1954.
Thesis: Fission and spallation excitation functions of uranium.
- Adelia Roth SabistonNutritionBerkeley
B.S. 1947.
Thesis: The nutritive quality of the proteins of white and whole wheat breads made with and without nonfat milk solids.
- Ardyce Irene SorensenNutritionWailuku, Territory of Hawaii
B.S. Western Reserve University 1947.
Thesis: The value of wheat protein, with and without milk supplements, for support of growth, pregnancy, and lactation in rats.
- Eliathamby Seevaratnam
ThevasagayamParasitologyKurunegala, Ceylon
B.S. University of Madras 1947.
Thesis: Toxicity of some newer insecticides to larvae and pupae of *Culex quinquefasciatus* Say.
- Frank Reginald ThorntonMetallurgyBerkeley
Chem.Eng. Federico Santa Maria Technical University, Valparaiso, Chile, 1951.
Thesis: A study of the flotation of clays with amine collectors.
- Peter Franz Dirk VanPeenenPharmacologyLong Beach
A.B. Princeton University 1953.
Thesis: The effect of chemical blocking agents on the pituitary-adrenal response.
- Dale Smith WarrenCivil EngineeringBurney
B.S. 1952.
Thesis: The solution of problems in plane elasticity by relaxation of stress surfaces.
- Patricia Rosemary WightNursingBillings, Montana
B.S. 1953.

- Carl Donald WisemanMetallurgyDallas, Texas
 B.S. Southern Methodist University 1950.
Thesis: Determination of the activation energy of recovery for a polycrystalline aluminum alloy.

****The Degree of Master of Arts upon**

- Lewis Edgar Agnew, Jr.PhysicsLos Alamos, New Mexico
 B.S. University of Missouri 1950.
- Patrick L AlstonHistoryBerkeley
 A.B. St. Patrick's Seminary, Menlo Park, 1946.
Thesis: Alexander N Radishchev, a spokesman of the Russian Enlightenment.
- George Francis BagatellaBiochemistryCupertino
 B.S.M. Creighton University 1946.
Thesis: Metabolism of S³⁵-labeled albumin and I¹³¹-labeled albumin in the rat.
- Saul David BarshayPhysicsBeacon, New York
 A.B. Cornell University 1954.
- Walter Eckert Beam, Jr.BacteriologyUpper Darby, Pennsylvania
 B.S. Pennsylvania State College 1949.
- Elizabeth Irene BennettEducationNevada City
 A.B. Dominican College of San Rafael 1941.
- June Kitazawa BhattacharjeeBiochemistrySan Jose
 B.S. Columbia University 1950.
- Lloyd Charles BoyceArchitectureGreen Bay, Wisconsin
 B.S. University of Illinois 1951.
Thesis: A community theater.
- Patricia Rogers CanfieldEducationEl Cerrito
 A.B. 1947.
- Thomas Herbert Childs.....Political ScienceBalboa
 A.B. 1954.
Thesis: A survey of police recruitment in Orange County, California.
- Don Thomas ChristensenPolitical SciencePalo Alto
 A.B. 1951.
Thesis: Recent elections in the Republic of Korea, 1948-1954.
- Sherburne Friend Cook, Jr.ZoologyBerkeley
 A.B. 1953.
Thesis: The effects of fire on small rodent populations.
- David Francis Costa, Jr.....ArchitectureOakland
 A.B. 1955.
Thesis: Study of an Olympic stadia group for the San Francisco Bay area, to be located on the Berkeley waterfront, 1960.
- Morton David DavisMathematicsLos Angeles
 A.B. University of Colorado 1952.
- Raymond Paul deRomanettSociology and Social Institutions.San Francisco
 A.B. San Francisco State College 1951.
Thesis: Public action and community planning: a study in the redevelopment of Richmond, California.
- Roger Willis ErvinPhysical Education....Falls Church, Virginia
 B.S. Wilson Teachers College, District of Columbia, 1946.
Thesis: Views of some American Catholic leaders in regard to sports and physical recreation.
- Ruth Ann FormanBiochemistryGlendale
 A.B. 1954.
Thesis: Studies on the enzymatic degradation of proteins.
- Harold B FrazeeEducationRichmond
 A.B. University of Oregon 1938; M.Th. 1941 and D.Th. 1945 Southern Baptist Theological Seminary, Louisville, Kentucky.
- William Robert FrazerPhysicsIndianapolis, Indiana
 A.B. Carleton College 1954.
- Eugene Kenway FriedmanGeologyBeverly Hills
 A.B. 1951.
- Toyo-Masa FuséHistorySapporo City, Japan
 A.B. Missouri Valley College 1954.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- George Alexander GammonPhysical EducationBerkeley
A.B. 1940.
Thesis: Teacher preparation in physical education at the elementary school level.
- Ruth GastelBiochemistryRochester, New York
A.B. University of Rochester 1949.
Thesis: Oxidation of aromatic compounds by bacteria.
- Charles William GemmerDecorative ArtRichmond
A.B. 1947.
Thesis: The history and manufacture of pottery at Quimper.
- Jeanne Rosalie GibsonEducationBerkeley
A.B. 1953.
- Kazuo HamamotoPolitical ScienceLoomis
A.B. 1941.
Thesis: The California financial responsibility law.
- Norman Hayden HarriesGeographySwansea, Wales
A.B. University of Birmingham 1953.
Thesis: Cornish and Welsh mining settlements in California.
- Lucille M HellwigArtSan Francisco
A.B. 1947.
- Harley Holt HernandezComparative Biochemistry
A.B. Duke University 1949. Birmingham, Alabama
Thesis: Studies on cholesterol absorption.
- Lowell Hoehn HillFrenchSan Jose
A.B. University of Colorado 1952.
- Edmund Alan HollArchitectureSan Francisco
A.B. 1953.
Thesis: A medium security correctional institution for northern California.
- Thomas Charles Robert Horn.....HistoryCannonsburg, Pennsylvania
A.B. University of Pittsburgh 1954.
Thesis: The Netherlands and the Holy Roman Empire at the Augsburg Reichstag,
1547-1548.
- Ralph Hanel HunkinsInternational Relations...Lead, South Dakota
B.S. University of Nebraska 1950.
Thesis: The UNESCO tensions project—can it aid the cause of peace?
- Naushaba HusainEnglishSan Francisco
A.B. University of the Punjab 1952.
- Stuart John InglisAstronomyLong Beach
A.B. 1947.
Thesis: A study of the spectrum of Pi Scorpii.
- Hubert Covington JohnsonHistorySan Diego
A.B. San Diego State College 1955.
- Gisela Louise JungbluthSpanishDenver, Colorado
A.B. University of Colorado 1954.
- Yoshihiro KatoZoologyTokyo, Japan
B.S. Tokyo University 1948.
Thesis: Ribonucleic acid in isolated blastomeres of *Ilyanassa*.
- Eugene Edgar Kerrick, Jr.HistoryHalf Moon Bay
A.B. 1949.
Thesis: California and the presidential election of 1932.
- William Richard LaidlawHistoryBerkeley
A.B. Stanford University 1941.
Thesis: Prohibition enforcement and our foreign relations.
- Jeanne Doyle LareauPhysical EducationBerkeley
A.B. University of Arizona 1950.
Thesis: The relationship between athletic competition and personal and social
adjustment in junior high school girls.
- Mildred Viola LeamerEnglishHull, Iowa
A.B. Iowa State Teachers College 1941.
- Noah LewisPhysicsBerkeley
A.B. 1946.
- Allan Lee LouderbackZoologyLong Beach
A.B. 1953.
Thesis: The morphology of the flagellate stage of *Tetramitus rostratus* Parry.

- Richard William McDanielsHistoryPetaluma
B.S. Oshkosh State Teachers College, Wisconsin, 1942.
Thesis: The indemnity lands of the Northern Pacific Railroad.
- Elaine Lavagnino MacDonaldSociology and Social Institutions...Richmond
A.B. Smith College 1946.
- John Jovan MacutSlavic StudiesLos Angeles
B.S. Carnegie Institute of Technology 1948.
Thesis: Djilas and the Yugoslav Communist Party.
- Richard MarrusPhysicsMount Vernon, New York
B.S. New York University 1954.
- Alys Meeuwsen MountEducationWoodland
B.S. George Washington University 1947.
- Ramiro de Porto Alegre MunizPhysicsBerkeley
A.B. 1954.
- Leonard MuscatineZoologyLevittown, Pennsylvania
A.B. Lafayette College 1954.
- Charles Harold MyersEnglishBerkeley
A.B. San Jose State College 1954.
- Kamal Isa NaffáHistoryAmman, Jordan
A.B. American University of Beirut 1950.
- Sirichai NarumitArchitectureBangkok, Thailand
B.Arch. Chulalongkorn University 1951.
Thesis: Climatic influences on architecture of the tropics: a case study of building in Thailand.
- John Warwick NevileEconomicsNedlands, Australia
A.B. University of Western Australia 1953.
Thesis: Changes in the level of economic activity in Australia, 1946–1953.
- Jeanne Marie NickellPolitical SciencePasadena
A.B. 1955.
Thesis: Outer Mongolia: a study in Soviet colonialism.
- Masao OkumotoBacteriologyAlbany
A.B. 1951.
- Peter Kleeman OppenheimInternational RelationsMalibu
A.B. 1951.
Thesis: The economic and political factors of the postwar Sterling Area.
- Richard Henry PfaffPolitical ScienceSan Francisco
A.B. 1953.
Thesis: Fertile Crescent unity.
- Carolyn Ann ReutherEducationBerkeley
A.B. 1949.
- Carl Jerome RoeserPolitical ScienceBerkeley
B.S. Michigan State College 1948.
Thesis: Recent relations between the United States and Panama.
- Ernest Hugh RogersPhysicsAzusa
A.B. Pomona College 1954.
- Aaron Howard RosenEnglishUtica, New York
A.B. New York University 1947.
- John William ScudderEducationBerkeley
A.B. St. Mary's College, California, 1950.
- Roy Keith SextonPolitical ScienceUpland
A.B. 1954.
Thesis: Pakistan, the divided state: a study in national unity.
- Aaron Herbert ShottenSociology and Social Institutions...Berkeley
A.B. 1950.
- Richard King SmithPolitical ScienceBlackfoot, Idaho
A.B. University of Idaho 1950
Thesis: Economic progress in postwar France, 1947–1954.
- Thomas William SmithEconomicsBerea, Ohio
B.S. Miami University 1950.
Thesis: Tax exemption policy in Puerto Rico.
- George Hinkle SteelEducationSan Rafael
B.S. United States Military Academy 1924.
- Leslie Stevens StoneArchitectureSan Francisco
A.B. 1953.
Thesis: A civic center for Salinas, California.

- John Dennis SullivanEconomicsBerkeley
 B.S. University of Santa Clara 1952.
Thesis: Dental care in health and welfare plans.
- William Paul Swanson Physics St. Paul, Minnesota
 A.B. University of Minnesota 1953.
- John Wilford Tague Education Berkeley
 A.B. 1942.
- Marion Stelling Trousdale English Puyallup, Washington
 A.B. University of Michigan 1951.
- Ellsworth Meredith Turner Education Petaluma
 B.S. 1940.
- William Leon Weiss International Relations San Francisco
 A.B. 1949.
Thesis: Imperial problems of France in Tunisia.
- Frontis Burbank Wiggins, Jr. Political Science Albany, Georgia
 B.I.E. Georgia Institute of Technology 1950.
Thesis: The Georgia gubernatorial controversy, 1947.
- William Hartman Woodin Zoology Tucson, Arizona
 A.B. University of Arizona 1950.
Thesis: Ecology and geographic variation of the Arizona Mountain king snake
Lampropeltis pyromelana.

The Degree of Doctor of Medicine (School of Medicine) upon

- *Ian Atholl Kellock Chorley Wood, Herts, England
 **Gerald Isaac MacDonald Swyer (A.B. Oxford University 1939)
 London, England

The Degree of Doctor of Education (School of Education) upon

- Benigno Aldana Educational Administration
 Manila, Philippine Islands
 B.S. 1931 and M.A. 1933 University of the Philippines.
Thesis: Developing a defensible financial program for the public schools of the
 Philippines.
- Mary Alberta Choate Elementary Education Oneonta, New York
 B.S. University of Illinois 1940; M.Ed. Harvard University 1949.
Thesis: Aspirations, attitudes, and concepts of children of two contrasting socio-
 economic groups in the San Joaquin Valley.
- Benjamin Fleetwood Jefferson Educational Curriculum Oakland
 A.B. Occidental College 1933; M.S. University of Southern California 1951.
Thesis: Some relationships between parents' and children's preferences in ju-
 venile literature.
- James Brightman Riley Educational Administration Napa
 A.B. Chico State College 1937; M.S. University of Southern California 1942.
Thesis: In-service training for school board members.
- Norvel L Smith Educational Administration
 Philadelphia, Pennsylvania
 B.S. 1949 and M.S. 1950 University of Pennsylvania.
Thesis: The self-contained primary unit.

The Degree of Mechanical Engineer upon

- Charles William Radcliffe Chula Vista
 B.A.S. 1945; B.S. 1947; M.S. 1950.
Thesis: Biomechanical design of an improved leg prosthesis.

The Degree of Doctor of Philosophy upon

- Ronald Stone Anderson History Santa Barbara
 A.B. 1929 and M.A. 1946 Stanford University.
Thesis: Nishi Honganji and Japanese Buddhist nationalism, 1862-1945.

* As of October 20, 1945.

** As of February 23, 1943.

- Paul Manuel ArriolaRomance LiteratureSpring Valley
A.B. San Diego State College 1947; M.A. 1949.
Thesis: The Viage a Jerusalem: a contribution to the study of Spanish travel literature.
- John Frederick Below, Jr.ChemistryChicago, Illinois
Ph.B. in the College, University of Chicago 1948; M.S. University of Chicago 1951.
Thesis: Rapid reactions: kinetics of the formation of the ferric thiocyanate complex.
- Rudolph Carl BlitzEconomicsBerkeley
A.B. Earlham College 1940; M.A. 1948.
Thesis: The British Tariff Reform Movement for empire preference and protection, 1873-1914.
- Gertrude Hannah BlumenthalZoologyRahway, New Jersey
A.B. Temple University 1943; M.S. University of Pennsylvania 1947.
Thesis: A comparative study of the desoxyribonuclease activity in adult and embryonic tissues.
- Michael Edwin BrownePhysicsLong Beach
B.S. 1952.
Thesis: Magnetic properties of some dilute alloys.
- Edward Shannon Clark, Jr.ChemistryOneonta, New York
B.S. Union College 1951
Thesis: The crystal structure of gold (III) chloride.
- David CohenPhysicsWinnipeg, Manitoba, Canada
A.B. University of Manitoba 1948.
Thesis: Bremsstrahlung from proton bombardment of nuclei.
- Ajit Kumar DattaPharmaceutical Chemistry.....Calcutta, India
B.S. University of Calcutta 1948; M.S. Purdue University 1952.
Thesis: The synthesis and biological activity of compounds containing the α -pyrone nucleus.
- Mario Aldo Del ChiaroHistory of ArtSan Francisco
A.B. 1950; M.A. 1951.
*Thesis: The *genucilia* group: a class of Etruscan red-figured plates.*
- Roberto Diaz-FernandezMathematicsRio Piedros, Puerto Rico
B.S. University of Puerto Rico 1950; M.A. Columbia University 1951.
Thesis: Alternative rings and their regular ideals.
- Ruth Gertrude DoellComparative BiochemistryRichmond
A.B. 1952.
Thesis: The effect of insulin on protein metabolism in the perfused rat liver.
- Rudolph H DyckChemistryPasadena
B.S. 1952.
Thesis: The electronic states involved in the photochemical reactions of some aromatic molecules.
- Robert Everett EllisPhysicsBerkeley
B.S. University of Utah 1934.
Thesis: Elastic scattering of 48-Mev alpha particles.
- Stuart Pierre EriksenPharmaceutical ChemistrySan Francisco
B.S. 1952; M.S. 1955.
Thesis: The synthesis of several symmetrical quaternary ammonium iodides and their electrical conductances in various alcohols.
- James Martin FeltsPhysiologyBerkeley
A.B. 1948.
Thesis: The metabolism and composition of diabetic rat liver as influenced by insulin.
- Clarence Ronald FuerstBiochemistry.....Boshow, Alberta, Canada
B.S. 1949 and M.S. 1951 University of Alberta.
Thesis: Studies on the reproduction of bacteriophage.
- Merrill Mason GaffneyEconomicsWinnetka, Illinois
A.B. Reed College 1948.
Thesis: Land speculation as an obstacle to ideal allocation of land.
- Joseph Francis GarciaPhysiologyHayward
A.B. 1947; M.A. 1948.
Thesis: Studies on erythropoiesis as a function of age in the normal male rat.

- Peter Rygaard GrayChemistryLowell, Indiana
B.S. 1950 and M.S. 1951 Michigan College of Mining and Technology.
Thesis: Electron capture and the Auger effect in the heaviest elements.
- Billy J HartsCivil EngineeringAlbany
B.S. 1952; M.S. 1954.
Thesis: The inelastic buckling of columns subjected to dynamic loadings.
- Lawrence Ray HeckardBotanyLong Beach, Washington
B.S. Oregon State College 1948.
Thesis: Studies in the *Phacelia magellanica* complex (Hydrophyllaceae), with particular reference to the California members.
- Robert Shaw HoffmannZoologyMidvale, Utah
B.S. Utah State Agricultural College 1950; M.A. 1954.
Thesis: Population fluctuations of small mammals and sooty grouse in California.
- Alan Merrill HollingsworthEnglishOakland
A.B. 1949; M.A. 1950.
Thesis: The destructive element: a study of Conrad's tragic vision.
- Herbert Raymond JohnstonElectrical Engineering....Des Plaines, Illinois
B.S. University of Illinois 1931; M.S. Oregon State College 1939.
Thesis: An electrostatic beta-ray spectrometer with a double retarding field.
- Richard Victor JonesPhysicsOakland
A.B. 1951.
Thesis: I. Cyclotron resonance in molecular afterglows. II. The spin and magnetic moment of Co⁵⁶ by paramagnetic resonance.
- Charles Le Roy Judson, Jr.EntomologyRiverside
A.B. Santa Barbara College 1951.
Thesis: Certain transamination reactions in the cockroach *Periplaneta americana* (Linn.)
- Robert Edwin KantorSociology and Social Institutions.Redwood City
A.B. Brooklyn College 1935; M.A. 1953.
Thesis: Sociological dimensions in schizophrenia.
- William Randee KellenEntomologyChicago, Illinois
B.S. 1951 and M.A. 1952 University of Michigan.
Thesis: An ecological study of insects in oxidation ponds.
- Thomas Francis LeighEntomologyBeaumont, California
B.S. 1949.
Thesis: The influence of the physical environment on the flight activity of *Colias philodice eurythema* Boisduval (Lepidoptera: Pieridae).
- Mary Estes LiebermanHistorySan Antonio, Texas
A.B. University of Texas 1938.
Thesis: Okawa Shumei and Japan's "Divine Mission."
- Peter George LoretEducationSan Francisco
A.B. 1952; M.A. 1953.
Thesis: Selected psychometric variables as related to test-type preference.
- Richard Carlton MacCamyMathematicsSpokane, Washington
A.B. Reed College 1949.
Thesis: Linear boundary problems arising in the diffraction of water waves by surface obstacles.
- Warren Dowell McClam, Jr.EconomicsBerkeley
B.S. 1947.
Thesis: Suppressed inflation in the United Kingdom, 1945-1953.
- Arturo Maimoni-BiblarzChemical EngineeringBogotá, Colombia
Grad. National University of Colombia 1947; M.S. California Institute of Technology 1949.
Thesis: Vapor-liquid equilibria in the system hydrogen-nitrogen.
- Irving Louis MillerComparative BiochemistryCleveland, Ohio
B.S. 1947 and M.S. 1948 Ohio State University.
Thesis: The bacterial degradation of kynurenine.
- David William MinarPolitical SciencePortland, Oregon
A.B. Reed College 1949; M.A. 1951.
Thesis: Knowledge, opinion, and politics: public opinion as an ingredient in political theory.
- Stephan Paul MitoffEngineering ScienceBerkeley
B.S. 1950.
Thesis: The behavior of molten sodium fluoride solutions.

- Edward Quentin MoultonSanitary EngineeringPalm Beach, Florida
B.S. Michigan State College 1947; M.S. Louisiana State University 1948.
Thesis: An evaluation of process variables in the electro-dialytic demineralization of saline water.
- Naomi OgimachiChemistrySun Valley
B.S. University of California, Los Angeles, 1950.
Thesis: Steric and electronic effects of alkyl groups on the stabilities of molecular complexes of polyalkylbenzenes.
- Donald Elwood PackChemistryCulver City
B.S. University of California, Los Angeles, 1949.
Thesis: Degradative and synthetic studies on colchicine.
- Demosthenes PappagianisBacteriologyChula Vista
A.B. 1949; M.A. 1951.
Thesis: Factors associated with virulence of *Coccidioides immitis*.
- *Phillip Burns PetersenRomance PhilologyPasadena
A.B. 1942 and M.A. 1947 University of California, Los Angeles.
Thesis: A linguistic study of the Old Leonese *Fuero de Ledesma*.
- Robert PlonseyElectrical EngineeringOakland
B.E.E. Cooper Union School of Engineering 1943; M.E.E. New York University 1948.
Thesis: Diffraction by cylindrical reflectors.
- Douglas Manners PostBotanySeattle
B.S. 1948 and M.S. 1950 University of Washington.
Thesis: Studies in the Gentianaceae: *Frasera* and *Swertia* of North America.
- John Joseph ReynoldsRomance LiteratureRedwood City
A.B. 1946; M.A. 1948.
Thesis: A study and critical edition of Tirso de Molina's *El condenado por desconfiado*.
- Emmett John RiceEconomicsBronx, New York
B.B.A. 1941 and M.B.A. 1942 The City College, New York.
Thesis: Sources and uses of capital for economic development in the public sector of the Indian economy, 1947-1952.
- William John RiemerZoologyAlbany
A.B. 1949; M.A. 1953.
Thesis: Variation and systematic relationships within the salamander genus *Taricha*.
- Carl Fredrick Romney, Jr.GeophysicsSalt Lake City, Utah
B.S. California Institute of Technology 1945.
Thesis: The Dixie Valley-Fairview Peak earthquakes of December 16, 1954.
- Albert Edward SafarianEconomicsToronto, Ontario, Canada
A.B. University of Toronto 1946.
Thesis: The Canadian economy in the great depression.
- Wesley Alexander St. JohnPolitical ScienceGlendale
B.S. Drake University 1948; M.A. State University of Iowa 1949.
Thesis: The issuance, suspension, and revocation of occupational and professional licenses: a study of California administrative procedure.
- Russell Hobart SanbornChemistryLaconia, New Hampshire
A.B. Wesleyan University 1952.
Thesis: A study of the mechanism of electroreduction at the dropping mercury electrode.
- Paul Leo-Mary SerruysOriental LanguagesBrussels, Belgium
Grad. Major Seminary Immaculate Heart of Mary Society, Louvain, Belgium, 1937.
Thesis: Prolegomena to the study of the Chinese dialects of Han time according to *Fang yen*.
- Charles McEwen ShawGeologyPasadena
B.S. 1950.
Thesis: An investigation of some chemical reactions involved in the genesis of metamorphic rocks.
- Robert Burton ShawMetallurgySan Francisco
B.S. 1948; M.S. 1953.
Thesis: The measurement of the absolute energy of low-angle dislocation boundaries in zinc.

* As of September 10, 1955.

- James Robert SquireEducationOakland
A.B. Pomona College 1947; M.A. 1949.
Thesis: The responses of adolescents to literature involving selected experiences of personal development.
- Robert Kendall SquirePhysicsCoffeyville, Kansas
A.B. 1951.
Thesis: Characteristics of the production of neutral mesons near threshold in collisions of protons with protons.
- Robert StanleyPlant PhysiologyNew York, New York
B.S. Michigan State College 1948.
Thesis: Respiratory patterns in germinating seeds of sugar pine (*Pinus Lambertiana* Dougl.).
- Henry Pierce StappPhysicsSausalito
B.S. University of Michigan 1950; M.A. 1952.
Thesis: The theory and interpretation of polarization phenomena in nuclear scattering.
- Arthur StegerMathematicsEast Orange, New Jersey
A.B. University of Pennsylvania 1942; M.A. 1948.
Thesis: Idempotent matrices over commutative rings.
- Jerome David Stein, Jr.PhysiologyRichmond
A.B. 1951; M.A. 1952.
Thesis: Alterations of growth hormone activity by variations in dietary intake.
- Joseph Pleas Surls, Jr.ChemistryBerkeley
B.S. North Georgia College 1951.
Thesis: Ion-exchange behavior of actinides and lanthanides.
- James Henry Richardson
SutherlandPhysiologyBerkeley
A.B. 1948.
Thesis: A study of the endocrine secretions of the pancreas by the method of pancreatic implant.
- Ransom Theodore TaylorGermanLos Angeles
Grad. School of Economics and Public Administration, St. Gall, Switzerland, 1939; M.A. University of California, Los Angeles, 1949.
Thesis: The concept of political power in the works of Alfred Neumann.
- Don TocherGeophysicsCarmel
A.B. 1945; M.A. 1952.
Thesis: Seismic velocities and structure in northern California and Nevada.
- Franklin James VaughnPhysicsMinneapolis, Minnesota
A.B. Carleton College 1941.
Thesis: Elastic and inelastic scattering of 48-Mev alpha particles by carbon and magnesium.
- Virginia Berry WareEducationSacramento
A.B. 1930; M.A. 1950.
Thesis: The intra-individual organization of children's behavior in school.
- Jacob Ira WeissmanEconomicsDetroit, Michigan
A.B. 1935 and J.D. 1936 University of Michigan.
Thesis: The law of oligopoly: a study in the relationship between legal and economic theory.
- William Walter YoungPolitical ScienceBerkeley
A.B. 1947; M.A. 1951.
Thesis: Congressional investigations of the Federal administration.
- Paul Joseph ZinkeSoil ScienceLos Angeles
B.S. 1942; M.S. 1952.
Thesis: The magnitude and variation of certain soil properties associated with three forest tree species in California.
- Daniel ZoharyGeneticsJerusalem, Israel
M.S. Hebrew University, Jerusalem, 1951.
Thesis: Cytogenetic studies in the polyploid complex of *Dactylis glomerata* L.
- Eugene Ellsworth ZumwaltEnglishRichmond
A.B. 1948 and M.A. 1950 University of Oregon.
Thesis: Divine and diabolic irony: the growth of a Tudor dramatic sense.

HONORS WITH DEGREES

HONORABLE MENTION WITH THE DEGREE OF ASSOCIATE IN ARTS

JANUARY, 1956

IN THE COLLEGE OF LETTERS AND SCIENCE

Robert Baird Armeson
Joseph Carnegie Avakoff
Michael William Basten
Walter Bauer
Barbara Ann Baxter
Katherine McCulloch Bird
James Charles Boudreau
Donna Lindley Briney
Davel Rolando Brodesky
Adelaide Dean Brusie
Virginia Chan
Malcolm Stanley Cole
Jean Clennell Cooke
Elaine Ann Darby
Marvin Barron Ellenberg
Arthur Asao Endo
Mary Jane Godward Garbarino
Hilda Holtz

Henry Jacobson
Elizabeth Sinclair Juul
Bruce André Keppel
Erda Lois Labuhn
Joyce Lucille LeFebvre
Elizabeth Meade McGill
Peter Wallace Merner
Richard Carl Munter
Ellen Fish Reagan
Kenneth Ring
Margery Holburne Saunders
Dolores Naomi Schectman
Jere Lu Amalia Scott
William Martin Sherlock
Susan Ann Spongberg
Douglas Hillman Strong
Elizabeth Stewart Sutton
Dolph Thomas Urban

HONORS WITH THE BACHELOR'S DEGREE

JANUARY, 1956

IN THE SCHOOL OF BUSINESS ADMINISTRATION

James Edwin Carlisle
Robert Wallis Hill

Robert Dearborn Pope
Ralph Bruce Ricks

Delano Schroeder

IN THE SCHOOL OF NURSING

CURRICULUM FOR UNDERGRADUATE STUDENTS IN NURSING

Marilyn Joan Berkla
Carol Marzluft Dutra

Robert Claire Herman
Mary Maren Parker

CURRICULUM FOR GRADUATE NURSES

Elinor Damon Dorries

Joyce Ione Hansen

Dorothy Kleinfeld

Highest Honors

Anita Beverly Chusid

Marcia Marcella Van Lane

IN THE COLLEGE OF AGRICULTURE

Lois Scott Hoskins

IN THE COLLEGE OF ARCHITECTURE

Edward James Bennett
Peter Hampton Dodge

Robert Emanuel Sereda
Leonard Mendel Veitzer

Highest Honors

Frank Richard Krueger

Frederick John Schlaepfer

John Gilbert Wells

IN THE COLLEGE OF CHEMISTRY

BASIC CHEMISTRY

Robert Eugene Meredith Nobel Wakabayashi

CHEMICAL ENGINEERING

Highest Honors

Alexis I Kasnoff

IN THE COLLEGE OF ENGINEERING

CIVIL ENGINEERING

Gerald Lee Baker Wylie Adams Jones
John Paculan Irwin Donald Edward Peterson

ELECTRICAL ENGINEERING

James Odell Kelley Gerald Pesavento
Donald Eugene McClure James Roy Ward*Highest Honors*

Mohammad Shuaib Ghausi

ENGINEERING PHYSICS

Highest Honors

Lawrence Edward Boyd

INDUSTRIAL ENGINEERING

Thomas G Diel

Highest Honors

Tholbert Milton Honea, Jr.

MECHANICAL ENGINEERING

Ming Dai Koo Jack Lester Lytton

IN THE COLLEGE OF LETTERS AND SCIENCE

ANTHROPOLOGY

Albert Edward Ellison, Jr.

ART

Gertrude Johnson Venton

Highest Honors

Nancy Lee Pohlmann

BACTERIOLOGY

Biyo Kunisawa

BIOLOGICAL SCIENCES

Highest Honors

Lawrence Rabinowitz

CHILD DEVELOPMENT

Elaine Roggero Reuter

CLASSICS

Highest Honors

Richard Hamilton Stone

DRAMATIC ART
Gillian Bentham Turner

ENGLISH

John Edward Dineen
Bonnie Eve Rubinstein

Jeanne Shelley Sanford
Evelyn Niemack Truman

Highest Honors

Richard Bridgman

FRENCH

Barbara Zmaeff Karler

GENERAL CURRICULUM

Janice Carole Kaelin
Phyllis Ann Thompson

Walter Huxley Springer

GEOGRAPHY

James Irwin Murphey

HISTORY

Douglas Earl McCormick
Joseph Michael Romanelli

Carroll Wirth Pursell

MATHEMATICS

Allen Kenneth Charnow
William Merrill Kesse, Jr.

MUSIC

Roy Vincent Bogas
Stanley Cotter

PALEONTOLOGY

Alan Hall Coogan

PHILOSOPHY

Gerard Frederik Franken

PHYSICS

John Norvell Dyer
Paul Nordin, Jr.

John Byers Hutchins

Highest Honors

Richard Conley LaForce
Ronald Rickard Ross

Verl Kelvin Neil

POLITICAL SCIENCE

Thomas Manning Cook
Anne Grafft

PSYCHOLOGY

Rudolf H Moos
Altha Celestine Pugh

Frederika Banning Peterson

Highest Honors

Lya Noel Rumsey

RECREATION

Katherine Jane Little

SCULPTURE

Jamesine Ellen Friend

SLAVIC LANGUAGES AND LITERATURES

Irene Xenia Ivanoff
Roger Harrison Peari

Highest Honors

James Edgar Wilson

Honors—January

SOCIAL WELFARE

Elizabeth Ann Steffen

Alberta May Wong

SOCIOLOGY AND SOCIAL INSTITUTIONS

Rowland Wayne Walker

SPEECH

Sandra Lee Robinson

UNIVERSITY OF CALIFORNIA
CERTIFICATES, DEGREES,
AND HONORS

JUNE 6, 1956



CERTIFICATES AWARDED

SCHOOL OF MEDICINE

COURSE FOR TECHNICIANS IN EXFOLIATIVE CYTOLOGY

Certificate of Completion to

Ruth Paulene Hanes (B.S. 1951).....San Francisco
Allen Wong (B.S. 1952).....San Francisco

SCHOOL OF NURSING

CURRICULUM IN PUBLIC HEALTH NURSING

CLASS B

Certificate of Completion to

Elinor Damon Dorries (B.S. 1956).....Oakland
Joyce Ione Hansen (B.S. 1956).....Ventura
Emily Vernon Lewis (A.B. 1953; B.S. 1955).....Berkeley
Deborah Sadie Titus (B.S. 1956).....Los Angeles
Marcia Marcella Van Lane (B.S. 1956).....La Mesa

CURRICULUM IN NURSING EDUCATION

CLASS B

Certificate of Completion to

Lettie Johneva Thomas (B.S. 1956).....Los Angeles

CURRICULUM IN NURSING

Certificate of Completion to

Alvina Oliver Baranco (B.S. 1956).....Vallejo
Linda Anne Beaty (B.S. 1956).....Bakersfield
Marilyn Joan Berkla (B.S. 1956).....San Carlos
Barbara Marie Ciemny (B.S. 1956).....Los Angeles
Geraldine Dere (B.S. 1956).....San Francisco
JoAnn Louise Emery (B.S. 1956).....San Francisco
Sorrell Etkin (B.S. 1956).....Los Angeles
Joyce Winifred Ferguson (B.S. 1956).....San Francisco
Kay Denise Helman (B.S. 1956).....Manteca
Roberta Claire Herman (B.S. 1956).....Woodland
Beverly Gayle Hettich (B.S. 1956).....Big Sur
Wilma Hansen Kraus (B.S. 1956).....Patterson
Carol Ramona Larsen (B.S. 1956).....San Francisco
Evelyn Jean Lowry (B.S. 1956).....Redding
Mary Parker McCarthy (B.S. 1956).....Morenci, Arizona
Carol Olsen O'Reilly (B.S. 1956).....Los Gatos
Stephanie Sue Pearl (B.S. 1956).....San Francisco

Dorothy Hardie Regan (B.S. 1956)	San Francisco
Marjorie Palmer Steinmetz	Lynwood
Dora Lou Moore Stice (B.S. 1956)	Los Gatos
Joneen Tetterer (B.S. 1956)	Beverly Hills
Hatsue Watanabe (B.S. 1956)	Kahuku, Territory of Hawaii
Annie Liu Worth (B.S. 1956)	San Francisco
Lorraine Karlotski Young (B.S. 1956)	Castro Valley

DEGREES CONFERRED

SCHOOL OF MEDICINE

The Degree of Bachelor of Science in Physical Therapy upon

Barbara Joan Betka	Burlingame
Donna Maria Bianco	Bakersfield
Jean Ann Biddison	Oakland
Nancy Carolyn Blackett	Mill Valley
Dora Bernice Cochrane	Oakland
Nancy Abbott Crum	Piedmont
Jean Adrianna Doolittle	San Francisco
Yvonne Frances Edwards	Oakland
Betty Victoria Fong	Oakland
Kay Nancy Helgesson	San Francisco
Janice Lee Hunt	Pepperwood
Hildred Louise Jensen	Berkeley
Mary Darlene Little	Lewiston, Idaho
David Antonio Lopez	Selma
Nancy Jean Lund	Salinas
Bonnie Lee Morrison	San Diego
Selma Polonsky	San Francisco
Virginia Corbin Post	Berkeley
Janice Joy Robbin	San Mateo
Sheila Freis Steele	Los Angeles
Elise Abrahams Stone	San Francisco
Eleanor Ruth Tarlow	Burlingame
Idell Rosenthal Weiss	San Francisco

COLLEGE OF PHARMACY

The Degree of Bachelor of Science in Pharmacy upon

Steven Ralph Abrams	San Francisco
Gordon Frank Andersen	North Sacramento
Gus Antonis	San Francisco
Kenneth Gordon Arnold	Paso Robles
Norman Andrew Ashcraft	Oakland
Barratt Edwin Bailey	Quincy
James Anthony Belka	Concord
Hubert Shiu Chan	Oakland
Jerome Chan	San Francisco
David Chasuk	Albany
Galen Chong Chow	San Francisco
Marvin Henry Daniels	Oakland
Robert Hoffmann Day	Jackson
Russell Eugene Dieter	Wasco
Sherman Don	Porterville
Ronald Stanley Duer	Chico
Lois June Dutra	Merced
John Justin Eshleman (A.B. Stanford University 1950)	Berkeley
Richard Irwin Fox	San Francisco
Emerson Henry Froese	Wasco
Fusatoshi Fujimoto	San Diego
*Dwight Roy Fussell	San Francisco
William Gellen	Los Angeles
Norman Irving Ginsberg	Los Angeles

* Died June 8, 1956.

Donald Leland Girard	Martinez
Melvin Goldfarb	Venice
Rudolph Ernest Harrich	San Francisco
Richard Thomas Hartry	Winnipeg, Manitoba, Canada
Eugene Donald Haselkorn	Santa Monica
Albert Juey Hum	San Francisco
Howard Laurence Johnson	San Lorenzo
Roderick David Jones	Oakland
Harriet Jue	Oakland
Harry Kamian, Jr.	Oakland
Ronald Lynn Kelley	Oceanside
Helen Kessler	San Francisco
Glenn Isao Kiyama	Sacramento
Hisashi John Kobayashi	San Francisco
Roy Leon Koss	San Francisco
Walter Gilmar Larsen	San Francisco
Robert Bee Lee	Oakland
Morton Roy Leiter	Pismo Beach
John Elliott Longacre	Whittier
Ernest Vega Lozano	Santa Maria
Alfred Walker Ludwig	San Francisco
Robert Henry McKay	Pine Valley
Clarence Daniel Martin	Cayucos
Robert LeRoy Masse	Richmond
Frank Winfield Milliken	San Francisco
Alexander Raul Monroy	San Francisco
Robert John Moretto	San Francisco
William Takeo Nakahara, Jr.	San Francisco
Philip Sherman Newman	South San Francisco
Patricia Sue Otte	Oakland
Robert Dean Owen	Visalia
Thomas Bernard Rafferty	Porterville
Richard Eugene Rogers	San Bernardino
Milton Joseph Rose	Centerville
Morris Rosnow	San Francisco
John Cadwell Serley	Oakland
Richard Anthony Silva	San Jose
Glenn Franklin Spaulding	Richmond
Richard Mahlum Stanhope	Alameda
John Frederick Storz	Woodland
Robert David Tobenkin	Berkeley
Anthony Gilbert Vierra	Tracy
Matthew Joseph Vuksnich, Jr. (A.B. Stanford University 1949)	San Francisco
Louis James Wagner	Mountain View
Carl Leon Walker	Tulare
Joe Young	San Francisco

COLLEGE OF DENTISTRY

The Degree of Bachelor of Science upon

Eleanor Allen	El Segundo
Emily May Chin	Marysville
Beverly Anne Cole	San Francisco
Charlotte Ann Crain	San Jose
Yvonne Shirley Creighton	Fresno
Barbara LaVonne Dohm	Santa Ana
Robert Gerald Dunkel	Santa Rosa
Margaret Ann Everest	Pleasant Hill
Adrienne Sylvia Farber	San Francisco
Gretchen Heysel	Santa Ana
Marilyn Heinbockel Payne	Alameda
Carol Elizabeth Persson	San Francisco
Adrienne Burton Smith	San Francisco
Helen Mannshardt Thomas	Oakland
Sue Lundy Tomer	Lafayette
Yoshiko Lynn Yokouchi	Oakland
Geraldine Ruth Zeis	San Leandro

HASTINGS COLLEGE OF THE LAW

The Degree of Bachelor of Laws upon

Donald Hadley Albrecht	San Carlos
LeRoy James Amaral (A.B. Stanford University 1951)	Pleasanton
Eugene Charles Ashburn (A.B. San Jose State College 1953)	Marysville
Don Arlen Augustine	San Diego
Edmund August Bacigalupi (B.S. University of San Francisco 1950)	San Francisco
Howard Robert Benson (B.S. 1949)	Hayward
Leigh Marvin Brilliant (A.B. 1953)	Berkeley
Marvin James Christiansen (A.B. University of Iowa 1951)	San Francisco
Antone George Cincotta, Jr. (B.S. University of San Francisco 1951)	San Francisco
Charles Hugh Clifford (B.S. University of San Francisco 1951)	San Francisco
Harrison Finley Comstock	Santa Rosa
Bob Everet Coyle (A.B. Fresno State College 1953)	Fresno
Duane Woodward Dresser (B.S. 1950)	San Francisco
Irvine Peterson Dungan (A.B. College of Wooster 1950)	San Francisco
Joseph Anthony Filippelli (B.S. LeMoyné College 1953)	San Francisco
George Foley	Las Vegas, Nevada
Daniel Francis Gallery	San Francisco
Franklin Ogden Grady (A.B. Syracuse University 1949)	San Francisco
Jack Haddad	San Francisco
John Loren Hartman (A.B. 1952)	San Francisco
Herbert Gaius Hawkins (A.B. Columbia University 1950)	San Francisco
Louis Francis Hawkins	San Francisco
Harry Wallace Heid (A.B. 1950)	Napa
Lloyd Hinkelman (A.B. Stanford University 1953)	Los Angeles
Frank Emmett Howard, Jr. (B.S. 1950)	Oakland
Edward Cahoon Keller (A.B. Stanford University 1949)	Piedmont
Louisa Rose Lindow (A.B. University of Colorado 1944)	San Francisco
Bernard Patrick McCullough (B.S. University of Santa Clara 1949)	Hollister
Robert John MacDonald (B.S. University of Scranton 1950)	Burlingame
Thomas Bruce McGuire (B.S. 1950)	San Francisco
Phyllis Devon MacKay (A.B. 1953)	Piedmont
Paul Alvin Mansfield	San Francisco
Ollie M Marie-Victoire (A.B. Denver University 1946)	San Francisco
Edward Earl Marsh, Jr.	Daly City
George Richard Moscone (A.B. College of the Pacific 1953)	San Francisco
Jack A Otero (B.S. University of San Francisco 1950)	San Francisco
Melville Owen (A.B. Principia College 1953)	Mill Valley
David Wayne Packard (B.S. Western Illinois State College 1951)	San Francisco
James Perry (A.B. St. Thomas College 1951)	San Francisco
Louis Stephen Porter	El Cerrito
Henry Allen Poy, Jr. (A.B. Claremont Men's College 1950)	Berkeley
Hugh Lawson Preston (A.B. 1953)	San Francisco
Harry Chester Rogers	San Francisco
Morris Max Sherr (A.B. San Jose State College 1951)	Modesto
Walter Gordon Shore	San Francisco
Richard Joseph Siggins (A.B. St. Mary's College 1949)	San Francisco
Jack Carl Stevenson	Baldwin Park
Frederick James Titcomb (A.B. State College of Washington 1948)	San Francisco
Jane Louise Van Hook (B.S. Samuel Houston College 1944)	Oakland
Frank Joseph Vasquez	Lodi
Frank Edward Wyland, Jr.	San Francisco
Alexander Benedict Yakutis	San Francisco
Albert Michael Zecher (B.S. University of San Francisco 1953)	San Francisco

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

Ronald Arvi Ahonen	Berkeley
Henry S Ang	Manila, Philippine Islands
Richard Couch Anthony	Oakland
Raleigh Maxwell Audette	Oakland
Clark Aylsworth	Kansas City, Missouri
Gordon Stanton Baca	Oakland

Roger John Baccigaluppi	Burlingame
Alexander Barges	Venice
David James Barry (A.B. Stanford University 1953)	San Marino
Robert Edward Bates	Sacramento
Ernest Howard Batt	San Francisco
Robert Le Roy Bayler	San Francisco
LeMoin Charles Beckman	Lodi
Morton Pritchett Beebe	Piedmont
William Edward Beeson	Pasadena
Jay Robert Begun	San Francisco
Richard Ralph Best	Ventura
Michael Bezazian	San Francisco
Eric Blythe Biedermann	Long Beach
Leon Myron Blum	San Francisco
Ray G Borean	Rodeo
John Bernard Bowron	Orinda
John McGregor Brough	Piedmont
Hugh David Brown	Oakland
Alene Veron Burke	Whittier
Robert Ennis Caine	Studio City
Doris Webber Carlston (A.B. 1953)	El Cerrito
Ernest Koon Chan Ching	Honolulu, Territory of Hawaii
Albert George Chisholm	Burlingame
Keith Chun	Locke
Robert Granderson Clapham	Palo Alto
Gene Robert Clements	Richmond
Loretta Jane Collins	Placerville
Robert Lincoln Coonce	Los Gatos
Ralph Calvin Crouse	Long Beach
Walter Bernard Dachsteiner	Monrovia
Don Henry Davis	Santa Rosa
Robert Francis Day	Berkeley
Ann Marie Dellepiane	San Francisco
Edward Peter DeMatei	Millbrae
David Earl Dezell	El Cerrito
Jack Donald Dokey	Stockton
Paul Holmes Douglas (A.B. San Francisco State College 1954)	San Francisco
Carson Bailey Duke	Concord
Jerry Carl Dusthimer	San Francisco
Douglas McRae Egan	San Francisco
Robert Armitage Ellsworth	Pasadena
Thomas Clive Evans	El Cerrito
Robin Hart Fairbairn	Orange
James Lawrence Faulkner	Berkeley
Ronald G Figel	San Francisco
Conn Francis Findlay	Belmont
Robert Berkeley Finn, III	San Rafael
Alroy M Flack	San Francisco
Frederick Wright Flowers	Oakland
Irwin Earl Forbes	Santa Cruz
Gordon Bennett Foster	Laguna Beach
George Carl Frederic	San Carlos
Allan Charles Frerichs	Oakland
Edward Christopher Garvey	Altadena
Andrew Wah Gee	San Francisco
Frederick Bertram Gillette	Los Angeles
Bruce Ian Goldman	San Francisco
Larry George Goldsborough	Oakland
Patricia Ellen Gregory	Berkeley
Elmer Thomas Grimes	Lafayette
Sheldon Harold Grossfeld	San Francisco
Mustafa Kemal Gürbingöl	Ankara, Turkey
Ulf Percy Hamilton	San Francisco
Murray William Hannon	San Quentin
George Curtis Hensley, Jr.	Long Beach
Henry Mohr Hermann	San Francisco

Philip Burton Hill	Oakland
Irving Herman Hirsch	Oakland
James Evans Hodges	Berkeley
Donald Louis Holt	Stockton
Thomas Gerald Howard	Cotati
Timothy Crosby Howard	Piedmont
Merriman Nickles Hummel, Jr.	Piedmont
Robert Dale Huntsman	El Cerrito
Gerald Arthur Jacobs	San Mateo
Dennis LeRoy Johnson	Berkeley
Lawrence Charles Kamian	Oakland
Edward Stuart Kaplan	North Hollywood
Edward Tetsuji Kato	Seabrook, New Jersey
Patricia Jean Kearns	Sutter Creek
William Duffy Keller	Los Angeles
Raymond Morris Kellner	Santa Cruz
Robert Clay Knowlton	Oakland
Egon Horst Kraus	Santa Barbara
Steven Kroff	San Francisco
Richard Svend Kure	Kentfield
Michael Charles Lasky	San Francisco
David Stewart Leighton	Rodeo
Stuart Morton Levin	San Francisco
Harvey Carlton Levy	Oakland
Nicholas Alda Lewis	Charlotte, North Carolina
James John Linn	Oakland
Alice May Dixon Long	Wheatland
Wayne Eugene Loucks	Hayward
William Roland Loveless	Sacramento
Nelson Low	Napa
Barbara Jean McConnell	Oakland
Bruce Alan McCormick	Redwood City
Lloyd Earl McEwen	San Francisco
Robert Joseph McGregor	Chincoteague, Virginia
Paul Langston McKaskle	Sacramento
William Stuart McKee	Piedmont
Robert Bernard Madrid	San Lorenzo
Douglass John Mann	San Marino
Ralph Minas Margosian	Selma
Thomas Donald Marks, Jr.	San Diego
John Andrews Mason	Richmond
Dixie Lee Mathis	San Jose
Molly Margaret Merkley	Dixon
Franklin Victor Merlo	Chico
James Irwin Miller	Carmel
John Calvin Miller	San Francisco
John Chris Millis	Modesto
Jack Gustin Monroe	Santa Rosa
Thomas James Montgomery	Fort Bragg
Albert Louis Mooney	Alta Loma
Arthur Edward Mori	Roseville
William Alexander Morrell	Hayward
James Denman Morrison	San Diego
Karl Thompson Mosher, Jr.	Berkeley
Robert John Motta	San Leandro
Gerry G Mueller	Hellborn, Germany
Richard Welleley Myers	San Francisco
Sakae Nakayama	San Jose
Elaine Ruth Nearon	Atherton
Ilson Woo New	Mountain View
Dwight Ashley Newman	San Jose
Frederic Clyde Niles (A.B. Dartmouth College 1953)	Dunedin, Florida
Edward Marion Nissen	Oakland
Joseph Edward O'Brien	El Cerrito
Robert James O'Brien	Hempstead, New York
Griffith Francis Oliver, Jr.	Piedmont

Vernon Lee Osborn	Walnut Creek
Robert David Owens	San Lorenzo
Norman Mark Parsons	Lafayette
Douglas Keith Patton	Vallejo
Audrey Lee Pfeiffer	Lodi
Roy Polkinghorne	South Pasadena
Ronald Arno Polster	San Francisco
Henry Pong (B.S. 1947)	Oakland
David Lamar Porter	Ukiah
Toula Poulos	Oakland
Charles Edward Quesnoy, Jr.	Oakland
Gordon Lee Ragan	Berkeley
Lee Beryl Ragins	Los Angeles
Timothy John Reid Railton	Berkeley
Gerald William Reiche	San Carlos
Jennings Le Grande Reveley	Riverside
Robert Allan Rives	Anaheim
Alexander Allan Robichek	Oakland
John Richard Robins	Albany
Donald Wilson Robinson, Jr.	Placerville
Frank Laedlein Robinson, Jr.	Berkeley
Gerald Ross Rodder	Fresno
Eugene Herbert Ross	Blythe
Fredric Harold Rubel	San Bernardino
Robert Roy Rugani	San Francisco
John Wynkoop Russell	Oakland
William Edmund Russell, Jr.	Oakland
Henry Ants Saar	Oakland
Frederick Anthony Schooley	Stockton
Robert Remsen Schroll	San Marino
Donald Morton Schwartz	Oakland
Ernest Alvin Sells	Chattanooga, Tennessee
John Stanley Shafer	Oakland
Ford Grant Shaffer, Jr.	Woodland
Richard Maynard Shulman	San Francisco
Stanley Irwin Siegal	Los Angeles
Raymond Lloyd Silvera	San Leandro
Ronald Murvin Sinclair	Sacramento
Don Modrall Sisk	Berkeley
Ellis Eaken Sjöberg	Oakland
Alan Keith Snell	San Francisco
Dale Wesley Sobek	Oakland
Frederick Leonard Sorkin	Santa Monica
David Edward Spence	Oakland
Marion Janet Staerkel	Altadena
Walter Wayne Stark	Dixon
Sara Rosnow Starr	San Francisco
John Marvin Steen	Clearlake, Washington
Thomas James Steen	San Mateo
Philip Hamilton Stephens	San Francisco
Donn Douglas Stevens	Alameda
John Charles Stooob	San Francisco
Otis Leslie Stroud	Gardena
Frank Keith Stuart	Ogden, Utah
John Evans Suhr	Piedmont
Carter Phillip Swenson	Los Gatos
Alan Rolph Symes	Piedmont
Eddy Sei Tanaka	Walnut Grove
John Marshall Tate, Jr.	Modesto
Donald Leroy Thomas	Freedom
William Edward Thomas	Oakland
Gordon Lewis Thorpe	Burlingame
George Osborne Todd, Jr.	Washington, Indiana
James Leroy Townsend	Wichita, Kansas
Clifford Edwin Tripp	Newport Beach
Donn Kenneth Trousdale	Oakland

Roger Patrick Trump	Oakland
William Bennett Tubbs	Salinas
Ira Kenneth Vantress, Jr.	Marysville
Marian Crampton Vantress	San Francisco
Allan Davis Wagener	Piedmont
James Dee Waters	Bakersfield
Milton S Weiss	Oakland
Charles Arthur Welsh	San Mateo
Peter K Wertheimer	San Francisco
Kathryn LaRae Wham	San Quentin
Bertram Charles Willoughby	Santa Barbara
Clarke Knyvet Wilson	San Fernando
Halleck Burles Wilson	Berkeley
Alvin Winetrub	San Francisco
Edwin Wong	San Francisco
Fred Kee Wong	Los Angeles
Robert Lee Wong	San Francisco
Philip Remington Wood	Berkeley
Charles Henry Wray	Coronado
Raymond Wayne Youmans	Concord

SCHOOL OF CRIMINOLOGY

The Degree of Bachelor of Science upon

John Robert Davidson (B.S. 1949)	Tulare
Joseph Orantes	San Francisco
Paul Wallace Schubert, Jr.	Berkeley
Robert August Tornberg	San Francisco
Fred Harvey Wynbrandt	Santa Monica

The Degree of Bachelor of Arts upon

Thomas Norman Bazeley	Berkeley
Barbara Doidge Beal	San Leandro
Jan Beck	Stockholm, Sweden
Nancy Lyle Bennett	Canoga Park
Melvin Gustav Berg	Inglewood
Kenneth Sherman Breman	Los Angeles
Jerry George Brown	Piedmont
Lester Edward Browning, Jr.	Fort Bragg
Robert Charles Bunker	Long Beach
Kay Lenore Chilquist	South Gate
Daniel E Cummins	South Gate
Paul Robert Dickey	Cool
Joan Elise Dwyer	Los Angeles
Kenneth Arthur Elvin	San Francisco
Michael de Armand Faraday	Ross
Thomas George Farnsworth	Richmond
Gretchen Schwieso Ferrin	Menlo Park
Neil Warren Fore	Lodi
James Sando Greco	San Francisco
George Thomas Hart	Hanford
Fay Hogoboom	Twain Harte
Robert Greeley Ingersoll	Berkeley
Eugene Vernon Luttrell	Oakland
Elaine Norma Oertel	Vallejo
Joan Arlene Pelkey	El Cerrito
Ralph Alan Rutledge	Colusa
Anthony Craig Smith	Sacramento
Earl Joseph Tomlinson	Napa
William A Underwood, Jr.	Downey
Warren Leonard Vandever	San Jose
Margaret Dorothy Vollmer	Lewiston, Idaho
Carol Mae Weinert	Beverly Hills
Edra Rose Young	Walnut Creek

SCHOOL OF FORESTRY

The Degree of Bachelor of Science upon

Don Ross Banks	Sacramento
Thomas Morrison Bouse	Los Angeles
Richard Warren Clabaugh	Berkeley
Peter Alfred Crebbin	Yreka
David Scott Dealey	Oroville
Charles Storrs Dickinson	Redondo Beach
Herbert Bismarck Foster, III	Berkeley
Henry Huntly Haight, IV	Oakland
Robert Warren Jessen (A.B. 1955)	Oakland
Elden Ronald Knauf, Jr.	Oakland
Martin Wallace Ladd	Oakland
Robert James McDonald	Hollywood
David Samuel Meyer	Glendale
James Robert Moorhead	Ontario
John Howard Razzeto	San Diego
Karl F Remy	Oakland
Roy Wayne Scott	Pittsburg
Lee Ancil Shugart	Glendale
David Noer Turner	Stanford
Harold Einar Waksdal	Oakland
Bruce Abbott Waldron	Alhambra
Allan John West	Long Beach

SCHOOL OF NURSING

CURRICULUM FOR UNDERGRADUATE STUDENTS IN NURSING

The Degree of Bachelor of Science upon

Elizabeth Marie Bear	San Francisco
Martha Jean Bender	Torrance
Ai-Ling Chang	Berkeley
Jean Isabelle Hardy	Sacramento
Janet Gillies Hurst (A.B. 1951)	Paterson, New Jersey
Marian Earlda Laughlin	Danville
Joelle Irene Nicholson	San Francisco
Joyce Denice Smith	Fontana
Marjorie Palmer Steinmetz	Lynwood
LaZelle Westbrook	San Francisco

CURRICULUM FOR GRADUATE NURSES

The Degree of Bachelor of Science upon

June Camille Abbey	Richmond
Betty Louise Baldwin	Springfield, Ohio
Betty June Clark	Richmond
Rebecca Janke Cooper	San Francisco
Althea Healzer Day	Oakland
Edythe Mae Dyer	San Francisco
Sally Ann Groenewold	Sibley, Iowa
Betty June Melson Guittard	Fresno
Ruth Matthew Hannan	Pueblo, Colorado
Donna Elizabeth Harris	Los Angeles
Shirley Dixon Hepburn	Sebastopol
Marian Irvine	Daly City
Dorothy Barbara Keller	Atlantic Highlands, New Jersey
Beverly Renee Knapp	San Diego
Naomi Belle Lydia	Oakland
Genevieve Margaret Morrisette	Berkeley
Ruby Dallas Reece	Oakland
Louise Caroline Rozario	San Jose
Lillian Araneta Sanchez	Berkeley
Ethel Mae Thomas	Berkeley
Susan Jane Thompson	Mill Valley

SCHOOL OF OPTOMETRY

The Degree of Bachelor of Science upon

Seth Leslie Arnold	San Francisco
Peter Harmon Catanich	San Francisco
Clifford Karl Chang (A.B. 1954)	San Francisco
Donald Emin Chelgren (A.B. San Jose State College 1950)	Turlock
Harold LeRoy Courtney	Whittier
Gerald Aaron Gerash	Los Angeles
Howard Allen Globenfelt	Fresno
Carl Alfred Grondona, Jr.	Oakland
Kenneth Bun Hoh	Oakland
Neal Slater Jensen (A.B. University of Washington 1949)	Yakima, Washington
Donald Gene Mitchell (B.S. San Diego State College 1952)	San Diego
Richard Wallace Neumaier	Long Beach
Lawrence Kinto Onitsuka	Salinas
Donald Harmon Reife, Jr.	Oakland
Donald William Roberts	Richmond
Ira Leonard Roland	Palo Alto
Don Frederic Saba	Sacramento
John Leslie Spear, Jr. (A.B. 1954)	Santa Rosa
Sheila Betty Zito	San Francisco

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

Marian Barger	Orange
Lynda Lee Bradford	San Rafael
Estelle Brown	Gardena
Marlene West Campbell	San Diego
Gordon Curey Coleman	Oakland
Noemi Isabel Delvalle	Panama City, Panama
Eva Schneider Ellis	Santa Rosa
David Charles Gan	Berkeley
Eugene Ray Green	Antioch
Janet Louise Hitchcock	Santa Rosa
Homer Lawson Jenkins	Berkeley
James Joseph Jurik	San Francisco
Donna Carmel Marie Lang	Novato
Margery Laverne Lawless	Oakland
Arthur Martin Marthinsen	San Francisco
Iris Ann Mello	Berkeley
Joan Marilyn Mets	Berkeley
Mary Kikuko Motoyama	Lodi
Tom Iwao Ohgi	San Francisco
Nobuko Maile Okano	Morgan Hill
Charles Edward Pusey	Oakland
Joan Ledgerwood Ruprecht	Soquel
Walter Kurt Schoepholz	San Francisco
Jason G Som	Oakland
Barbara Lee Thompson	Sherman Oaks
Osamu Sammy Yamauchi	Berkeley
Beverly Zoe Zimmerman	Ducor

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

La Nelle Marie Bainer	Davis
Shirley Anne Borglin	Lafayette
Tully Bowman	Berkeley
Birda Lee Buchanan	San Diego
Patsy Norberg Clark	San Diego
Joyce Roanne Conklin	Berkeley
Ralph Irwin Crane (B.S. 1951 and M.B.A. 1953 University of California, Los Angeles)	Los Angeles

Robert Lester Dahlquist	Riverside
Grace Swift Day	Spokane, Washington
Patricia Ema Demsey	Berkeley
Billie Anne Fagundes	Livermore
Esperanza Rodriguez Floro	Manila, Philippine Islands
Fred Osamu Furuichi	Los Altos
Carolyn Ruth Geisler	Englewood, Colorado
Lowell Duane Glenn	Exeter
Margaret Kathryn Harris	Oakland
Robert Tadashi Hatamiya	Marysville
Martha Harris Heim	Hollister
Margaret Jean Kleeman	Oakland
Dorothy Jane Leach	Vallejo
Marianne Austin McDermon	Berkeley
Jane Ann MacFadden	Los Angeles
Nancelee MacKay	Pasadena
Donald Lee Mitchell	Vernalis
Eric Dudley Murray	Walnut Creek
Arturo Octavio Novoa Zafartu	San Francisco
Michael Robert Painter	Pasadena
Diane Ellen Reynolds	Berkeley
Eugene Alfred Rosenberg	Oroville
Daniel Rubenstein	Los Angeles
Lothar Armando Schipanski	San Mateo
Arpie Kouyoumjian Shamlan	San Francisco
Edwin Morris Soderstrom, Jr.	Merced
Helen Tang	Gilbert, Arizona
Doris Williams Thebeau	Whittier
Douglas Paul Thompson	Murrieta
Bruce Pernau Towne	Walnut Grove
Alice Toy	San Francisco
Evelyn Lee Venstrom	Berkeley
Sharlene Marie Willhide	Palo Alto

COLLEGE OF ARCHITECTURE

The Degree of Bachelor of Arts upon

Jack Axelrod	Los Angeles
Osvaldo Benito Bedini	San Juan, Argentina
Sebastian Joseph Bordonaro	Culver City
William Arthur Churchill	Hollister
Donald Grant Clark	Oakland
Yves Denis	Paris, France
Forrest Jean Duranceau, Jr.	Gridley
Rodney Frank Friedman	Beverly Hills
Richard Lemuel Hanna	Staten Island, New York
Sherry Ann Hanna	Bakersfield
David Hatfield	San Bernardino
Pauline Hirth	Caracas, Venezuela
Thomas Kuo-Shyang Hsieh	Kaohsiung, Formosa
Yoshio Ted Itaya	Stockton
Raymond McCormick Kennedy, Jr.	Glendale
David Kenshin Kikuchi	San Diego
Herbert Dean Kosovitz (A.B. University of Kansas City 1951)	Kansas City, Missouri
Eugene Jenó Lorincz	Duarte
Luel A Marshall	Palo Alto
Richard Lee Minner	Bakersfield
Mario Alberto Piche	San Salvador, El Salvador
James Edward Prather	Adams
Twain Whitman Reed	Berkeley
Raymond Clifford Rivamonte	Richmond
Igor Zygmund Sazevich	San Francisco
Mitsuru Tada	Los Angeles
Yoshiaki Tajima	San Francisco
Frank Tomsick	Oakland

Stanley Kwai-Kwong Tong	Hong Kong, China
Peter Francis Walz	Bismarck, North Dakota
Lynn Edward White	Oakland

COLLEGE OF CHEMISTRY

The Degree of Bachelor of Science upon

David Lee Allred (B.S. 1953)	Chemical Engineering	San Francisco
Lawrence Baker Anderson	Basic Chemistry	Glendale
Marilyn Elinor Angel	Basic Chemistry	San Francisco
Herbert Reed Ballinger (B.S. 1951)	Chemical Engineering	Oakland
Buford Francis Barnett	Basic Chemistry	Hanford
George Albert Boswell	Basic Chemistry	Hayward
James Edgar Buhn	Basic Chemistry	Vallejo
Fred Noble Davenport	Chemical Engineering	Palo Alto
Sumner Richard Ely	Chemical Engineering	Los Angeles
Joanne Lanier Facaros	Basic Chemistry	Pittsburg
Andres Tulagan Ferrer, Jr. (A.B. University of Hawaii 1952)	Chemical Engineering	Berkeley
John William Flynn	Chemical Engineering	San Francisco
Don Dale Gilbert	Basic Chemistry	Watsonville
Richard Kenneth Griep	Chemical Engineering	Menlo Park
Andrew Harautuneian	Chemical Engineering	Fresno
Terry Dempster Harrison	Chemical Engineering	Berkeley
John Palmer Hohmann	Chemical Engineering	Oakland
Frank Howard	Basic Chemistry	Oakland
Laurence Dean Huestis	Basic Chemistry	Newcastle
Thomas Cessel James	Basic Chemistry	Santa Ana
Weston Bert Kendall	Chemical Engineering	Riverside
William Francis Kennerley	Basic Chemistry	Concord
Frank James Kilzer	Basic Chemistry	Milwaukee, Wisconsin
Ming-Gon Lai	Basic Chemistry	Oakland
Robert Milton Latimer	Basic Chemistry	Berkeley
Richard Graham Lawton	Basic Chemistry	Oakland
James Ben Mon Lim	Chemical Engineering	San Francisco
Robert Lim	Basic Chemistry	Marysville
Gary Emmet Maciel	Basic Chemistry	Livermore
Daniel Bruce Menzel	Basic Chemistry	Berkeley
Robert Louis Montgomery	Basic Chemistry	Alameda
Edwin Lyle Motell	Basic Chemistry	Richmond
Sirouss Nownejad	Chemical Engineering	Tehran, Iran
Raymond Yukio Okamura	Basic Chemistry	Fowler
Llad Phillips	Basic Chemistry	Perris
Jan Polissar	Basic Chemistry	San Francisco
Francis Xavier Powell	Basic Chemistry	Half Moon Bay
Betty Jean Ragle	Basic Chemistry	Rio Linda
Lanny Lee Replogle	Basic Chemistry	Hayward
Oktay Sinanoğlu	Chemical Engineering	Ankara, Turkey
Gary Angus Smook	Chemical Engineering	Berkeley
Mikio Suzuki	Chemical Engineering	San Francisco
Taghi Mohammad Vahedi (A.B. San Francisco State College 1953)	Chemical Engineering	San Francisco
Henry van Galen	Chemical Engineering	San Francisco
Vilmar Varend (B.S. 1952)	Chemical Engineering	Augsburg, Germany
Lee Wong	Basic Chemistry	Oakland
Roger Maurice Wright	Chemical Engineering	Long Beach

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

Jay Linn Adams	Engineering Physics	Lake Forest, Illinois
George Bernard Almeida	Electrical Engineering	Ceres
George Albert Amaro	Civil Engineering	Sacramento
Victor Conrad Amerio	Electrical Engineering	Oakland
Gerald St. Ores Andersen	Electrical Engineering	Alameda
Marvin Anmuth	Electrical Engineering	San Francisco

Richard Robert Ashman.....	Electrical Engineering	San Francisco
Arthur Leroy Austin.....	Mechanical Engineering	Bakersfield
Leonard Azar	Electrical Engineering	Redondo Beach
Rahmat Ali Aziz.....	Electrical Engineering	Lahore, Pakistan
Stanley Clair Baker.....	Electrical Engineering	Bieber
Newton Evans Ball.....	Electrical Engineering	Alpine
William Charles Barnett.....	Electrical Engineering	Pomona
William Sven Barquist, Jr.....	Electrical Engineering	San Jose
Frank Barrera	Mechanical Engineering	Oakland
Robert Charles Bates.....	Mining Engineering	Pensacola, Florida
Donald Edward Beck	Electrical Engineering	Oakley
Asael Evan Bell.....	Electrical Engineering	Santa Monica
Bennett Samuel Bibel	Electrical Engineering	San Francisco
Roby Lee Blessing, Jr.....	Electrical Engineering	San Francisco
Donald Nelson Booth.....	Mechanical Engineering	Los Angeles
Jack Bradley	Electrical Engineering	Red Bluff
William Bruce Bridges.....	Electrical Engineering	Inglewood
Robert William Briney.....	Petroleum Engineering	Long Beach
Larry Kim Brodersen.....	Electrical Engineering	Concord
Hartmond David Brooks, Jr.....	Mechanical Engineering	Adelanto
John Arthur Brotherton.....	Electrical Engineering	Phoenix, Arizona
James Edward Brown.....	Engineering Physics	Oakland
Melvin Brown (A.B. 1949).....	Electrical Engineering	Pacoima
Clark Lannerdahl Brundin	Mechanical Engineering	Rivera
Robert Alan Burgess	Electrical Engineering	Sacramento
Charles Gorwood Bursell	Petroleum Engineering	Long Beach
Joseph Wheeler Burton (A.B. Santa Barbara College 1949)....	Civil Engineering	Berkeley
Herman Aristides Bustamante	Electrical Engineering	San Francisco
Walter Richard Butler.....	Electrical Engineering	Imperial Beach
Francis Russell Calton.....	Civil Engineering	San Jose
Albert Marion Caracausa (A.B. 1949)	Mechanical Engineering	Anaheim
James Richard Casarotti.....	Mechanical Engineering	Petaluma
Joseph Cefali	Mechanical Engineering	Los Angeles
Samuel Elmer Chambers.....	Electrical Engineering	Rosemead
David Chang	Electrical Engineering	Oakland
Victor Leroy Chinn.....	Industrial Engineering	Oakland
Robert Paul Clark.....	Civil Engineering	Long Beach
Thomas Joseph Coakley.....	Mechanical Engineering	Oakland
Harold Craig Coffee, Jr.....	Civil Engineering	Daly City
Daniel Preston Cole.....	Civil Engineering	Oildale
Allan Wayne Collins	Civil Engineering	Alhambra
Richard Lawrence Comstock	Electrical Engineering	Santa Cruz
George Edmond Conant	Civil Engineering	Keyes
Benjamin Vess Connor	Electrical Engineering	South San Gabriel
Joseph Elbert Cook.....	Mechanical Engineering	Chico
William Arthur Corn.....	Civil Engineering	Benicia
Juan Carlos Cortina Peña.....	Petroleum Engineering	Jalapa, Veracruz, Mexico
Garth Ellis Cummings.....	Mechanical Engineering	San Leandro
Leo Dabaghian	Mechanical Engineering	Dinuba
Jack Tynan Davis.....	Electrical Engineering	Los Angeles
Laurence Richard Davis.....	Mining Engineering	Paso Robles
Robert Dean Davis.....	Mechanical Engineering	Berkeley
Hadayat Dehesh	Mechanical Engineering	Tehran, Iran
Creighton Arthur Depew.....	Process Engineering	San Bernardino
Daniel J Dere (B.S. 1951).....	Electrical Engineering	San Francisco
Clarence Walter Diem, Jr.....	Electrical Engineering	Philadelphia, Pennsylvania
Russell Arnold Dilley.....	Mechanical Engineering	Susanville
John Ward Duckett.....	Industrial Engineering	San Marino
Donald Robert Dudley.....	Electrical Engineering	Berkeley
Robert Henry Duke.....	Mechanical Engineering	Albany
Dimitri Alexander Dutoff	Electrical Engineering	San Francisco

Richard Audran Early	Engineering Physics	Eureka
Ardith Wayne Eaton	Electrical Engineering	San Francisco
Don Earl Edmond	Mechanical Engineering	La Habra
Donald Muth Elliott	Mechanical Engineering	Oakland
Baha Ed-din Muhy Ed-din Elmuzaffar (A.B. 1950)	Mechanical Engineering	Jerusalem, Israel
Ashley Francis Emery	Mechanical Engineering	Brisbane
George Facaros	Metallurgy	Steubenville, Ohio
William Sharp Floyd, Jr.	Industrial Engineering	San Francisco
Robert Henry Forster	Electrical Engineering	Hawthorne
Ullrich Albert Foth	Civil Engineering	Los Angeles
Robert Bruce Fridley	Agricultural Engineering	Carmichael
Albert Lowell Fritts	Mechanical Engineering	San Francisco
Ezra Leonard Fruchter	Electrical Engineering	Los Angeles
Roger Grattan Fry	Civil Engineering	Sacramento
John Gary Fulbright	Industrial Engineering	Inglewood
William Richard Gage, Jr.	Electrical Engineering	Oakland
Maurice Galasso	Mechanical Engineering	Pacific Grove
Arthur Garabedian	Electrical Engineering	Los Angeles
Edwin Ray Geiger	Industrial Engineering	Arcadia
Richard Edward Gleerup	Electrical Engineering	Oakland
Robert Lawrence Goggins	Petroleum Engineering	Santa Monica
Carleton Wilbor Gooderham, Jr.	Industrial Engineering	Oakland
Bruce Edward Gordon	Electrical Engineering	Chico
James Allen Graham	Electrical Engineering	Long Beach
Charles William Griffin	Electrical Engineering	Palo Alto
Bruce James Gunderson	Civil Engineering	San Francisco
Harold Robert Hall	Electrical Engineering	Oildale
John Johnson Hallenbeck, Jr.	Civil Engineering	Oakland
William Hant	Electrical Engineering	San Francisco
Haruo Harada	Mechanical Engineering	Los Angeles
Reed Brown Harker	Electrical Engineering	Oakland
(B.S. Brigham Young University 1947)		
James George Harper	Metallurgy	San Francisco
David Lawrence Harris	Mechanical Engineering	Arlington
William Burton Harris, Jr.	Electrical Engineering	Knights Landing
Lawrence Hasdorff	Electrical Engineering	San Antonio, Texas
James Michael Haughian	Mechanical Engineering	Berkeley
Joseph Louis Heim	Electrical Engineering	Long Beach
Sydney Sylvan Helmus	Mechanical Engineering	San Francisco
Alan Frederick Hendrickson	Civil Engineering	San Francisco
John Holzman	Electrical Engineering	Los Angeles
Richard Alan Hubach	Engineering Physics	Walnut Creek
Henry Hucko	Electrical Engineering	El Cerrito
Manuel Hunter	Mechanical Engineering	Riverside
Michael Garwood Hurley	Electrical Engineering	San Francisco
Izu Iwamoto	Electrical Engineering	Berkeley
William Teruyuki Iwamoto	Civil Engineering	Monterey
Robert Sydney Jackson	Mechanical Engineering	Berkeley
Kenneth Elmer Jacobs	Engineering Physics	Los Angeles
Andrew Jean	Civil Engineering	San Francisco
Earl John Johnson	Electrical Engineering	Salinas
Mike Alex Jordan	Civil Engineering	Oakland
Nay Leung Jue	Civil Engineering	Los Angeles
Ingmar Nils Kallin	Mechanical Engineering	San Francisco
Paul Iwao Kawano	Mechanical Engineering	Delano
Robert Edward Keller	Mechanical Engineering	Lafayette
Ralph Michael Kelly	Petroleum Engineering	North Hollywood
John William Kern	Engineering Physics	Duarte
Clinton Samuel King, Jr.	Civil Engineering	Portsmouth, Virginia
Paul Roland King	Mechanical Engineering	San Francisco
Richard John King	Civil Engineering	San Francisco
Robert Herman Klamt	Engineering Physics	Yuba City
Frans Klaver	Civil Engineering	San Francisco
James Henry Kleinfelder	Civil Engineering	Stockton
Raymond Leonard Knapp	Mechanical Engineering	Forest Knolls

Warren Straight Knapp	Electrical Engineering	Albany
Ted Eugene Kolb	Electrical Engineering	Port Chicago
Eugene Clarence Kozlowski	Petroleum Engineering	Long Beach
Eugene Albert Kreb	Civil Engineering	Cedar Falls, Iowa
Peter Ashton Krenkel	Civil Engineering	San Francisco
Lawrence Anthony Kruse, Jr.	Civil Engineering	San Francisco
Louis Habib Kurkjian	Electrical Engineering	Los Angeles
David Walker Lambert	Electrical Engineering	Lawndale
Lloyd Maxwell Langlie	Civil Engineering	Redlands
Edward Andrew Lark	Mechanical Engineering	San Francisco
John Eugene Lark	Electrical Engineering	San Francisco
Merle Edgar Larrabee	Civil Engineering	Modesto
Gordon Robert Lavinger	Mechanical Engineering	Rodeo
John Tikhon Lavrischeff	Electrical Engineering	Sebastopol
Robert Glen Lawton	Mechanical Engineering	San Bernardino
Duane Stuart Leetzow	Petroleum Engineering	Fontana
Donald Eugene Lehmer	Electrical Engineering	Berkeley
Alan Johnstone Leighton	Petroleum Engineering	Pacific Grove
Ray Phillip Leister	Petroleum Engineering	San Francisco
Bob Theodore Leitner	Mechanical Engineering	Oakland
Victor Lew	Civil Engineering	New Haven, Connecticut
Henry Lim	Electrical Engineering	San Francisco
Marvin Robert Lindorf	Civil Engineering	Walnut Creek
Randolph Mason Lipelt, Jr.	Civil Engineering	Woodbridge
Richard Keith Livett	Mechanical Engineering	La Mesa
David Bothwell Logee	Electrical Engineering	Camas, Washington
Barry Vincent Long	Electrical Engineering	Long Beach
Roger Alvon Lowe	Civil Engineering	San Jose
Fred Edward Lusk, Jr.	Petroleum Engineering	Seal Beach
Cyrus William McBride	Electrical Engineering	San Leandro
Charles Rex McCardell	Mechanical Engineering	Brisbane
Earl William McCune	Electrical Engineering	Daly City
William Joseph MacIver	Civil Engineering	Bishop
Robert James McLean	Civil Engineering	San Leandro
Walter Marcus Maclean	Mechanical Engineering	Alameda
William Malcolm McNaughton	Civil Engineering	Los Angeles
Allison Jordan McNay, Jr.	Petroleum Engineering	San Carlos
George Maise	Mechanical Engineering	Beverly Hills
Robert Latimer Mancuso	Engineering Physics	San Francisco
Yoshiyuki Masuda	Civil Engineering	Long Beach
Ernest Caesar Megazzini	Electrical Engineering	Fresno
Barry Allen Mendoza	Electrical Engineering	San Francisco
Samuel Kiyoshi Mihara	Mechanical Engineering	San Francisco
Louis Washington Miles	Industrial Engineering	Fall Brook
Lester Richard Mitchell	Mechanical Engineering	El Segundo
William Ray Moon	Electrical Engineering	Caruthers
Roger Muldavin	Electrical Engineering	San Anselmo
Mataro Nakamura	Electrical Engineering	
Naalehu, Territory of Hawaii		
John Reginald Neelands	Electrical Engineering	Los Angeles
Gordon Glenn Nelson	Electrical Engineering	Berkeley
Richard Aaron Nelson	Electrical Engineering	Oakland
Ray Nishizaki	Electrical Engineering	Los Angeles
Andrew Toyoaki Nozaka	Metallurgy	Berkeley
Robert John O'Brien	Petroleum Engineering	Los Angeles
Alan Merwin Oleson	Mechanical Engineering	San Diego
William Letts Oliver, III	Mechanical Engineering	Piedmont
John Bernard O'Rourke	Electrical Engineering	San Francisco
Robert Lorain Orrick, Jr.	Electrical Engineering	Bakersfield
Yoshiki Oshima	Electrical Engineering	Palo Alto
Desmond Hamilton Owens	Industrial Engineering	Berkeley
Donald Edward Palmer	Mechanical Engineering	Berkeley
Herbert James Palmer	Electrical Engineering	Los Angeles
Marlin Clark Parks	Electrical Engineering	Martinez
Lowell Kenneth Patt	Civil Engineering	Reedley

Sterrett Theodore Perkins	Mechanical Engineering	San Mateo
Jack Larry Perrin	Electrical Engineering	Albany
Ronald Carl Peterson	Mechanical Engineering	San Mateo
Walter William Prue, Jr.	Electrical Engineering	Courtland
Peter Alvin Ralatos	Electrical Engineering	Berkeley
Donald Wilmer Range	Electrical Engineering	Merced
Ronald Lee Ray	Electrical Engineering	Manhattan Beach
Leonard Alan Rea	Mechanical Engineering	Glendale
(B.A.S., 1954)		
William Frederick Rector, III.	Mechanical Engineering	La Mesa
Allen Charles Remell	Mechanical Engineering	Richmond
Karl Gardner Reseck	Mechanical Engineering	Los Angeles
Walter Reynolds, Jr.	Electrical Engineering	San Jose
Robert Louis Ritchie	Electrical Engineering	Sharon, Massachusetts
Lloyd Howard Roberts	Civil Engineering	Richmond
Ivan Leo Roenigk	Civil Engineering	Morganville, Kansas
(B.S., United States Naval Academy 1949)		
Vahak Karekin Sahakian	Mechanical Engineering	San Francisco
John Thomas Salas	Electrical Engineering	Alameda
Severino Zamora Santos	Electrical Engineering	San Francisco
Edwin Richard Schelin	Civil Engineering	Oakland
Francis Joseph Schoelen	Mechanical Engineering	Red Bluff
Irving Albert Schroeder	Civil Engineering	Stockton
Ralph Leonard Schroeder, Jr.	Mechanical Engineering	Monrovia
John Rudolf Schwabacher	Industrial Engineering	San Francisco
Dean Seamount, Jr.	Electrical Engineering	Oakland
Jerry Bryce Shantz	Civil Engineering	Selma
Richard Lloyd Silveria	Industrial Engineering	Oakland
Richard Olin Simpson	Electrical Engineering	Kansas City, Missouri
John Irving Smith	Electrical Engineering	San Francisco
Thomas Franklin Snyder	Electrical Engineering	Auburn, Massachusetts
John Charles Solley	Electrical Engineering	Long Beach
Robert Allen Spry	Electrical Engineering	Albany
Norman Frederick Stellman	Electrical Engineering	Mill Valley
Freeman McKenzie Stephens	Electrical Engineering	Santa Ana
Charles Lee Stimmel	Mechanical Engineering	Avenal
Jackie Everett Stout	Mechanical Engineering	Oildale
Edward Leon Strong	Civil Engineering	Los Angeles
Lawrence Milton Struve	Electrical Engineering	La Habra
Malcolm Corohn Sullivan	Mechanical Engineering	Ryde
Mikio Suo	Petroleum Engineering	Fresno
David Theodore Swanson	Civil Engineering	Albany
Eugene Carl Swanson	Electrical Engineering	Ventura
Ben Edwin Talley	Mechanical Engineering	Bakersfield
Lonnie Fowler Tarver	Electrical Engineering	Del Paso Heights
Robert Leroy Taylor	Civil Engineering	Riverside
Ernest Emil Thiele	Industrial Engineering	Berkeley
Robert Guy Tingley	Engineering Physics	Huntington Park
(A.B. 1951)		
Roger Tokunaga	Agricultural Engineering	Yuba City
James Leong Tom	Mechanical Engineering	Oakland
Raymond Tom	Mechanical Engineering	Oakland
Harry Haruo Tomita	Electrical Engineering	Honolulu, Territory of Hawaii
Paul Hing Bor Tong	Civil Engineering	Oakland
Curtis Kenneth Townsend	Civil Engineering	Taft
Donald Gene Tronstein	Civil Engineering	Los Angeles
Homer Makoto Tsuda	Electrical Engineering	Florin
Kenneth Charles Tucker	Electrical Engineering	Martinez
Harold Tudor	Electrical Engineering	San Francisco
William Calvin Tumlin	Electrical Engineering	San Diego
Richard Cook Turke	Electrical Engineering	Visalia
Jerrold Chartres Turner	Civil Engineering	San Marino
Frank Toshio Ura	Electrical Engineering	Concord
Richard Ralston Vandervoort	Metallurgy	Los Angeles

Bachelors—Engineering; Assoc. in Arts—Letters and Science—June 79

Robert Mervin Vernon	Mechanical Engineering	El Cerrito
Walter Leland Von Flue	Mechanical Engineering	Kerman
Benjamin Tsutomu Wakabayashi	Mechanical Engineering	San Francisco
Philip C Warriner	Civil Engineering	San Jose
Stephen Francis Whisenand	Mechanical Engineering	Berkeley
Robert Whitelaw	Civil Engineering	El Centro
(B.S. United States Naval Academy 1950)		
William Edward Wiegand	Electrical Engineering	Pasadena
William Warren Wiesenfeld	Industrial Engineering	Berkeley
Ruel Franklin Williams	Metallurgy	Rosamond
Garth Hamilton Wilson	Electrical Engineering	Oakland
John Murray Wilson	Mechanical Engineering	Pasadena
Richard Townsend Winckler	Industrial Engineering	Santa Ana
(B.A. Pomona College 1952)		
Jack Albert Wolf	Mechanical Engineering	Fresno
Donald Guy Wong	Civil Engineering	San Mateo
Jack G Wong	Civil Engineering	Berkeley
(B.S. 1952)		
John Wong	Civil Engineering	Watsonville
James Ji-Tsung Woo	Electrical Engineering	San Francisco
Peter Ghormley Woods	Mechanical Engineering	Carmel
Robert Harold Wort	Mechanical Engineering	Huntington Beach
Dave Susumu Yamamoto	Civil Engineering	Sacramento
James Milton Yarnell	Electrical Engineering	Watsonville
Jimmie Richard Yee	Civil Engineering	Sacramento
William Raymond Young	Civil Engineering	Tracy
Sanvus Yuen	Mechanical Engineering	Oakland
Robert Lewis Zilm	Mechanical Engineering	Santa Cruz

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Gail Petronella Abele	Sandra Belle Berenson
Luise Norma Abramovice	Barbara Frances Bergen
Richard John Alan	Caroline Berger
Ida Jeannette Alter	Richard Earl Berger
Robert Victor Altieri	Arthur Thomas Berggren
Dolores Elvezia Ambrosini	Joyce Suzanne Berman
Sandra Lynn Anderson	Ronald Bruce Berman
Thomas Earl Anderson	Sandra A Berman
Claudia Mary Andruss	Doris Ann Bernadicou
Marian Elizabeth Antipa	Patricia Joanne Berry
Richard Tsuruo Arakawa	Constance Wilhelmina Best
Susan Marie Arbuckle	Elizabeth Ann Betts
Carol Jean Argue	Philip Andrew Bewley
Katherine Elaine Armstrong	Barbara Ann Binsacca
Kenneth Alfred Arndt	Janet Carolyn Bird
Marie Louise Arndt	Doretta Mary Bistor
Ray Austria	Margaret Caroline Black
Benilda Romelia Avendaño-Q	Margaret Jean Black
Reyna Marie Bacigalupi	Ann Elizabeth Blanchard
Eliane Bader	Judith Blum
Louise Alexander Baker	Ann Marie Boardman
Thomas Franklyn Baker	Melvin Jerry Bobier
Anne Elizabeth Baldwin	Jean Boeger
Patricia Ann Banach	Edward Adolph Boehler
Marguerite Paqui Barberat	Patricia Jane Bondesen
Fred William Baumeister	William Francis Borba
John Ronald Bean	Betty Lou Borg
Mildred Sylvia Beasley	Charli Eleanor Bottom
Jane Scofield Bell	Leatrice Boxerbaum
Nancy Elaine Belling	Margaret Rose Bracken
Elizabeth Anne Bellmore	Carol Virginia Brady
Susan Ann Benedict	Joan Ingrid Brandson
William Robert Benevento	Nancy Brecht
Donna Berg Benson	Jacqueline Brown
Richard Lee Benson	Lynn Brown

William Edward Brown
 George Theodore Bruns, Jr.
 Austin Emory Bryant
 Margery Buchtel
 Nancy Ellen Bunte
 Thomas Herbert Burcham
 Elsie Buriani
 Elizabeth King Burke
 Carla Brown Burmester
 Don Everett Burstein
 Irene Joan Bush
 John Frederick Butler
 Mavourneen Anne Byrns
 Yvonne Marie Cafasso
 Carolyn Cahill
 Aase Margrethe Cahling
 Arthur William Carlson, Jr.
 Edwin Otis Carlson
 Fanchon Patricia Carlaten
 Victoraine Agnes Carroll
 Neal Castagnoli, Jr.
 Alison Mary Castle
 Patricia Joan Cathcart
 Robert Alfred Champlain
 Carol Gloria Chan
 Shirley Christina Chan
 Mun Yup Chang
 Sarah Sui Kau Chang
 Robert Anthony Charlson
 John Andrew Church
 Clara Josephine Clark
 Judith Jean Clark
 Gail Whitney Clifford
 Olive Eleanor Hogan Clifton
 Marilyn Ann Coakley
 Leo Byron Coan
 Gordon Wayne Cole
 Suzanne T Collier
 Marilyn Jean Collins
 Richard Allen Comfort
 Kleanthy Condas
 Stephen Michael Copley
 Robert Mark Coppock
 Yvonne Albina Corsini
 Alan Mac Kenzie Craig
 Richard Howard Craig
 Evelyn Rey Craven
 Hazel Belle Crenshaw
 Nancy Anne Cupit
 Robert Guinn Currie
 Joy Dean Curtis
 Esther Fay Cywan
 Geraldine Ann Dahlman
 Lilli R Daniel
 Joan Lenore Dart
 Joyce Ann Daulton
 Herbert Sidney Davis
 Robert Leon Davis
 Thomas Houston Davis, III
 Jack Calvin Day
 Bennett Ray Dean
 Joy Mary De Benedetti
 Louise Marie de Cholnoky
 Ronald James De Fields
 Cecile Nanette De Luca
 Carolyn Demeter

Ellen Jewett Dent
 Joseph Francis De Rosa, Jr.
 Michael Reynold Descilo
 Kenneth Barrett Diamond
 Richard Diamond
 Alfred Gordon Dickerson
 Molly Kathleen Dikeman
 Larry Harrison Dismang
 Arlene Anne Dolve
 Joseph David Dominguez
 John Lawrence Dowdell
 Philip Mark Dowling
 Noël Dorothy Doyle
 Patricia Clyde Duff
 Charlotte Mayfield Dunn
 Frank Richard Dunn
 George Patrick Durham
 David Oscar Edwards
 Paul Landis Eger, Jr.
 Mary Elizabeth Ehlers
 Daniel Etamar Eisenstein
 Robert Dewane Ekedahl
 Dalyle Rose Ellis
 Dorothy Margaret Ellis
 Madilyn Jean Engvall
 Melville Nelson Enmark
 Robert John Enright
 Robert Sidney Epstein
 Cynthia Ann Fairbairn
 Thomas Feiss Farber
 Caroline Frances Fechter
 Berit Feragen
 Gay Leah Fisher
 Nancy Lee Flack
 Mary Johanna Floris
 Jones Wing Fong
 Myrle Laurie Forsyth
 Patricia Joan Foster
 Sharon Lynn Foster
 Lorelda Marie Fox
 Donald Keith Fraser
 Patricia Ann Frazee
 William Stanley Frazer
 Ruth Anne Frazier
 Mary Lou Fredericks
 Maxwell Michael Freeman
 Thomas Edward Frey
 Robert Fries
 Christa-Maria Helene Fruehsorger
 William Halverson Frye
 Lou Ann Fukuda
 Barbara Janice Fuller
 Rose Irene Gallagher
 Gael Helen Gander
 Carolyn Roberta Garlich
 Arlene Louise Garner
 Saralynn Garvey
 Jennifer Ann Gasparich
 Roberta Elaine Gaudie
 Theodore Peter Georges
 Raymond Edward Gerba
 Judith Edith Giannotti
 Benjamin Franklin Gibbs, Jr.
 Roberta Jane Gibson
 Nancy Ann Gillard
 John Stevens Gilmore

Kathleen Frances Goette
Alfred David Goldenberg
Claire Goldsmith
Barbara Susan Good
Herbert Martin Gordon
Roswell Curtis Gordon
Robert Allison Gotshall
Nancy Sue Gray
Joann Gayle Green
Joan Marcia Greenberg
Frieda Louise Grell
Anthony Griffin
Arnold Patrick Linton Griller
Rita Marie Guillaume
Jay Kenneth Gunter
Constance Sk Guork
Ruth Ann Hageman
Nancy Miller Haggerty
Claire Eleanor Hahir
Barbara Anne Hale
Isabelle Hall
Glenore Rose Hamill
Toni Diane Hamm
Karen Dortha Hansen
Joseph Ralph Hardy
Elizabeth Ann Harper
Margaret Jeanne Harrison
Suzanne Hartley
Barbara Louise Hartman
John Christopher Hau
Jacqueline Carol Haudbine
Robert Bogle Hawkins
William Thomas Hays
David Michael Heilbron
Janet Theadora Helmkamp
James Leon Henderson
Bertram Henick
Marilyn Eleanor Herz
Patricia Ann Hewitt
Barbara Sue Hexter
James Haywood Hirst
Penelope Hisey
Adrienne Yee Ho
Sara Elizabeth Hogan
Jean Audra Holmes
Richard Wendal Homuth
Daniel Warren Hone
Robert Lee Hooper, III
Marian Elizabeth Hopping
Joyce Marie Hrusoff
Patricia Ann Huberty
George Russell Huffman, Jr.
Robert Ilkovics
Robert Woodward Inch
Ronald William Ingram
Jacqueline Rae Ingwersen
Hjalmar Adrian Isabelle
Norman Henry William Jachens
Carol Jessie Jackson
Donna Lee Jackson
Gwendolyn Lenore Jackson
Peggy Ann Jackson
Suzanne Lee Jacobs
William George James
Janet Katherine Jansse
Dick Powell Jayne

Hong Anthony Jew
Thomas Chul Won Joe
Gail Ruth Johnson
Jacqueline Marie Johnson
Joan Maureen Johnson
Robin Jean Johnston
Nancy Léonie Jones
Roberta Sue Jones
Donald Joseph Kane
Dixie Loraine Karnes
Theodore Robert Kazmier
Eleanor Linda Keenan
Jane Lee Kennedy
Muriel Joan Kilgo
George Robert Kimball
Richard David Kincaide
Jean Elizabeth Kirkendall
Daniel Michael Klang
Margaret Florence Klinker
Phyllis Helene Knutson
Irene Yoshiko Kodani
Irving Jerome Kornfield
Roberta Sandra Krieger
Jean Reeve Kumpula
William Eckart Kunkel
Jo Ann Lagomarsino
Elise Ann Landecker
James William Lane
Doris Jean Langford
Shirlee Marie Laughlin
Donald Jay Lawrence
Charles Louis Ledger
Sharon Lee LeDoux
Bertha Jo-Anne Lee
David Shew Lee
Lydia Theresa Lee
Ronald Lee
Terry Tung-Sing Lee
Jane Leland
Joan Isabel Levin
Lynette Myra Lewin
Mary Alice Lewis
Noreen Ann Lewis
Beverly Yvonne Liebhart
Eleanor Maxine Ligon
Robert Delaney Lillienthal
Ann Lorelle Lindsay
Paul Ronald Lipkin
Peter Emanuel Lippett
Eleanor Janet Littlejohn
Jacqueline Lloyd
Lloyd Edward Loeb
Norma Lynn Lofberg
Ronald Martin Loos
Serene Claire Low
Pardee Joe Yee Lowe
Jacqueline Joan Lucas
Charles Douglas Lummis
Henrik Olai Lunde
Patricia Ann Lynch
Robert Carter McDaniel
Mary Margaret McDaniels
Barbara McDowell
Jean Marie McGeorge
Marilyn May Machado
Kathleen Claire McKeany

Mary Elizabeth McKimmy
 Robert Donald Mackler
 William Vernon Macnabb
 Daryl Catherine McTarnahah
 Clark Tillford Maddox
 Jeanette Edith Maddux
 Ralph Harry Magnus
 Roger Alan Mann
 George Lucien Marchand
 Joan Ann Marr
 Craig Hopkin Marshall
 James Edward Marshall
 Mary Elizabeth Marshall
 William Henry Marshall
 Joanne Louise Martin
 Jane Esther Martsolf
 Karen Jean Mastne
 Karen Peake Matthiessen
 Blanche Theresa Maulet
 Philip Francis Meads, Jr.
 John Edward Meikle
 Rosalyn Carolyn Mellore
 Carol Lyn Merchant
 Naida Jean Merry
 John Adam Metzler
 Judith Meyer
 Norma Jean Mikesell
 Maureen Lois Miles
 Dorothy Dianne Miller
 Lewis James Miller
 James Martin Millett
 Meryl Anita Mints
 Madeline Frances Mitchell
 David Monasch, III
 Alice Tsugiye Monma
 Gary Lee Moore
 Renée Andrée Morcel
 Madeleine Adrienne Moreno
 Ann Louise Mosbarger
 Anita Louise Motta
 Beverly Marie Mulvany
 Patricia Murray
 Ivan Joseph Muzinich
 Frank Earle Myers
 Barbara Mae Nelson
 Barbara Jean Nevil
 Marion Ruth Newstrom
 Ann Carter Nichols
 Surl Lee Nielsen
 Carol Dorothy Norton
 John Arthur Nyheim
 Carole Toshi Oishi
 Rosalind Ruth Oliver
 Kyra Oppermann
 Philip Sheridan O'Shaughnessy
 Margaret Anne Paris
 Holly Parrish
 Marilyn Patten
 Carla Martina Paulson
 Richard Stephen Pellett
 Barbara Anita Perasso
 Patricia Pereira
 Constance Joleen Perrill
 Joan Marie Perusse
 Roberta Beatrice Peters
 Joy Veronica Peterson

Ronald Sterling Peterson
 George Nikola Petievich
 Diane Woodward Phillips
 Sharon Joyce Phillips
 Alexandra Van Voorhies Pinney
 Duncan Hayes Pierce
 Patricia Ellen Pillsbury
 Earl Francis Pimentel, Jr.
 James Louis Pitto
 Pauline Podsakoff
 John Poppin
 Emil Louis Portale
 Marilyn Porter
 Susan Porter
 Nancy Elizabeth Powers
 Adrienne Anaya Price
 Eleanor Mae Price
 Priscilla Proctor
 Jean Carol Prosek
 Marilyn Louise Pyne
 Marlene Claire Quayle
 Alice Radebaugh
 Charleen June Raines
 Andris Ramans
 Henry Ramirez
 Martha Lucile Randolph
 Jean-Louise Ranney
 Eleanore Louise Rapoport
 Janet Larue Rasmussen
 Donald Vernon Reames
 Dale Arlene Reinhart
 John Willet Rhodes, Jr.
 Carol Frances Richardson
 Mary Charlotte Richardson
 William Adams Riddell
 Janet Marianne Ringham
 Harold LeRoy Ringler, Jr.
 Richard Paul Roark
 Ronald Boyd Robie
 David Francis Rodriguez
 Marilyn Rohwer
 Arthur Allen Roke
 Marlene Rose Ronconi
 Frederica Chase Roper
 Virginia Trotter Rose
 John Wayland Rosenberg
 Donald Paul Rosenblatt
 June Theresa Rossetto
 Berton Jonassen Roth, Jr.
 James Alan Rothenberger
 LaDora June Roundy
 Ruth May Rubenstein
 Virginia Lee Rucker
 Darcy Sara Rudolph
 Henry Ferdinand Rugge
 Joelyn Vira Ryan
 Alice Carolyn Saltzen
 James Roger Samuelsen
 Joyce Elaine Sandretto
 Frederic Stacey Saunders
 Raymond Everett Schaal
 Suzanne Scheibner
 Nancy Elizabeth Schlegel
 Judith Kay Schlesinger
 Nina Jean Scholes
 Robert Hulme Schmacher

Mona Lee Schussman
Myra Jo Schwartzman
Carl Edward Schwarz
Carl Henry Schwerin
Richard Wayne Scolari
Elaine Sandra Selle
Thomas Clayton Shadley
Elizabeth Anne Shafer
Sally Ann Shafft
Laura Klein Shaw
Peter Alexander Sheehan
Laura Ellen Shelley
Robert Scott Sherman
Roberta Elsie Shields
Sumiko Shinoda
Judith Ann Siegel
Frederick Armstrong Siems
Edward Micheal Silva
David Ralph Simons
Bernard Clarence Simpson, Jr.
Wanda Lee Sims
Eileen Jane Sloan
Noralyn Jane Smiley
Lyman Robert Smith
Maren Eleanor Smith
Susan Ellen Smith
Ann LaVerne Snow
Anne Catherine Snow
Salle Seaman Soladay
Howard Solvin
Joan Mae Spaulding
Sandra Sharon Spencer
Joyce Marilyn Spirock
Lynn Marie Springer
Marian Sprints
Janet Sue Stanley
Phillis Sue Staples
Helen Effie Starling
Dale LeRoy Statley
Gloria Marie Steckelberg
Sharon Steele
Walter Joseph Stein
Barclay Ann Stephens
Noel Edward Stevenson
Susan Holmes Stevenson
George Dennis Stewart
Larry David Stewart
Genevieve Janet Stohler
Peter Gus Stone
Steven John Stone
Barbara Frances Stuhr
Naomi Fredelle Sturman
Taye Suzuki
Christine Alvida Swanson
Jean Ann Swanson
Mary Joan Swanson
Antonia Maria Sweet
Patricia Jane Taffin
William Tamerlane
Jack Christian Tammi
Patricia Ann Terry
Ted Theodoroff
James Herman Thompson
Jay Lee Thompson
Sheridan Thela Thompson
Janet Ann Thorne
Marcia Elizabeth Thornton
Doramay Thunen
Carole Eliza Tishler
Karel Lee Toll
Joan Tomlinson
Joan Marie Torykian
Myron Faber Tower
Alfred Richard Trimbach
Francis Carl Trottier
May Tung
Barbara Kay Turner
Roberta Oliver Vandervoort
James Morse Van Horn
Stephen William Vantress
Helen Sue Vergez
Ella Rose Villela
Leslie Candace Vinnecour
Dolores Marie Voigt
Ann Elizabeth Wagner
Patricia Ann Walker
Donald Steele Walter
Sue Ellen Ward
Christine Carole Warren
Carol Lynn Washburn
June Eleanor Waters
Susan Marie Watrous
Marsha Kay Watson
Marilyn Ellen Weder
Robert Ramon Wegher
Joan Madeline Weinschenk
Gerald Raymond Weldon
Robert Gerald Wells
Marsha Anne Wentner
Diane Ruth Werronen
Yvonne Doris Werth
Suzanne Adele Westaway
Helen Ragnhild Westly
Joanne Yvette Westman
Georgiana Ruth Whang
Marilyn Dale Wheeler
Patricia Mercedes Wheeler
Barbara Anne Whitaker
Iris Whitman
Gail Ida Wierda
Letty Lou Wilen
Deborah Ann Willey
Patricia Anne Willey
Sunny L Williams
William Costello Williams
Francis Glennon Willmarth
Abbie Elizabeth Wilson
David Ray Wilson
Karla Winkenhofer
Gerald Harris Winn
Nancy Erwin Wise
Mary Jane Wohlets
Judith Wolf
Adolphus Alexander Wong
Sherrill Ann Wood
JoAnn Louise Woolley
Frances Latimer Wyatt
David Kiyoshi Yamakawa
Stanley Sun Yee
Keith Conrad Yettick
Jacqueline Lita Young
Armonita Yuen

Adrienne Irene Yukon
Lorna Geraldine Zbitnoff
Norton Neubert Ziegler

Catherine Ziteer
Marion Barr Zittel
Joy Elizabeth Zumwalt

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Arts upon

Barbara Fay Aaron	General Curriculum	Chicago, Illinois
Ada Marie Actis	Zoology	Bakersfield
Alan Jensen Addicott	Scandinavian	Fresno
Pierre Jean Agrinier	Anthropology	Berkeley
Richard Walter Akin	Medical Sciences	Los Gatos
Thomas James Albright	Journalism	Calistoga
Dawn Alexander	General Curriculum	Santa Barbara
Barbara Joan Allen	General Curriculum	Atlanta, Georgia
Constance Marjory Allen	Medical Sciences	San Francisco
William Creel Allison	Psychology	San Francisco
Ellin Jane Anderson	Child Development	Piedmont
Mary Louise Anderson	General Curriculum	Grinnell, Iowa
William Charles Anderson	History	Costa Mesa
* Nancy Lee Andrus	English	King City
Clifford Donald Anger	Physics	Long Beach
Hiroko Aoyoshi	Political Science	Ibaragi, Japan
Roger Alonzo Aragon	General Curriculum	Palo Alto
Marian Elizabeth Archer	Political Science	Santa Barbara
Jean Armstrong	General Curriculum	Grimes
Miriam Helen Armstrong	Political Science	San Jose
Patricia Mees Armstrong	Journalism, History	Morris Plains, New Jersey
Warren Lee Arnold	General Curriculum	Alameda
Mary Esta Ashton	Biochemistry	Long Beach
Abdul Aziz Atayee	Economics	Kabul, Afghanistan
Guitty Azarpay	Art, Child Development	Tehran, Iran
Bernard M Babior	Medical Sciences	Los Angeles
Katherine Anne Bache	General Curriculum	Piedmont
Harry Gee Backer	General Curriculum	San Diego
Maryse Bader	Mathematics	Santa Monica
John Norris Bahcall	Physics	Shreveport, Louisiana
James Howard Bailey	General Curriculum	Porterville
Marie Louise Baily	General Curriculum	Fort Bragg
Yasin Balbak	Psychology	Damascus, Syria
Bryce Matterson Bardin	Physics	Compton
Karen Linnea Barkas	Medical Sciences	Oakland
Peter Woolf Barnato	Journalism	San Francisco
Denny Weldon Barnes	Paleontology	Altadena
George Douglas Barr	Physiology	Chico
Robert Beale, Jr.	Economics	San Francisco
Gertrude Ann Beall	English	Monterey
Lulu Algar Beaumont	English	San Francisco
Beverley Rose Beckerleg	General Curriculum	Berkeley
Gretchen Louise Beglinger	English	Neenah, Wisconsin
Kathryn Bell	Journalism	Sacramento
Carol Belshe	General Curriculum	Hanford
Erwin Kenneth Bennett	English	Oakland
Gayle Cynthia Bennett	General Curriculum	Berkeley
James Marvin Bennisson	Journalism	Sausalito
Daniel Berez	Medical Sciences	Los Angeles
Jon Peter Berge	Physics	Mill Valley
Berwin Brooks Berlin	History	Oakland
Donna Rae Bernstein	Speech	Antioch
Patricia Ruth Biddison	Journalism	Oakland
Marvin Lionel Bienstock	Social Welfare	Mount Vernon, New York
Marlene Bernice Bigge	General Curriculum	Oakland
Martha Billman	Psychology	Berkeley
Phyllis Ann Bird	Sociology and Social Institutions	San Jose

* As of January 26, 1956.

John Sousa Bishop, Jr.	General Curriculum	Albany
Carolyn Sue Blair	Sociology and Social Institutions	Pomona
Martha June Bliss	General Curriculum	Healdsburg
Daniel Eugene Boatwright	Political Science	Vallejo
Charlotte Mariea Bogner	General Curriculum	Gardena
Bruce J Bonn	Psychology	Oakland
Kelvin Herbert Booty, Jr.	Economics	China Lake
Sari Anne Borden	International Relations	San Francisco
Sheila Livingston Bostick	Physics	Burlingame
Noel James Gordon Bowden	Physical Education	Berkeley
Robert Mayhew Bowden	German	Grass Valley
(A.B. San Francisco State College 1954)		
Susan Donna Boyaner	Social Welfare	
Vancouver, British Columbia, Canada		
Benjamin William Boyarsky	Political Science	Oakland
Stanley Brackett	Communication and Public Policy	Redwood City
Joan Marie Brady	Physical Education	Redwood City
Martin Richard Bragen	Psychology	Oakland
Jean Brandt-Erichsen	Zoology	Solvang
Nan Gilmore Breiseth	Political Science	Los Angeles
* Beverly Jeanne Breitenbucher	Political Science	Richmond
Lois Mae Brelsford	General Curriculum	Berkeley
Brian Rodney Brennan	History	San Francisco
Norma Jo Ann Brennan	Mathematics	El Cerrito
Frederick Harold Bretz	History	Caldwell, New Jersey
John Robert Brewer	General Curriculum	San Francisco
Arthur Emil Brizzolara	Political Science	San Mateo
Bernice Norine Bronsdon	Social Welfare	Oakland
Inez Costello Brooks	Decorative Art	Richmond
Joseph Franklin Brooks	Art	Nevada City
Louis Broussard	General Curriculum	Oakland
David Moody Brown	General Curriculum	Oakland
Donald Leroy Brown	History	Pomona
Jean Elva Brown	Geography	Smith River
Lowell Severt Brown	Physics	Visalia
Marcia May Brown	English	San Jose
Walter Gerald Brown	General Curriculum	Sierra Madre
June Christina Browning	General Curriculum	Redwood City
Norman James Bru	General Curriculum	Berkeley
Kathleen Convere Bruguiera	Political Science	Piedmont
Robert Charles Brunzell	Economics	Santa Barbara
Barbara Ann Bryan	Psychology	Yreka
Carole Louise Bryan	Social Welfare	Berkeley
Dyveke Watson Bryant	Social Welfare	Palo Alto
Shirley Ann Bryant	Social Welfare	Berkeley
James Stanley Buchholz	History	Boise, Idaho
William Patrick Buckley	Psychology	Berkeley
Nomi Rees Buda	History of Western Civilization	Los Angeles
Antonio Gonzales Bueno	Philosophy	Pico
George Andrew Bulow	Biochemistry	Oakland
David Patrick Burke	International Relations	San Lorenzo
James Floyd Burnette, Jr.	Zoology	San Francisco
Joseph Anthony Burns	Psychology	San Mateo
Garrett John Busselman	Physics	Richmond
James Lester Busskohl	English	San Francisco
Marjorie Ann Butler	General Curriculum	Oakland
Patsy Jane Butler	General Curriculum	Riverside
Charles Robert Butt	General Curriculum	San Gabriel
Barton Byers	Medical Sciences	Oakland
Peter Michael Byrne	History	Alameda
Roger Vincent Cadol	Physiology	Berkeley
Beverly Anne Cain	Child Development	Glendale
Rosemary Johnson Cain	Scandinavian	Oakland
Harvey Bruce Calkins	Religion	Newhall
Chad H Calland	Medical Sciences	Sacramento

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Elizabeth Ann Campbell	General Curriculum	Altadena
Robert Lloyd Campbell	Geological Sciences	Auburn
Eugene Stanley Canevari	English	Santa Rosa
Barbara Frances Cauty	Mathematics, Physics	Oakland
Patricia Hill Caploe	General Curriculum	Berkeley
Sigrid Carlson	Social Welfare	Berkeley
Lester Allan Carpenter	Journalism	Marysville
Shirley Anne Carroll	Spanish	San Diego
Janice Elaine Casagrande	General Curriculum	Sutter Creek
Allen Bland Casebolt	Medical Sciences	Richmond
Margaret Paschke Cason	Child Development	Pasadena
Claudia Lenore Cassidy	General Curriculum	San Francisco
Hugh David Cave	Spanish	Oakland
James Vincent Cecilian, Jr.	General Curriculum	San Jose
Carlos Alberto Cezar de Andrade	Geological Sciences	São Paulo, Brazil
Myrtha Chabrán	English	Seaside
Alice So King Chan	General Curriculum	Locke
Barbara Ann Chan	Decorative Art	Locke
Phillip Shiu Chan	Zoology	Oakland
Morton Dale Chase	Zoology	Richmond
Suzanne Chazalet	General Curriculum	San Francisco
Mary Angeline Cheonis	General Curriculum	Sacramento
Mary Penelope Chiang	General Curriculum	San Francisco
Nancy Chin	Social Welfare	Salinas
Carolyn Jew Chinn	History	Sacramento
Janet Anne Chipman	General Curriculum	Yuba City
Vera Bierrum Chisholm	Sociology and Social Institutions	Oakland
Roy Eugene Christian	Medical Science	Sacramento
Evelyn Christos	History	Albany
Edwin Laurence Church, Jr.	History	Alameda
Dan Wiley Clancy	Zoology	Martinsburg, West Virginia
Sharon Mildred Clare	General Curriculum	San Jose
Douglas Franklin Clark	General Curriculum	Berkeley
James Allen Clark, Jr.	Economics	San Mateo
Patricia Ann Clark	General Curriculum	Oakland
Suzanne Pauline Clark	Speech	Burlingame
Robert Lee Clawson	History	Hayward
Jo Ann Clayworth	History	Oakland
Margaret Anne Clements	International Relations	Alameda
Linda Piland Close	English	Raleigh, North Carolina
Francis Joseph Clune, Jr.	General Curriculum	Walnut Creek
Clare Frances Coakley	Child Development	Oakland
Robert Francis Cogburn	General Curriculum	Oakland
Arnold William Cohn	History	San Francisco
Constance Dorwin Collinge	Political Science	Minocqua, Wisconsin
Eleanor Collette Collins	General Curriculum	San Mateo
Mary Gene Collins	Child Development	Hayward
Myrl Deon Coltrin	General Curriculum	Albany
Charles Edward Comfort	General Curriculum	San Marino
Patricia Jean Connolly	General Curriculum	San Francisco
Sarah Jane Conwill	Speech	Berkeley
Victor Cook, Jr.	Physics	Saugerties, New York
Robert Wallace Cooke	Political Science	Castro Valley
James Edward Cooley	Communication and Public Policy	Berkeley
Connie Jo Coonrod	English	San Pablo
William Walter Cootes, Jr.	Child Development	Healdsburg
Alberta Lillian Cordini	General Curriculum	San Francisco
John Michael Corley	General Curriculum	Concord
Patricia Englande Corrigan	Political Science	North Hollywood
Carlos Eliseo Cortés	Communication and Public Policy	Kansas City, Missouri
Paula Lee Cory	English	Orinda
Mary Lucia Costa	English	Los Banos
Rose Marie Costa	English	Los Banos
David Jackson Costamagna	Political Science	Berkeley
Lawrence Raffety Cotter	Astronomy	Berkeley

Robert Fabian Cowan	Sociology and Social Institutions	Columbus, Ohio
Frank Leroy Cox, Jr.	International Relations	
		Gloucester, Massachusetts
Carolyn Ann Coyne	Political Science	Hayward
Kathryn Carol Crawford	Political Science	Berkeley
Joyce Marilyn Crooks	General Curriculum	Albany
Anne Cary Crosby	Social Welfare	Oakland
Gerald Franklin Crump	Political Science	Sacramento
Graef Slater Crystal	Psychology	Oakland
Marlyn Ernestine Cuneo	General Curriculum	Jackson
Mary Lou Curry	History	San Francisco
Mary Carolyn Curtis	General Curriculum	Palo Alto
Karen Warfield Cushman	General Curriculum	Alameda
Dennis Thorne Cutland	General Curriculum	Taft
William Joseph Daily	General Curriculum	Oakland
Gilbert Charles Daly	German	San Francisco
Lillian Ruth Dangott	Sociology and Social Institutions	Piedmont
Milton Curtis David	Medical Sciences	Turlock
Virginia Barbara Davidson	General Curriculum	Santa Barbara
Beverly Mc Dowell Davis	Art	San Francisco
Frank Buvard Davis	General Curriculum	San Diego
Gloria Ann Davis	Psychology	Santa Ana
Carolyn Lee Davreux	General Curriculum	Palo Alto
Reuben Harvey Dawson	Physiology	San Francisco
Ronald Clair Dayton	Chemistry	Oakland
Mary Frances Gardner Dec	General Curriculum	Riverside
Emogene Clark Deichler	English	Ross
Allen Marvin Dekelboum	Psychology	San Francisco
Cynthia Ann Delius	History	Berkeley
Dorothy Ludwig de Losada	Social Welfare	San Francisco
Elizabeth Waldie Dempster	English	San Anselmo
Donald Daly Dennis	History	La Jolla
(A.B. Bowdoin College 1951)		
Harry Peter Derdivanis	Advertising	Oakland
Barbara Ruth Diekmann	Speech	Glen Ellen
Marjorie Ann Dineen	Speech	Orinda
Clarence J Dingman	General Curriculum	Oakland
Debra Lee Dinic	Psychology	Petaluma
Stanley Kay Dodson	General Curriculum	Oakland
Jefferson Doolittle	Political Science	San Francisco
Linda Leilani Dorcy	General Curriculum	Redwood City
Sylvia Dorenfeld	General Curriculum	Petaluma
Angelo Douvos	Political Science	Monterey Park
Kenneth Morton Drellich	Psychology	Tarzana
Patrice Joy Driskell	Bacteriology	Santa Rosa
Carol Ann Druhan	General Curriculum	San Francisco
Joseph D Dubinsky	Political Science	San Francisco
Donald Gilbert Dumas	English	Berkeley
Patricia Hayes DuNah	General Curriculum	Pasadena
Ann Margaret Dunmire	General Curriculum	San Lorenzo
Mabel Derelle Eagleton	General Curriculum	Victorville
Michael James Ebner	Psychology	El Cerrito
Helen Lahann Echternach	Art	Oakland
Corydon Garner Edgecomb	General Curriculum	Valley Center
Vernon James Ehlers	Physics	Hannon, Ontario, Canada
Frederick Keate Ehrenburg	Physics	Ventura
William Yates Ehrhart	Physics	San Diego
Arden Midge Eichenbaum	General Curriculum	San Francisco
Margot Louise Eichmann	General Curriculum	San Francisco
Patricia M Eiri	General Curriculum	Isleton
Elaine Catherine Elissondo	Regional Group Major on Hispanic America	
		Hayward
Davelie Jeanne Elling	History	Concord
Robert Augustus Elliott	Biochemistry	Van Nuys
Joseph Gilbert Ellis	Economics	Georgetown, Illinois
John Carl Elmer	Psychology	El Verano

David Neal Emerson	Zoology	Newman
Quenten Lowell Emery	General Curriculum	Chino
Carol Mae Erickson	General Curriculum	Richmond
Phillip Dana Erickson	General Curriculum	Concord
John Antony Escano	Physical Education	Mountain View
Ardith Ann Eudey	Anthropology	San Bernardino
Jean Evanikoff	Regional Group Major on Russia and Eastern Europe	Dixon
Lena Olive Evans	Social Welfare	Oakland
Anne Everett	Decorative Art	Oakland
Sheafe Ewing	General Curriculum	Duarte
Francis Merrell Faragoh	General Curriculum	Berkeley
James Whitehead Farmer	General Curriculum	Pasadena
Jane Hope Fegen	Political Science	Los Angeles
Thomas George Fellner	General Curriculum	Piedmont
June Clyde Fields	Political Science	Houston, Texas
Michael Armond Filice	Economics	Richmond
Bernard Lowell Finley	Medical Sciences	Okanogan, Washington
Maurice Eugene Finley	Social Welfare	Lubbock, Texas
Sabra Jean Firestein	English	Berkeley
Mathews Benarr Fish	Medical Sciences	Stockton
Winifred Beam Flautt	English	Tupelo, Mississippi
Thomas Bruce Fletcher	General Curriculum	Long Beach
Margaret Mary Flood	General Curriculum	Piedmont
Kathleen Anne Florness	Speech	Oakland
John Jefferson Foley	General Curriculum	Berkeley
Kenneth Richard Foote	General Curriculum	Bakersfield
Perkins Ford	General Curriculum	Chicago, Illinois
Jinx Reynaud Fores	Speech	Santa Rosa
Margaret Stewart Forrest	General Curriculum	San Mateo
Lawrence Hunt Foster, Jr.	Medical Sciences	Bakersfield
Joseph Oscar Fournier	Physical Education	Vallejo
Virginia Anderson Fox	General Curriculum	Sacramento
Edward Kenneth Francis, Jr.	Biochemistry	Atascadero
Alfred Frank	General Curriculum	Berkeley
James Vernon Franklin	Geography	Oroville
Charles Emison Fraser	General Curriculum	San Leandro
Karen Louise Frerichs	General Curriculum	Mill Valley
Shirley Stephenson Friedman	Decorative Art	Hayward
George Fukuhara	Psychology	Berkeley
Betty Kyoko Fukunaga	Political Science	Compton
Yun-Tong Fung	Physics, Mathematics	Hong Kong, China
Stephen Andrew Gaal	Medical Sciences	San Francisco
Berlin Louise Gabbert	Psychology	Ocala, Florida
John Gaims	General Curriculum	Los Angeles
Helen Fouché Gaines	Physical Education	Victorville
H Rowan Gaither, III	General Curriculum	Piedmont
Clarice Wylie Gale	General Curriculum	Santa Maria
Linda Carter Gallagher	General Curriculum	Watsonville
Wayne Walter Gallup	Art	Wilton
John David Garcia	Psychology	San Francisco
Evelyn Mae Gard	Child Development	Oakland
George Joseph Gardiser	General Curriculum	San Francisco
Victor Alan Garlin	Economics	Redwood City
Carlton William Garske	General Curriculum	Sacramento
Joanne Marie Garvey	History	Berkeley
Ramona Jean Garvin	Sociology and Social Institutions	Glendale
Ronald Kenneth Gary	Zoology	Alameda
Mary Catherine Gaubatz	German	Felton
Timothy Gee	Zoology	Berkeley
Charles Roger Gherman	Medical Sciences	San Francisco
Janice Hart Giacolini	Social Welfare	Kerman
Andrew Chris Gianulias	Speech	Sacramento
James Edward Gill	Physics	Berkeley
Donald Robert Gillies	Medical Sciences	Yuba City
Bruno Gini	Bacteriology	Oakland

Lily Ginn	General Curriculum	Oakland
Leanna Marie Giovanzana	General Curriculum	San Francisco
Claudia Mæe Giuliani	Political Science	Mill Valley
Richard Arthur Gladden	Sociology and Social Institutions	Fortuna
E Dennis Glafkides	General Curriculum	San Francisco
S Laurence Glazier	Journalism	Newark, New Jersey
Don Carleton Glenn	History	San Francisco
Frances Reed Glenn	General Curriculum	Denver, Colorado
Joan Marie Goldammer	Bacteriology	San Francisco
Fredric Jay Goldbaum	Chemistry	San Mateo
Ronald Leslie Goldman	Zoology	Oakland
Daniel Alan Goldstein	Journalism	Fresno
Stanley Joseph Goobich	Psychology	San Francisco
Beverley Joy Goodman	General Curriculum	Pasadena
Macie Louise Gordon	Psychology	Berkeley
Daniel Foster Gould	General Curriculum	Tiburon
Alanson Wood Green, Jr.	General Curriculum	San Francisco
Ralph Lanier Green	Medical Sciences	Berkeley
Joan Greer	General Curriculum	Los Angeles
Nancy Carolnee Gressinger	Physical Education	Napa
Ronald James Griffith	Medical Sciences	Monterey
Diane Clark Groshong	Child Development	Oakland
Norma Roana Grosso	General Curriculum	San Francisco
Geraldine Eleanor Guinn	Physics	San Bernardino
Stanley Edwin Gutman	Political Science	San Anselmo
Shirley Ann Haag	Music	Berkeley
Herbert Haber	Social Welfare	San Francisco
Barbara Mathilde Hagemann	General Curriculum	Livermore
David Haydn Haight	Political Science	Orinda
Berude Halbert	Political Science	Oakland
Michael Lee Haley	Art	Hayward
Beverly Burke Hall	English	Oakland
Charles Delmon Hall	Geological Sciences	Walnut Creek
Robert Hall	Physics	Seaside
Joseph Fletcher Hallawell, Jr.	Speech	Oakland
James Joseph Halpin	Sociology and Social Institutions	Bellflower
Patricia Hamilton	History	San Francisco
Alice Downs Hammond	Mathematics	San Francisco
Carrie Annis Hammond	Art	Vallejo
Jennifer Diane Hanke	English	Stockton
Marylyn Jean Hansen	Dramatic Art	Lafayette
Wanda Lee Hansen	General Curriculum	Fortuna
David Louis Harbert	Philosophy	Portland, Oregon
Mary Catherine Harley	Child Development	San Francisco
Kathleen Knight Harrington	General Curriculum	Piedmont
John David Harris	Political Science	Los Angeles
Randolph Harris	Psychology	Oakland
Suzanne Harrison	Child Development	Berkeley
Robert Joseph Harrity	English	Alameda
Rose Irma Harthun	Psychology	San Francisco
Marion Eleanor Hartnett	Speech	Long Beach
Barbara Stover Haslam	Bacteriology	Carmichael
Kenneth Richard Haslam	Zoology	Sacramento
Shirley Beatrice Hatfield	Journalism	El Paso, Texas
Joan Carolyn Haug	English	Sacramento
Carol Ann Havner	General Curriculum	Fresno
Gerald Chapman Hays	Medical Sciences	Berkeley
Anne du Bignon Hazlehurst	Political Science	Long Beach
Norman Caswell Headley	Medical Sciences	San Francisco
Norma Ann Healy	Spanish	San Francisco
Nancy Louise Hedrich	Bacteriology	San Francisco
Merrill Cudworth Heidig	General Curriculum	Alameda
Shirley Mae Henderson	General Curriculum	Alameda
Manvil North Hendrickson	General Curriculum	Berkeley
Barbara Louise Hennings	English	Costa Mesa
Patricia Ann Henricus	International Relations	San Francisco

Nelda Augustine Herby.....	Music	Oakland
Hershel Zelig Herzberg.....	Political Science	San Francisco
Gail Frances Hettich.....	History	San Francisco
Elisabeth Blackfan Hewitt	French	Saratoga, Wyoming
Alfred Charles Hexter (B.S. in Pharmacy 1948)	Psychology	Portland, Oregon
Jacqueline Louise Heyer.....	General Curriculum	Los Angeles
Eugene Joseph Higgins.....	English	Beverly Hills
Harriett Ann Higgins.....	General Curriculum	Santa Ana
Shirley Ann Hilker.....	General Curriculum	San Mateo
Diane Elizabeth Hill.....	English	Saint Helena
Eugenia Gail Hill.....	English	Arcata
Robert Lee Hill.....	Medical Sciences	Tulare
Ronald Edwin Hill.....	Mathematics	Piedmont
Virginia Watson Hill.....	Spanish	San Leandro
Susan Hitchcock	General Curriculum	South Pasadena
Patricia Rae Hoang.....	English	Monterey
Barbara Ellen Hochman.....	Political Science	Riverside
Elizabeth Jane Hoeman.....	International Relations... ..	New York, New York
Edward Arthur Hoffman.....	Political Science	Brooklyn, New York
Lewis Verne Hogoboom, Jr.....	Regional Group Major on Japan	Oakland
David Paul Holland.....	Psychology	Albany
Mary Louise Holland.....	Decorative Art	Oakland
Donald William Holly.....	French	Dixon
Douglas Guthrie Holt.....	History	Stockton
Joan Lamona Honsberger.....	General Curriculum	Berkeley
Sandra Roslyn Horn.....	History	San Francisco
Carol Diane Horwitz.....	History	Oakland
Edward Howard Hosley.....	Geological Sciences	Oakland
Walter Hoy	General Curriculum	San Francisco
Lee Luick Hubbard.....	General Curriculum	Santa Ana
Denis Saxon Hudson.....	Political Science	Berkeley
Carol Jerrie Huggins.....	General Curriculum	San Francisco
Dorothy Diane Hughes.....	English	San Marino
Herbert Dennis Hughes.....	Zoology	Merced
William Edwin Humphrey.....	Physics	Berkeley
Fred Hundhammer, Jr.....	Economics	Honolulu, Territory of Hawaii
Suzanne Cecile Hunter.....	General Curriculum	Richmond
Irving Jaynes Hurd, Jr.....	Political Science	Berkeley
Aileen Marie Hurley.....	History	Pleasanton
Jane Prescott Hurdall.....	General Curriculum	Newport Beach
Kenneth Wayne Huston.....	English	Coalinga
Robert Barrett Hutchins, Jr.....	Political Science	San Francisco
Leonarda Marie Ingnacki	Anthropology	Metuchen, New Jersey
Mary Virginia Inglima.....	Spanish	Modesto
Laurie Dean Ingram.....	Sociology and Social Institutions... ..	Berkeley
Cullen Langdon Inman.....	Mathematics	Redondo Beach
Betty Adeline Innocenti.....	General Curriculum	Salinas
Jacqueline Irving	English	Walnut Creek
Theodore Edwin Irving, Jr. (A.B. 1955)	Zoology	Berkeley
Joyce Beverly Irwin.....	General Curriculum	Berkeley
Beverly Jean Isenberg.....	General Curriculum	Oakland
Amy Teruko Iwasaki	Social Welfare	Los Angeles
Harold Lee Jackson	Economics	San Francisco
Margaret Ada Jackson	Zoology	Taft
Marilyn Bernice Jacobson	Journalism	Los Angeles
Maurice John Jacoby	General Curriculum	Sacramento
Leland Pierce Jarnagin	General Curriculum	Union, Oregon
Stephen Jauregui, Jr.	Mathematics	San Diego
Mark Judson Jennings	Political Science	Oroville
Marlene Eleanor Jensen	Speech	Alameda
Keith Dover Jewell	Political Science	Fresno
Anne Victoria Johnson	Child Development	San Bernardino
Dorothy Mae Johnson	General Curriculum	Bakersfield

Elaine Alice Johnson	Sociology and Social Institutions	La Jolla
Elizabeth Ann Johnson	French	Lompoc
James Curtis Johnson	Political Science	Memphis, Tennessee
Julian James Johnson	Economics	Cuyahoga Falls, Ohio
Milton Herbert Johnson	History	San Francisco
Arden Isabel Johnston	Political Science	Piedmont
Charlotte Nichols Jonas	General Curriculum	San Francisco
Arline Marie Jones	General Curriculum	San Francisco
John Thomas Jones	Journalism	Berkeley
Myrton Tad Kenneth Jones	Zoology	Oakland
Robert Verne Jones	English	Watsonville
Allan John Reymond Jonsson	Political Science	Orland
Barbara Marie Jopp	Journalism	Stockton
Judith Alohaiei-Luana Jordan	Philosophy	San Francisco
Katherine Yvonne Jordan	Child Development	Oakland
Robert Wallace Joyce, Jr.	Zoology	Mill Valley
Anne Teresa Jud	Speech	Santa Cruz
Florence Ngum Jue (B.S. 1953)	Statistics	San Francisco
Kenneth Lee Jue	Physiology	Berkeley
Joan Annis Jugenheimer	Speech	Berkeley
Robert Milton Jurich	Zoology	Alameda
James Anthony Kaddo	Political Science	Los Angeles
Susan Sanaye Kadoguchi	Physiology	Menlo Park
Toshihiko Kajitani	Physiology	Selma
Marlene Kameny	General Curriculum	Oakland
Carol-Lee Joy Kapfer	Art	Salinas
Vivian Georgia Karavochos	Medical Sciences	Oakland
Karna Karstensson	Social Welfare	Yreka
Elizabeth Merrill Kasanin	Social Welfare	San Francisco
Carol Katherine Kasper	Medical Sciences	Millbrae
Adele Rachel Katz	Social Welfare	San Francisco
Barbara Baker Keasbey	Decorative Art	San Francisco
George Head Keith	General Curriculum	San Diego
Georgina Hicks Kelly	General Curriculum	Pasadena
Kathleen Mary Kelly	General Curriculum	Glendale
Myrna Jean Kelly	History	Oakland
Herbert MacKay Kennedy	Speech	Alameda
Margaret Bentson Kennedy	Economics	San Diego
James Willford Kern	Medical Sciences	Willits
Keith Howard Kerr	Political Science	Lodi
Theodore Gourdin Kershaw	General Curriculum	Palo Alto
Stuart Gordon Kester	Psychology	Ohio
John Kenton Kiffmeyer	History	North Hollywood
Jeremy Kilpatrick	Mathematics	Fontana
Constance Elizabeth King	General Curriculum	Saratoga
Janet Heskin King	Sociology and Social Institutions	Berkeley
Lois Kinietz	Physical Education	Fullerton
Anton Klaver	Geological Sciences	San Francisco
Adrienne June Klein	General Curriculum	Oakland
Joanne Klein	General Curriculum	San Francisco
Sheldon Klein	Anthropology	Los Angeles
Martha Anne Kloster	History	San Francisco
Jerome Hamilton Klotz	Mathematics	Riverside
Jean Hartwell Knapp	General Curriculum	Salem, Oregon
Brigida Angelika Knauer	Social Welfare	Hollywood
William Dale Knick	Political Science	Taft
Richard Errett Knowles	General Curriculum	San Francisco
Sylvia Knowlton	French	Berkeley
Nelson Shigehisa Kobayashi	General Curriculum	San Francisco
Marcia Lee Koenig	History	Santa Rosa
Helga Margarete Kohlenberg	General Curriculum	Oakland
Judy Lisa Kohn	General Curriculum	Monterey
Paul A C Koistinen	History	Berkeley
Herbert Jerome Konkoff	Medical Sciences	San Francisco
Louis Bernard Kosman	Philosophy	Sacramento

Betty Irene Koster	Journalism	Arlington, Virginia
Herbert Lewis Kraft	History	Piedmont
Nancy Ann Krupocki	General Curriculum	Millbrae
Jill Kent Kully	General Curriculum	Los Angeles
James Delk Kunkel	Wildlife Conservation	Alhambra
Harry Keiso Kuwabara (B.S. Sacramento State College 1952)	Biochemistry	Sacramento
Frank Bryce Lafferty	Journalism	Oakland
John Olds La Gatta	Economics	Los Angeles
Jean Eleanor Laird	History	Modesto
Barbara Ruth Lamoreaux	General Curriculum	Napa
Charles Milton Lane	Journalism	San Francisco
Sutti Reissig Lanning	Anthropology	Berkeley
John Howard Laugenour	General Curriculum	Woodland
John Eric Lawrence	Political Science	Berkeley
Patricia Anne Lawrence	Art	Berkeley
David Frederick Leary, Jr.	Political Science	San Bruno
Emily Lee	General Curriculum	San Francisco
JoAnn Lee	General Curriculum	San Francisco
Lowe Leon Lee	General Curriculum	Oakland
Yumi Lee	Psychology	Tokyo, Japan
Velva Dale Leininger	General Curriculum	Watsonville
Evie Margolis Leon	General Curriculum	Los Angeles
Gloria Faye Leong	General Curriculum	Redwood City
Jacquelyn Mary Lesmeister	Social Welfare	Roseville
Robert Martin Lesser	Medical Sciences	San Francisco
Sharyn Lois Levinson	General Curriculum	San Francisco
Margaret Alice Levis	History	San Carlos
Jacob Levitan	Economics	San Mateo
Leland David Levy	Political Science	San Francisco
Richard Lew	Psychology	Watsonville
Leonard Lieberman	Sociology and Social Institutions	Los Angeles
John Richard Lilley	Physics	San Diego
Betty Lannette Lim	Social Welfare	San Francisco
Robert Cheong Lim, Jr.	Zoology	San Francisco
Beatrice Ransom Lindberg	Social Welfare	Santa Barbara
Marjorie Dunne Lindner	French	San Francisco
Dorian Ann Lindquist	General Curriculum	Berkeley
Sandra Mae Littlewood	Journalism	Oakland
Francis Peabody Lloyd	History	Carmel
Norman Lawrence Lockwood	Political Science	Puente
Sarah Elizabeth Logan	General Curriculum	Pasadena
Harry James Lohstroh	Political Science	Walnut Creek
Eugene Stephen Long	International Relations	Albany
Arthur Putnam Loring, Jr.	Paleontology	San Diego
Ernest Alvin Lowe	Anthropology	Maywood
Helen Mary Lozano	Spanish	Los Angeles
Lillian Irma Lucas	Social Welfare	Oakland
Eleanore Julie Lueder	German	Berkeley
Lidija A Lukjanov	Medical Sciences	San Francisco
Muriel Oi Hin Lum	Art	Honolulu, Territory of Hawaii
William Tappan Lum	Astronomy	Concord
Manuel Luna	Biochemistry	San Francisco
Nancy Crozier Lynch	Art	Whittier
Stephen Kurt Lynch	Philosophy	Riverside
Sharon White Lyons	History	Berkeley
Irvin Le Fetus McCaine, Jr.	General Curriculum	Oakland
Sheila Maud McCarthy	Speech	Solvang
Marjorie Jean McCarty	English	Sacramento
Sally Gene McClure	General Curriculum	Oakland
Mary Ann McCrary	Child Development	Coronado
Mary Florence McCurdy	General Curriculum	Eureka
Wesley Carter McDaniel	Communication and Public Policy, Political Science	San Bernardino
Elizabeth Wylett McDowell	Psychology	Watsonville

Virginia Susanne McEneany	General Curriculum	Berkeley
Richard Adair McFarland	Psychology	San Leandro
Patricia Ann McGaffigan	Child Development	Redwood City
Thomas Leigh McGrath	General Curriculum	Aptos
George Edwin McInnis, Jr.	History	Oakland
Mary Cameron McKay	General Curriculum	Berkeley
William Marshall McKeeman	Mathematics	San Francisco
Malcolm Roff MacKenzie	Medical Sciences	Oakland
Margery Jean MacKenzie	General Curriculum	Los Angeles
Rosemarie McKenzie	General Curriculum	Monticello
Patricia Claire MacLeod	General Curriculum	Piedmont
Patrick Howard McLin	Medical Sciences	Berkeley
Syl McNinch, Jr.	Political Science	Bakersfield
June Nelson McQuary	General Curriculum	Berkeley
George Edward Maddox	Geological Sciences	Sonora
Vivian Mailman	Sociology and Social Institutions	Forest Hills, New York
Adrienne Joan Maioli	General Curriculum	San Francisco
Jennie Yin Wai Mak	History	Hong Kong, China
Virginia Frances Male	Labor and Industrial Relations	San Francisco
Leo Michael Malliaris	General Curriculum	Oakland
Loren Lee Maninger	Physics	Pasadena
Dolores Marlene Manring	Psychology	Roseville
Vincent John Marellich	History	San Francisco
John Edward Marks, Jr.	Physical Education	Sun Valley
Frederick Vernell Marsh	General Curriculum	Burbank
Patricia Jane Marshall	General Curriculum	Fairfield
Donald Paul Martin	Journalism, Speech	Alameda
Janet Margaret Martin	General Curriculum	San Francisco
Leonora Caroline Martin	History	Oakland
Oscar Albert Martinez	Economics	Maracaibo, Venezuela
Margaret Ann Mather	Political Science	Stockton
Anita Landacre Matthey	Social Welfare	Claremont
Donald Louis Matthes	General Curriculum	Berkeley
Stuart Hampton Maule	Anthropology	El Monte
Leon Hinckley Mayhew	Sociology and Social Institutions	Berkeley
Carolyn Joyce Mead	Child Development	Sanger
Alona Carol Mealey	English	Long Beach
Jane Coglizer Meek	General Curriculum	Martinez
Robert Bruce Melgard	Political Science	Grace City, North Dakota
John Robert Meline	Physics	Mariposa
*Rina Grad Mendelsohn	Decorative Art	Ramat Gan, Israel
Keith Williams Meserve	International Relations	San Bernardino
Alvan Winston Messer	General Curriculum	Saint Helena
John Flavian Mevi	General Curriculum	Los Banos
Gail Irene Meyer	General Curriculum	Oakland
Marianne Esther Meylan	Political Science	Berkeley
Jay Dee Michael	Political Science	Round Mountain
Kay Mackenzie Mighell	General Curriculum	San Diego
Philip Miletich, Jr.	History	Richmond
Arthur Francis Miller	Medical Sciences	Modesto
Verna Andersen Miller	General Curriculum	San Francisco
Susan Virginia Mills	General Curriculum	Berkeley
Atsumi Kawaguchi Minami	Sociology and Social Institutions	San Francisco
Alice Lynn Leeper Mitchell	Psychology	Eugene, Oregon
Mary Lynn Mitchell	Physical Education	Susanville
Shirley Isabel Mitchell	Bacteriology	San Francisco
Tokuhiro Miura	Journalism	Kochi Prefecture, Japan
Adeline Takeko Miyama	Economics	San Francisco
Marjory June Mizel	General Curriculum	San Francisco
Dale Edwin Moffitt	Dramatic Art	Lodi
Kathaleen Mary Mogan	Medical Sciences	San Francisco
Anne Delger Moller	Social Welfare	Berkeley

* As of January 26, 1956.

Robert Holman Monell	English	Canon City, Colorado
John Jackson Montgomery	Social Welfare	San Francisco
Margaret Ann Moore	History	Berkeley
Marilyn Moore	English	San Francisco
Robert Lemuel Moore, Jr.	General Curriculum	Berkeley
Joan Grace Morel	Social Welfare	Tayoltita, Durango, Mexico
Darius Bertrand Moreland	Economics	Los Angeles
William Mideo Mori	Political Science	Oakland
Claudette Donalddean Mork	History	San Carlos
William Charles Morley	Religion	Morro Bay
Howard Fred Morrelli	Medical Sciences	Fresno
Mary Ann Shiela Morris	English	Sacramento
Marilynn Kay Morse	General Curriculum	Altadena
Charlotte Alice Moyer	General Curriculum	Berkeley
Joyce Lou Mucke	General Curriculum	Pismo Beach
Donald Watkins Munro, Jr.	General Curriculum	Berkeley
Olof Murelius	Psychology, Sociology and Social Institutions	San Francisco
Shirley Anne Murphy	Journalism	San Francisco
Carol Agnes Murray	General Curriculum	San Francisco
George Frederick Murray	Physics	Cupertino
Kenji Nagasawa	Mathematics	Sacramento
Beverly Naomi Nakashima	Zoology	Long Beach
Anthony Francis Naples	Slavic Languages and Literatures	Buffalo, New York
Walter Masahiro Narusawa	Bacteriology	Wahiawa, Territory of Hawaii
Lynn Edward Nebeker	Political Science	Piedmont
Keith Barton Nelson	General Curriculum	San Francisco
Albert Charles Neufeld	Geological Sciences	Oakland
JoAnne Louise Neuman	Decorative Art	Lafayette
Charles Joseph Neumann	Physics	Oakland
Barbara Elizabeth Nicholson	Political Science	San Francisco
Arthur Mack Nicolaysen	Medical Sciences	Berkeley
Margaret Elizabeth Nielsen	General Curriculum	Mount Shasta
Ann Margaret Norsworthy	Anthropology	Sacramento
Louren Mary Norton	Political Science	Port Costa
George L Nunn	Paleontology	Newcastle
Barbara MacMahon Nystrom	General Curriculum	Walnut Creek
Kenneth Jay Oberman	Economics	New York, New York
Marian Durham O'Brien	General Curriculum	Berkeley
Judith Lee O'Connell	General Curriculum	San Mateo
Richard Allen O'Connor	Economics	Yuba City
Karen Lee Okerberg	Music	Oakland
Clayton Gerald Olson	Zoology	Alameda
Edwin Grant Olson	History	Modesto
Shoichi Omiya	Political Science	Kaneohe, Oahu, Territory of Hawaii
Brian Edgar O'Neil	Philosophy, Political Science	Vallejo
Irma Lenora Oppenlander	Bacteriology	San Francisco
Bernard Vincent O'Rourke	History	Richmond
Arthur Norman Orthun, Jr.	Journalism, Political Science	Los Angeles
Monroe Osburn, Jr.	History	Oakland
Adrienne Jeanne Oscamou	General Curriculum	Oakland
Jane Fenwick Osgood	History	Pacific Grove
Alva Owyang	General Curriculum	San Francisco
Elwine Doris Pahland	French	Birkenfeld, Germany
Arthur Edward Palfrey, Jr.	General Curriculum	Temple City
Cynthia Allen Palmer	General Curriculum	San Rafael
Kathryn Gale Palmer	General Curriculum	Castro Valley
Charles Owen Parent	General Curriculum	Berkeley
Nancy Cole Patterson	English	Fresno
Carole Cassasa Patton	General Curriculum	Redwood City
Janet Helen Paulius	Speech	Los Angeles
Burt Henry Paulsen	History	San Francisco
Suzanne Payne	Music	Los Angeles

Bernice Ruth Peachy	History	Berkeley
Helen Selinger Pearlman	English	San Anselmo
Patricia Marian Pease	General Curriculum	San Leandro
Joseph William Penders	General Curriculum	Mill Valley
Elizabeth Ellen Pendleton	Child Development	Lafayette
Gloria Jean Perry	Social Welfare	San Francisco
Jamie Louise Peterman	General Curriculum	Pasadena
Daniel Ray Peterson	Social Welfare	Santa Ana
George Severine Peterson, Jr.	Paleontology	Oakland
Allene Ann Petty	Social Welfare	Carmel
Robert Westmoreland Peyton, II.	Medical Sciences	Oakland
William A Pfaff	Political Science	Pasadena
John Arthur Piirto	Sociology and Social Institutions	Whittier
Cynthia Ann Pinney	General Curriculum	San Francisco
Shirley Jean Pitts	International Relations	Berkeley
William De Vane Plosser	Political Science	Glendale
Rosally Podgorny	Psychology	San Francisco
Jeanie Moore Polland	Child Development	Ross
Stanford Foster Pollock	Medical Sciences	Alameda
John Raymond Pope	English	San Francisco
Myron Richard Porter	Mathematics	Beverly Hills
Scipio Porter, Jr.	Economics	San Mateo
Gene Spencer Poschman	Political Science	San Francisco
Mary Scanlon Posey	English	Redwood Valley
Judith Ann Potter	International Relations	Falls Church, Virginia
Jay Warren Powell	Economics	Los Angeles
Alice Linnell Powers	General Curriculum	Alameda
Carol Ann Prather	Sociology and Social Institutions	Santa Cruz
Janet Anne Prather	Journalism	Kearney, Nebraska
Donald Hodson Price	English	Redding
Marjorie Jean Prichard	General Curriculum	Middletown
Delorale Ann Proctor	Social Welfare	Oakland
Thomas Franklin Pugh	Political Science	Oakland
Hazel Quong	Social Welfare	San Francisco
John Elbert Raffety	Zoology	Santa Cruz
Mina Rainès-Lambé	French	Sacramento
Henry James Ralston, III	Medical Sciences	San Francisco
Richard Harris Randall	Political Science	Oakland
George Wesley Rathmell	English	Oakland
Antony Ravnik	Zoology	Oakland
Harry Gibson Reeves	Political Science	Oakland
Burton Allen Reiner	American Civilization	Los Angeles
Ray Calmes Reinhard	General Curriculum	Glendale
Helmut Richard Reinhardt	Economics	Heringen, Germany
Arthur Hadley Rimmel, Jr.	General Curriculum	San Mateo
Barbara Nokes Reynolds	General Curriculum	San Lorenzo
Dorsey Richard Reynolds	General Curriculum	San Francisco
Marvel Anne Reynolds	General Curriculum	Omaha, Nebraska
Bette Jean Ribbs	Social Welfare	San Jose
Howard Frank Rice	History	San Francisco
Anne May Richard	General Curriculum	Richmond
Barbara Smith Richards	General Curriculum	Los Angeles
Leonard Lincoln Richards	History	Berkeley
Sandra Endersby Richardson	Sociology and Social Institutions	Lafayette
Gordon Lee Ridgeway	General Curriculum	San Mateo
George Wyndham Ridgway, Jr.	General Curriculum	Richmond
Ramon Winston Riggs	Physics	Waterloo, Iowa
James McLeod Ritch	General Curriculum	Hayward
Krehe Hampton Ritter	Mathematics, Statistics	Berkeley
Carlene Diane Roberts	Spanish	Richmond
Patricia Mary Lou Roberts	General Curriculum	Sacramento
John Leonard Robson	Political Science	Lewiston, New York
Josephine Ann Robustelli	General Curriculum	Stockton
Jo Ann Faye Rokusek	Speech	Alameda
George James Romero	Bacteriology	Santa Rosa

Charles Stetson Rosekrans	Music	San Francisco
Richard Jay Rosen	Art	Kansas City, Missouri
Donald Leslie Rosenberg	General Curriculum	Oakland
Janet Rae Rosenberg	Recreation	Long Beach
Julian Robert Ross	Political Science	Belmont
Randall Joseph Ross	Zoology	Suisun
Sheldon Rothblatt	History	Oakland
Philip Davids Rothschild	Medical Sciences	Sherman Oaks
Mary Lou Rough	English	Lancaster
Eleanor Miller Rouse	History	Sacramento
Mary-Ellen Rouse	Child Development	Watsonville
Eldon Earl Rowe	History	Tulare
Sharon Reese Rowell	English	Berkeley
Leighton Marion Royston	Psychology	Santa Rosa
Hilliard Emmanuel Roze	Political Science	San Leandro
David Rubin	Physics	Hempstead, New York
Sandra Dell Rudnick	English, Philosophy	Los Angeles
John Dukes Rule	General Curriculum	Chevy Chase, Maryland
Clyde Bannister Russell	General Curriculum	Oakland
Lewis Keith Russell	Physics	Palo Alto
Mary Shannon Russell	English	Ross
Richard Daniels Russell	General Curriculum	San Diego
Donald Bryant Rutledge	Political Science	Colusa
Mark Spicer Rutledge	General Curriculum	Piedmont
Lawrence Edward Ryan	Political Science	Salinas
Sheila Eileen Ryan	Journalism, English	Oakland
Mildred Elizabeth Sadler	English	Santa Cruz
Nancy Allen Sakellar	General Curriculum	Berkeley
Louisa Cecilia Sala	General Curriculum	San Francisco
Andy Deo Sanchez	Physics	Richmond
David Edwin Sandstad	English	Taft
Joan Carol Sanguinetti	General Curriculum	Manteca
Kyoko May Sato	Child Development	Hamilton City
Nathan Eugene Savin	Economics	Richmond
Donald Anthony Sawyer	History	Greenbrae
Edgar Alley Sayre, III	Political Science	Sacramento
Evadna Luella Saywell	International Relations	San Mateo
Donald Gray Scanlin	Geological Sciences	Fillmore
Worth Haines Scattergood	Political Science	Berkeley
Carol Lee Schaefer	English	Palo Alto
Gail Marylynn Schaefer	History	Richmond
Alan Edward Schmeiser	General Curriculum	Dixon
John Alexander Schmidt	General Curriculum	San Francisco
Norma Jean Schmidt	Mathematics	Oakland
Robert Naphtali Schnal	General Curriculum	San Francisco
Gerald F Lee Schnurmacher	Paleontology	Piedmont
Wolfgang Schoellkopf	Economics	Ludwigsburg, Germany
Kathleen Joann Schumacher	History	Los Angeles
* Paul Arthur Schwarzbart	French	San Francisco
Margaret Joan Scoble	General Curriculum	Burlingame
Leila Rose Seagel	Sociology and Social Institutions	Oakland
Sandra Ratcliff Sears	Psychology	Belmont
David Alan Seed	Physical Education	Dunsmuir
Ruth Seitlin	General Curriculum	Westport, Connecticut
Vladimir George Semeniuk	Medical Sciences	Berkeley
Judith Berta Setzer	Social Welfare	San Francisco
Ann Seulberger	Economics	Lafayette
Janet Roberta Sewall	Decorative Art	San Francisco
Sandra Joy Shapiro	Political Science	San Leandro
Gerald Nelson Sharrock	General Curriculum	San Francisco
Sviatoslav Igorevich Shasholin	History	San Francisco
Martha McBride Shaver	General Curriculum	San Jose
Jeanette Shaw	General Curriculum	Claremont

* As of January 26, 1956.

Roger Ralph Shaw	Social Welfare	Los Angeles
Hannah Lavon Shea	French	Richmond
Margaret Kathleen Shea	General Curriculum	Los Angeles
John Gerrard Sherlock	Journalism, Political Science	
	Hove, Sussex, England	
Stanley Edward Sherman	Communication and Public Policy	Oakland
Laurence Lester Sherrill	English	Berkeley
Donna Sherva	Zoology	Petaluma
Leland Hideyo Shimada	Oriental Languages	Los Angeles
Lawrence Wayne Shipton	Political Science	Alameda
Herschel Shorr	Sociology and Social Institutions	Los Angeles
Ann Green Siebert	General Curriculum	Palo Alto
Valerie Arden Siegel	General Curriculum	Salt Lake City, Utah
William Hall Sills	Statistics	Los Angeles
Robert Lee Silvis	Physical Education	Vallejo
Richard Edwin Simensen	Political Science	
	Washington, District of Columbia	
Peter Simitsek	Political Science	Athens, Greece
Dorothy Theresa Simmons	Psychology	Oakland
Kenneth Young Simpson	General Curriculum	San Marino
Joseph Bruce Sinclair	History	Napa
Julanne Louise Sinclair	Bacteriology	San Francisco
William Lee Sisk	Labor and Industrial Relations	San Anselmo
Ann Roys Sisson	General Curriculum	Berkeley
Arve Ronald Sjovold	Physics	Santa Barbara
Dorothy Gene Slattery	English	San Francisco
Penelope Mélisande Slocum	Economics	Hollywood
Simon Sluis (B.S. University of California, Davis 1951)	History	Modesto
Nanette Meri Smario	General Curriculum	Pittsburg
Philip Sidney Smelser	Psychology	Phoenix, Arizona
Charnee Wahluquist Smit	General Curriculum	San Francisco
Alan Eugene Smith	General Curriculum	Stockton
Eldred Reid Smith	English	Los Angeles
Janet Carolyn Smith	General Curriculum	Mill Valley
Lloyd Du Bois Smith, Jr.	Physiology	Oakdale
Patricia Ann Smith	Statistics	Petaluma
Richard Stephen Smith	Zoology	Alameda
Robert William Smith	Political Science	Santa Cruz
Stanley Archer Smith	Sociology and Social Institutions	Berkeley
Carol Anne Sneddon	General Curriculum	Whittier
Ai Sook Sohn	Decorative Art	Seoul, Korea
Jean Eleanor Solomon	Political Science	San Francisco
Jason Blayne Sorensen	Scandinavian	Oakland
George Louis Souza	General Curriculum	Marysville
Ernest Spaeth	International Relations	Berkeley
Mary Hughes Sparks	English	Auburn
Duane Allan Spence	Physics	Oakland
Joan Alexandra Spencer	Political Science	San Francisco
Louise Dorothea Sperb	General Curriculum	Burlingame
Priscilla Ann Sroufe	History	Pasadena
Janice Stacy	General Curriculum	Berkeley
Edith Sweetser Stahl	General Curriculum	Tulsa, Oklahoma
Jeanne Carol Standring	Speech	Sacramento
Marjorie Jean Stanley	Social Welfare	Berkeley
Barbara Jean Starman	General Curriculum	Pasadena
Michael Ellard Starr	General Curriculum	Alameda
Beverly Reishig Steinhaus	Child Development	Oakland
Joan Cathleen Stenson	History	San Francisco
Anita Dee Stevens	General Curriculum	El Cerrito
Charles Calvert Stevenson, Jr.	English	Piedmont
Kent Kallam Stewart	Chemistry	Davis
Gerald Dee Stinson	English	Van Nuys
William Byron Stoddard	Geological Sciences	Oakland
Linda H Stohr	General Curriculum	San Leandro

Mary Jane Stoll	General Curriculum	Berkeley
Matthew Frederick Stolz	Political Science	Oakland
Jessie Marie Stone	Mathematics	Berkeley
Shirley Anne Stone	Decorative Art	Oakland
Jane Aurelia Stornetta	General Curriculum	Santa Maria
Howard Irving Streifford, Jr.	English	Fresno
Suzanne Ray Stroh	General Curriculum	Los Angeles
Shirley Anne-Kristin Strom	Scandinavian	San Francisco
Theodore Francis Stubbs	Physics	Sacramento
Mary Anne Stuewe	International Relations	El Segundo
Kathleen Howard Styles	General Curriculum	Sacramento
Armogene Earl Suttle	Social Welfare	San Francisco
Valaree Jean Svenson	History	Puente
David Leonard Swanson, Jr.	Zoology	Costa Mesa
Ronald Hugh Swinnerton	General Curriculum	Altadena
Betty Ruth Sybert	History	Berkeley
Nancy Faye Takacs	History	Richmond
Roy Takeuchi	History	Berkeley
Mary Jane Talbert	Regional Group Major on Hispanic America	San Francisco
Susan Maris Talbott	General Curriculum	Berkeley
Wilson Kinter Talley	Physics	Berkeley
Mary Jo Tanner	Psychology	Santa Rosa
Victor McLean Tanner	French	Del Paso Heights
Mervin Israel Tarlow	General Curriculum	Reno, Nevada
Armen Arsen Tashdininian	History	Sacramento
Kenneth Aijiro Tashiro	General Curriculum	Seaside
Angelo Jack Tassone	Psychology	San Francisco
Ronald Edward Tatum	General Curriculum	Tacoma, Washington
Cedric Gordon Taylor	Political Science	Oakland
Ellinor Fairbanks Taylor	Psychology	Sacramento
John Pritchard Taylor	Political Science	Santa Ana
Marion Elizabeth Taylor	History	Berkeley
Sheila Ninon Teager	General Curriculum	Santa Monica
Dwight Leland Teeter	Journalism	Avenal
Karl V Teeter	Oriental Languages	La Grange, Illinois
Morton Claude Terry	History	Salinas
Gerald Linde Tessum	History	Berkeley
Beverly Clasby Thayer	Child Development	Arbuckle
Lewis Edward Thomas	Decorative Art	Oakland
Melvyn Charles Thorne	Physics	San Francisco
Nina Louise Tieslau	Anthropology	Berkeley
Paul Eugene Tilden	General Curriculum	San Francisco
Eugene Parks Tilley	Economics	San Mateo
Chester Charles Tolmie	General Curriculum	Albany
Kei Tomita	Sociology and Social Institutions	Los Angeles
Walter Charles Tonelli	Physics	El Cerrito
Kenneth John Tornberg	History	San Francisco
Howard Gustav Trapp	Philosophy	San Francisco
Anna Ramona Tripp	Political Science	Bakersfield
Richard Earl Trull	Political Science	Merced
Donald Edward Truman	Psychology	Piedmont
Lloyd Tunik	Political Science	San Francisco
Sally Ann Turner	Social Welfare	Oakland
Gerald Baldwin Tutman	Physical Education	Mountain View
Ben Whitfield Twight	Wildlife Conservation	Castella
William Harold Tyler, III	Economics	El Centro
Ruth Ullman	Child Development	San Francisco
Henri Urbain	French	Violet Grove, Alberta, Canada
Manuel Sotero Urena	Regional Group Major on Hispanic America	Etiwanda
Richard Coghlan Ustick	Geological Sciences	Modesto
Regina Vaivads	French	San Francisco
Vittorio Valenza	Spanish	Oakland
Joan Van den Akker	Political Science	Los Angeles

William Franklin Van Gundy.....	Physical Education	Coachella
Peter Scott Van Houten.....	Physical Education	Santa Cruz
Roberta Silvia Vigna	General Curriculum	San Francisco
Joanne Teresa Vilardi	Psychology	San Francisco
Margaret Elizabeth Vincent.....	General Curriculum	Hamilton Air Force Base
Walter Hans Vollers.....	Psychology	Melrose Park, Illinois
Karlette Alexandra Vourlis.....	Physical Education	San Francisco
John Parsons Wade.....	General Curriculum	Atherton
Nancy Louise Wadsworth.....	Psychology	Berkeley
Abdur Rahman Wahla.....	Political Science	Punjab, Pakistan
Niels Kai Waidtlow.....	Physical Education	Oakland
Barbara Joyce Wakefield.....	History	Sacramento
Donald Lee Walker.....	Physical Education	Los Angeles
Stephen Albertus Walker.....	Recreation	Piedmont
Carol Elise Wallace.....	General Curriculum	San Francisco
Carol Sydney Waller.....	General Curriculum	San Mateo
Robert Langford Wallis.....	General Curriculum	Walnut Creek
Janet Lois Walsh.....	General Curriculum	San Gabriel
Loretta Marie Warchot.....	Sociology and Social Institutions	San Francisco
Nancy Victoria Ward.....	Political Science	San Francisco
Joan Patricia Wash.....	General Curriculum	Garden Grove
Patricia Carol Waterlow.....	French	Alameda
Katrine Breuner Watson.....	General Curriculum	San Francisco
Mary Jane Connor Watson.....	General Curriculum	Visalia
Donald Eugene Webb.....	Medical Sciences	Strathmore
Arthur Paul Weber.....	Medical Sciences	Los Angeles
Cynthia Louise Weber.....	Speech	San Francisco
Nancy Louise Webster.....	English	Sierra Madre
Jean Marilyn Weiman.....	General Curriculum	San Francisco
Barbara Boyarsky Weinberg.....	General Curriculum	Portland, Oregon
Joseph Welch	Political Science	Lowell, Massachusetts
Richard Dean Welch.....	General Curriculum	Morro Bay
Robert George Welnick.....	General Curriculum	Daly City
Jerry Charles Wendt.....	General Curriculum	Hollywood
Carol Louise Werner.....	General Curriculum	Redwood City
Ellsworth Dovell White.....	Spanish	Hayward
Matthew Bertiss White.....	Physics	Escondido
Charles Johnston Whyte, Jr.....	General Curriculum	Scarsdale, New York
Margaret Grace Wicart.....	Political Science	Santa Barbara
Byron Eugene Wicks.....	Mathematics, Statistics	Richmond
Sylvia Ruth Wies.....	General Curriculum	Encino
Joseph Stitt Wikkerink.....	Psychology	Oakland
David Miles Wilborn.....	Geological Sciences	Long Beach
Joy Lenora Wilbrand.....	Statistics	Sacramento
Carolyn Spencer Wiley.....	General Curriculum	Sacramento
Earl Philip Willens.....	Political Science	Stockton
Nadine Stoddard Willey.....	Decorative Art	Richmond
Betty Jo Williams.....	Political Science	Bakersfield
Nancy Lou Williamson.....	General Curriculum	San Mateo
John Steele Willis.....	Zoology	Pasadena
Vaden Yvonne Willis.....	English	Redding
Leland Gordon Willman.....	Political Science	Palo Alto
Clyde deClifford Willson.....	Biochemistry	Redondo Beach
Don Jefferson Wilson.....	Physical Education	Los Angeles
Susan Lowe Wilson.....	History	San Francisco
Willard Edgar Wilson.....	General Curriculum	Palos Verdes Estates
Patricia May Wininger.....	Decorative Art	Porterville
Nelson Brock Winkless, III.....	Regional Group Major on Russia and Eastern Europe	Kenilworth, Illinois
Herbert Fritz Woeller.....	Chemistry	Berlin, Germany
Jeanne Eva Wolfram.....	English	San Francisco
Richard Morlin Wolfson.....	Zoology	San Mateo
Denise May Wombwell	Journalism	San Gabriel
Anna Yut Oi Wong.....	General Curriculum	San Francisco
Ida Wong	Zoology	San Francisco
Normund Wong	Medical Sciences.....	San Francis-

Billy Gene Wood	Physics	Casey, Illinois
Janice Lorraine Wood	Political Science	Albany
Edward Reed Woodside	Paleontology	Berkeley
James Richard Wotherspoon	History	San Francisco
Herman Dietrich Wrede	General Curriculum	Berkeley
Alexandra Meredythe Wright	General Curriculum	Santa Ana
Ann Evelyn Wright	General Curriculum	Berkeley
Beverly Faye Wu	History	Oakland
Mary Lou Wyman	General Curriculum	San Bernardino
Frances Yee	History	Oakland
Charles Thompson Yerkes	French	Beverly Hills
Shizumi Yokoyama	General Curriculum	Parlier
George Duke Yonge	Psychology	El Cerrito
Bartley Gibson Young (B.S. 1953)	Physical Education	Salinas
Douglas Kendall Young	History	South Pasadena
Robert Edwin Young	English	Leesburg, Florida
Vincent Sing Yuen	Zoology	San Francisco
Ruth Zeitlin	Philosophy	Newark, New Jersey
Martin Julius Zonligt	Sociology and Social Institutions	Berkeley
Frederick Paul Zscheile, III	Medical Sciences	Davis
Zenon Bohdan Zyznomyrsky	Zoology	Berkeley

SCHOOL OF PHARMACY

The Degree of Doctor of Pharmacy upon

Berton Etienne Ballard (A.B. 1951; B.S. in Pharmacy 1955)	Berkeley
Dewey Fredrick Brown (B.S. in Pharmacy 1955)	Petaluma
John Edward Hampel (A.B. 1952; B.S. in Pharmacy 1955)	Oakland
Walter Frederick Hauser (B.S. in Pharmacy 1955)	San Carlos
Takuhei Iseri (B.S. in Pharmacy 1955)	Sacramento
Norbert Joseph McNamara (B.S. in Pharmacy 1955)	San Francisco
Dean Douglas Reavie (B.S. University of Saskatchewan 1951)	Saskatoon, Saskatchewan, Canada
Louis Tomimatsu (B.S. in Pharmacy 1955)	San Jose

COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery upon

Kazuo Arima	Los Angeles
Richard L Ashby (B.S. Brigham Young University 1952)	American Fork, Utah
Robert George Bleier (A.B. University of California, Los Angeles 1951)	Los Angeles
Richard Lewis Bryan (A.B. 1952)	Yreka
Herbert Chow	San Francisco
William Parker Curtis	Honolulu, Territory of Hawaii
Charles Russell Davis (B.S. San Diego State College 1952)	San Diego
Salvatore Di Mercurio	Monterey
Robert Gerald Dunkel	Santa Rosa
Robert Louis Friend	Riverside
Walter Wayne Fuller	Los Banos
James Joseph Garrett	Vallejo
Henry Richard Glissmeyer (B.S. University of Utah 1950)	Salt Lake City, Utah
Joseph Bernard Green	Los Angeles
Milo Lester Hewitt, Jr.	Sacramento
D Rhea Johnson	Willits
James Howard Karr	Palo Alto
Clyde Ronald King (A.B. Fresno State College 1941; M.A. Stanford University 1942)	Fresno
Gordon Eugene King	Richmond
Frank Toy Lee	San Francisco
Alfred Low	Berkeley
Friedrich Hermann Lude	Santa Clara
Hans Peter Mikkelsen (L.D.S. Danmarks Tandlaegehojskole 1928)	San Francisco
Robert Ernest Moeller (A.B. Santa Barbara College 1951)	Santa Barbara
Ronald James Nicholson	Richmond
Deryck George Nuckton (A.B. Stanford University 1952)	Palo Alto
Tod Wallace O'Connor (A.B. 1952)	Alameda
Joseph John O'Neill	Pasadena

Herbert Eugene Owens	Oakland
Dan Wayne Peterson	San Luis Obispo
Gerald Melvyn Poppers	Santa Barbara
William Jack Potikian	Fresno
Donald Raymond Poulton	Piedmont
Merien Lamon Robins	Provo, Utah
Kinji Sera (A.B. San Jose State College 1951)	San Jose
Max Terrence Sobrian	Maraval, Trinidad, British West Indies
Frank Klaas Sullivan, Jr.	Santa Rosa
John Alexander Tagg (A.B. St. Mary's College 1950)	Walnut Creek
Sho Shownosuke Takeda	Riverside
Raymond Shoichi Uchiyama (A.B. 1951)	Mountain View
Jack Steven Ures	Sacramento
William Mowrer Wagner	San Pedro
Russell Robert Wardner	Corona Del Mar
Milton Robert Wirthlin, Jr.	Hayward
Bob Yien	Sacramento

SCHOOL OF LAW

The Degree of Bachelor of Laws upon

Don Ray Adkinson (A.B. Pomona College 1950)	Dana Point
Donald Knerr Bjelke (A.B. Pomona College 1958)	Claremont
Marilyn Sue Bowman (A.B. 1953)	Bellflower
Albert Bing Chan (B.S. 1953)	San Francisco
Robert Ivan Conn (B.S. United States Naval Academy 1947)	Sausalito
Charles Daniel Boone Curry (B.S. 1951)	Whittier
James Bassel Davis (B.S. 1952)	Berkeley
Robert Joseph DeFea (A.B. 1951)	Oakland
Robert Nicholas DeJohn (A.B. 1953)	Berkeley
Elizabeth Ann deReus (A.B. University of Iowa 1950)	Berkeley
Jacques Rolf deWied (A.B. 1952)	Los Angeles
Robert James Diepenbrock (B.S. University of Santa Clara 1951)	Sacramento
Bruce Potter Dohrmann (A.B. Yale University 1951)	San Francisco
Robert Cornelius Donovan (A.B. 1953)	Berkeley
George Lewis Ebling (A.B. College of St. Thomas 1951)	Berkeley
Donald Berkeley Falconer (A.B. Yale University 1953)	Berkeley
John Joseph Franzosa (B.S. University of San Francisco 1950)	San Francisco
Harold Kenneth Friedman (A.B. 1950)	Oakland
Charles Walton Froehlich, Jr. (A.B. Stanford University 1951)	Fullerton
David Ralph Fuller (A.B. 1953)	Berkeley
Noel Bert Gassett (A.B. San Jose State College 1953)	San Jose
Richard Raymond Gore (A.B. San Diego State College 1953)	San Diego
Arnold Morton Greenberg (B.S. Indiana University 1949)	San Francisco
Michael Gene Harrington (A.B. Williams College 1953)	Piedmont
John Hayden Hews (A.B. Stanford University 1950)	Riverside
Preston Bixby Hotchkis (B.S. 1951)	San Marino
Harry Andrew Jackson (A.B. Dartmouth College 1953)	Santa Barbara
Henry Porter Johnson (B.S. University of California, Los Angeles 1951)	Malibu
Jerome Kent (B.S. University of Michigan 1952; M.A. 1954)	Berkeley
Betty Eloise Lagomarsino (A.B. University of Oregon 1950)	San Francisco
Stuart Wood Lapp (A.B. University of Southern California 1951)	Los Angeles
Robert Henry Laws, Jr. (B.S. University of San Francisco 1952)	Berkeley
Rodney Justus Lindquist, Jr. (B.S. 1951)	Berkeley
Hans Helmut Loring (Graduate University of Munich Law School 1948; J.U.D. University of Munich 1952; M.A. 1954)	Berkeley
William Robert McBay (A.B. University of California, Los Angeles 1953)	Santa Ana
Thomas Alan McCampbell (A.B. Chico State College 1953)	Chico
Lloyd Weldon McCormick (A.B. 1950)	Modesto
John Donald McFeeters, Jr. (A.B. Fresno State College 1953)	Fresno
Robert Wallace MacMahon (A.B. 1951)	Walnut Creek
William Alexander Martin (B.S. 1950)	Piedmont
Richard Hull Merrill (A.B. 1951)	Oakland
Harold Isaac Miller (A.B. 1953)	Oakland
Arthur Lawrence Murray (A.B. University of California, Los Angeles 1953)	Los Angeles
Harry Lounsbury Nelson, Jr. (A.B. Pomona College 1951)	San Marino

GRADUATE DIVISION CERTIFICATES AWARDED

CURRICULUM FOR THE TRAINING OF ELEMENTARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

Marlene Dee Anderson (A.B. 1956).....	Oakland
<i>Major: Social Studies; Minor: Psychology.</i>	
Diana Ellen Barber (A.B. 1956).....	Sacramento
<i>Major: Speech; Minor: Psychology.</i>	
Sarah Ellen Barry (A.B. 1956).....	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
Idele Dorathy Bercovich (A.B. 1956).....	Oakland
<i>Major: English; Minor: Social Studies.</i>	
Faye Adele Sargent Bohn (A.B. 1955).....	Sonora
<i>Major: Foreign Language; Minor: Social Studies.</i>	
Kathryn Lee Breslau (A.B. 1956).....	San Francisco
<i>Major: Social Studies; Minor: English.</i>	
Joan Marie Brichetto (A.B. 1956).....	Stockton
<i>Major: Social Studies; Minors: English, Psychology.</i>	
Beverly Anne Buntzler (A.B. Randolph-Macon Woman's College 1953)....	Hanford
<i>Major: Social Studies; Minor: English.</i>	
Leland Worthen Davis, Jr. (A.B. 1947).....	Berkeley
<i>Majors: English, Speech; Minor: Social Studies.</i>	
Josefa Donaire (A.B. 1955).....	Hayward
<i>Major: Foreign Language; Minor: Social Studies.</i>	
Izetta Fine Dorfman (B.S. University of Washington 1932).....	Berkeley
<i>Major: Natural Science; Minor: Social Studies.</i>	
Elva Elvira Dughi (A.B. 1955).....	San Lucas
<i>Major: Child Development; Minor: Speech.</i>	
Benjamin Fong (A.B. 1956).....	Hayward
<i>Major: Social Studies; Minor: Psychology.</i>	
Phyllis Lorraine Galbraith (A.B. 1956).....	Albany
<i>Major: Social Studies; Minor: Psychology.</i>	
Virginia Boyd Getz (A.B. 1956).....	Bakersfield
<i>Major: English; Minor: Psychology.</i>	
Kathryn Counts Gore (A.B. 1939).....	Oakland
<i>Major: Social Studies; Minor: Psychology.</i>	
Carolyn Deitch Haselkorn (A.B. 1956).....	Los Angeles
<i>Major: Social Studies; Minor: Speech.</i>	
Jeanne Meredith Hazlett (A.B. Stanford University 1955).....	San Francisco
<i>Major: Psychology; Minor: Social Studies.</i>	
Joanne Tartre Herrin (A.B. University of Washington 1950).....	San Diego
<i>Major: English; Minor: Social Studies.</i>	
Anne Schneider Hewel (A.B. 1956).....	Santa Rosa
<i>Major: Social Studies; Minor: Psychology.</i>	
Heather Marian Ipsen (A.B. 1955).....	Berkeley
<i>Major: Social Studies; Minor: Natural Science.</i>	
Mary Catherine Johnstone (A.B. 1956).....	San Diego
<i>Major: Social Studies; Minor: Social Welfare.</i>	
Jean Flaker Leschinsky (A.B. 1947).....	Oakland
<i>Major: Hispanic America Group; Minor: Art.</i>	
Rhea Letetia Ludolph (A.B. 1953).....	Oakland
<i>Major: Social Studies; Minor: Speech.</i>	
Jacqueline Nancy Malfanti (A.B. 1956).....	San Francisco
<i>Major: Social Studies; Minor: Psychology.</i>	
Thelma Susman Matheson (A.B. 1953).....	Berkeley
<i>Major: English; Minor: Psychology.</i>	
Sheila Ann Mattson (A.B. 1955).....	Martinez
<i>Major: Social Studies; Minor: Psychology.</i>	
Virginia L Kimbrell Meserole (A.B. 1953).....	Los Angeles
<i>Major: Art; Minor: Social Studies.</i>	

Meade Ann Milisich (A.B. 1955).....	Lafayette
<i>Major: Child Development; Minor: English.</i>	
Dorothy Wingate Newell (A.B. 1953).....	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
Edith Elaine Nicolaisen (A.B. 1955).....	Albany
<i>Major: Art; Minor: Social Studies.</i>	
Donia Juber Oretsky (A.B. 1948).....	Cotati
<i>Major: Social Studies; Minor: English.</i>	
Anna McCarthy Payne (A.B. 1954).....	Berkeley
<i>Major: English; Minor: Social Studies.</i>	
Marilyn June Pearce (A.B. 1954).....	Covina
<i>Major: Social Studies; Minor: Psychology.</i>	
Margaret Steedman Peralta (A.B. 1954).....	Oakland
<i>Major: Social Studies; Minor: Psychology.</i>	
George Edward Phinney (A.B. 1953).....	Bell
<i>Major: Psychology; Minor: Social Studies.</i>	
Carol Louise Proudfoot (A.B. 1956).....	Berkeley
<i>Major: English, Speech; Minor: Social Studies.</i>	
Joy Huberta Sandner (A.B. Stanford University 1953).....	Berkeley
<i>Major: Art; Minor: Social Studies.</i>	
Dolores Young Schumacher (A.B. 1951).....	Berkeley
<i>Major: Music; Minor: English.</i>	
Roberta Fradin Schwabacher (A.B. 1955).....	San Gabriel
<i>Major: Social Welfare; Minor: Social Studies.</i>	
Robert Clarence Stern (A.B. 1948).....	Berkeley
<i>Major: Foreign Language; Minor: Social Studies.</i>	
Marlena Tom (A.B. 1956).....	Berkeley
<i>Major: Social Studies; Minor: Psychology.</i>	
Dorathy Marcuse Traum (A.B. 1935).....	Berkeley
<i>Major: Social Studies; Minor: English.</i>	
Norma Schumacher Van Orden (A.B. 1941).....	Brookdale
<i>Major: Foreign Language; Minor: English.</i>	
James Randolph Wallace (A.B. 1955).....	El Cerrito
<i>Major: Social Studies; Minor: Physical Education.</i>	
Charles Joseph Williams (B.S. Oregon State College 1943).....	Pacific Grove
<i>Major: Natural Science; Minor: Social Studies.</i>	
Elizabeth Ann Williams (A.B. 1956).....	Berkeley
<i>Major: Social Studies; Minor: Psychology.</i>	
Robin Estelle Winslow (A.B. 1955).....	Palo Alto
<i>Major: Psychology; Minor: Social Studies.</i>	
June Zech (A.B. 1956).....	San Francisco
<i>Major: Speech; Minors: Social Studies, Psychology.</i>	

CURRICULUM FOR THE TRAINING OF SECONDARY SCHOOL TEACHERS

Certificate of Completion (School of Education) to

David Edward Ackerman (A.B. 1955).....	South Pasadena
<i>Major: Physical Education; Minor: Speech.</i>	
Elizabeth Alessandria (A.B. 1955).....	San Francisco
<i>Major: Spanish; Minor: French.</i>	
Jane Ashton (A.B. Stanford University 1952).....	San Marino
<i>Major: Social Studies; Minor: English.</i>	
Virginia Louise Beach (A.B. Wellesley College 1947; M.A. Johns Hopkins University 1951).....	Berkeley
<i>Major: English, Speech and Drama; Minor: Social Studies.</i>	
Louisa Erma Borghi (A.B. 1952).....	Santa Clara
<i>Major: Italian; Minor: Social Studies.</i>	
Theodore Carlin Brammer (A.B. Wayne University 1950; M.A. University of Michigan 1951).....	San Francisco
<i>Major: English; Minor: Social Studies.</i>	
Alyn Boice Brennen (A.B. Stanford University 1950).....	Sausalito
<i>Major: English; Minor: Social Studies.</i>	
Billie Jean Bridges (A.B. 1955).....	Walnut Creek
<i>Major: Physical Education; Minor: Speech.</i>	
Jacqueline Rosetta Chalmers (A.B. 1955).....	Honolulu, Territory of Hawaii
<i>Major: Mathematics; Minor: Latin.</i>	

- Barbara Clymer (A.B. 1955)..... Kentfield
Major: Social Studies; *Minor:* French.
- Bowman Chuning Collins (B.S. University of Colorado 1948; M.A. University of California, Los Angeles 1950)..... Los Angeles
Major: Physical Science; *Minor:* Mathematics.
- Carolyn Cooper (A.B. 1955)..... Berkeley
Major: Music; *Minor:* Speech.
- James Frederick Coovelis (A.B. 1954)..... El Cerrito
Major: Social Studies; *Minor:* English.
- John Peter Crevelli (A.B. 1955)..... Santa Rosa
Major: Social Studies; *Minor:* English.
- Robert Donati (A.B. 1953)..... Corte Madera
Major: Mathematics; *Minor:* Physical Science.
- Gerhard Werner Ewer (A.B. Acadia University 1944; M.A. University of Toronto 1947)..... New York, New York
Major: French; *Minor:* German.
- Richard Burl Feakes (A.B. 1955)..... El Cerrito
Major: Social Studies; *Minor:* English.
- Virginia Wilma Fenn (A.B. University of California, Los Angeles 1953) . Los Angeles
Major: English; *Minor:* French.
- William John Flodberg (A.B. 1955)..... Watsonville
Major: Social Studies; *Minor:* Physical Education.
- Robert Foo (A.B. 1955)..... Berkeley
Major: Speech; *Minor:* Social Studies.
- Austin Cleis Frank (A.B. Pomona College 1949)..... Claremont
Major: Social Studies; *Minor:* Mathematics.
- Dorothea Bain Geiger (A.B. 1955)..... Carmel
Major: Life Science; *Minor:* Physical Science.
- Daniel Edson Glines (A.B. 1955)..... Albany
Major: Physical Education; *Minor:* Social Studies.
- Harvey Burton Goddard, Jr. (A.B. Bates College 1951)..... Hartford, Connecticut
Major: Social Studies; *Minor:* Business Education.
- Ernest Edward Goodban, Jr. (A.B. 1953)..... Oakland
Major: Social Studies; *Minor:* English.
- Judson Achille Grenier (A. B. University of Minnesota 1951; Master of Journalism 1952)..... Minneapolis, Minnesota
Major: English, Speech and Journalism; *Minor:* Social Studies.
- James Courtland Hackler (B.S. 1952)..... Cupertino
Major: Social Studies; *Minor:* Business Education.
- Midori Hashimoto (A.B. 1948)..... Alameda
Major: Social Studies; *Minor:* Business Education.
- Mildred Ryan Hurd (A.B. 1955)..... Weaverville
Major: English; *Minor:* Social Studies.
- Katherine Marie Ivanovich (A.B. 1955)..... Watsonville
Major: Spanish; *Minor:* Mathematics.
- Paul Emanuel Kadden (B.S. 1945)..... Oakland
Major: Business Education; *Minors:* Social Studies, German.
- Louis Emile Kiger (A.B. 1948 and M.A. 1949 Rutgers University)
Major: Social Studies; *Minor:* English. Rahway, New Jersey
- Emil Kline (A.B. University of Redlands 1953)..... San Bernardino
Major: Social Studies; *Minor:* English.
- Ruth Marie Leacock (Ph.B. in the College, University of Chicago 1945; A.B. University of Wisconsin 1948; M.A. 1952)..... San Francisco
Major: Social Studies; *Minor:* English.
- Edith Lew (A.B. 1954)..... San Francisco
Major: Art; *Minor:* Social Studies.
- MaryAnn McCarger (A.B. 1955)..... Grenada
Major: Social Studies; *Minor:* English.
- Edward William McHugh (A.B. 1951)..... Berkeley
Major: Social Studies; *Minor:* Business Education.
- Joan Frances Maracci (A.B. 1955)..... San Francisco
Major: Speech; *Minor:* Social Studies.
- Tsukasa Matsueda (A.B. 1951)..... San Mateo
Major: Social Studies; *Minor:* English.
- Billie Jean Matthiessen (A.B. 1955)..... Whittier
Major: Speech; *Minor:* Social Studies.

John Matula (A.B. 1955)	Berkeley
<i>Major:</i> Physical Education; <i>Minor:</i> Physical Science.	
Rosemary Agnes Meehan (A.B. 1955)	Delano
<i>Major:</i> Physical Education; <i>Minor:</i> Social Studies.	
Janet Marie Mitchell (A.B. 1955)	Vallejo
<i>Major:</i> Mathematics; <i>Minor:</i> Latin.	
Robert David Mizel (A.B. 1952)	Oakland
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
Arthur Mervin Naftaly (A.B. 1955)	San Francisco
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
Nanette Emily Nelson (A.B. 1955)	Berkeley
<i>Major:</i> Speech; <i>Minor:</i> Social Studies.	
Michio Oka (A.B. 1952; M.A. 1954)	Berkeley
<i>Major:</i> Spanish; <i>Minor:</i> Social Studies.	
Jean Peppers Parcher (A.B. 1955)	Avenal
<i>Major:</i> Life Science; <i>Minor:</i> English.	
Hugh Saxon Penman (A.B. 1951)	Oakland
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
William Harper Phillips, Jr. (A.B. 1955)	Berkeley
<i>Major:</i> Physical Education; <i>Minor:</i> Life Science.	
Nancy Louise Poe (A.B. 1955)	Piedmont
<i>Major:</i> Social Studies; <i>Minor:</i> Business Education.	
Hans Achim Pohlsander (A.B. University of Utah 1954; M.A. 1955)	
<i>Major:</i> Latin; <i>Minor:</i> German. Salt Lake City, Utah	
Irene Nieder Quesnoy (A.B. 1955)	Berkeley
<i>Major:</i> Spanish; <i>Minor:</i> English.	
Irwin Thomas Quinn, Jr. (B.S. University of Santa Clara 1950)	Oakland
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
Peggy Jane Reid (A.B. 1944)	Oakland
<i>Major:</i> Spanish; <i>Minor:</i> Social Studies.	
Robert Lawrence Rottman (A.B. 1953)	Pasadena
<i>Major:</i> Spanish; <i>Minors:</i> English, French.	
Julian Edwin Schofield (A.B. University of Delaware 1949; M.A. 1951)	
<i>Major:</i> Social Studies; <i>Minor:</i> English. Wilmington, Delaware	
Gordon John Suits (A.B. 1955)	Berkeley
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
Julius Godfrey Sustaric (A.B. Cornell University 1950; M.A. University of Pennsylvania 1952)	Ridgewood, New York
<i>Major:</i> Social Studies; <i>Minor:</i> English.	
William Hoffman Thomas (A.B. 1955)	Carpinteria
<i>Major:</i> English; <i>Minor:</i> Social Studies.	
Carl Edwin Thoresen (A.B. 1955)	San Francisco
<i>Major:</i> Social Studies; <i>Minor:</i> Physical Education.	
Juan Valencia (A.B. 1955)	Hayward
<i>Major:</i> Spanish; <i>Minor:</i> Speech.	
John Mitchell Vallergera (A.B. 1955)	Berkeley
<i>Major:</i> Physical Education; <i>Minor:</i> Social Studies.	
Melvin Chester Veregga (A.B. 1955)	Berkeley
<i>Major:</i> Social Studies; <i>Minor:</i> Speech.	
Frederick William Wehking (A.B. University of Southern California 1952)	Bell
<i>Major:</i> Mathematics; <i>Minor:</i> Social Studies.	
Robert Wilson Werner (A.B. 1953)	Novato
<i>Major:</i> Social Studies; <i>Minor:</i> German.	
Kenton Stowell White (A.B. 1955)	Glendale
<i>Major:</i> English; <i>Minor:</i> Social Studies.	
Sumika Yamashita (A.B. 1955)	Oakland
<i>Major:</i> English; <i>Minor:</i> Social Studies.	

CURRICULUM FOR THE TRAINING OF SPECIAL SUPERVISORS

Certificate of Completion (School of Education) to

Ruth E Robinson Studarus (A.B. 1937; M.A. 1939)

Sacramento

CURRICULUM FOR THE TRAINING OF ELEMENTARY
SCHOOL SUPERVISORS

Certificate of Completion (School of Education) to

Violet Evelyn Sprains (A.B. 1948; M.A. 1951).....Oakland

CURRICULUM FOR THE TRAINING OF ELEMENTARY
SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

Lloyd H Parry (B.S. University of Utah 1952).....Concord
Violet Evelyn Sprains (A.B. 1948; M.A. 1951).....Oakland

CURRICULUM FOR THE TRAINING OF SECONDARY
SCHOOL ADMINISTRATORS

Certificate of Completion (School of Education) to

James Bradley Hanna (B.S. State Teachers College, Valley City, North Dakota, 1952)
Wallace, Idaho
Ellsworth Meredith Turner (B.S. 1940, M.A. 1956).....Petaluma

CURRICULUM FOR THE TRAINING OF JUNIOR COLLEGE TEACHERS

Certificate of Completion (School of Education) to

Louisa Erma Borghi (A.B. 1952).....Santa Clara
Major: Italian; *Minors:* Social Studies, Spanish.
Bruce Minton Brown (A.B. Randolph-Macon College 1951; M.A. University of
North Carolina 1956).....Pittsfield, Massachusetts
Major: Sociology and Social Institutions; *Minors:* Psychology, History.
James Frederick Coovelis (A.B. 1954).....El Cerrito
Majors: History; *Minor:* English.
Patricia Wallace Durbin (B.S. 1948; Ph.D. 1953).....Berkeley
Major: Physics; *Minor:* Mathematics.
Albert Cleveland Jones, Jr. (B.S. University of Washington 1951; M.A. 1954)
Major: Zoology; *Minor:* Mathematics. Petaluma
Arlene Esther Kaplan (A.B. 1952; M.A. 1954).....Los Angeles
Major: Sociology and Social Institutions; *Minors:* English, Anthropology.
Charles Harold Myers (A.B. San Jose State College 1954; M.A. 1956) ... Berkeley
Major: English; *Minor:* History.
Lola Elena Reshetko (A.B. 1954; M.A. 1955).....San Francisco
Major: Bacteriology; *Minor:* Zoology.
Margaret Elizabeth Reynolds (A.B. San Diego State College 1952).....San Diego
Major: Zoology; *Minor:* English.
Nikita Romanoff (A.B. 1953).....San Francisco
Major: History; *Minor:* French.
Hyman Roudman (A.B. 1936 and M.A. 1938 Ohio State University) Cleveland, Ohio
Major: History; *Minor:* English.
Robert James Schweers (B.S. University of Washington 1944; M.A. 1948)
Major: Psychology; *Minor:* Philosophy Seattle, Washington
Charles Jack Smiley (A.B. Western Washington College of Education, Bellingham,
1951; M.A. 1954).....Mt. Vernon, Washington
Major: Paleontology; *Minors:* Geology, Botany.
Finis William Wilson (A.B. 1951 and M.A. 1953 Fresno State College) ... Monterey
Major: Psychology; *Minor:* Social Studies.

CURRICULUM IN OPTOMETRY

Certificate of Completion (School of Optometry) to

Jay Roy Adams (B.S. 1955).....Berkeley
Daltha Mack Bras (B.S. 1955).....Concord
Donald Brucker (B.S. 1955).....Los Angeles
Bruce William Crystal (B.S. 1955).....Albany
William Edgar Dore (B.S. 1955).....El Cerrito
Louis Charles Fosselman (B.S. 1955).....Spreckels
David Lee Land (A.B. 1952; B.S. 1955).....El Sobrante

Niles Roth (B.S. 1955).....	Berkeley
John William Sherman (B.S. University of Illinois 1947; M. A. Stanford University 1948; B.S. 1955)	Mountain View
Ronald Lee Sylvestri (A.B. 1954; B.S. 1955).....	San Lorenzo
Fausto Oliver Vardanega (A.B. 1949; B.S. 1955).....	San Francisco
Louise Lindsay Vogelsberg (B.S. 1955).....	Berkeley
William Wan (B.S. 1955).....	Palo Alto
Lester Darwin Welch (B.S. 1955).....	Fullerton
Frank Elliott Wilson (B.S. 1949; B.S. 1955).....	San Mateo
Jason Cheng Wong (B.S. 1955).....	Alameda
Edward Rudolph Zouhar (B.S. 1955).....	La Mesa

DEGREES CONFERRED

***The Degree of Master of Bioradiology upon**

Lawrence Richards Adams	Los Angeles
A.B. Stanford University 1950.	

***The Degree of Master of Business Administration (Graduate School of Business Administration) upon**

Steven Leroy Anderson	Oakland
B.S. 1951.	
William Coombs Bagot	San Francisco
B.S. 1951.	
Donald Harold Christman	Oakland
B.S. 1951.	
Theodore James Edwards	Berkeley
B.S. 1955.	
Henry Clay Fuller, Jr.	Pleasant Grove, Alabama
A.B. Birmingham-Southern College 1949.	
Sydney Edward Hammill	Oakland
B.S. 1951.	
Mary Frances Heeny	Huntington Beach
B.S. 1955.	
George Heller	Englewood, New Jersey
A.B. Amherst College 1952.	
Hugh Allan Hoffman	El Cerrito
B.S. 1950.	
William Lee Holmquist	Oakland, Nebraska
B.S. University of Nebraska 1953.	
Guy Edward Jarach	Cauderan, France
Grad. Higher School of Commerce, Paris, France, 1953.	
Ralph Ames Johnson	Logan, Utah
B.S. Utah State Agricultural College 1952.	
James Condrie Johnston	Lynwood
A.B. 1952.	
Louis Joseph Jugum	Durham
A.B. Chico State College 1951.	
Eric Fook-Chuen Li	Hong Kong, China
B.S. University of Arkansas 1951; M.S. University of Michigan 1952.	
Ronald Francis Morrison	Berkeley
A.B. 1954.	
Adolph Orlando Nicolai	San Francisco
B.S. 1954.	
Hideyo Harry Otsuji	Berkeley
A.B. 1951.	
William Leslie Paul	Oakland
B.S. 1953.	
Richard Wilder Pierce	Berkeley
B.S. 1943.	
Robert Albert Rabe	Sioux Falls, South Dakota
B.B.A. University of Michigan 1951.	

* A comprehensive final examination in the major subject is required in lieu of a thesis.

- Richard Lutes Righter Berkeley
 B.S. 1955.
- Joseph Arnold Robinson Sacramento
 B.S. 1942.
- Harold Miller Romanowitz Alameda
 B.S. Purdue University 1955.
- John Michael Rubino San Francisco
 B.S. 1952.
- Robert James Runser Lafayette
 A.B. Amherst College 1951.
- Walter K Schätz Munich, Germany
 Grad. University of Munich 1955.
- Stanley Marvin Silverman Berkeley
 B.S. 1953.
- Jack Stednitz Los Altos
 B.S. 1953.
- Vibulya Sarakit Techasen Bangkok, Thailand
 A.B. University of Manchester 1958.
- Thomas George Trainor Albuquerque, New Mexico
 B.B.A. University of New Mexico 1949.
- Timothy Sui-tim Tse San Francisco
 A.B. San Francisco State College 1953.
- George Franklin Tucker San Leandro
 B.S. 1952.
- Alton Bernard Walker Portland, Oregon
 B.B.A. University of Washington 1952.
- James Anderson Warren, III Oakland
 B.S. 1953.
- Ernest J Y Wu Shanghai, China
 A.B. Soochow University 1948; B.S. 1955.

The Degree of Master of City Planning upon

- William August Doebele, Jr. San Francisco
 A.B. Princeton University 1948; LL.B. Harvard University 1951.
Thesis: The government and planning of metropolitan regions: a proposed conceptual system.
- Robert Edward Grunwald Visalia
 B.S. University of Wisconsin 1952.
Thesis: Projecting commercial land requirements: an improved method for city planners.
- Morton Hoppenfeld New York, New York
 B.Arch. Massachusetts Institute of Technology 1952.
Thesis: The provision of community facilities for a rapidly growing small city.
- Rafael Luis Ignacio Cabo Rojo, Puerto Rico
 B.S. University of Puerto Rico 1949.
Thesis: The urban planning function in Puerto Rico.
- Douglas Edward Joy San Luis Obispo
 B.S. California State Polytechnic College 1954.
Thesis: Undergraduate training in city and regional planning.
- Farnum Woodward Kerr San Mateo
 B.S. University of Michigan 1946.
Thesis: A case study of planning public relations in southeastern Napa County, California.
- Norman Julien Lind San Francisco
 A.B. 1954.
Thesis: California legislation for urban renewal.
- George Goodrich Mader Glendale
 A.B. University of California, Los Angeles 1952.
Thesis: Planning for agriculture in urbanizing areas: a case study of Santa Clara County, California.
- Leon Karp Rimov Berkeley
 B.S. 1951.
Thesis: Coordination of the subdivision approval process in California.
- Joan Roy Sunderland Ottawa, Ontario, Canada
 A.B. University of Toronto 1952; M.A. 1955.
Thesis: Planning at the provincial level: the Ontario experience.

Bruce Everard Woelfel Columbus, Ohio
 B.Arch. Ohio State University 1953.
Thesis: Planning the library center in a rapidly growing city.

***The Degree of Master of Dental Surgery (College of Dentistry) upon**

Frank Wilson Chambers Star City, Oklahoma
 D.D.S. Washington University 1951.

***The Degree of Master of Engineering upon**

Philip Sidney Brown, Jr. Transportation Engineering
 B.S. St. Martin's College, Olympia. Washington, 1949. Olympia, Washington
 George Olding Grant Transportation Engineering
 Port Credit, Ontario, Canada
 B.S. Queen's University, Kingston, Ontario, Canada, 1942.
 Michael Lash, Jr. Transportation Engineering
 B.N.S. 1946 and B.S. 1950 Tufts College. Yonkers, New York
 Thomas Trengove McLeod Transportation Engineering
 B.S. University of Washington 1952. Lynden, Washington
 John Paul Maurer Process Engineering Berkeley
 B.S. 1955.
 Howard Russell May Civil Engineering Long Beach
 B.S. 1951.
 Dale Charles Perry Civil Engineering Salt Lake City, Utah
 B.S. University of Utah 1953.
 James Christian Ray Transportation Engineering
 B.S. and B.C.E. University of Minnesota, 1952. St. Paul, Minnesota
 Glenard Walter Rodgers Transportation Engineering Paradise
 B.S. Chico State College 1952.
 Bayard Turner Sansom Petroleum Engineering Ragland, Alabama
 B.S. United States Naval Academy 1947
 Ruell Arnold Searson Petroleum Engineering Clearwater, Florida
 B.S. United States Naval Academy 1948.
 Kenneth Eric Snelson Irrigation Richmond, England
 A.B. 1945 and M.A. 1951 University of Cambridge.
 James Albert Willis Civil Engineering Long Beach
 B.S. Colorado Agricultural and Mechanical College 1952.
 James Poy Wong Civil Engineering San Francisco
 B.S. 1949.

***The Degree of Master of Forestry (School of Forestry) upon**

Wilbur Gene Charter Albany
 B.S. 1953.
 Neil Bennie Opsal Los Angeles
 B.S. 1953.

****The Degree of Master of Journalism upon**

Silvino Pugeda Chico Manila, Philippines
 A.B. San Diego State College 1953.
Thesis: A history of the press and public opinion in the Philippines.

†The Degree of Master of Library Science (School of Librarianship) upon

Robert-Peter Aby Berkeley
 A.B. Stanford University 1944; M.A. University of California, Los Angeles 1947;
 Ph.D. Stanford University 1955.
 Ruth Kluger Angress Forest Hills, New York
 A.B. Hunter College 1950; M.A. 1953.
 Rexford Stuart Beckham Berkeley
 A.B. 1952.

* 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.

† A candidate may qualify for the degree on the basis of a prescribed course of study and a thesis or a prescribed course of study alone.

Robert Mont Berg	Berkeley
A.B. 1942.	
Joseph William Bingaman	Berkeley
A.B. 1947; M.A. 1952.	
Muriel Fenerty Boardman	San Diego
A.B. San Diego State College 1939.	
John Theodore Demos	Oakland
A.B. 1951; M.A. 1953.	
Charles Whitney Evans	San Diego
A.B. San Diego State College 1952.	
Hilda Wirth Federico	Long Island City, New York
A.B. Hunter College 1952.	
Grace Helen Fleming	Vacaville
A.B. Boston University 1945.	
Julius Arthur Freed	San Francisco
A.B. 1951.	
Marc Gittelsohn	Berkeley
A.B. 1950.	
Robert Wallis Grenfell	Colusa
A.B. Stanford University 1949.	
Miriam Elizabeth Hummel	Crockett
B.S. 1940; M.S. 1947.	
Harold Roe Hungerford, Jr.	Cupertino
A.B. 1954.	
Dolores Magdalene Lawless	Long Beach
A.B. 1950.	
Margaret Beulah McConnell	Oakland
A.B. 1955.	
William Francis McCoy	El Cerrito
A.B. 1951; M.A. 1952.	
Catherine Elynor Morton	Martinez
A.B. 1947; A.B. 1951 and M.A. 1954 University of Oxford.	
Betty Gene Nesbit	Carpinteria
A.B. 1951; M.S. Oregon State College 1954.	
Clara Lora Palovic	Milwaukee, Wisconsin
A.B. University of Illinois 1941; M.A. Ohio State University 1947.	
Mileva Prodanovich	Oakland
A.B. 1954.	
Dale Ronald Roylance	Salt Lake City, Utah
A.B. University of Utah 1948; M.A. San Francisco State College 1956.	
Felicitas Carla Wohlwill	Richmond
A.B. 1955.	
Paul John Wonner	El Cajon
A.B. 1952; M.A. 1953.	

***The Degree of Master of Optometry (School of Optometry) upon**

Jay Roy Adams	Berkeley
B.S. 1955.	
Daltha Mack Bras	Concord
B.S. 1955.	
Bruce William Crystal	Albany
B.S. 1955.	
Niles Roth	Berkeley
B.S. 1955.	
Robert Steffen	Redwood City
B.S. 1954.	
Ronald Lee Sylvestri	Albany
A.B. 1954; B.S. 1955.	
Fausto Oliver Vardanega	San Francisco
A.B. 1949; B.S. 1955.	
Lester Darwin Welch	Oakland
B.S. 1955.	
Frank Elliott Wilson	San Mateo
B.S. 1949; B.S. 1955.	

* A comprehensive final examination in the major subject is required in lieu of a thesis.

- Jason Cheng Wong Alameda
B.S. 1955.
Edward Rudolph Zouhar La Mesa
B.S. 1955.

****The Degree of Master of Public Health (School of Public Health) upon**

- Thomas Gilbert Akers Castro Valley
B.S. 1950.
Percy Wilkins Arkle Nanaimo, British Columbia, Canada
D.D.S. 1943 and B.S. 1944 University of Toronto.
Morteza Gholi Arshadi Isfahan, Iran
D.V.M. University of Teheran 1940.
Fakhry Ayyad Assaad Heliopolis, Egypt
M.D. University of Cairo 1947.
Dean Lenord Benson Salt Lake City, Utah
B.S. Utah State Agricultural College 1950.
Loyd Warren Bond Madera
B.S. Roanoke College 1949; M.D. University of Virginia 1952.
Velena Boyd Berkeley
B.S. 1948.
Gavino Martin Carpio Manila, Philippines
B.S. University of the Philippines 1933.
Burabha Chantasut Bangkok, Thailand
M.D. University of Medical Sciences, Thailand, 1952; M.P.H. School of Public
Health, Thailand, 1953.
Kwok Bing Choy Hong Kong, China
A.B. University of Hong Kong 1940.
Mary Honoria Clark Gilroy
A.B. 1938; M.D. 1942.
Peter Gilbert Comeau Seattle, Washington
B.S. University of Washington 1943.
Robert David Courter Atlanta, Georgia
D.V.M. Iowa State College of Agriculture and Mechanic Arts 1936.
George A De Lange Denver, Colorado
B.S. University of Denver 1950.
Herbert Francis Dennin Quincy, Massachusetts
B.S. Boston College 1951.
Katherine Jean Edgar Honolulu, Territory of Hawaii
A.B. 1927 and M.D. 1931 University of Oregon.
Abdul Jabbar El-Baghdadi Baghdad, Iraq
Bachelor of Medicine and Surgery, Royal College of Medicine, Iraq, 1941.
Charles Harold Fish Los Angeles
A.B. 1936 and M.A. 1938 University of California, Los Angeles; M.D. 1946.
Daniel Howard Fletcher Martinez
B.S. 1954.
Irma Elizabeth Fletcher Statesboro, Georgia
M.D. Medical College of Georgia 1939.
James Tranun Harrison Encino
A.B. 1947; M.D. 1953.
Ruth Jolly Hauck Castro Valley
B.S. 1946, M.B. 1947, and M.D. 1948 University of Minnesota.
Julio Landeros Juarez Hayward
B.S. 1950.
Stanley Hubert Judd Richmond
B.S. University of California, Los Angeles 1949.
Attaollah Tabibzadeh Kordestani Teheran, Iran
M.D. Faculty of Medicine, Teheran, Iran, 1931.
Edith Vivian Krabach Oakland
B.S. 1954.
Narciso Reyes Lapuz Pasay City, Philippines
D.V.M. University of the Philippines 1953.
Ross Charles Ledbetter Bellflower
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.

- Wayne Walter LoretzOakland
A.B. 1949.
- Pastor Alejandro LozadaPolo, Philippines
B.S. University of the Philippines 1933.
- Stuart Jerome MarylanderEl Cerrito
B.S. 1953.
- Eugene Watkins MinardPalo Alto
A.B. 1946 and M.D. 1949 Stanford University.
- Alfred Muller, Jr.San Bernardino
B.S. San Diego State College 1954.
- Joseph Earl MulroyTaft
B.S. 1951.
- Michael Elliott PalkoRegina, Saskatchewan, Canada
A.B. University of Saskatchewan 1953.
- Yonglaab PanjavanLampang, Thailand
M.D. University of Medical Sciences, Thailand, 1945; M.P.H. School of Public
Health, Thailand, 1953.
- Chai Bin ParkSeoul, Korea
M.D. Seoul National University 1949.
- Manuel PerezSan Jose
B.S. 1954.
- Reimert Thoralf RavenholtSeattle, Washington
B.S. 1948, B.Med. 1951, and M.D. 1952 University of Minnesota.
- Donald William RingleyClinton, Ohio
D.V.M. Ohio State University 1951.
- James Givens Roney, Jr.Dallas, Texas
A.B. Texas Technological College 1939; M.D. Marquette University 1948; Ph.D.
1955.
- James Victor SmithSalt Lake City, Utah
B.S. 1948 and M.S. 1950 University of Utah.
- Daphnis Ferreira SoutoRio de Janeiro, Brazil
M.D. University of Brazil 1947.
- Zeinol-Abedin TabariTeheran, Iran
M.D. Faculty of Medicine, Teheran, Iran, 1933.
- José Maria Murgel TaveiraNiteroi, Brazil
Engineer, University of Brazil 1954.
- Joseph Lee TaylorPortland, Oregon
B.S. University of California, Los Angeles 1949.
- Joseph Vincent ThomSan Francisco
B.S. The City College, New York, 1943.
- George Hiroshi TokuyamaHonolulu, Territory of Hawaii
A.B. University of Hawaii 1947.
- Frederick William Trader, Jr.Detroit, Michigan
A.B. University of Dubuque 1942.
- Gordon Willfred WernerEast Dubuque, Illinois
B.S. Loras College, Dubuque, Iowa, 1948; B.S. State Teachers College, Platte-
ville, Wisconsin, 1949.

*****The Degree of Master of Social Welfare (School of Social Welfare) upon**

- Allene Helen AgorAberdeen, South Dakota
A.B. University of Colorado 1947.
- Mary Margaret AhernBaldwin Park
A.B. 1954.
- Barbara Jean AllenInglewood
A.B. Pasadena College 1954.
- Evelyn Lowen AptePortland, Oregon
A.B. 1951.
- Midori AraiBerkeley
A.B. 1954.
- Robert Edgar BaldrigeSan Francisco
A.B. San Francisco State College 1954.
- Betty Jane BalsigerWhite Salmon, Washington
B.S. Oregon State College 1942.

*** A candidate may qualify for the degree on the basis of a thesis and a comprehensive examination or a comprehensive examination alone.

- Helen Sennett Bonapart Tucson, Arizona
A.B. University of Arizona 1954.
- Mary Chandler Bronson Richmond
A.B. Vassar College 1945.
- Helen June Bruton Saginaw, Michigan
A.B. Michigan State College 1953.
- Barbara Jeanne Bryant Oakland
B.S. Howard University 1954.
- Luis Carrillo San Francisco
A.B. The City College, New York, 1953.
- Evalyn Shirley Carver Pasadena
A.B. Pasadena College 1954.
- Marie Therese Clancy Berkeley
A.B. 1954.
- Judith Clark Los Angeles
A.B. University of California, Los Angeles 1932.
- Ethel Cotovsky Chicago, Illinois
A.B. Roosevelt College of Chicago 1953.
- Dorothea Darling Cudaback Alameda
A.B. 1949.
- Elmira Jean Curry Great Falls, Montana
B.S. Northwestern University 1949.
- John Laurie Davison Redwood City
A.B. San Jose State College 1950.
- Felisa Maimoni de Poveda Pasadena
A.B. 1953; A.B. 1954.
- Daniel Melvin DeSoto Richmond
A.B. 1951.
- Marie Ann Duffy San Francisco
A.B. University of Wisconsin 1948.
- John Paul Dunn Redwood City
B.S. University of Santa Clara 1951.
- Alide Eberhard Berkeley
A.B. 1953.
- Thelma Dunn Elkins San Francisco
A.B. Hunter College 1947.
- Margaret Taylor Fanger Long Beach
A.B. 1951.
- Geraldine Mabel Francisco Sacramento
A.B. University of Wyoming 1939.
- Anne Frankel San Francisco
A.B. 1951.
- Orville George Garrison Portland, Oregon
A.B. University of Portland 1951.
- Phillip Patrick Gibbons Portland, Oregon
A.B. University of Portland 1951.
- Archie James Hanlan Berkeley
A.B. 1949.
- Ada Moszkowski Harrison Berkeley
A.B. 1954.
- Kenneth James Harvey Santa Barbara
A.B. University of California, Santa Barbara College 1950.
- Mary Barnsley Harvey Los Angeles
A.B. University of California, Los Angeles 1929.
- William Olmstead Holmes Atascadero
A.B. San Jose State College 1949.
- Rosalyn Pearl Kartun Berkeley
A.B. 1954.
- Evelyn Ketzlach Seattle, Washington
A.B. University of Washington 1954.
- Audrey Frieda Laatsch Milwaukee, Wisconsin
A.B. University of Wisconsin 1953.
- Louis Leveen Burbank
A.B. University of California, Los Angeles 1954.
- Jacqueline London Berkeley
A.B. 1953.

- Charles William Lucius Santa Monica
A.B. 1947.
- Myrtle Carlson Lytle Kerman
A.B. 1928.
- Dolores Gabrielle Manning San Diego
A.B. San Diego State College 1953.
- Michael Rodriguez Martinez Los Angeles
A.B. Montana State University 1950.
- Frances Shober Matson Cincinnati, Ohio
A.B. University of Cincinnati 1951.
- Aeolian Lorretta Mayo Washington, District of Columbia
A.B. Howard University 1954.
- Helen Goodman Miles Oakland
A.B. 1947.
- Mary Knight Miles Berkeley
A.B. University of Utah 1939.
- Connie Harris Miser Fair Oaks
A.B. San Jose State College 1953.
- Kenneth Wayne Morgan Whittier
A.B. Whittier College 1951.
- Mary Virginia Murgotten San Francisco
A.B. University of Nevada 1936.
- Carle Francis O'Neil Kalispell, Montana
A.B. Carleton College 1943; M.A. Montana State
University 1948.
- Mary Anne Pagliaro San Diego
A.B. Brown University 1946.
- Dorothy Yancey Poling Clovis
A.B. Fresno State College 1933.
- Paul Henry Raymer Long Beach
A.B. 1953.
- John Marsh Riley San Francisco
B.S. University of Wisconsin 1952.
- Lois Bernice Robart Richmond
A.B. Pasadena College 1954.
- Ilse Marion Salomon Los Angeles
A.B. Los Angeles State College 1954.
- Albert Savedra Berkeley
A.B. San Francisco State College 1954.
- Lois Vickland Schleimer Berkeley
A.B. San Francisco State College 1952.
- Anatole Harold Shaffer Brooklyn, New York
A.B. Brooklyn College 1954.
- Barbara Kishner Sherman Los Angeles
A.B. 1953.
- Murl Carr Soles Berkeley
A.B. University of Minnesota 1949.
- Norah Nightingale Soreck Fresno
A.B. Fresno State College 1954.
- Roberta Georgeson Spiegl Eureka
A.B. 1926; LL.B. 1928.
- Nancy Curtis Stickney Long Beach
A.B. 1954.
- Natalia Paine Surendorf El Centro
Ed.B. University of California, Los Angeles 1934.
- Clarence Arthur Terhune Roseville
A.B. San Jose State College 1954.
- Claire Nelson Tierney Pasadena
A.B. 1954.
- Patricia Ann Tornell Glendale
A.B. 1953.
- Lois Feldman Tuchler Fairfax
A.B. San Francisco State College 1950.
- Cordelia Ann Van Scoyoc Cedarville
A.B. 1950.

- Martha Jean Walter Portland, Oregon
B.S. University of Oregon 1953.
- John Robert Weber South Pasadena
A.B. Indiana University 1951.
- Mary Merrill Williams San Francisco
A.B. 1939; M.A. 1953.
- Agnes Bierwagen Worthman Berkeley
A.B. 1945.
- Geraldine Brown Young El Cerrito
A.B. 1935.
- Serapio Richard Zalba, Jr. San Francisco
A.B. 1951.

****The Degree of Master of Science upon**

- Hassan Suliman Abu Salih Khartoum, Sudan
Plant Pathology Khartoum, Sudan
Grad. University College of Khartoum 1953.
- Khatchig Hamparsoum Ateshian ... Baghdad, Iraq
Irrigation Baghdad, Iraq
B.S. 1955.
Thesis: Desert irrigation.
- William Allen Atkinson Berkeley
Forestry Berkeley
B.S. 1955.
Thesis: A method for the recreational evaluation of forest land.
- Terry Chadwick Burnley, England
Civil Engineering Burnley, England
B.S. University of Leeds 1955.
- Roger Charles Clemens Alameda
Forestry Alameda
B.S. 1941.
Thesis: Development of forestry courses in the secondary schools of the redwood region.
- Howard Duane Collier Chowchilla
Pharmacology Chowchilla
A.B. 1953.
Thesis: Hemodynamic effects of sympathomimetic amines.
- Phillip Dow Compton, Jr. Long Beach
Electrical Engineering Long Beach
B.S. 1952.
Thesis: A study of the semiconducting properties of anodic films.
- Israel Dagan Tel-Aviv, Israel
Civil Engineering Tel-Aviv, Israel
B.S. 1954.
Thesis: Discharge characteristics of suppressed oblique weirs.
- William Edward Ferguson Oakland
Entomology Oakland
B.S. 1946.
Thesis: A revision of the genus *Photopsis* of California (Hymenoptera: Mutilidae).
- F Robert Gartner Berkeley
Range Management Berkeley
B.S. University of Wyoming 1950.
Thesis: Competition between *Lolium multiflorum* and *Ceanothus cuneatus* for nitrogen on two different soil types.
- Charles Anson Graham El Cerrito
Forestry El Cerrito
B.S. 1949.
Thesis: Some reactions of annual vegetation to fire on Sierra Nevada foothill range land.
- Richard Hudson Harris Oakland
Sanitary Engineering Oakland
A.B. University of California, Los Angeles 1950.
- Ronald Robert Henley Oakdale
Engineering Science Oakdale
A.B. 1955.
- Lawrence Paul Huelsman Cleveland, Ohio
Electrical Engineering Cleveland, Ohio
B.S. Case Institute of Technology 1950.
Thesis: An investigation of some applications of ferroresonance.
- Charles Orcutt Hulse Asbury Park, New Jersey
Ceramic Engineering Asbury Park, New Jersey
B.S. Rutgers University 1951.
Thesis: An analysis of the creep of some ceramic materials.
- Roger James Spokane, Washington
Sanitary Engineering Spokane, Washington
B.S. University of Washington 1938.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Harry Alan Johnson Civil Engineering Glendale
B.Eng. University of Southern California 1953.
- Takashi Theodore Kadota Electrical Engineering ... Toyonaka-Shi, Japan
B.S. Yokohama National University 1953.
Thesis: Transient analysis of magnetic amplifiers by difference equations.
- Hans Kaiser Civil Engineering Amsterdam, Netherlands
Grad. 1953 and Engineer 1955 Technical Institute, Delft, Netherlands.
- André Kania Civil Engineering Vichy, France
Engineer, National School of Bridges and Highways, Paris, France, 1955.
- Seward Russell Keim Civil Engineering Berkeley
B.S. 1950.
Thesis: Fluid resistance to cylinders in accelerated motion.
- Richard Donald Kelch Electrical Engineering ... Sharon, Pennsylvania
B.S. University of Notre Dame 1954.
Thesis: High-speed low-inductance switch.
- John Weston Klock Sanitary Engineering Pasadena
B.S. University of Southern California 1951.
- Peter Gregory Koltnow Civil Engineering Dayton, Ohio
B.S. Antioch College 1951.
- Stanley Liebert Krugman Forestry St. Louis, Missouri
B.S. University of Missouri 1955.
Thesis: The anthocyanin and leuco-anthocyanins of sugar pine (*Pinus lambertiana* Dougl.) seedlings.
- François Jean Lampietti Mining Engineering San Francisco
B.S. 1955.
Thesis: An application of statistical methods to the study of ore deposits.
- Robert Lee Langston Entomology Berkeley
B.S. 1950.
Thesis: A synopsis of hymenopterous parasites of California *Malacosoma*.
- Theodore Edmund Leonard Civil Engineering Portland, Oregon
B.S. Oregon State College 1950.
- Gordon Chee Louie Sanitary Engineering San Francisco
B.S. 1955.
- Diane Kostial McGuire Landscape Architecture Berkeley
B.S. 1954.
Thesis: Frederick Law Olmsted in California: an analysis of his contributions to landscape architecture and city planning.
- Hugh Montgomery Engineering Science
B.S. Union College, Schenectady, New York, 1950. Port Washington, New York
- David Nitzan Electrical Engineering Haifa, Israel
B.S. Hebrew Institute of Technology, Haifa, Israel, 1951.
Thesis: Analysis of self-saturated magnetic amplifier, A-C circuit.
- Masao Ohta Chemistry Tokyo, Japan
M.Eng. Kyoto University 1943.
- Raymond Leonard Orr Engineering Science Berkeley
B.S. 1949.
Thesis: The heats of formation of solid gold-copper alloys.
- Richard Grant Peterson Food Science Des Moines, Iowa
B.S. Iowa State College 1952.
Thesis: Pigment formation in onion tissue macerates.
- Gabriel Leon Plaa Comparative Pharmacology and Toxicology
B.S. 1952. Oakland
Thesis: A method for the simultaneous determination of diphenylhydantoin and phenobarbital and its clinical application.
- George Plafker Geology Sacramento
B.S. Brooklyn College 1949.
Thesis: Geology of the southwest part of the Kaweah Quadrangle, California.
- John Del Randall Engineering Science Berkeley
B.S. 1955.
- Peter Angelo Ratto Pharmaceutical Chemistry Daly City
B.S. 1951.
- Charlotte Kaoru Saito Nursing Sacramento
B.S. 1954.
- Samuel Salkin Civil Engineering Los Angeles
B.S. 1955.

- Henry John Romero Sanson Sanitary Engineering São Paulo, Brazil
Engineer, MacKenzie University, Brazil, 1954.
- David Richard Sawle Engineering Science . . . Mazomanie, Wisconsin
B.S. University of Wisconsin 1951.
- Kenneth Eugene Secor Civil Engineering Berkeley
B.S. 1955.
Thesis: Flexibility studies of asphaltic paving mixtures.
- Winfried Klaus Seifert Electrical Engineering . . . Erlangen, Germany
Engineer, Technical Institute, Darmstadt, Germany, 1952.
Thesis: Low-inductance high-speed switch.
- Alvin David Senter Dentistry Los Angeles
B.S. 1942; B.S. 1945; D.D.S. 1946.
Thesis: Respiration of gingival tissue.
- Jack Richard Sheehan Geology Sacramento
B.S. Oregon State College 1953.
Thesis: The structure and stratigraphy of northwestern Contra Costa County,
California.
- John Cohea Sherwin Engineering Science Santa Ana
B.S. 1949.
- Balraj Gnana Sokkappa Electrical Engineering Madura, India
B. Eng. University of Madras 1952.
Thesis: Design of permeameter for investigating cross fields in magnetic
materials.
- William Russell Spillers Civil Engineering Fresno
B.S. 1955.
- Yoshio Tomimatsu Chemistry Berkeley
B.S. 1941.
- Daniel Falcon Wald Electrical Engineering San Francisco
B.S. 1951.
Thesis: An energy meter for short duration impulses.
- Masamichi Watanabe Mechanical Engineering San Francisco
B.S. 1954.
* *Thesis:* The analysis and design of a mechanical differentiator.
- Jack Duane Weber Mechanical Engineering Escondido
B.S. 1955.
Thesis: A new machine for the rapid and automatic differentiation of any curve.
- Robin Ivor Welch Forestry Walnut Creek
B.S. 1955.
Thesis: Procurement of aerial photography for forestry purposes.
- George G Witter, Jr. Geology Altadena
B.S.E. Princeton University 1955.
- Amnon Yariv Electrical Engineering Albany
B.S. 1954.
Thesis: Design and analysis of a velocity analyzer for electron beams.
- Enrico Zuegg Food Science Lana d'Adige, Italy
Engineer, Technical Institute, Graz, Austria, 1953.
Thesis: Peroxidase assay in vegetable tissue by ascorbic acid oxidation pro-
cedures.

****The Degree of Master of Arts upon**

- Arthur Reed Abel History Tucson, Arizona
A.B. 1951.
- Nancy Lou Albright Education Oakland
A.B. East Carolina Teachers College 1940.
- John Theodore Alfors Geology Parlier
A.B. 1952.
- Maliha Awni Al-Kassir Sociology and Social Institutions, Baghdad, Iraq
A.B. 1952; A.B. 1953.
Thesis: The Iraqi's family.
- Clara L Allison Physical Education Los Angeles
A.B. Santa Barbara College 1952.

** A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Geraldine Joyce AndersenArtCupertino
A.B. San Jose State College 1950.
- George Esborne AndersonHistoryBerkeley
A.B. 1947.
Thesis: The Hoopa Valley Indian Reservation in northwestern California: a study of its origins.
- Joe Harland ApfelPhysicsRedding
A.B. 1954.
- John Edward BairdHistoryBerkeley
A.B. 1955.
Thesis: San Lorenzo de Nuca, Spain's northernmost outpost.
- Harold Charles D'Ebro
BarracloughGermanMelbourne, Australia
A.B. University of Melbourne 1949.
- Philip Werner BaumeisterPhysicsBurlingame
B.S. Stanford University 1950.
- John Maurice BeattieHistorySan Rafael
B.S. University of San Francisco 1954.
- Larry D BensonEnglishRichmond
A.B. 1954.
- Ruth BeutlerChild DevelopmentLos Angeles
A.B. in the College, University of Chicago 1952; A.B. 1954.
Thesis: The relationship of socio-economic class to children's perception of their parents.
- Olga Serge BezradetzkySlavic Languages and Literatures. San Francisco
A.B. 1953.
- Ralph Henry BierceEnglishOakland
A.B. 1954.
- John Patrick BieterHistoryFaribault, Minnesota
A.B. College of St. Thomas, St. Paul, Minnesota, 1952.
- Louisa Erma BorghiItalianSanta Clara
A.B. 1952.
Thesis: Women who inspired Italian poets.
- William Holmes BoutonEducationOakland
A.B. San Francisco State College 1946.
- John Freeman BrickerHistoryAlameda
A.B. Michigan State College 1943.
- Ronald Gene BrocchiniArchitectureOakland
A.B. 1953.
Thesis: The Peralta Park Development.
- Elbert Mitja BrockZoologyAlameda
A.B. 1953.
Thesis: Biology of the midge *Cricotopus* inhabiting the alga *Nostoc* in California.
- David Eugene BurkeArtOakland
A.B. 1954.
- Hugh Latimer BurlesonPolitical ScienceBerkeley
A.B. 1954.
Thesis: The Kokuryu kai in northeast Asia: its activities and its significance in the development of Japanese foreign policy.
- Margot Mildred CampbellArtCarmel
A.B. 1954.
- Armand CanepaBiochemistryDaly City
A.B. 1952.
- Thelma May CarderEducationOakland
A.B. 1945.
- George Dean ChangarisEducationMarysville
A.B. 1950.
- William Lewis CollierDecorative ArtPasadena
A.B. Antioch College 1952.
Thesis: Representative potters of northern California: their work and philosophy.
- James Frederick CoovelisHistoryEl Cerrito
A.B. 1954.
Thesis: The foreign policy of Ernest Bevin toward Soviet Russia, 1945-1950.
- John Michael CreedonMathematicsWellston, Ohio
B.S. Purdue University 1952.

- Michel Louis CroptierEconomics Geneva, Switzerland
Licence, University of Geneva 1951.
Thesis: United States tariff on watches, 1920–1954.
- George Ross DavisScandinavian Languages and Literatures
A.B. 1954 Berkeley
- Rodman Odell DavisArchitecture Denver, Colorado
A.B. University of Denver 1952; B.Arch. University of Utah 1953.
Thesis: An architectural study for the winter olympics at Squaw Valley, 1960.
- Clara DaytonEducation Sausalito
A.B. San Francisco State College 1940.
- Jacques Joseph DesplatEconomics Paris, France
A.B. 1954.
Thesis: Foremen and the law.
- John Joseph DonovanPolitical Science Pittsburg
A.B. 1950.
Thesis: The political thought of David Herbert Lawrence.
- John Herman DoscherEducation St. Albans, New York
A.B. University of Colorado 1953.
- George Robertson Duncan, Jr.ArchitectureOakland
A.B. 1953.
Thesis: A continuing education center for the University of California, Berkeley campus.
- Thomas Bruce DuttonEducation Berkeley
A.B. 1954.
- Francis Andrews EckerArchitecture Oakland
A.B. 1955.
Thesis: The rehabilitation of urban commercial areas.
- David Kurt EitemanEconomics Ann Arbor, Michigan
B.B.A. University of Michigan 1952.
Thesis: The economic effects of the postwar land reform in Japan.
- Wilma Finch FeltonEducation Berkeley
A.B. Upper Iowa University 1928.
- Dale Thompson FletcherArt Logan, Utah
B.S. Utah State Agricultural College 1953.
- John Bentley FolsomEnglish Framingham, Massachusetts
A.B. Yale University 1953.
- Julius Arthur FreedAnthropology San Francisco
A.B. 1951.
Thesis: The historical development of Malay nationalism: an analysis and appraisal.
- Robert Henry FriersonEducation Palo Alto
B.S. University of Illinois 1946.
- Kathryn Elaine FryEducation Spearville, Kansas
A.B. College of Emporia, Kansas, 1947.
- Joseph Francis GantnerZoology Oakland
A.B. 1941.
Thesis: A test for recombinational lethals in the second chromosome of *Drosophila melanogaster*.
- Eugene Giles, IIPaleontology Salt Lake City, Utah
A.B. Harvard University 1955.
Thesis: Multivariate analysis of Pleistocene and recent coyotes in California.
- George Vladimir GrekoffSlavic Languages and Literatures
A.B. 1949. San Francisco
- Zaven Geo GuiragossianPhysics Cairo, Egypt
A.B. 1955.
- Wallace Lyle Haas, Jr.Architecture Berkeley
A.B. 1955.
Thesis: The industrial site: a problem for industry and community.
- Margarete Gertrud HagnerFrench Freiburg, Germany
A.B. 1954.
- Rupert Edwin Halley, Jr.Art Little Rock, Arkansas
A.B. University of Arkansas 1948.
- Robert Lee HarperHistory Berkeley
A.B. Pomona College 1949.

- Charles Willard Hess History of Art Long Beach
 A.B. University of California, Los Angeles 1949.
Thesis: Some inscribed bronzes of Eastern Chou.
- Curtis Keith Hinrichs Physics Burbank
 A.B. 1953.
- Richard Holzer Architecture Panama City, Panama
 A.B. University of Panama 1951.
Thesis: Climatic considerations for architectural design in the humid tropics.
- Donald Allison Honer Architecture Santa Ana
 A.B. 1953.
Thesis: The significance of decoration in architecture.
- Daniel Jay Hurt Sociology and Social Institutions Alameda
 A.B. 1955.
Thesis: The idea of freedom in America to the eve of the Revolution: social process and the intellectual.
- Alice Nelson Hyatt Education El Cerrito
 A.B. University of Arkansas 1931.
- Neil David Isaacs English New Haven, Connecticut
 A.B. Dartmouth College 1953.
- William Kendall Jannoch History San Diego
 A.B. Pomona College 1952.
- Harold Hunt Johnson Mathematics San Jose
 A.B. San Jose State College 1951.
- Roy Albert Johnson Education Oakland
 A.B. 1930.
- Eva Marianne Kallin Mathematics San Francisco
 A.B. 1953.
- Alvin Kapusta Slavic Languages and Literatures
 B.S. Minot State Teachers College, North Dakota, 1951. Max, North Dakota
- Robert Walter Kedzie Physics Milwaukee, Wisconsin
 B.S. Marquette University 1954.
- Melvin Milton Kessler Slavic Studies Los Angeles
 A.B. 1949.
Thesis: Russian expeditions to Western Turkestan, 1819–1840.
- Dee Morgan Kilpatrick Sociology and Social Institutions
 A.B. Le Moyne College, Memphis, Tennessee, 1951. Memphis, Tennessee
Thesis: Communication structure in a group decision process.
- Phyllis Ann Kotite History Kentfield
 A.B. 1952.
Thesis: The independence of Syria and Lebanon, 1941–1946.
- Ernest Landauer Anthropology Berkeley
 A.B. 1949.
Thesis: Aspects of culture and society in modern south-central Turkey.
- Bruno Le Cour Grandmaison Economics Paris, France
 A.B. 1954.
Thesis: The European Coal and Steel Community: the French industry.
- Mary Ng Lee Microbiology Oakland
 B.S. 1953.
- Mariella Laidley Lenahan Education Piedmont
 A.B. 1927.
- Margaret Madison Lincoln History Berkeley
 A.B. San Jose State College 1948.
Thesis: The highway program of California's Governor Gillett.
- Philip Andrew Lydon Geology San Francisco
 A.B. 1953.
- Landy James McBride Botany Costa Mesa
 A.B. 1954.
- Don Edward McIlvenna History Sacramento
 A.B. 1952 and M.A. 1956 Sacramento State College.
- William Lee Magnusson History Houston, Texas
 A.B. University of Texas 1948.
Thesis: The Popular Front and Anglo-French relations during 1936.

- John Aitchison Mahon Education
Swift Current, Saskatchewan, Canada
Ed.B. 1948 and A.B. 1951 University of Saskatchewan.
- Dorothy Louise Manes Art Palo Alto
A.B. Stanford University 1952.
- Lewis Mangani History Los Angeles
A.B. Los Angeles State College 1955.
- Armen M Markarian Education Aleppo, Syria
B.S. Boston University 1954.
- James Lawrence Matthews, Jr. Architecture Albany
A.B. 1955.
Thesis: Architectural planning and design for retail store merchandising.
- Marion Pinckney Maynard Education Berkeley
A.B. College of the Pacific 1937.
- Gerald Marvin Meredith Education Berkeley
A.B. 1955.
- Leslie Lewis Miller German Wembley, England
A.B. University of Wales 1950.
Thesis: The themes of *Einsamkeit* and *Angst* in Hermann Broch's work.
- Dickey Leroy Mitchell, Jr. Education Martinez
A.B. DePauw University 1928.
- Myra May Mossman Architecture Berkeley
A.B. 1955.
Thesis: The emotional impact of the sequence of interior architectural spaces.
- George Navarrete History Santa Monica
B.S. Loyola University of Los Angeles 1955.
- Henry Manon Nelson Education San Francisco
A.B. 1949.
- Jack Lowell Nixon French San Pablo
A.B. San Jose State College 1948.
- James Berkeley Norris Spanish Berkeley
A.B. 1953.
- Arnold Robert Pagano Education Berkeley
A.B. 1948.
- Robert Evangelisto Palazzi Education Fontana
A.B. 1953.
- Harry Ray Park Economics Columbus, Georgia
B.S. Trinity University, Texas, 1953.
Thesis: United States policy on petroleum imports.
- Samuel Franklin Patterson Education San Bernardino
B.S. University of Southern California 1953.
- Pava Patricia Paulich Art Virginia, Minnesota
A.B. Colorado College 1954.
- James Monroe Pence Linguistics Fresno
A.B. 1949; B.D. Fuller Theological Seminary 1952.
- Raul Pimentel German San Francisco
A.B. 1950.
- Gaston Robert Poitou Political Science Berkeley
B.S. University of San Francisco 1955.
Thesis: From Babeuf to October 1917: an inquiry into the background of the
Bolshevik *coup d'état*.
- Harriet Renate Polt English Santa Barbara
A.B. 1954.
- Mary Jane Powell Art Seattle, Washington
A.B. University of Washington 1954.
- Marvin Jay Prager Art Berkeley
B.F.A. University of Texas 1951.
- Robert Allen Profet Physics Alhambra
A.B. 1954.
- Frank Edward Ratliff, Jr. History Madison, Mississippi
A.B. Oklahoma Agricultural and Mechanical College 1950.
- William Arthur Reavis History Balboa Island
B.S. United States Naval Academy 1947.
- Audrey M Rein English Brooklyn, New York
A.B. Brooklyn College 1952.

- Margaret Elizabeth Reynolds Zoology San Diego
A.B. San Diego State College 1952.
- Sergio Gregorio Rodriguez-Fontannaz Physics Santiago, Chile
A.B. 1955.
- George Lowell Roehr Education Hughson
A.B. 1934.
- Kathleen Louise Rogers Art Chowchilla
A.B. Stanford University 1954.
Thesis: A correlation of Greek amphora-stamps with coin-types.
- Nikita Romanoff History San Francisco
A.B. 1953.
Thesis: The provincial reforms of Peter the Great, 1719.
- James Post Roscow History Los Angeles
A.B. Stanford University 1953.
- Ronald Cameron Rustad Zoology Oakland
A.B. 1954.
Thesis: A temperature analysis of cell division in the sea urchin.
- Ramachandrier Saroja Biochemistry Bangalore, India
B.S. 1946 and M.S. 1948 Mysore University.
- Alison Beatrix Saunders Botany San Francisco
A.B. 1954.
- Lawrence Richard Sayre History Sacramento
A.B. 1948.
- Charles Harrington Schiff Architecture Seattle, Washington
B.Arch. University of Washington 1952.
Thesis: Stockton civic center water-front development.
- Teresa Estelle Sevilla Sociology and Social Institutions San Bruno
A.B. 1953.
Thesis: The treatment of institutions of popular culture by historians and early sociologists.
- Rein Silberberg Physics Berkeley
A.B. 1955.
- John Arthur Simmons Mathematics Oakland
A.B. 1953.
- LeRoy Dee Smith Education Berkeley
A.B. Pacific University, Oregon, 1928.
- Margery Holloway Snipe Art Berkeley
A.B. 1943.
- William Keith Sprague, Jr. Education Rockland, Massachusetts
B.S. State Teachers College, Bridgewater, Massachusetts, 1951.
- Bernard Norman Steinberg Architecture Toledo, Ohio
B.Arch. Cornell University 1955.
Thesis: A study of environment for learning in the elementary school.
- Anna Therese Sullivan International Relations Los Altos
A.B. Mt. Holyoke College 1949.
Thesis: Political influences upon postwar Japanese education.
- Frank Rogers Sullivan Paleontology Carmel
A.B. 1954.
Thesis: Foraminifera from the type section of the San Lorenzo formation, Santa Cruz County, California.
- John Cornish Swift Geography Chula Vista
A.B. San Diego State College 1943.
Thesis: The tuna fishery of southern California.
- Irwin Robert Titunik Slavic Languages and Literatures
A.B. 1953. New York, New York
- William Brown Trousdale East Asiatic Studies Detroit, Michigan
A.B. University of Michigan 1952.
Thesis: Anomalous aspects of the animal art at Pazyryk and their significance: a study of the influence of imported motives on the local artistic continuum.
- James Peter Turner Education Alameda
A.B. 1951.
- Dean Wise Underwood English Waynesburg, Ohio
A.B. Mount Union College 1945.

- Robert Uyetani Physics Chicago, Illinois
B.S. University of Illinois 1953.
- John George Vande Pol Economics Berkeley
A.B. 1950.
Thesis: The economic implications of public policies concerning subdivision development standards in California.
- Charles Julien Van der Vaeren Economics Uccle, Belgium
LL.D. 1952 and Grad. 1953 University of Louvain.
Thesis: Economic progress and the distribution of the labor force.
- Dimitri Nicholas Vedensky Architecture Cleveland, Ohio
A.B. 1952.
Thesis: A theatre area for San Francisco.
- Katherine Beatrice Vennard Education Kenilworth, Illinois
B.S. University of Illinois 1953.
- William Joseph Walsh Education Waterbury, Connecticut
B.S. Teachers College of Connecticut 1953.
- Charles Edward Watts Mathematics West Plains, Missouri
B.Mus. Drury College, Missouri 1950.
- Marvin John Weber Physics Fresno
A.B. 1954.
- Gerald Marvin Weinberg Physics Omaha, Nebraska
B.S. University of Nebraska 1955.
- Arlan Joseph Welch Art San Pablo
A.B. Santa Barbara College 1954.
- Paul Robert Wesendunk Paleontology San Francisco
A.B. 1954.
Thesis: Lower Tertiary Foraminifera from the southern Santa Cruz Mountains, California.
- Robert Henry Whitman Slavic Languages and Literatures
A.B. Hamilton College 1951. Arlington, Virginia
- John Francis Wintterle History Vancouver, Washington
B.S. 1951 and M.S. 1955 University of Oregon.
- Jack Lindsey Womack Art Nashville, Tennessee
A.B. Vanderbilt University 1948; A.B. University of Tennessee 1954.
- David Kon-Sien Wong Political Science San Francisco
B.S. National Chiao-Tung University 1930.
Thesis: The Chinese political parties.
- Alan Kelso Young English San Francisco
A.B. Harvard University 1949.
- Paul Alvin Zimmerman Economics Oakland
A.B. 1953.
Thesis: The role of the International Labor Organization in world-wide technical assistance.
- Malvin Ralph Zirker, Jr. English Oakland
A.B. 1954.

The Degree of Doctor of Medicine (School of Medicine) upon

- Abdul-Razzak Majid Al-Shamma (A.B. 1953) Mosul, Iraq
- Donald Duane Baker (A.B. 1953) Berkeley
- Charles Benjamin (A.B. 1953) Venice
- Wayne Balfour Bigelow (A.B. 1953) Turlock
- David Lee Breithaupt (A.B. Stanford University 1952) Cupertino
- Carroll M Brodsky (A.B. 1949; M.A. Catholic University 1950)
Wheeling, West Virginia
- Donald Lee Browning (A.B. 1953) Lakeport
- Theodore John Cantino (A.B. 1952) Oakland
- Paul Basil Carlat (A.B. 1952) Los Angeles
- Lester Cohn (A.B. 1953) Los Angeles
- Howard Duane Collier (A.B. 1953) Chowchilla
- Richard Lowell Coskey (A.B. University of California, Los Angeles 1952)
Beverly Hills
- Philip Cameron Coussens (A.B. University of California, Los Angeles 1952)
Los Angeles
- Alfred Alexandre deLorimier (A.B. 1953) San Francisco
- Marilyn Reed Dickie (A.B. 1951) Berkeley

- Donald Frank Tierney (A.B. 1953).....Butte, Montana
 Mark Irving Tobenkin (A.B. 1952).....Berkeley
 John Wesley Williamson, Jr. (A.B. 1953).....Montebello
 Francis Hamilton Wisner (A.B. 1952).....Yuba City
 Ronald James Yandell (A.B. Yale University 1948; Ph.D. 1955)
 Seattle, Washington

The Degree of Doctor of Education (School of Education) upon

- Stanley William Caplan.....Student Personnel and Counseling Psychology
 San Francisco
 A.B. University of Arizona 1947; M.A. University of Colorado 1948.
Thesis: The effect of multiple counseling on junior high school boys' concepts of themselves in school.
- Robert Basil Howsam.....Educational Administration
 Saskatoon, Saskatchewan, Canada
 Ed.B. 1948 and M.Ed. 1950 University of Saskatchewan.
Thesis: The city superintendent of schools in Canada.
- George Crawford McGinnis.....Educational AdministrationBerkeley
 B.S. 1931; M.A. 1939.
Thesis: Contracts between the school district and the architect.
- Mary MacWilliam.....Secondary EducationSan Francisco
 A.B. San Francisco State College 1938; M.A. 1947.
Thesis: A survey of the library resources in the California public high schools.
- Arthur Liew Traphagen.....Student Personnel and Counseling Psychology
 B.S. University of Michigan 1936; M.A. 1937. Berkeley
Thesis: Interrelationship of certain variables by which counselor competency is judged.
- Dorothy Fenton Westby-Gibson.....Secondary EducationSan Francisco
 A.B. Bucknell University 1940; M.S.S. New School for Social Research 1942.
Thesis: An analysis of family problems by selected socio-economic levels with implications for family life education for adults.

The Degree of Doctor of Philosophy upon

- Pauline Austin Adams.....Psychology.....St. Louis, Missouri
 A.B. Bryn Mawr College 1952.
Thesis: The perception of geometrically ambiguous forms.
- Warren Oliver Addicott.....PaleontologyFresno
 A.B. Pomona College 1951; M.A. Stanford University 1952.
Thesis: Miocene stratigraphy northeast of Bakersfield, California.
- Walter Watson Alberts.....BiophysicsSanta Cruz
 A.B. 1951.
Thesis: Negative resistance and bistable properties of nerves and other excitable cells.
- Carlos Richard Allen, Jr.....HistorySacramento
 A.B. 1947 and M.A. 1948 University of Virginia.
Thesis: Travel and communication in the early colonial period, 1607-1720.
- Robert Thomas Anderson.....AnthropologyOakland
 A.B. 1949; M.A. 1953.
Thesis: Changing kinship in Europe.
- Lloyd Evan Bailey, Jr.....PhysicsBerkeley
 B.S. Stanford University 1950.
Thesis: Angle and energy distributions of charged particles from the high-energy nuclear bombardment of various elements.
- Robert Gustav Bartsch.....Comparative Biochemistry. .St. Paul, Minnesota
 B.S. 1948.
Thesis: Reactions of unsaturated fatty acids in *Clostridium kluyveri* extracts.
- David Alan Bary.....Romance LiteratureBerkeley
 A.B. 1948; M.A. 1950.
Thesis: The poetry of Vicente Huidobro.
- John William Bauman, Jr.....PhysiologySonora
 A.B. University of Southern California 1948.
Thesis: The effect of growth hormone on hepatic lipogenesis and cholesterol synthesis.

- Walter Alvin Becker.....GeneticsStanford
 A.B. Stanford University 1952; M.S. 1955.
Thesis: The genetics of body weight in rats: I. Selection progress and linkage.
 II. Sources of phenotypic variance.
- James Robert Bell.....Political ScienceYuba City
 B.S. 1938.
Thesis: The executive office of the California governor under Earl Warren, 1943–1953.
- Mildred Jentsch Bennett.....NutritionHoughton, Michigan
 B.S. Purdue University 1943; M.S. 1947.
Thesis: The effect of hydrocortisone on ascorbic acid synthesis in the rat.
- Melvin Kline Bers.....Economics...Washington, District of Columbia
 A.B. 1943 and M.A. 1948 George Washington University.
Thesis: Unionism and collective bargaining in the telephone industry.
- Foster Warren Blaisdell, Jr.....GermanOakland
 A.B. 1950; M.A. 1951.
Thesis: The preposition-adverbs in the oldest Icelandic prose manuscripts.
- Donald John Blake.....EconomicsLewisburg, Pennsylvania
 B.S. Harvard University 1945; M.A. University of Missouri 1947.
Thesis: The trade unions and the Social Democratic Party: the early history of the Swedish labor movement, 1870–1914.
- Robert Charles Bolles.....PsychologySan Francisco
 A.B. 1948 and M.S. 1949 Stanford University.
Thesis: Deprivation and behavior variability in the rat.
- John Dorian Briggs.....EntomologyBerkeley
 B.S. 1951.
Thesis: Humoral immunity in lepidopterous larvae.
- William Michael Brinner.....Near Eastern Languages.....San Francisco
 A.B. 1948; M.A. 1950
Thesis: Damascus during the reign of Sultan Barqūq according to Ibn Saṣrā's Arabic manuscript, edited, translated, and annotated.
- Thomas Nathaniel Burbridge.....PharmacologyNew Orleans, Louisiana
 A.B. Talladega College, Alabama, 1941; M.D. 1948.
Thesis: The metabolism of ethyl alcohol.
- Levi Turner Burcham.....GeographyNorth Sacramento
 B.S. 1941; M.S. University of Nebraska 1950.
Thesis: Historical geography of the range livestock industry of California.
- Paul Marshman Carrick, Jr.....EconomicsPark Ridge, Illinois
 B.S. Northwestern University 1949.
Thesis: The psychology of rationality.
- Homer Eugene Conzett.....PhysicsDubuque, Iowa
 A.B. University of Dubuque 1942.
Thesis: Inelastic scattering of 12-Mev protons on lithium, carbon, magnesium, and silicon.
- Arnold Court.....GeographyNorman, Oklahoma
 A.B. University of Oklahoma 1934; M.S. University of Washington 1949.
Thesis: Statistical bases of wind analysis.
- John Avery Crawford.....AstronomyBerkeley
 B.S. 1942 and M.S. 1948 University of Chicago.
Thesis: Equilibrium of cosmic rays in the interstellar plasma.
- Edmund Homer Creeth.....EnglishOakland
 A.B. 1951; M.A. 1953.
Thesis: From moral to tragic recognition: a study of plot structure in the morality tradition.
- William Burke Critchfield.....BotanyViola, Iowa
 B.S. 1949.
Thesis: Morphological and physiological variation in *Pinus contorta* Dougl.
- Joseph Philip Rui D'Cruz.....GeneticsGoa, Portuguese India
 B.S. 1939 and M.S. 1947 University of Bombay.
Thesis: Seed abortion in *Elymus-Sitanion* allopolyploids.
- Enrique Manuel de Rivas.....Romance Literature
 Mexico, Distrito Federal, Mexico
 A.B. University of Puerto Rico 1951; M.A. 1953.
Thesis: La obra de Enrique de Mesa.

- Robert Evans Donaldson.....PhysicsBerkeley
B.S. 1950.
Thesis: Detection of azimuthal asymmetry in quasi-elastic double-scattering experiments.
- Walter DongChemical Engineering.....Sacramento
B.S. 1952.
Thesis: Vacuum flow of gases through channels with circular, annular, and rectangular cross sections.
- Willard Bingham Doxey.....EconomicsOgden, Utah
B.S. 1938 and M.S. 1947 University of Utah.
Thesis: United States dried fruit in international trade.
- Hans-Peter Duerr.....Physics.....Stuttgart-Feuerbach, Germany
Grad. Technical Institute, Stuttgart, Germany, 1953.
Thesis: Relativistic effects in nuclear forces.
- Harvey Ivan Dunkle.....GermanWilliamsport, Pennsylvania
A.B. New York University 1950; M.A. 1952.
Thesis: C. M. Wieland's aesthetic evaluation of literature.
- William Keith Emerson.....PaleontologySan Diego
A.B. San Diego State College 1948; M.S. University of Southern California 1950.
Thesis: A review of the eastern Pacific scaphopod mollusks.
- Rudy Charles Epis.....GeologyOakland
A.B. 1952.
Thesis: Geology of the Pedregosa Mountains, Cochise County, Arizona.
- Raymond Arthur Evans.....BotanyUpland
A.B. University of Redlands 1950.
Thesis: Reaction systems among species and their environments in range populations.
- Haskell FainPhilosophyChicago, Illinois
B.S. 1948 and M.A. 1949 University of Illinois; M.A. 1951.
Thesis: Some moral and methodological problems in the social sciences.
- Thomas Shelburne Ferguson.....StatisticsAlameda
A.B. 1951.
Thesis: I. On the existence of linear regression in linear structural relations.
II. A method of generating best asymptotically normal estimates with application to the estimation of bacterial densities.
- David Lloyd Fischer.....PhysicsUpland
B.S. 1950.
Thesis: Experiments on interference and polarization in nucleon-nucleon scattering.
- Elyse Schwartz Fleming.....Education.....Forest Hills, New York
A.B. Queens College, New York, 1948; M.A. 1952.
Thesis: Behavioral and attitudinal rigidity as related to socioeconomic status and other factors.
- Jean Marie FoleyBotanyCambridge, Massachusetts
A.B. Radcliffe College 1950; M.S. Yale University 1952.
Thesis: Mechanisms of heredity and differentiation in *Allomyces*.
- James Masao Fujimoto.....Comparative Pharmacology and Toxicology
A.B. 1951; M.S. 1953. Oakland
Thesis: Studies on the metabolism of morphine.
- Charles Virgil Fulmer.....PaleontologySeattle, Washington
B.S. and M.S. University of Washington 1947.
Thesis: Stratigraphy and paleontology of the typical Markley and Nortonville formations.
- Andrew Luytshen Gram, III.....Sanitary Engineering.....San Marino
B.S. 1952; M.S. Massachusetts Institute of Technology 1953.
Thesis: Reaction kinetics of aerobic biological processes.
- Edward GrossPhysicsRichmond
B.S. Queens College, New York, 1948.
Thesis: The absolute yield of low-energy neutrons from 190-Mev proton bombardment of Au, Ag, Ni, Al, and C.
- Gilbert Franklin Gwilliam, Jr.....Zoology.....Salt Lake City, Utah
A.B. 1950.
Thesis: Studies on western North American Stauromedusae.
- Albert Longley Hale.....Mechanical EngineeringPixley
B.S. 1947; M.S. 1949.
Thesis: Stresses in short cylinders under the action of concentrated axial loads.

- Charles Edward Hamilton.....EducationLodi
A.B. Ohio State College 1934; M.A. College of the Pacific 1946.
Thesis: The growth of conservation concepts among sixth-, seventh-, and eighth-grade pupils under two types of inservice teacher education.
- Douglas Bruce Harkness.....Education. Vancouver, British Columbia, Canada
A.B. 1938 and Ed.B. 1942 University of British Columbia.
Thesis: A comparative study of the personal-social problems indicated by students of high and of low intelligence in grades nine and twelve.
- John James Harton, Jr.....MathematicsFresno
A.B. 1951; M.A. 1953.
Thesis: Extremal problems for real star mappings.
- Tetsuo HayashidaAnatomyBerkeley
A.B. 1948; M.A. 1952.
Thesis: The relation of pituitary adrenocorticotropin and somatotropin to resistance of rats infected with *Pasteurella pestis*.
- Benjamin Hochman.....ZoologyBerkeley
A.B. 1949; M.A. 1952.
Thesis: A population study of wild-type isocalleles in *Drosophila melanogaster*.
- Terry HoyPolitical Science....Wessington, South Dakota
A.B. University of South Dakota 1948; M.A. University of Washington 1950.
Thesis: Theories of the exercise of suffrage in the United States: a critical analysis.
- Donald Floyd Hudson.....Physiology.....Albuquerque, New Mexico
B.S. University of New Mexico 1952.
Thesis: The effect of anoxia on rat diaphragm.
- William Lowell Imhof.....PhysicsOakland
A.B. 1951; M.A. 1953.
Thesis: Z dependence of positive pion production by 335-Mev bremsstrahlung and 340-Mev protons.
- Robert Louis Jackson.....Slavic Languages and Literatures
New York, New York
A.B. Cornell University 1944; M.A. Columbia University 1949.
Thesis: Studies on Dostoevsky's *Notes from the Underground* in Russian literature.
- Henry Felix Kaiser.....EducationColton
A.B. 1948; M.A. 1953.
Thesis: The varimax method of factor analysis.
- Gertrude Grossmann Kennedy.....History of Art.....Oakland
A.B. 1950; M.A. 1952.
Thesis: Minoan-Mycenaean elements in early Greek representational art.
- Gikonyo KianoPolitical Science
Fort Hall, Kenya, British East Africa
A.B. Antioch College 1952; M.A. Stanford University 1953.
Thesis: The federation issue in multi-racial East and Central Africa.
- Jeanne Bate Lawson.....EnglishOakland
A.B. 1943; M.A. 1949.
Thesis: The domestic-sensational novels of Mrs. Henry Ward.
- John Joseph Leahy.....PhysicsSan Francisco
B.S. University of San Francisco 1949.
Thesis: Elastic scattering of 30-Mev protons.
- Gene Victor Leete.....Sanitary EngineeringLa Verne
B.S. Case School of Applied Science, Cleveland, 1946; M.S. 1949.
Thesis: A study of volatile organic acids and loading parameters in the anaerobic fermentation of domestic sewage sludge.
- John Franklin Lerbekmo.....Geology....Brisco, British Columbia, Canada
B.A.S. University of British Columbia 1949.
Thesis: The character and origin of late-Tertiary blue sandstones in central California.
- Miriam LiebermanBacteriologyOakland
A.B. 1948; M.A. 1950.
Thesis: Aspects of lysis in normal and phage-infected Staphylococci.
- Joseph Isaac LipsonPhysicsSan Francisco
B.S. Yale University 1950.
Thesis: Potassium-argon dating of sediments.

- Ardis June Lostroh Comparative Physiology Malcolm, Nebraska
A.B. 1950 and M.A. 1952 University of Nebraska.
Thesis: Studies on certain biological properties of pituitary growth hormone:
I. Somatic growth in the hypophysectomized mouse. II. Prostatic growth in the
castrated rat.
- Robert Donald Lundy English Kansas City, Missouri
A.B. 1947 and M.A. 1948 Columbia University.
Thesis: The making of *McTeague* and *The Octopus*.
- Charles Whitman MacSherry History Los Angeles
B.S. Georgetown University 1948; M.A. 1949.
Thesis: Impairment of the Ming tributary system as exhibited in trade involving
Fukien.
- Stefan Jerzy Medwadowski Civil Engineering Montreal, Quebec, Canada
Diploma Engineer, Polish Board of Technical Studies, London, 1951.
Thesis: On a refined theory of elastic, orthotropic plates.
- Noble Merrill Melencamp History Dodge City, Kansas
A.B. University of Kansas 1949; M.A. University of Colorado 1950.
Thesis: Foreign and domestic policies of Ivan III, 1462–1505.
- David John Meschi Chemistry Highland, Indiana
A.B. 1949 and M.S. 1952 University of Chicago.
Thesis: I. Disulfur monoxide: its spectra, structure, and identification with so-
called sulfur monoxide. II. Some experiments with a detector for molecular
beams.
- John Harold Michener Political Science Wichita, Kansas
A.B. 1948 and M.A. 1949 University of Kansas.
Thesis: The United States Cabinet: a study of proposed modifications with
especial reference to cabinet-congressional relations.
- George Patrick Millburn Physics Concord
B.S. Case Institute of Technology 1950.
Thesis: Neutron yields from thick targets bombarded by 18- and 32-Mev protons.
- Arthur Dudley Moore Entomology Berkeley
B.S. 1949 and M.S. 1950 New York State College of Forestry.
Thesis: Studies on the toxicity of residual-type, organic insecticides to bark
beetles, with special emphasis on *Ips confusus* (Lec.).
- Allan Howie Muir Economics Berkeley
A.B. Reed College 1942.
Thesis: Relative price flexibility, 1929–1931: a new multiple correlation analysis.
- John Wayne Myers Microbiology Corvallis, Oregon
A.B. 1951.
Thesis: Enzymatic studies of some suppressed mutants in *Escherichia coli*.
- Isaac Namioka Mathematics Himeji, Japan
A.B. Ottawa University, Kansas, 1951; M.A. University of Kansas 1953.
Thesis: On partially ordered linear topological spaces.
- Elizabeth Fondal Neufeld Comparative Biochemistry. Baltimore, Maryland
B.S. Queens College, New York, 1948.
Thesis: Enzymatic studies of natural and synthetic amylose.
- Johann Jakob Oertli Soil Science Ossingen, Switzerland
Grad. Swiss Federal Institute of Technology 1951; M.S. 1953.
Thesis: Studies on the uptake of iron by higher plants.
- Katsuhiko Ogata Engineering Science Tokyo, Japan
B.S. Tokyo University 1947; M.S. University of Illinois 1953.
Thesis: Sub- and super-harmonic oscillations of nonlinear control systems.
- Domenico Ortisi Romance Literature Berkeley
Grad. University of Catania, Italy, 1948.
Thesis: Il poema eroicomico nel seicento.
- James Ray Peterson Physics Glendale
A.B. University of California, Los Angeles 1948.
Thesis: The masses of identified positive heavy mesons.
- Richard Austin Pierce History Manteca
A.B. 1940; M.A. 1951.
Thesis: Russian rule in Central Asia, 1867–1917.
- Sheldon Chisdes Plotkin Electrical Engineering Santa Monica
B.S. 1946 and B.S. 1949 University of Colorado.
Thesis: Factors affecting the discontinuous transition time in ferroresonant cir-
cuits.

- John Herman Richard Polt Romance Literature Santa Barbara
A.B. Princeton University 1949; M.A. 1950.
Thesis: Eduardo Mallea and the contemporary Argentine novel.
- Gilbert David Potter Physiology
Vancouver, British Columbia, Canada
A.B. 1948 and M.A. 1950 University of British Columbia
Thesis: Responses of the thyroid gland following internal irradiation with I^{131} .
- John Emil Preston Pharmaceutical Chemistry Oakland
B.S. 1940; B.S. 1949.
Thesis: A study of the mechanism of action of barbituates.
- William Lee Quaide Geology Lakeside
A.B. 1951; M.A. 1953.
Thesis: Petrography and clay mineralogy of Pliocene sedimentary rocks from the Ventura Basin, California.
- Miguel Raggio Botany Vicente Lopez, Argentina
Engineer, National University of La Plata 1950.
Thesis: Studies of the nodulation of seedlings and isolated roots of *Phaseolus vulgaris* L. and *Glycine soja* (L.) Sieb. et Zucc.
- Sinai Rand Physics New York, New York
B.S. The City College, New York, 1952.
Thesis: The photonuclear effect.
- John Hall Richards Chemistry Berkeley
B.S. 1951.
Thesis: The biosynthesis of triterpenes and sterols.
- Mohamed Nour Eddine Rifai Irrigation Damascus, Syria
B.S. Farouk I University 1949; M.S. University of North Carolina 1952.
Thesis: An investigation of dispersion phenomena in laminar flow through porous media.
- Fred Rosenthal Education San Francisco
A.B. 1952; M.A. Stanford University 1954.
Thesis: Some relationships between sociometric position and language structure of young children.
- Marion Ross Economics San Pedro
A.B. Mills College 1944.
Thesis: The taxation of business income in Great Britain.
- Vincent Santilli Plant Pathology Berkeley
B.S. 1949.
Thesis: Grape downy mildew in California.
- William Donald Schaeffer Chemistry Ontario
A.B. University of Redlands 1950; M.S. Oregon State College 1952.
Thesis: Stereochemical studies with optically active l-butanol-1-d.
- Harry Sweitcher Schwartz Economics Alameda
B.S. University of Pennsylvania 1938.
Thesis: Reserve requirements and commercial bank cash coefficients in the post-war period.
- Robert Keith Selander Zoology Salt Lake City, Utah
B.S. 1950 and M.S. 1951 University of Utah.
Thesis: Speciation in wrens of the genus *Campylorhynchus*.
- Arthur Shapiro Statistics New York, New York
A.B. Brooklyn College 1948; M.A. 1954.
Thesis: Some conditions for the existence of similar regions.
- David Ralph Speck Physics Strathmore
B.S. Fresno State College 1951; M.A. 1953.
Thesis: Nuclear moments of niobium, gadolinium, and hafnium as determined from optical hyperfine structure.
- Herbert Max Steiner Physics San Francisco
B.S. 1951.
Thesis: Studies of fission in heavy elements under high-energy bombardments.
- Howard Coombs Stutz Genetics Ephraim, Utah
B.S. 1940 and M.S. 1951 Brigham Young University.
Thesis: A cytogenetic analysis of the hybrid *Secale cereale* L. x *Secale montanum* Guss. and its progeny.
- Robert George Summers-Gill Physics Saskatoon, Saskatchewan, Canada
A.B. 1950 and M.A. 1952 University of Saskatchewan.
Thesis: Some properties of the beryllium nucleus obtained from scattering data.

- Robert Joseph Sunderland Physics Winnipeg, Manitoba, Canada
B.S. University of Manitoba 1951; M.A. Harvard University 1952.
Thesis: The nuclear spins of Rb⁸⁵, Rb⁸⁷, and Rb^{85A}.
- Benjamin Sussholz Physics Berkeley
B.S. George Washington University 1940; M.S. University of Chicago 1948.
Thesis: On the treatment of 4f electrons by a modified Fermi-Thomas model.
- Jack Trish Tomlinson Zoology Bakersfield
A.B. 1950; M.A. 1952.
Thesis: The burrowing barnacles.
- Philip McNair Townsley Comparative Biochemistry
North Vancouver, British Columbia, Canada
B.S.A. University of British Columbia 1949; M.S. 1950.
Thesis: The iron and porphyrin metabolism of *micrococcus lysodeikticus*.
- Edward Urner Vaughan Physics Pasadena
A.B. 1943; M.A. 1944.
Thesis: Theory of neutron production in quasi-elastic exchange collisions.
- Francis George Very Romance Literature Ventura
A.B. 1947; M.A. 1950.
Thesis: The Corpus Christi procession in Spain: a literary and folkloric study.
- William Howard Wade Entomology Los Angeles
B.S. 1950.
Thesis: Biology of the navel orangeworm, *Myelois venipars* Dyar, on almonds and walnuts in northern California.
- Theodore Waldman Philosophy Los Angeles
A.B. Washington University 1947; M.A. Washington University 1948; M.A. 1951.
Thesis: A re-examination of the notion of consent and political obligation.
- Gladys Hennig Waldron History Berkeley
A.B. Adelphi College 1941; M.A. University of Rochester 1944.
Thesis: Antiforeign movements in California, 1919-1929.
- Lloyd Kenneth Williams Mathematics Berkeley
A.B. 1948; M.A. 1949.
Thesis: On separating transcendency bases.
- Howard Gordon Wilshire Geology Oklahoma City, Oklahoma
A.B. University of Oklahoma 1952.
Thesis: The history of Tertiary volcanism near Ebbetts Pass, Alpine County, California.
- William August Wilson, Jr. Psychology Oakland
A.B. 1943; M.D. Yale University 1953.
Thesis: The effects of occipital and temporal cortical lesions upon visually guided behavior in the monkey.
- Lee Eugene Winters, Jr. English Detroit, Michigan
A.B. University of Michigan 1947; M.A. 1952.
Thesis: The relationship of Chinese poetry to British and American poetry of the twentieth century.
- Charles Emmert Woodhouse Sociology and Social Institutions Berkeley
A.B. University of Colorado 1947; M.A. 1950.
Thesis: A study in professional ideology: city managers and public housing officials.
- Richard Alan Yates Biochemistry Piedmont
A.B. 1952.
Thesis: The pathway and self-control of pyrimidine biosynthesis in *Escherichia coli*.

The Honorary Degree of Master of Arts upon

- *Ida Amelia Wittschen Sproul Berkeley

The Honorary Degree of Doctor of Laws upon

- **Griffith Conrad Evans Berkeley
*William Vermillion Houston Houston, Texas
**William John Kerr Blue Lake
*James Rhyne Killian, Jr. Cambridge, Massachusetts

* Degree conferred March 23, 1956.

** Degree conferred June 6, 1956.

HONORS WITH DEGREES

HONORABLE MENTION WITH THE DEGREE OF ASSOCIATE IN ARTS

JUNE, 1956

IN THE COLLEGE OF LETTERS AND SCIENCE

Ida Jeannette Alter
Marian Elizabeth Antipa
Katherine Elaine Armstrong
Kenneth Alfred Arndt
Marie Louise Arndt
Ray Austria
Thomas Franklyn Baker
Anne Elizabeth Baldwin
Patricia Ann Banach
Marguerite Paqui Barberat
John Ronald Bean
Nancy Elaine Belling
Elizabeth Anne Bellmore
William Robert Benevento
Donna Berg Benson
Richard Lee Benson
Sandra A Berman
Janet Carolyn Bird
Margaret Caroline Black
Melvin Jerry Bobier
Edward Adolph Boehler
Betty Lou Borg
Carol Virginia Brady
Austin Emory Bryant
Thomas Herbert Burcham
Carla Brown Burmester
Yvonne Marie Cafasso
Carolyn Cahill
Edwin Otis Carlson
Neal Castagnoli, Jr.
Robert Alfred Champlain
Carol Gloria Chan
Shirley Christina Chan
Suzanne T Collier
Richard Allen Comfort
Richard Howard Craig
Evelyn Rey Craven
Nancy Anne Cupit
Geraldine Ann Dahlman
Lili R Daniel
Jack Calvin Day
Louise Marie de Cholnoky
Ellen Jewett Dent
Michael Reynold Descilo
Richard Diamond
Alfred Gordon Dickerson
Larry Harrison Dizmang
Philip Mark Dowling
Robert Sidney Epstein
Caroline Frances Fechter
Berit Feragen

Gay Leah Fisher
Mary Johanna Floris
Jones Wing Fong
Patricia Joan Foster
Sharon Lynne Foster
William Stanley Frazer
Thomas Edward Frey
William Halverson Frye
Lou Ann Fukuda
Barbara Janice Fuller
Rose Irene Gallagher
Carolyn Roberta Garlich
Roberta Elaine Gaudie
Benjamin Franklin Gibbs, Jr.
Roberta Jane Gibson
Claire Goldsmith
Robert Allison Gotshall
Joann Gayle Green
Joan Marcia Greenberg
Rita Marie Guillaume
Constance Sk Guork
Nancy Miller Haggerty
Claire Eleanor Hahir
Toni Diane Hamm
Joseph Ralph Hardy
Suzanne Hartley
Barbara Louise Hartman
Jacqueline Carol Haudbine
David Michael Heilbron
James Leon Henderson
Bertram Henick
Barbara Sue Hexter
Penelope Hisey
Adrienne Yee Ho
Sara Elizabeth Hogan
Daniel Warren Hone
Robert Lee Hooper, III
Joyce Marie Hrusoff
Patricia Ann Huberty
Robert Ilkovics
Ronald William Ingram
Hong Anthony Jew
Nancy Léonie Jones
Theodore Robert Kazmier
Eleanor Linda Keenan
Richard David Kincaide
Jean Elizabeth Kirkendall
Daniel Michael Klang
Irene Yoshiko Kodani
Irving Jerome Kornfield
Roberta Sandra Krieger

Jean Revee Kumpula
 Jo Ann Lagomarsino
 James William Lane
 Donald Jay Lawrence
 Charles Louis Ledger
 Sharon Lee LeDoux
 Lydia Theresa Lee
 Ronald Lee
 Joan Isabel Levin
 Ronald Martin Loos
 Serene Claire Low
 Pardee Joe Yee Lowe
 Charles Douglas Lummis
 Patricia Ann Lynch
 Robert Donald Mackler
 William Vernon Macnabb
 Jeanette Edith Maddux
 Ralph Harry Magnus
 Karen Peake Matthiessen
 Philip Francis Meads, Jr.
 Carol Lyn Merchant
 Maureen Lois Miles
 Dorothy Dianne Miller
 Lewis James Miller
 Surl Lee Nielsen
 John Arthur Nyheim
 Carole Toshi Oishi
 Rosalind Ruth Oliver
 Kyra Oppermann
 Roberta Beatrice Peters
 Ronald Sterling Peterson
 Adrienne Anaya Price
 Eleanor Mae Price
 Jean Carol Prosek
 Donald Vernon Reames
 Harold LeRoy Ringler, Jr.
 Richard Paul Roark
 Ronald Boyd Robie
 Marilyn Rohwer
 Darcy Sara Rudolph
 Henry Ferdinand Rugge
 Alice Carolyn Saltzen

Suzanne Scheibner
 Nina Jean Scholes
 Myra Jo Schwartzman
 Carl Henry Schwerin
 Elaine Sandra Selle
 Sumiko Shinoda
 David Ralph Simons
 Noralyn Jane Smiley
 Joan Mae Spaulding
 Marian Sprints
 Phyllis Sue Staples
 Walter Joseph Stein
 Susan Holmes Stevenson
 Peter Gus Stone
 Steven John Stone
 Taya Suzuki
 William Tamerlane
 Jack Christian Tammi
 Patricia Ann Terry
 James Herman Thompson
 Doramay Thunen
 Myron Faber Tower
 Barbara Kay Turner
 Christine Carole Warren
 June Eleanor Waters
 Robert Ramon Wegher
 Joan Madeline Weinschenk
 Robert Gerald Wells
 Yvonne Doris Werth
 Joanne Yvette Westman
 Iris Whitman
 Gail Ida Wierda
 Patricia Anne Willey
 Francis Glennon Willmarth
 David Ray Wilson
 Nancy Erwin Wise
 Adolphus Alexander Wong
 JoAnn Louise Woolley
 Keith Conrad Yettick
 Adrienne Irene Yukon
 Lorna Geraldine Zbitnoff
 Marion Barr Zittel

HONORS WITH THE BACHELOR'S DEGREE

JUNE, 1956

IN THE SCHOOL OF BUSINESS ADMINISTRATION

Alexander Barges
 Doris Webber Carlston
 Irwin Earl Forbes
 Gordon Bennett Foster
 Egon Horst Kraus
 David Stewart Leighton
 Barbara Jean McConnell

Gerry G Mueller
 David Lamar Porter
 *Patricia Ann Rock
 Stanley Irwin Siegel
 Sara Rosnow Starr
 John Marvin Steen
 Frank Keith Stuart

Alan Rolph Symes

Highest Honors

Alexander Allan Robichek

IN THE SCHOOL OF CRIMINOLOGY

Kenneth Arthur Elvin

Eugene Vernon Luttrell

* As of June 18, 1953.

IN THE SCHOOL OF NURSING
CURRICULUM FOR UNDERGRADUATE STUDENTS IN NURSING

Elizabeth Marie Bear

CURRICULUM FOR GRADUATE NURSES

Betty June Clark
Sally Ann Groenewold
Donna Elizabeth Harris
Marian Irvine

Dorothy Barbara Keller
Beverly Renee Knapp
Genevieve Margaret Morrisette
Louise Caroline Rozario

Highest Honors

Betty June Melson Guittard

Shirley Dixon Hepburn

IN THE SCHOOL OF OPTOMETRY

Richard Wallace Neumaier

Don Frederic Saba

IN THE SCHOOL OF PUBLIC HEALTH

Marian Barger

Eva Schneider Ellis
Walter Kurt Schoenholz

IN THE COLLEGE OF AGRICULTURE

Joyce Roanne Conklin

Martha Harris Heim

Highest Honors

Patricia Ema Demsey

Margaret Jean Kleeman

IN THE COLLEGE OF ARCHITECTURE

Oswaldo Benito Bedini
William Arthur Churchill
Richard Lemuel Hanna
David Kenshin Kikuchi
Herbert Dean Kosovitz

Eugene Jenö Lorincz
Richard Lee Minner
Mario Alberto Piche
Twain Whitman Reed
Frank Tomsick

Highest Honors

Yoshio Ted Itaya

IN THE COLLEGE OF CHEMISTRY

BASIC CHEMISTRY

George Albert Boswell
Don Dale Gilbert

Frank Howard
Robert Louis Montgomery
Betty Jean Ragle

Highest Honors

Gary Emmet Maciel

Jan Polissar

CHEMICAL ENGINEERING

Richard Kenneth Griep

Roger Maurice Wright

Highest Honors

Oktay Sinanoğlu

IN THE COLLEGE OF ENGINEERING

AGRICULTURAL ENGINEERING

Robert Bruce Fridley

CIVIL ENGINEERING

Allan Wayne Collins
 John Johnson Hallenbeck, Jr.
 Mike Alex Jordan
 James Henry Kleinfelder

Ivan Leo Roenigk
 Jerry Bryce Shantz
 David Theodore Swanson
 Robert Leroy Taylor

Highest Honors

Joseph Wheeler Burton

Frans Klaver
 Marvin Robert Lindorf

ELECTRICAL ENGINEERING

Leonard Azar
 Newton Evans Ball
 Donald Edward Beck
 David Chang
 Richard Lawrence Comstock
 Donald Robert Dudler
 Arthur Garabedian
 Charles William Griffin

William Burton Harris, Jr.
 Lawrence Hasdorff
 John Eugene Lark
 Earl William McCune
 Barry Allen Mendoza
 Donald Wilmer Range
 Richard Olin Simpson
 John Irving Smith

Norman Frederick Stellman

Highest Honors

Roby Lee Blessing, Jr.
 William Bruce Bridges
 Harold Robert Hall

Warren Straight Knapp
 Kenneth Charles Tucker
 Garth Hamilton Wilson

ENGINEERING PHYSICS

Richard Alan Hubach
 John William Kern

Kenneth Elmer Jacobs

INDUSTRIAL ENGINEERING

John Gary Fulbright

Ernest Emil Thiele
 Richard Townsend Winckler

Highest Honors

William Sharp Floyd, Jr.

MECHANICAL ENGINEERING

Frank Barrera
 Garth Ellis Cummings
 Leo Dabaghian
 Don Earl Edmond
 Ashley Francis Emery

James Michael Haughian
 Robert Glen Lawton
 George Maise
 Sterrett Theodore Perkins
 Ronald Carl Peterson

Karl Gardner Reseck

Highest Honors

Clark Lannerdahl Brundin

Walter Marcus Maclean

PETROLEUM ENGINEERING

Ralph Michael Kelly

Highest Honors

Mikio Suo

PROCESS ENGINEERING

Highest Honors

Creighton Arthur Depew

IN THE COLLEGE OF PHARMACY

Melvin Goldfarb

Glenn Isao Kiyama

Howard Laurence Johnson

Glenn Franklin Spaulding

Matthew Joseph Vuksinich, Jr.

IN THE COLLEGE OF LETTERS AND SCIENCE

ANTHROPOLOGY

Ardith Ann Eudey

Sheldon Klein

Highest Honors

Ernest Alvin Lowe

Ann Margaret Norsworthy

ART

Carol-Lee Joy Kapfer

Nancy Crozier Lynch

Highest Honors

Patricia Anne Lawrence

BACTERIOLOGY

Highest Honors

Patrice Joy Driskell

Barbara Stover Haslam

BIOCHEMISTRY

Robert Augustus Elliot

Clyde deClifford Willson

CHILD DEVELOPMENT

Mary Catherine Harley

Patricia Ann McGaffigan

Katherine Yvonne Jordan

Beverly Reisbig Steinhaus

Highest Honors

Carolyn Joyce Mead

COMMUNICATIONS AND PUBLIC POLICY

Highest Honors

Carlos Eliseo Cortés

DECORATIVE ART

Mary Louise Holland

ECONOMICS

Kelvin Herbert Booty, Jr.

Adeline Takeko Miyama

Joseph Gilbert Ellis

Kenneth Jay Oberman

Margaret Bentson Kennedy

Nathan Eugene Savin

ENGLISH

Marcia May Brown

Helen Selinger Pearlman

Jennifer Diane Hanke

Mary Lou Rough

Sharon Reese Rowell

Highest Honors

Donald Gilbert Dumas

*Honors—June***FRENCH**

Mina Rainès-Lambé

Highest Honors

Marjorie Dunne Lindner

Elwine Doris Pahland

GENERAL CURRICULUM

Barbara Joan Allen
 Roger Alonzo Aragon
 Katherine Anne Bache
 Charles Edward Comfort
 Patricia Jean Connolly

Virginia Anderson Fox
 George Head Keith
 Adrienne Joan Maioli
 Cynthia Ann Pinney
 Charnee Wahlquist Smit

Highest Honors

Gayle Cynthia Bennett

Robert Francis Cogburn
 Dorsey Richard Reynolds

GEOLOGICAL SCIENCES

Anton Klaver

HISTORY

Berwin Brooks Berlin
 Jo Ann Clayworth
 Donald Daly Dennis
 Joanne Marie Garvey
 Patricia Hamilton
 Vincent John Marelich

Leonora Caroline Martin
 Bernice Ruth Peachy
 Sheldon Rothblatt
 Priscilla Ann Sroufe
 Barbara Joyce Wakefield
 James Richard Wotherspoon

Highest Honors

Paul A C Koistinen

Armen Arsen Tashdianian

INTERNATIONAL RELATIONS*Highest Honors*

Ernest Spaeth

JOURNALISM

James Marvin Bennison

John Gerrard Sherlock
 Dwight Leland Teeter

Highest Honors

Thomas James Albright

MATHEMATICS

Norma Jean Schmidt

Jessie Marie Stone

Highest Honors

Yun-Tong Fung

Jeremy Kilpatrick
 Myron Richard Porter

MEDICAL SCIENCES

Karen Linnea Barkas
 Lawrence Hunt Foster, Jr.

Charles Roger Gherman
 Robert Martin Lesser

Highest Honors

Bernard M Babior

Mathews Benarr Fish

MUSIC

Nelda Augustine Herby

ORIENTAL LANGUAGES*Highest Honors*

Karl V Teeter

PALEONTOLOGY

Edward Reed Woodside

PHILOSOPHY

David Louis Harbert

Highest Honors

Brian Edgar O'Neil

Ruth Zeitlin

PHYSICAL EDUCATION

Robert Lee Silvis

PHYSICS

John Norris Bahcall
Victor Cook, Jr.
Vernon James Ehlers

Yun-Tong Fung
James Edward Gill
John Robert Meline

Highest Honors

Lowell Severt Brown

William Edwin Humphrey
Matthew Bertiss White

PHYSIOLOGY

Kenneth Lee Jue

Highest Honors

Roger Vincent Cadol

Lloyd Du Bois Smith, Jr.

POLITICAL SCIENCE

Miriam Helen Armstrong
Carolyn Ann Coyne
Angelo Douvos

Jane Hope Fegen
John David Harris
Lawrence Edward Ryan

Sandra Joy Shapiro

Highest Honors

Brian Edgar O'Neil

Matthew Frederick Stolz

PSYCHOLOGY

Yasin Balbaky
Berlin Louise Gabbert
Alfred Charles Hexter

Dorothy Theresa Simmons
Walter Hans Vollers
George Duke Yonge

Highest Honors

Stuart Gordon Kester

Alice Lynn Leeper Mitchell
Olof Murelius

REGIONAL GROUP MAJOR ON HISPANIC AMERICA

Manuel Sotero Urena

SCANDINAVIAN

Alan Jensen Addicott

Highest Honors

Shirley Anne-Kristin Strom

SOCIAL WELFARE

Shirley Ann Bryant

Janice Hart Giacolini
Amy Teruko Iwasaki

SOCIOLOGY AND SOCIAL INSTITUTIONS

Phyllis Ann Bird
Robert Fabian Cowan

Richard Arthur Gladden
Leila Rose Seagel

*Honors—June**Highest Honors*

Leonard Lieberman

Leon Hinckley Mayhew
Olof Murelius

SPANISH

Carlene Diane Roberts

SPEECH

Anne Teresa Jud

Highest Honors

Sarah Jane Conwill

STATISTICS

William Hall Sills

Joy Lenora Wilbrand

ZOOLOGY

James Floyd Burnette, Jr.
Morton Dale Chase
David Neal Emerson
Ronald Kenneth Gary
Kenneth Richard HaslamRobert Milton Jurich
Robert Cheong Lim, Jr.
Donna Sherva
Richard Stephen Smith
David Leonard Swanson, Jr.
Vincent Sing Yuen*Highest Honors*

Jean Brandt-Erichsen

John Steele Willis

HONORS IN AIR SCIENCE

David Patrick Burke

Barry Allen Mendoza

*Distinguished Air Force Graduates*William Sven Barquist, Jr.
David Patrick Burke
Lawrence Raffety CotterJohn Gary Fulbright
Barry Allen Mendoza
Robert William Smith

HONORS IN MILITARY SCIENCE

Wayne Arthur Bruce
Harold James GriggsMichael Thomas Savage
Kenneth Edward Wiersema*Distinguished Military Graduates*

**Woodbury Lee Bunnell, Jr.
Barton Byers
Douglas McRae Egan
James Lawrence Faulkner
Lowell Duane Glenn
**Ronald Hayse Goodwin
**George Howard Holt
**Tholbert Milton Honea, Jr.
Milton Herbert Johnson, Jr.
Herbert MacKay Kennedy
Robert Herman Klamt
*Jack Carl Lockhart
Harry James Lohstroh
Donald Paul Martin
Samuel Kiyoshe Mihara
Richard Wellesley Myers
Lynn Edward Nebeker
Edward Marion Nissen

Vernon Lee Osborn
**Richard Forsell Pawson
**Ronald Curtis Plough
Roy Polkinghorne
Gordon Lee Ragan
Richard Harris Randall
Jennings LeGrande Reveley
Ralph Bruce Ricks
Sheldon Rothblatt
David Edward Spence
Duane Allan Spence
Mikio Suo
Alan Rolph Symes
Paul Hing Bor Tong
William A Underwood, Jr.
Peter Scott Van Houten
Ira Kenneth Vantress, Jr.
Robert George Welnick

* As of September 10, 1955.

** As of January 26, 1956.

UNIVERSITY MEDAL

FOUNDED BY FRIENDS OF THE UNIVERSITY AND AWARDED ANNUALLY TO THE MOST
DISTINGUISHED GRADUATE OF THE YEAR

Brian Edgar O'Neil, College of Letters and Science.

Honorable Mention

Thomas James Albright, College of Letters and Science.

William Bruce Bridges, College of Engineering.

Joseph Wheeler Burton, College of Engineering.

Patrice Joy Driskell, College of Letters and Science.

Olof Murelius, College of Letters and Science.

Alexander Allan Robichek, School of Business Administration.

PRIZES

AIR FORCE ASSOCIATION SILVER MEDAL IN AIR SCIENCE

GIVEN BY THE AIR FORCE ASSOCIATION

Barry Allen Mendoza, of the Class of 1956.

ALBANY POST AMERICAN LEGION TROPHY IN MILITARY SCIENCE

GIVEN BY ALBANY POST NO. 292, AMERICAN LEGION

Jesse Jonathan Frey, Jr., of the Class of 1957.

ALPHA OMEGA SCHOLARSHIP AWARD IN DENTISTRY

GIVEN BY THE ALPHA OMEGA FRATERNITY

Donald Raymond Poulton, 4th year, College of Dentistry.

ALPHA RHO CHI MEDAL IN ARCHITECTURE

GIVEN BY ALPHA RHO CHI, NATIONAL ARCHITECTURE FRATERNITY

Richard Douglas Berry, of the Class of 1957.

ALPHA ZETA AWARDS IN AGRICULTURE

GIVEN BY THE ALPHA ZETA FRATERNITY

Patricia Ema Demsey, of the Class of 1956.

Richard Ramsey, of the Class of 1958 of the University of California, Davis.

AMERICAN ACADEMY OF DENTAL MEDICINE CERTIFICATE

GIVEN BY THE AMERICAN ACADEMY OF DENTAL MEDICINE

Milton Robert Wirthlin, 4th year, College of Dentistry.

AMERICAN INSTITUTE OF ARCHITECTS AWARD

GIVEN BY THE AMERICAN INSTITUTE OF ARCHITECTS

John Gilbert Wells, a Student in the Graduate Division.

AMERICAN ORDNANCE AWARD

GIVEN BY THE AMERICAN ORDNANCE ASSOCIATION

Bill Franz Greschel, of the Class of 1956.

ARCHITECTURAL ASSOCIATION PRIZE

ESTABLISHED BY THE ARCHITECTURAL ASSOCIATION OF THE
UNIVERSITY OF CALIFORNIA

Stuart Elliot Greenfield, of the Class of 1956.

ARMED FORCES COMMUNICATIONS AND ELECTRONICS
ASSOCIATION AWARD IN AIR SCIENCE

GIVEN BY THE ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION

Virgil Leonard Romiti, of the Class of 1957.

**ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION
AWARD IN MILITARY SCIENCE AND TACTICS**

GIVEN BY THE ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION
Bennett Samuel Bibel, of the Class of 1956.

ASSOCIATION OF THE UNITED STATES ARMY AWARDS

GIVEN BY THE ASSOCIATION OF THE UNITED STATES ARMY
William Schuyler de Camp, of the Class of 1956.
Alec Richard Willis, of the Class of 1957.

BACON PRIZE IN PHARMACY

GIVEN BY THE WOMEN'S PHARMACEUTICAL ASSOCIATION OF THE PACIFIC COAST
Award to be announced later.

CAPTAIN BARKER PERPETUAL TROPHY IN NAVAL SCIENCE

GIVEN BY CAPTAIN W. C. BARKER, USN
Timothy Crosby Howard, of the Class of 1956.

BENNETT PRIZE IN POLITICAL SCIENCE

ESTABLISHED BY THE LATE WILLIAM JENNINGS BRYAN AS TRUSTEE FOR THE
LATE PHILO SHERMAN BENNETT
No award.

BORDEN AGRICULTURAL AWARD

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION
Michael A. Sweyd, of the Class of 1956 of the University of California, Davis.

BORDEN GRADUATE AWARD IN PHARMACEUTICAL CHEMISTRY

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION
Ronald Ray Scheline, a Student in the Graduate Division.

BORDEN HOME ECONOMICS AWARD

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION
Patricia Ema Demsey, of the Class of 1956.

BORDEN UNDERGRADUATE AWARD IN MEDICINE

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION
Lowell Llewellyn Sparks, Jr., 4th year, School of Medicine.

**GENERAL J. C. BRECKENRIDGE DETACHMENT MARINE CORPS
LEAGUE TROPHY IN NAVAL SCIENCE**

GIVEN BY THE GENERAL J. C. BRECKENRIDGE DETACHMENT OF THE
MARINE CORPS LEAGUE
Carter Phillip Swenson, of the Class of 1956.

ANNE BREMER PRIZE IN ART

ESTABLISHED BY THE LATE ALBERT M. BENDER
Prize divided equally between:
Dale Thompson Fletcher, a Student in the Graduate Division.
Gardner Rae McCauley, a Student in the Graduate Division.

BURPEE AWARD IN VEGETABLE CROPS

ESTABLISHED BY THE W. ATLEE BURPEE COMPANY
No award.

CALIFORNIA FARM BUREAU FEDERATION RURAL LEADERSHIP TROPHY

GIVEN BY THE CALIFORNIA FARM BUREAU FEDERATION
Deronda Adam Young, Jr., of the Class of 1956 of the University of California, Davis.

CALIFORNIA HISTORICAL SOCIETY PRIZE

ESTABLISHED BY THE CALIFORNIA HISTORICAL SOCIETY

Roger Robertson Olmsted, a Student in the Graduate Division.

HENRY HENLEY CHAPMAN MEMORIAL TROPHY IN MILITARY SCIENCE

GIVEN BY COLONEL WILLIAM McC. CHAPMAN

William Schuyler de Camp, of the Class of 1956.

CHI ALPHA KAPPA PRIZES IN ARCHITECTURE

GIVEN BY CHI ALPHA KAPPA, ARCHITECTURE FEATERNITY

Upper Division Award: Neal Ray Penry, of the Class of 1957.

Lower Division Award: Kevin Richard Watts, of the Class of 1959.

CHI OMEGA SORORITY PRIZE IN PSYCHOLOGY

GIVEN BY THE CHI OMEGA SORORITY

Alice Lynn Leeper Mitchell, of the Class of 1956.

MARIO CIAMPI PRIZE IN ARCHITECTURE

GIVEN BY MR. MARIO CIAMPI

Frank Tomsick, of the Class of 1956.

**HOWARD WALTON CLARK PRIZE IN PLANT BREEDING
AND SOIL BUILDING**

ESTABLISHED BY MRS. PRUDENCE L. CLARK IN MEMORY OF HER LATE HUSBAND

Edmond Douglas Pattimore, of the Class of 1956 of the University of California,
Davis.

COLLEGE OF ARCHITECTURE MEDALS

GIVEN BY THE COLLEGE OF ARCHITECTURE

Roger Chinn, of the Class of 1957.

Herbert Dean Kosovitz, of the Class of 1956.

Ki Suh Park, of the Class of 1957.

Frank Tomsick, of the Class of 1956.

CONVAIR CADET AWARD IN AIR SCIENCE

GIVEN BY THE CONSOLIDATED VULTEE AIRCRAFT CORPORATION

Edgar LeRoy Strickland, of the Class of 1957.

EMILY CHAMBERLAIN COOK PRIZE IN POETRY

ESTABLISHED BY PROFESSOR ALBERT S. COOK

Rella June Berk, of the Class of 1956.

INA COOLBRITH MEMORIAL POETRY PRIZE

ESTABLISHED BY FRIENDS OF THE LATE INA COOLBRITH

Louis Francis Tong, Jr., of the Class of 1958.

ELIZABETH MILLS CROTHERS PRIZE IN LITERARY COMPOSITION

ESTABLISHED BY JUDGE GEORGE E. CROTHERS

Prize divided between:

John Patrick Montague, a Student in the Graduate Division.

John Nicholas Guirao, of the Class of 1957.

VIRGINIA DARE AWARD IN DAIRY INDUSTRY

GIVEN BY VIRGINIA DARE EXTRACT COMPANY, INCORPORATED

Michael A. Sweyd, of the Class of 1956 of the University of California, Davis.

DENTAL MEDICINE SEMINAR AWARD

OFFERED BY THE ANNUAL SEMINAR FOR THE STUDY OF DENTAL MEDICINE

Award to be announced later.

**MILTON F. AND MARY L. GABBS PRIZE IN DENTISTRY
ESTABLISHED BY THE BEQUEST OF MILTON F. GABBS**

Milton Robert Wirthlin, 4th year, College of Dentistry.

MARY JEANNE GILHOOLEY MEMORIAL AWARD

ESTABLISHED BY THE ASSOCIATED STUDENTS AT DAVIS

Patricia McWilliams, of the Class of 1956 of the University of California, Davis.

JOHN W. GILMORE FOREIGN STUDENT AWARD

GIVEN BY MR. L. N. IRWIN

Alexander Bruderer, of the Class of 1956 of the University of California, Davis.

**GIMBEL PRIZE AND MEDAL IN SCHOLARSHIP AND
ATHLETIC ACHIEVEMENT**

ESTABLISHED BY THE LATE JAKE GIMBEL

Darryl Donneil Smith, of the Class of 1958.

GOLD-HEADED CANE IN MEDICINE

GIVEN BY FRIENDS AND PATIENTS OF THE DEPARTMENT OF MEDICINE

Dennis Paul Horan, 4th year, School of Medicine.

Honorable Mention:

Eric Roberts, 4th year, School of Medicine.

Donald Frank Tierney, 4th year, School of Medicine.

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 Bradford Brewer, of the Class of 1959.

JOHNSON AWARDS IN FORESTRY

ESTABLISHED BY THE LATE COLONEL S. ORIE JOHNSON AND THE
CALIFORNIA FOREST PROTECTIVE ASSOCIATION

Senior Award:

Henry Huntly Haight, IV, of the Class of 1956.

Junior Awards:

Peter Alfred Crebbin, of the Class of 1956.

David Scott Dealey, of the Class of 1956.

Henry Huntly Haight, IV, of the Class of 1956.

Elden Ronald Knauf, Jr., of the Class of 1956.

John Howard Razzeto, of the Class of 1956.

EDNA KINARD PRIZE IN JOURNALISM

ESTABLISHED BY THE OAKLAND COUNCIL OF PARENTS AND TEACHERS

Sandra Mae Littlewood, of the Class of 1956.

EDWARD FRANK KRAFT SCHOLARSHIP PRIZES FOR FRESHMEN

ESTABLISHED BY THE WILL OF THE LATE EDWARD FRANK KRAFT

William Norman Bigler, of the Class of 1959 of the University of California, Davis.

Roy Claude Blackburn, of the Class of 1959.

Howard Arnold Blatner, of the Class of 1959.

Julia Jean Casagrande, of the Class of 1959.

Jack Kenneth Crandall, of the Class of 1959.

Mark John Davis, of the Class of 1959.

John Bruce Derrick, of the Class of 1959.

Anatol Eberhard, of the Class of 1959.

Charles Alfred Finnila, of the Class of 1959.

Herbert Joseph Friedman, of the Class of 1959.

Sherman Gee, of the Class of 1959.

Carol Victoria Geren, of the Class of 1959.
 Stuart George Gould, of the Class of 1959.
 Mechthild Grieser-Fuerst, of the Class of 1959.
 John Richard Hubbard, of the Class of 1959.
 Myna Lois Jagendorf, of the Class of 1959.
 Nathan Nay Shew Jew, of the Class of 1959.
 Deane Douglass Judd, of the Class of 1959.
 Charles Richard Kingston, of the Class of 1959.
 Joel Kwok, of the Class of 1959.
 Carol Ann Lawson, of the Class of 1959.
 Dawson Bernard Leonard, of the Class of 1959.
 John Robert Lindahl, of the Class of 1959.
 Marjorie Ann Lindsay, of the Class of 1959.
 Sheila Kathleen MacMillan, of the Class of 1959.
 Robert Cletus Messman, of the Class of 1959.
 Jared Brett Morris, of the Class of 1959.
 William Reed Petrocelli, of the Class of 1959.
 Lenore Marguerite Schenk, of the Class of 1959.
 Lynn Seaman, of the Class of 1959.
 Virginia Shinabargar, of the Class of 1959 of the University of California, Davis.
 Yvonne Leah Simons, of the Class of 1959.
 K Anne Teitsworth, of the Class of 1959.
 David William Twigg, of the Class of 1959.
 Richard James Venti, of the Class of 1959.
 Anthony Chan Weiss, Jr., of the Class of 1959.
 Doris Joan Whipperman, of the Class of 1959.
 Ivan Joe Williams, of the Class of 1959.
 Jon Mikio Yatabe, of the Class of 1959.
 Gerald Eugene Youngblood, of the Class of 1959 of the University of California,
 Davis.
 Billy Joe Zahary, of the Class of 1959 of the University of California, Davis.

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

Robert Louis Maulhardt, of the Class of 1956 of the University of California, Davis.

THOMAS CLAIR MCFARLAND MEMORIAL AWARDS IN
ELECTRICAL ENGINEERING

ESTABLISHED AS A MEMORIAL BY THE FRIENDS AND FAMILY OF
THOMAS CLAIR MCFARLAND

William Bruce Bridges, of the Class of 1956.

Harold Robert Hall, of the Class of 1956.

MARINE CORPS RESERVE OFFICERS' ASSOCIATION, SAN FRANCISCO
CHAPTER, RIFLE AWARDS

GIVEN BY THE SAN FRANCISCO CHAPTER OF THE MARINE CORPS RESERVE
OFFICERS' ASSOCIATION

William Alan Davis, of the Class of 1959.

Hans Martin Ewoldsen, of the Class of 1956.

John Jay Folsom, of the Class of 1958.

Gordon Ross Nakagawa, of the Class of 1958.

Charles Edward Quesnoy, Jr., of the Class of 1956.

MERCK AWARDS IN PHARMACY

ESTABLISHED BY MERCK AND COMPANY, RAHWAY, NEW JERSEY

Awards to be announced later.

JOHN WALTER MILLAR AWARD IN PHARMACY ADMINISTRATION
ESTABLISHED TO HONOR AND PERPETUATE THE MEMORY OF JOHN WALTER MILLAR
 Award to be announced later.

C. V. MOSBY AWARDS IN DENTISTRY
GIVEN BY THE C. V. MOSBY COMPANY

Robert Gerald Dunkel, 4th year, College of Dentistry.
 Ronald James Nicholson, 4th year, College of Dentistry.
 Donald Raymond Poulton, 4th year, College of Dentistry.
 Max Terrence Sobrian, 4th year, College of Dentistry.
 William Mowrer Wagner, 4th year, College of Dentistry.

NATIONAL DEFENSE TRANSPORTATION ASSOCIATION AWARD
IN AIR SCIENCE

GIVEN BY THE NATIONAL DEFENSE TRANSPORTATION ASSOCIATION
 No award.

NATIONAL DEFENSE TRANSPORTATION ASSOCIATION AWARD
IN MILITARY SCIENCE AND TACTICS

GIVEN BY THE NATIONAL DEFENSE TRANSPORTATION ASSOCIATION
 No award.

CAPTAIN HARRY W. NEED PERPETUAL TROPHY IN NAVAL SCIENCE
GIVEN BY CAPTAIN HARRY W. NEED, USN

Leon Hinckley Mayhew, of the Class of 1956.

FLORENCE NIGHTINGALE AWARDS FOR EXCELLENCE IN
CLINICAL NURSING

ESTABLISHED BY FRIENDS OF THE SCHOOL OF NURSING
 Dora Lou Moore Stice, B.S., January 1956.
 Linda Anne Beaty, B.S., January 1956.
 Janet Gillies Hurst, 3rd year, School of Nursing.

FLEET ADMIRAL C. W. NIMITZ PERPETUAL TROPHY IN NAVAL SCIENCE
GIVEN BY FLEET ADMIRAL C. W. NIMITZ

Allen Cox Slutman, of the Class of 1957.

9080th AIR RESERVE GROUP AWARD IN AIR SCIENCE
GIVEN BY THE 9080TH AIR RESERVE GROUP

Donald Jay Alschuler, of the Class of 1957.

OAKLAND NAVAL SUPPLY CENTER MIDSHIPMAN AWARD
IN NAVAL SCIENCE

PRESENTED BY THE GRIFFINS SOCIETY OF THE OAKLAND NAVAL SUPPLY CENTER
 John Joseph Crncich, of the Class of 1956.

FORREST H. ORTON MEMORIAL PRIZE IN DENTISTRY
ESTABLISHED BY MEMBERS OF THE DIVISION OF CROWN AND BRIDGE PROSTHESIS
 Kazuo Arima, 4th year, College of Dentistry.

CHARLES LATHROP PACK PRIZE IN FORESTRY
FOUNDED BY THE LATE CHARLES LATHROP PACK

No award.

DOROTHY K. PALMER MEMORIAL PRIZE IN PALEONTOLOGY
ESTABLISHED BY THE BEQUEST OF ROBERT HASTINGS PALMER

No award.

PHI DELTA CHI CUP IN PHARMACY
SPONSORED BY THE PHI DELTA CHI FRATERNITY

Award to be announced later.

KENNETH PRIESTLEY MEMORIAL AWARD IN STUDENT LEADERSHIP
ESTABLISHED BY THE ASSOCIATED STUDENTS OF THE UNIVERSITY, THE ALUMNI
ASSOCIATION OF THE UNIVERSITY, AND FRIENDS IN MEMORY OF KENNETH PRIESTLEY
Robert Lloyd Hamilton, of the Class of 1956.

PROFESSOR OF AIR SCIENCE TROPHY
GIVEN BY THE PROFESSOR OF AIR SCIENCE
Edward Baccus Greub, of the Class of 1957.

J. E. REID PRIZE IN OPTOMETRY
GIVEN BY THE J. E. REID INSTRUMENT DIVISION OF PLUMMER AND KERSHAW
Award to be announced later.

REPUBLIC AIR POWER AWARD IN AIR SCIENCE
GIVEN BY REPUBLIC AVIATION CORPORATION
Harry George Harris, of the Class of 1957.

RESERVE OFFICERS OF THE NAVAL SERVICES TROPHY
GIVEN BY THE BERKELEY CHAPTER OF THE RESERVE OFFICERS OF THE
NAVAL SERVICES
Richard Coghlan Ustick, of the Class of 1956.

RICHARDSON LATIN TRANSLATION PRIZE
ESTABLISHED UNDER THE WILL OF THE LATE PROFESSOR GEORGE MOREY RICHARDSON
No award.

DOROTHEA KLUMPKE ROBERTS PRIZE IN ASTRONOMY
ESTABLISHED BY MRS. DOROTHEA KLUMPKE ROBERTS
Charles Bruce Stephenson, a Student in the Graduate Division.

DOROTHEA KLUMPKE ROBERTS PRIZE IN MATHEMATICS
ESTABLISHED BY MRS. DOROTHEA KLUMPKE ROBERTS
Prize divided equally between:
Yun-Tong Fung, of the Class of 1956.
Myron Richard Porter, of the Class of 1956.

SCABBARD AND BLADE MEDALS IN AIR SCIENCE
GIVEN BY COMPANY "M," FOURTH REGIMENT, NATIONAL SOCIETY OF
SCABBARD AND BLADE
No awards.

SCABBARD AND BLADE MEDALS IN MILITARY SCIENCE
GIVEN BY COMPANY "M," FOURTH REGIMENT, NATIONAL SOCIETY OF
SCABBARD AND BLADE
No awards.

SCABBARD AND BLADE MEDALS IN NAVAL SCIENCE
GIVEN BY COMPANY "M," FOURTH REGIMENT, NATIONAL SOCIETY OF
SCABBARD AND BLADE
No awards.

F. C. S. SCHILLER ESSAY PRIZE IN PHILOSOPHY
ESTABLISHED BY MRS. LOUISE S. SCHILLER
Howard Oliver Jackson, a Student in the Graduate Division.

VERNON SCOTT, JR., MEMORIAL AWARDS IN JOURNALISM
ESTABLISHED BY ALUMNI OF THE UNIVERSITY OF CALIFORNIA
IN MEMORY OF VERNON SCOTT, JR.

Stanley Brackett, of the Class of 1956.
 Carlos Eliseo Cortes, of the Class of 1956.

SECOND YEAR HONORS AWARDS IN MATHEMATICS
GIVEN BY MEMBERS OF THE DEPARTMENT OF MATHEMATICS

Highest Honors Award: Nancy Antoinette Marshall, of the Class of 1957.
 Honors Award: No award.

SHROUT PRIZE IN SHORT STORY COMPOSITION
ESTABLISHED BY THE WILL OF THE LATE JULIA KEITH SHROUT

Theodore Fourkas, of the Class of 1957.

SOCIETY FOR THE PROMOTION OF DENTISTRY FOR CHILDREN
CERTIFICATES OF MERIT

GIVEN BY THE SOCIETY FOR THE PROMOTION OF DENTISTRY FOR CHILDREN
 Robert Gerald Dunkel, 4th year, College of Dentistry.
 Frank Klaas Sullivan, Jr., 4th year, College of Dentistry.

KENNETH FOSTER STRONG MEMORIAL PRIZE IN ARCHITECTURE
ESTABLISHED BY THE PARENTS AND FRIENDS OF THE LATE KENNETH FOSTER STRONG
 Joseph Louis Amestoy, of the Class of 1956.

SARA HUNTSMAN STURGESS MEMORIAL PRIZE IN DRAMATIC ART
ESTABLISHED BY FRIENDS AND FORMER STUDENTS OF THE LATE
SARA HUNTSMAN STURGESS

Thomas Emery Moore, of the Class of 1957.

TAU BETA PI ENGINEERING FRESHMAN SCHOLARSHIP PRIZE
ESTABLISHED BY THE CALIFORNIA ALPHA OF TAU BETA PI

John Charles Wiesner, of the Class of 1958.

EDMUND AND FANNY THELEN PRIZE

ESTABLISHED BY MR. MAX THELEN IN MEMORY OF HIS FATHER AND MOTHER
 Jack Robert Macaulay, of the Class of 1957.

THETA SIGMA PHI PRIZE IN JOURNALISM

GIVEN BY LOCAL ALUMNAE CHAPTERS OF THETA SIGMA PHI
 Shirley Anne Murphy, of the Class of 1956.

TILE COUNCIL OF AMERICA AWARD IN ARCHITECTURE

GIVEN BY THE TILE COUNCIL OF AMERICA, NEW YORK, NEW YORK
 Frank Richard Krueger, A.B., January 1956.
 Frederick John Schlaepfer, a Student in the Graduate Division.

UNITED STATES NAVAL RESERVE OFFICERS' ASSOCIATION
PERPETUAL TROPHY

GIVEN BY THE TWELFTH DISTRICT CHAPTER OF THE
UNITED STATES NAVAL RESERVE OFFICERS' ASSOCIATION
 Carter Phillip Swenson, of the Class of 1956.

UNITED STATES NAVY DEPARTMENT PERPETUAL CUP

GIVEN BY THE UNITED STATES NAVY DEPARTMENT
 Carter Phillip Swenson, of the Class of 1956.

VETERANS OF FOREIGN WARS MEDAL

GIVEN BY INDUSTRIAL Post No. 1010, EMERYVILLE, CALIFORNIA
 Gordon Lee Ragan, of the Class of 1956.

WARDEN PRIZE IN DAIRY INDUSTRY

ESTABLISHED BY THE WARDEN BROTHERS OF AUSTRALIA

Don Dethlefsen, of the Class of 1957 of the University of California, Davis.

IRWIN J. WIEL AWARDS IN MILITARY SCIENCE

GIVEN BY THE LATE MR. IRWIN J. WIEL

John McGregor Brough, of the Class of 1956.

Lowell Duane Glenn, of the Class of 1956.

EDWARD THOMAS WILLIAMS PRIZE OF THE COLLOQUIUM ORIENTOLOGICUM

GIVEN BY THE COLLOQUIUM ORIENTOLOGICUM

No award.

XI SIGMA PI AWARDS IN FORESTRY

GIVEN BY XI SIGMA PI, HONORARY FORESTRY FRATERNITY

Senior Award: Phillip Gordon Annand, of the Class of 1955.

Freshman Award: Daniel Douglas Oswald, of the Class of 1958.

OWEN D. YOUNG PRIZE IN INTERNATIONAL RELATIONS

ESTABLISHED BY DR. OWEN D. YOUNG

No award.

MILITARY AND NAVAL COMMISSIONS

U. S. AIR FORCE RESERVE

Raleigh M Audette	Second Lieutenant
Michael J Barnato	Second Lieutenant
William S Barquist, Jr.	Second Lieutenant
LeMoin C Beckman	Second Lieutenant
David P Burke	Second Lieutenant
Albert G Chisholm	Second Lieutenant
Laurence R Davis	Second Lieutenant
William Y Ehrhart	Second Lieutenant
James V Franklin	Second Lieutenant
Rodney F Friedman	Second Lieutenant
John G Fulbright	Second Lieutenant
Larry G Goldsborough	Second Lieutenant
Joseph F Hallawell	Second Lieutenant
Irving J Hurd	Second Lieutenant
Robert B Hutchins	Second Lieutenant
Wayne E Loucks	Second Lieutenant
Fred E Lusk, Jr.	Second Lieutenant
Barry A Mendoza	Second Lieutenant
Alvan W Messer	Second Lieutenant
John C Millis	Second Lieutenant
William C Morley	Second Lieutenant
Alan M Oleson	Second Lieutenant
Eugene H Ross	Second Lieutenant
David Rubin	Second Lieutenant
John R Schwabacher	Second Lieutenant
Robert W Smith	Second Lieutenant
John C Stob	Second Lieutenant
Howard I Streifford, Jr.	Second Lieutenant
William H Tyler, III	Second Lieutenant

UNIVERSITY CADETS

Barry A Mendoza	Colonel
Raleigh M Audette	Lieutenant Colonel
James V Franklin	Lieutenant Colonel
John G Fulbright	Lieutenant Colonel

Wayne E Loucks	Lieutenant Colonel
Alan M Oleson	Lieutenant Colonel
William H Tyler, III	Lieutenant Colonel
Michael J Barnato	Major
William S Barquist, Jr.	Major
LeMoin C Beckman	Major
David P Burke	Major
William Y Ehrhart	Major
Larry G Goldsborough	Major
William C Morley	Major
Robert W Smith	Major
John C Stooob	Major
Albert G Chisholm	Captain
Laurence R Davis	Captain
Rodney F Friedman	Captain
Joseph F Hallawell	Captain
Irving J Hurd	Captain
Robert B Hutchins	Captain
John C Millis	Captain
Eugene H Ross	Captain
John R Schwabacher	Captain
Howard I Streifford, Jr.	Captain
Fred E Lusk, Jr.	First Lieutenant
Alvan W Messer	First Lieutenant
David Rubin	First Lieutenant

UNITED STATES ARMY RESERVE

Adjutant General Corps

†Ronald Arthur Plomgren	Second Lieutenant
†Ronald Curtis Plough	Second Lieutenant
Gordon Lee Ragan	Second Lieutenant

Armor

Brian Rodney Brennan	Second Lieutenant
William Patrick Buckley	Second Lieutenant
Lowell Duane Glenn	Second Lieutenant
Jack Norton Grigsby	Second Lieutenant
Milton Herbert Johnson, Jr.	Second Lieutenant
William Duffy Kelley	Second Lieutenant
George Edwin McInnis	Second Lieutenant
John Andrews Mason	Second Lieutenant
Lynn Edward Nebeker	Second Lieutenant
Richard Harris Randall	Second Lieutenant
Gerald Linde Tessum	Second Lieutenant
Peter Scott Van Houten	Second Lieutenant

Army Security

Roy Polkinghorne	Second Lieutenant
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Artillery

Warren Lee Arnold	Second Lieutenant
†Harry Eliopoulos	Second Lieutenant
James Lawrence Faulkner	Second Lieutenant
†Ronald Hayse Goodwin	Second Lieutenant
†John Howard Hardebeck	Second Lieutenant
Paul Adolph Hawkinson	Second Lieutenant
*Frederick Warren Hellman	Second Lieutenant
James Evans Hodges	Second Lieutenant
John Kenton Kiffmeyer	Second Lieutenant
Harry James Lohstroh	Second Lieutenant
**Charles Patrick Machado, Jr.	Second Lieutenant

* As of July 30, 1955.

† As of January 26, 1956.

** As of September 10, 1955.

**Yuji Okano	Second Lieutenant
†John Douglas Richardson	Second Lieutenant
Ralph Bruce Ricks	Second Lieutenant
Gerald Ross Rodder	Second Lieutenant
**Joseph Lamond Ross, Jr.	Second Lieutenant
Leslie Daniel Synder	Second Lieutenant
Edwin Morris Soderstrom, Jr.	Second Lieutenant
†James Carlisle Stone	Second Lieutenant
Alan Rolph Symes	Second Lieutenant

Chemical Corps

†John Richard Phillips	Second Lieutenant
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Corps of Engineers

†Glenn Leighton Atwater	Second Lieutenant
*Robert Bernheim	Second Lieutenant
†Keith Donald Bull	Second Lieutenant
†Woodbury Lee Bunnell, Jr.	Second Lieutenant
Francis Russell Calton	Second Lieutenant
*Sherman Lewis Davis	Second Lieutenant
†Peter Hampton Dodge	Second Lieutenant
†Sheafe Ewing	Second Lieutenant
Donald Jacques Gruber	Second Lieutenant
Richard Lemuel Hanna	Second Lieutenant
†Webb Wilson Hayes, Jr.	Second Lieutenant
**David Harvey Heil	Second Lieutenant
*James Granville Siler, Jr.	Second Lieutenant
†Arthur Lee Simpson	Second Lieutenant
†Gerald Raymond Thiers	Second Lieutenant
Paul Hing Bor Tong	Second Lieutenant
*Rodney Bernard Warren	Second Lieutenant
Jimmie Richard Yee	Second Lieutenant

Finance Corps

Leon Myron Blum	Second Lieutenant
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Infantry

**Richard Glenn Ament	Second Lieutenant
Martin Byers	Second Lieutenant
**John Campbell, Jr.	Second Lieutenant
†Richard Martin Congdon	Second Lieutenant
*Lawrence Everett Hawkins, Jr.	Second Lieutenant
Herbert MacKay Kennedy	Second Lieutenant
**Jack Carl Lockhart	Second Lieutenant
†James Rothney Lugg	Second Lieutenant
**Charles Eugene Markley	Second Lieutenant
**Donald Russell Meek	Second Lieutenant
*George Carl Schattenburg	Second Lieutenant
Alan Keith Snell	Second Lieutenant
Duane Allan Spence	Second Lieutenant
Ira Kenneth Vantress, Jr.	Second Lieutenant

Military Intelligence

Arthur Emil Brizzolara	Second Lieutenant
Neil Warren Fore	Second Lieutenant
†George Howard Holt	Second Lieutenant
Justin Manning Jacobs, Jr.	Second Lieutenant
Sheldon Rothblatt	Second Lieutenant
William A Underwood, Jr.	Second Lieutenant
Robert George Welnick	Second Lieutenant

* As of July 30, 1955.

† As of January 26, 1956.

** As of September 10, 1955.

*Military and Naval Commissions**Medical Service Corps*

Gordon Curey Coleman Second Lieutenant
 Jennings LeGrande Reveley Second Lieutenant

Military Police Corps

**Ronald Paul Bisio Second Lieutenant
 Kenneth Sherman Breman Second Lieutenant
 †Alan Bruce Cropper Second Lieutenant
 †Ronald Lane Kerns Second Lieutenant
 *Marvin Robert Pugh Second Lieutenant
 **Riordan Leonard Timmons Second Lieutenant

Ordnance Corps

Gerald St. Ores Andersen Second Lieutenant
 †Robert James Anderson Second Lieutenant
 Bennett Samuel Bibel Second Lieutenant
 †Richard Warren Bierce Second Lieutenant
 **James Stanley Carter Second Lieutenant
 †Thomas George Diel Second Lieutenant
 Sumner Richard Ely Second Lieutenant
 †Tholbert Milton Honea, Jr. Second Lieutenant
 Robert Sydney Jackson Second Lieutenant
 Robert Herman Klamt Second Lieutenant
 Roger Alvon Lowe Second Lieutenant
 †Phillip Grover Lowell Second Lieutenant
 Samuel Kiyoshi Mihara Second Lieutenant
 James Leong Tom Second Lieutenant
 *George Richard Trabert Second Lieutenant
 **Henry Leslie White Second Lieutenant

Quartermaster Corps

**Frederick Louis Greene Second Lieutenant
 Richard Wellesley Myers Second Lieutenant
 Mikio Suo Second Lieutenant

Signal Corps

†Ronald Mervyn Abend Second Lieutenant
 Raymond Yukio Okamura Second Lieutenant

Transportation Corps

**Harry Laurence Blair, Jr. Second Lieutenant
 John McGregory Brough Second Lieutenant
 Robert Clay Knowlton Second Lieutenant
 Donald Paul Martin Second Lieutenant
 Edward Marion Nissen Second Lieutenant
 Richard Forsell Pawson Second Lieutenant
 David Edward Spence Second Lieutenant

UNIVERSITY CADETS

Adjutant General Corps Unit

†Ronald Curtis Plough Colonel
 Gordon Lee Ragan Lieutenant Colonel
 †Ronald Arthur Plomgren Second Lieutenant

Armor Unit

William Schuyler deCamp Colonel
 Peter Scott Van Houten Colonel
 Richard Harris Randall Lieutenant Colonel
 Douglas McRae Egan Major
 Milton Herbert Johnson, Jr. Major
 Dean Hartley Maddox, Jr. Major
 Lynn Edward Nebeker Major

* As of July 30, 1955.

† As of January 26, 1956.

** As of September 10, 1955.

Brian Rodney Brennan	Captain
Lowell Duane Glenn	Captain
John Andrews Mason	Captain
Thomas James Steen	Captain
Gerald Linde Tessum	Captain
William Patrick Buckley	First Lieutenant
Jack Norton Grigsby	First Lieutenant
Murray William Hannon	First Lieutenant
William Duffy Keller	First Lieutenant
George Edwin McInnis	First Lieutenant
Frederick Antony Schooley	Second Lieutenant

Army Security Agency Unit

Roy Polkinghorne	Captain
Donald George Siefert	Second Lieutenant

Artillery Unit

James Lawrence Faulkner	Lieutenant Colonel
† James Carlisle Stone	Lieutenant Colonel
Alan Rolph Symes	Lieutenant Colonel
† Ronald Hayse Goodwin	Major
† Otis Leslie Stroud	Major
† Warren Lee Arnold	Captain
Harry Clay Hallenbeck	Captain
James Evans Hodges	Captain
John Kenton Kiffmeyer	Captain
Harry James Lohstroh	Captain
Ralph Bruce Ricks	Captain
James Anthony Brennan	First Lieutenant
Sidney Charles Kots	First Lieutenant
Gerald Ross Rodder	First Lieutenant
Edwin Morris Soderstrom, Jr.	First Lieutenant

Chemical Corps Unit

† John Richard Phillips	Second Lieutenant
Kelley Sater	Second Lieutenant

Corps of Engineers Unit

Kenneth Edward Wiersema	Colonel
Harold James Griggs	Lieutenant Colonel
Wayne Arthur Bruce	Major
John Lawrence MacKay	Captain
† Jimmie Richard Yee	Captain
Francis Russell Calton, Jr.	First Lieutenant
Roy David Gilstrap, Jr.	First Lieutenant
Pierre Anthony Prodis	First Lieutenant
Gerald Lee Quigg	First Lieutenant
Charles Michael Spink	First Lieutenant
Donald Jacques Gruber	Second Lieutenant
Carl L Hubbell, Jr.	Second Lieutenant

Finance Corps Unit

Leon Myron Blum	First Lieutenant
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Infantry Unit

Ira Kenneth Vantress, Jr.	Lieutenant Colonel
Walter Richard Laubscher	First Lieutenant
Michael Thomas Savage	First Lieutenant
Alan Keith Snell	Second Lieutenant

Medical Service Corps Unit

Jennings LeGrande Reveley	Major
Gordon Curey Coleman	First Lieutenant
Terry Dixon Wollter	First Lieutenant

† As of January 26, 1956.

*Military and Naval Commissions**Military Intelligence Unit*

James Merrill Corley	Lieutenant Colonel
Arthur Emil Brizzolara	Captain
Sheldon Rothblatt	Captain
William A Underwood, Jr.	Captain
Robert George Welnick	Captain
Neil Warren Fore	First Lieutenant
Justin Manning Jacobs, Jr.	Second Lieutenant

Ordnance Corps Unit

Robert Sydney Jackson	Captain
Gerald St. Ores Andersen	First Lieutenant
Bennett Samuel Bibel	First Lieutenant
Robert Alan Brown	First Lieutenant
Allan Herbert Casper	First Lieutenant
William Harrison Mayfield	First Lieutenant
Raymond Kenneth Etter	Second Lieutenant

Quartermaster Corps Unit

Mikio Suo	Major
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Signal Corps Unit

Raymond Yukio Okamura	Captain
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Transportation Corps Unit

† Richard Forsell Pawson	Lieutenant Colonel
John McGregory Brough	Captain
Robert Clay Knowlton	Second Lieutenant

NAVAL COMMISSIONS*U. S. Navy (Line)*

Jerry Carl Dusthimer	Ensign
Mark Judson Jennings	Ensign
Keith Dover Jewell	Ensign
Thomas Donald Marks, Jr.	Ensign
Paul Langston McKaskle	Ensign
William Marshall McKeeman	Ensign
Leonard Simpson	Ensign
Walter Wayne Stark	Ensign
Ronald Hugh Swinnerton	Ensign
William Edward Wiegand	Ensign

U. S. Navy (Supply Corps)

Robert James O'Brien	Ensign
Charles Edward Quesnoy, Jr.	Ensign
Frederick Leonard Sorkin	Ensign

U. S. Navy (Civil Engineering Corps)

Allan Wayne Collins	Ensign
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U. S. Naval Reserve (Line)

Morton Pritchett Beebe	Ensign
John Bernard Bowron	Ensign
James Allen Clark, Jr.	Ensign
Gene Robert Clements	Ensign
Thomas Joseph Coakley	Ensign
Henry Mohr Hermann	Ensign
David Vincent Hiden	Ensign
Timothy Crosby Howard	Ensign
Fred Hundhammer, Jr.	Ensign
Robert Theodore Leitner	Ensign
Stuart Morton Levin	Ensign

† As of January 26, 1956.

Norman Lawrence Lockwood	Ensign
Robert Joseph McGregor	Ensign
Eric Dudley Murray	Ensign
William Edmund Russell, Jr.	Ensign
Jerry Charles Wendt	Ensign
John Murray Wilson, Jr.	Ensign

U. S. Naval Reserve (Supply Corps)

Robin Hart Fairbairn	Ensign
Frederick Wright Flowers	Ensign
Leon Hinckley Mayhew	Ensign
William Stuart McKee	Ensign
Frank Laedlein Robinson, Jr.	Ensign
Ellis Eaken Sjoberg	Ensign
Jerrold Chartres Turner	Ensign

U. S. Naval Reserve (Civil Engineering Corps)

Michael Alex Jordan	Ensign
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U. S. Marine Corps

Arthur Putnam Loring, Jr.	Second Lieutenant
Carter Phillip Swenson	Second Lieutenant
Ronald Edward Tatum	Second Lieutenant

U. S. Marine Corps Reserve

Richard Ralston Vandervoort	Second Lieutenant
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University Cadets

Allen Wayne Collins	Lieutenant Commander
Robin Hart Fairbairn	Lieutenant Commander
Carter Phillip Swenson	Lieutenant Commander
Ronald Hugh Swinnerton	Lieutenant Commander
Michael Alex Jordan	Lieutenant (junior grade)
Robert Theodore Leitner	Lieutenant (junior grade)
William Edmund Russell, Jr.	Lieutenant (junior grade)
Frederick Leonard Sorokin	Lieutenant (junior grade)
William Edward Wiegand	Lieutenant (junior grade)
Morton Pritchett Beebe	Ensign
John Bernard Bowron	Ensign
James Allen Clark, Jr.	Ensign
Gene Robert Clements	Ensign
Thomas Joseph Coakley	Ensign
Jerry Carl Dusthimer	Ensign
Frederick Wright Flowers	Ensign
Henry Mohr Hermann	Ensign
David Vincent Hiden	Ensign
Timothy Crosby Howard	Ensign
Fred Hundhammer, Jr.	Ensign
Mark Judson Jennings	Ensign
Keith Dover Jewell	Ensign
Stuart Morton Levin	Ensign
Norman Lawrence Lockwood	Ensign
Arthur Putnam Loring	Ensign
Thomas Donald Marks, Jr.	Ensign
Leon Hickley Mayhew	Ensign
Robert Joseph McGregor	Ensign
Paul Langston McKaskle	Ensign
William Stuart McKee	Ensign
William Marshall McKeeman	Ensign
Eric Dudley Murray	Ensign
Robert James O'Brien	Ensign
Charles Edward Quesnoy, Jr.	Ensign
Frank Laedlein Robinson, Jr.	Ensign
Leonard Simpson	Ensign
Ellis Eaken Sjoberg	Ensign
Walter Wayne Stark	Ensign

Military and Naval Commissions

Ronald Edward Tatum	Ensign
Jerrold Chartres Turner	Ensign
Richard Ralston Vandervoort	Ensign
Jerry Charles Wendt	Ensign
John Murray Wilson, Jr.	Ensign

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS 1956-1957

AGRICULTURE FELLOWSHIP

ESTABLISHED BY AN ANONYMOUS DONOR

Daisy Angelika Kuhn (Microbiology) Heidelberg, Germany
A.B. University of Pennsylvania 1952.

ANNIE M. ALEXANDER MUSEUM OF VERTEBRATE PALEONTOLOGY SCHOLARSHIP

ESTABLISHED BY THE LATE ANNIE M. ALEXANDER

Herbert Harris Winters Orlando, Florida
B.S. University of Florida 1950;
M.S. California Institute of Technology 1954.

ALLIED CHEMICAL & DYE CORPORATION FELLOWSHIP IN PLANT PATHOLOGY

ESTABLISHED BY THE GENERAL CHEMICAL DIVISION OF THE
ALLIED CHEMICAL & DYE CORPORATION

Eugene Byron Smalley Alhambra
B.S. University of California, Los Angeles, 1949;
M.S. 1953.

ALLIED CHEMICAL & DYE CORPORATION FELLOWSHIP IN PHYSICAL CHEMISTRY

ESTABLISHED BY THE BARRETT DIVISION OF THE
ALLIED CHEMICAL & DYE CORPORATION

August Harold Maki Brooklyn, New York
A.B. Columbia University 1952.

RESEARCH FELLOWSHIP IN ANIMAL HUSBANDRY

ESTABLISHED BY PROFESSORS GEORGE H. HART, HAROLD H.
COLE, AND HAROLD GOSS

Perry Wendell Riley (Comparative Physiology) Turlock
B.S. 1952.

ARCHITECTURE TRAVELING FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Appointment deferred.

AUTOMOTIVE SAFETY FOUNDATION FELLOWSHIPS IN HIGHWAY TRANSPORTATION ENGINEERING

ESTABLISHED BY THE AUTOMOTIVE SAFETY FOUNDATION

Clyde Edward Lee State College, Mississippi
B.S. 1952 and Cand. M.S. Mississippi State College.
James Leroy Skilton Thomaston, Connecticut
Cand. B.S. University of Connecticut.
Benedict Reed Holden Winslow Beverly Farms, Massachusetts
B.S. Massachusetts Institute of Technology 1954.

JOHN WOODMAN AYER FELLOWSHIP IN LAW

ESTABLISHED BY MR. AND MRS. R. B. AYER IN MEMORY OF THEIR SON,
JOHN WOODMAN AYER

Appointment deferred.

BASE HOSPITAL NO. 30 SCHOLARSHIP IN MEDICINE

GIVEN BY FRIENDS OF THE SCHOOL OF MEDICINE

Carlton Edgar Conrad Flagstaff, Arizona
 A.B. Arizona State College, Flagstaff, 1954.

BIDWELL RESEARCH FELLOWSHIP IN FORESTRY

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Elliot Lincoln Amidon Washington, District of Columbia
 B.S. Colorado State College of Agriculture and Mechanic Arts, Fort Collins, 1955.

BOLTON FELLOWSHIP IN THE HISTORY OF THE AMERICASESTABLISHED IN MEMORY OF THE LATE PROFESSOR HERBERT E. BOLTON
BY FRIENDS, FACULTY AND FORMER STUDENTS

George Francis Giacomini, Jr. Redwood City
 Cand. A.B. University of Santa Clara.

NEWTON BOOTH FELLOWSHIP IN ECONOMICS

FOUNDED UNDER THE WILL OF THE LATE MRS. JULIA E. DUNN

Ira South Lowry Berkeley
 A.B. 1950 and M.A. 1951 University of Texas.

JOHN WESLEY BRITTAN FELLOWSHIP IN CLASSICSFOUNDED BY THE LATE MARY BURT BRITTAN IN MEMORY OF HER
FATHER, JOHN WESLEY BRITTAN

Appointment deferred.

ALICE BUSH SCHOLARSHIP IN HOMEOPATHY

FOUNDED UNDER THE WILL OF THE LATE ALICE BUSH

Frances Mae Rice Concord
 A.B. 1953.

**CALIFORNIA CONGRESS OF PARENTS AND TEACHERS
SECONDARY TEACHER EDUCATION SCHOLARSHIPS**

ESTABLISHED BY THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS, INC.

Stanley Cotter Taos, New Mexico
 A.B. 1956.
 Irene Marie Sargent Santa Ana
 A.B. 1954.

**CHILDREN'S LIBRARIAN FELLOWSHIP OF THE CALIFORNIA
CONGRESS OF PARENTS AND TEACHERS**

ESTABLISHED BY THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS, INC.

Appointment deferred.

GAIL H. CALMERTON SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE GAIL H. CALMERTON

Ulrich Camillus Knoepfmacher (English) Oruro, Bolivia
 A.B. 1955.

Further appointment deferred.

JESSE D. CARR FELLOWSHIP IN AGRICULTUREFOUNDED UNDER THE WILL OF THE LATE MRS. HENRY W. SEALE
IN MEMORY OF HER FATHER, JESSE D. CARR

Julian Mordecai Davidson (Comparative Physiology) Glasgow, Scotland
 M.S. The Hebrew University 1955.

GABRIELLE CHARLEBOIS SCHOLARSHIP IN MUSIC

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Appointment deferred.

CLASS OF 1883 TRAVELING FELLOWSHIP

ESTABLISHED BY MEMBERS OF THE CLASS OF 1883

Irwin Robert Titunik (Slavic Languages and Literatures)New York, New York
A.B. 1953.

EDITH CLAYPOLE MEMORIAL RESEARCH FELLOWSHIP IN PATHOLOGY

FOUNDED IN MEMORY OF THE LATE DR. EDITH CLAYPOLE

Kenneth Ray Simonian (Bacteriology)Fresno
B.S. Fresno State College 1954.

EARL HAMILTON CORNELL SCHOLARSHIPS IN MEDICINE

FOUNDED UNDER THE WILL OF THE LATE EARL HAMILTON CORNELL

Vartiter KotcholosianFresno
A.B. Fresno State College 1954.

Howard Fred MorrelliFresno
Cand. A.B.

CORNING GLASS WORKS FELLOWSHIP IN CERAMIC ENGINEERING

ESTABLISHED BY THE CORNING GLASS WORKS FOUNDATION

William Doane ScottOlmsted Falls, Ohio
B.S. University of Illinois 1954.

HARRY STUART DERBY AND ALICE URQUHART DERBY SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE ALICE U. DERBY

Appointment deferred.

MAJOR WALTER DINKELSPIEL SCHOLARSHIPS IN LAW

ESTABLISHED UNDER THE WILL OF THE LATE SOPHIE DINKELSPIEL BROWN

IN MEMORY OF HER BROTHER, MAJOR WALTER DINKELSPIEL

Robert Ronald BurgeSalem, Illinois
Cand. B.S. McPherson College.

Malcolm Seymour BurnsteinOakland
A.B. University of California, Los Angeles, 1955.

Miles Alan CobbSouth Pasadena
B.S. 1953.

Angelo DouvosMonterey Park
Cand. A.B.

Stanley Edwin GutmanSan Anselmo
Cand. A.B.

William Lloyd HughesOakland
A.B. 1955.

Minoru InadomiMontebello
A.B. University of California, Los Angeles, 1952.

John Felix IngroSan Bernardino
Cand. A.B. Pomona College.

Bernard IsaacsonSan Lorenzo
Cand. A.B. San Jose State College.

Gerald Raymond KnechtSyracuse, New York
A.B. 1954.

William John MartinOakland
A.B. 1954.

Charles Alvin MillerOakland
A.B. 1955.

William Overton MinorBerkeley
A.B. 1952.

Marc H. MonheimerPiedmont
A.B. 1952.

Robert Owen NagleSan Diego
B.S. University of Wisconsin 1951.

Thomas Arthur PorterLong Beach
Cand. A.B. Yale University.

Robert Kelsner PugliaElkton, Maryland
A.B. Ohio State University 1952.

Fellowships and Graduate Scholarships

Avram Salkin	Los Angeles
Cand. B.S. University of California, Los Angeles.	
Spencer Weiner Strellis	Tujunga
A.B. University of Illinois 1955.	
Thomas Byrne Swartz	Piedmont
A.B. Yale University 1954.	
John David Taylor	South Pasadena
B.S. 1954.	
Eugene Robert Wallach	Los Angeles
A.B. University of Southern California 1955.	
Howard Morton Weiser	Oakland
B.S. 1953.	

DONNER FELLOWSHIP IN BIOPHYSICS

ESTABLISHED WITH FUNDS FROM THE DONNER FOUNDATION, INC.

John Robert Johnston	Leven, Fife, Scotland
B.S. University of St. Andrews 1955.	

DOW FELLOWSHIPS

ESTABLISHED BY THE WESTERN DIVISION OF THE DOW CHEMICAL COMPANY

James William McFarland (Chemistry)	Chico
A.B. Chico State College 1954.	
William Ross Wilcox (Chemical Engineering)	Torrance
Cand. B.E. University of Southern California.	

DR. E. E. DOWDLE RESEARCH FELLOWSHIPS

ESTABLISHED BY THE LATE J. P. DOWDLE

Ohai Bin Park (Public Health)	Seoul, Korea
M.D. Seoul National University 1949.	
Further appointment deferred.	

ERNESTINE DOYCHERT SCHOLARSHIP IN MEDICINE

FOUNDED UNDER THE WILL OF THE LATE ERNESTINE DOYCHERT

Joan Mary Freeborn	Upper Lake
A.B. 1953.	

DU PONT POSTGRADUATE FELLOWSHIP IN BIOCHEMISTRY

ESTABLISHED BY E. I. DU PONT DE NEMOURS & COMPANY

Elmer Glen Richards	Fontana
A.B. Pomona College 1953.	

CHARLES MALLORY DUTTON SCHOLARSHIP IN MUSIC

ESTABLISHED BY FRIENDS OF THE LATE CHARLES MALLORY DUTTON

Nelda Augustine Herby	Oakland
Cand. A.B.	

FLORENCE HELLMAN EHRMAN SCHOLARSHIPS IN MEDICINE

ESTABLISHED BY SIDNEY M. EHRMAN

Bernard M. Babior	Los Angeles
Cand. A.B.	
Richard Lee Russell	Oakland
A.B. 1954.	

EITEL-McCULLOUGH, INC. FELLOWSHIP IN ELECTRICAL ENGINEERING

ESTABLISHED BY EITEL-McCULLOUGH, INC.

Carey Lee Westall	Olney, Illinois
Cand. B. S. Purdue University.	

MARSHALL EVANS FELLOWSHIP IN BUSINESS ADMINISTRATION

ESTABLISHED BY AN ANONYMOUS DONOR

Cynthia Marie Walsh	Fort Wayne, Indiana
B.S. Purdue University 1955.	

FRITZ O. FERNSTROM TRAVELING FELLOWSHIP

ESTABLISHED BY FRITZ O. FERNSTROM

George Ross Davis (Scandinavian Languages and Literatures) Berkeley
A.B. 1954.

FLOOD FELLOWSHIP IN BUSINESS ADMINISTRATION

FOUNDED BY THE LATE MISS CORA JANE FLOOD

Hamilton Allen Smith Bartlett Medford, Oregon
B.S. Carnegie Institute of Technology 1951.

FOUNDRY EDUCATIONAL FOUNDATION FELLOWSHIP

ESTABLISHED BY THE FOUNDRY EDUCATIONAL FOUNDATION

Appointment deferred.

CHARLES MILLS GAYLEY FELLOWSHIPS

FOUNDED BY FRIENDS OF THE LATE PROFESSOR CHARLES MILLS GAYLEY

Appointments deferred.

EMMETT F. GEBAUER SCHOLARSHIP IN LAW

ESTABLISHED BY FRIENDS OF THE LATE EMMETT F. GEBAUER

Donald Mordka Cahen San Francisco
A.B. 1952.

GENERAL ELECTRIC FELLOWSHIPS

ESTABLISHED BY THE TRUSTEES OF THE GENERAL ELECTRIC
EDUCATIONAL AND CHARITABLE FUND

Creighton Arthur Depew (Mechanical Engineering) San Bernardino
Cand. B.S.
William Edwin Humphrey (Physics) Berkeley
Cand. A.B.
Allan Harvey Reddoch (Chemistry) Ottawa, Ontario, Canada
B.S. 1953 and M.S. 1954 Queen's University.
Milton Charles Zietz (Ceramic Engineering) Berkeley
B.S. University of California, Los Angeles, 1954.

**GERMAIN'S, INC. RESEARCH FELLOWSHIP IN
GENETICS AND PLANT BREEDING**

ESTABLISHED BY GERMAIN'S, INC.

Rulon Thurston Ashcroft (Genetics) Davis
B.S. Utah State Agricultural College 1949.

GLICKMAN CORPORATION REAL ESTATE FELLOWSHIP

ESTABLISHED BY THE GLICKMAN CORPORATION, NEW YORK

Ralph Bruce Ricks (Business Administration) Oakland
B.S. 1956.

JAMES M. GOEWEY FELLOWSHIP

FOUNDED BY THE FAMILY OF THE LATE JAMES M. GOEWEY

Yuan-tsan Chia (Chemistry) Taipeh, Formosa
B.S. National Taiwan University 1951;
M.S. 1955.

WILLIAM SCOTT GOODFELLOW SCHOLARSHIP IN LAW

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN MEMORY OF
THE LATE WILLIAM SCOTT GOODFELLOW

Wallace Russell Peck Millbrae
A.B. 1950.

HENRY HUNTLY HAIGHT SCHOLARSHIP IN LAW

FOUNDED UNDER THE WILL OF THE LATE JANET CAMERON HAIGHT
IN MEMORY OF HER FATHER

Robert Warren Baker Redding
A.B. 1952.

*Fellowships and Graduate Scholarships*JOHN RANDOLPH HAYNES AND DORA HAYNES
FOUNDATION FELLOWSHIPSESTABLISHED BY THE BOARD OF TRUSTEES OF THE JOHN RANDOLPH
HAYNES AND DORA HAYNES FOUNDATION

- Gerald Nash (History)Forest Hills, New York
A.B. New York University 1950;
M.A. Columbia University 1952;
Cand. Ph.D.
- Ernest Spaeth (International Relations)Berkeley
Cand. A.B.
- Further appointment deferred.

SAMUEL W. HELLER MEMORIAL FELLOWSHIP IN
LANDSCAPE ARCHITECTURE

ESTABLISHED BY WALTER S. HELLER

- Marie Elisabeth CrolyBerkeley
B.S. 1956.

SIGMUND MARTIN HELLER TRAVELING FELLOWSHIP

ESTABLISHED BY THE HEIRS OF THE LATE SIGMUND MARTIN HELLER

- Leon Frank Litwack (History)Santa Barbara
A.B. 1951; M.A. 1952.

ALFRED HERTZ MEMORIAL SCHOLARSHIPS IN MUSIC

FOUNDED UNDER THE WILL OF THE LATE ALFRED HERTZ

- Roy Vincent Bogas (Traveling)San Francisco
A.B. 1956.
- Thomas Whitney BridgesNewfane, New York
A.B. Hamilton College 1952.
- Marie Louise Martinez (Traveling)Fort Collins, Colorado
A.B. Vassar College 1953.
- Martin PickerChicago, Illinois
Ph.B. in the College, University of Chicago, 1947;
M.A. University of Chicago 1951.
- Paul Harris Turok (Traveling).....New York, New York
A.B. Queens College 1950;
M.A. 1951.

HARRY H. HILP FELLOWSHIPS IN ENGINEERING

ESTABLISHED BY HARRY H. HILP

- Gerald August (Electrical Engineering)Seattle, Washington
Cand. B.S. University of Washington.
- Toshimitsu Nishimura (Electrical Engineering)Nerima-ku, Tokyo, Japan
B.E. University of Tokyo 1953.

INTERNATIONAL BUSINESS MACHINES FELLOWSHIP IN PHYSICS

ESTABLISHED BY THE INTERNATIONAL BUSINESS MACHINES CORPORATION

- Ronald Rickard RossOakland
A.B. 1956.

AMY BOWLES JOHNSON MEMORIAL FELLOWSHIP

FOUNDED IN MEMORY OF THE LATE MRS. HIRAM JOHNSON, JR.

- Sergio Gregorio Rodriguez-Fontannaz (Physics)Santiago, Chile
A.B. 1955.

WALTER PERRY JOHNSON GRADUATE RESEARCH
FELLOWSHIPS IN LAW

ESTABLISHED UNDER THE WILL OF THE LATE WALTER PERRY JOHNSON

- Hans Heinrich MahnkeBerlin, Germany
Grad. University of Freiburg 1954.
- Rajendra Nath VarmaJaipur, India
A.B. 1931, LL.B. 1933, M.A. 1934, LL.M. 1935 University of the Punjab.
- Further appointments deferred.

WALTER PERRY JOHNSON SCHOLARSHIPS IN LAW

ESTABLISHED UNDER THE WILL OF THE LATE WALTER PERRY JOHNSON

- Harold Eugene Landis San Diego
A.B. San Diego State College 1950.
Stanton Gilmore Ware San Francisco
A.B. 1952.
Joe John Yasaki Los Angeles
A.B. University of California, Los Angeles, 1954.

WILLIAM CAREY JONES SCHOLARSHIP IN LAW

FOUNDED BY FRIENDS OF THE LATE PROFESSOR WILLIAM CAREY JONES

Appointment deferred.

ALFRED B. JORDAN FELLOWSHIP

FOUNDED UNDER THE WILL OF THE LATE ALFRED B. JORDAN

- Walter Kurt Schoenholz (Bacteriology) San Francisco
Cand. B.S.

KIMBER FELLOWSHIP IN POULTRY GENETICS

ESTABLISHED BY THE KIMBER FARMS FOUNDATION

- Leon Saul Rosenblatt Farmingdale, New Jersey
B.S. Rutgers University 1953.

CHARLES ATWOOD KOFOID EUGENICS FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE PROFESSOR CHARLES ATWOOD KOFOID

- Keith Morgan Aldrich (Classics) Berkeley
A.B. 1950 and A.B. 1954 University of Washington;
M.A. Harvard University 1955.
Richard Maltby Colvard (Sociology and Social Institutions) Weiser, Idaho
A.B. Antioch College 1952.
Eugene Alfred Hammel (Anthropology) Berkeley
A.B. 1951.
Billy Hoyt McCullough (Oriental Languages) Berkeley
A.B. 1952; M.A. 1955.

HERBERT KRAFT SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE GEORGE H. KRAFT IN MEMORY
OF HIS FATHER, HERBERT KRAFT

Appointment deferred.

GEORGE LADD PRIX DE PARIS IN MUSIC

FOUNDED UNDER THE WILL OF THE LATE MRS. ELIZABETH P. MITCHELL

- Alden Hugh Gilchrist Portland, Oregon
A.B. Lewis and Clark College 1951.

LANE-WELLS COMPANY FELLOWSHIP IN PETROLEUM ENGINEERING

ESTABLISHED BY THE LANE-WELLS COMPANY

- Ralph Michael Kelly North Hollywood
Cand. B.S.

AUGUST JEROME LARTIGAU MEMORIAL SCHOLARSHIPS IN MEDICINE

FOUNDED UNDER THE WILL OF THE LATE MRS. KATE I. LARTIGAU
IN MEMORY OF HER HUSBAND

- Willard Manning Daggett, Jr. Berkeley
A.B. 1955.
Gerald Louis DeNardo San Jose
A.B. 1954.
Michael Francis Hein San Bernardino
A.B. 1955.
Jack Donald Herring San Jose
A.B. 1955.
Donald Lee Morton Sacramento
A.B. 1955.

- Stanford Foster Pollock Alameda
 Cand. A.B.
 Melvin Lynne Rubin San Francisco
 B.S. 1953.

LICK OBSERVATORY FELLOWSHIPS IN ASTRONOMY

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

- Krishna Damodar Abhyankar Indore, India
 B.S. 1949 and M.S. 1951 Agra University.
 George Worrall Preston, III Glendale
 B.S. Yale University 1952.
 Morton Spitz Roberts Pasadena
 A.B. Pomona College 1948;
 M.S. California Institute of Technology 1950.

WALTER LOEWY SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE WALTER LOEWY

- Hans Wilhelm Kruger (Physics) Berkeley
 A.B. 1955.

GENEVIEVE MCENERNEY FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE REGENT GARRET W. MCENERNEY
 IN MEMORY OF HIS WIFE, THE LATE GENEVIEVE MCENERNEY

- Reba Ward Benedict (Geology) Glendale, Ohio
 A.B. Bryn Mawr College 1952.
 Mary Sue Hanlon (Biochemistry) Baton Rouge, Louisiana
 B.S. Louisiana State University 1954.
 Patricia Anne Lawrence (History of Art) Berkeley
 Cand. A.B.
 Alice Leeper Mitchell (Psychology) Eugene, Oregon
 Cand. A.B.
 Charlotte Ann Thomas Stribel (Statistics) Cheyenne, Wyoming
 A.B. and M.A. Ohio State University 1952.
 Rosalind Judith Zukoff (Romance Literature) Baltimore, Maryland
 A.B. Hunter College of the City of New York 1954;
 M.A. Johns Hopkins University 1955.

SAMUEL BELL MCKEE MEMORIAL FELLOWSHIPS IN LAW

ESTABLISHED BY THE LATE MRS. SALLY MCKEE SPENS-BLACK IN MEMORY
 OF HER FATHER, THE LATE SAMUEL BELL MCKEE

- John James Dutton Berkeley
 A.B. 1955.
 Howard Arthur Siegel Modesto
 B.S. Eastern Illinois State College 1952.

DAVID BARCLAY MACKIE AND NORTHERN CALIFORNIA ENTOMOLOGY
 CLUB MEMORIAL FELLOWSHIP

ESTABLISHED UNDER THE SPONSORSHIP OF THE
 NORTHERN CALIFORNIA ENTOMOLOGY CLUB

- Donald James Burdick San Jose
 A.B. San Jose State College 1953.

MAY J. MCLEAN FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

- Lloyd John Old (Medicine) Millbrae
 A.B. 1955.

JOHN BELL MHOON SCHOLARSHIPS IN LAW

FOUNDED BY THE LATE MRS. JOHN BELL MHOON

- Richard Carrol Lewis (School of Law) Berkeley
 A.B. 1953.
 Further appointment deferred.

WILLIAM HARRISON MILLS FELLOWSHIP IN
INTERNATIONAL RELATIONS

FOUNDED UNDER THE WILL OF THE LATE MRS. MARIA ELIZABETH MILLS
Appointment deferred.

MONSANTO FELLOWSHIP IN CHEMISTRY
ESTABLISHED BY THE MONSANTO CHEMICAL COMPANY

James Richard Wolfe, Jr. Roselle Park, New Jersey
B.S. Massachusetts Institute of Technology 1954.

FRANK AND IVY MYERS SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE FRANK SYLVESTER MYERS
Appointment deferred.

CHARLES ROBERT NELSON FELLOWSHIPS IN MEDICINE
FOUNDED UNDER THE WILL OF THE LATE CHARLES ROBERT NELSON

Milton Curtis David Turlock
Cand. A.B.
Bernard Lowell Finley Okanogan, Washington
Cand. A.B.
Eugene Cassel Siegrist Berkeley
A.B. 1953.

NEWHOUSE FOUNDATION SCHOLARSHIPS
ESTABLISHED BY THE NEWHOUSE FOUNDATION, INC.

Michael W. Blume (Law) Berkeley
A.B. 1951 and M.A. 1954 Ohio State University.
Wesley Theodore Brandhorst (Librarianship) Carmel
A.B. 1955.
Melvin Kendall Call (Medicine) Pasadena
A.B. 1954.
Robert Allen Campbell (Medicine) Richmond
A.B. 1954.
Mathews Benarr Fish (Medicine) Stockton
Cand. A.B.
Edwin Robert Geiger, Jr. (Medicine) Visalia
B.S. 1953.
Norman Caswell Headley (Medicine) San Francisco
Cand. A.B.
Mardi J. Horowitz (Medicine) Los Angeles
A.B. 1955.
Ralph Joseph Moore, Jr. (Law) San Rafael
A.B. Yale University 1954.
Harvey Johan Olander (Veterinary Medicine) Vacaville
Cand. B.S.
Billy Russell Pogue (Linguistics) Berkeley
A.B. University of Arizona 1954.
William Eugene Rowley, Jr. (Medicine) Oakdale
B.S. 1951.
Norman J. Rubaum (Medicine) Los Angeles
A.B. University of California, Los Angeles, 1952.

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.

**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.

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

Bernard Sosner Los Angeles
A.B. University of California, Los Angeles, 1954.

JAMES PHELAN SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE JAMES D. PHELAN IN MEMORY OF
HIS FATHER

Melvin Walker LaFollette (English) Ridgeville, Indiana
A.B. University of Washington 1953;
M.A. State University of Iowa 1954.

FRANK M. PIXLEY SCHOLARSHIP IN LAW

FOUNDED UNDER THE WILL OF THE LATE MRS. AMELIA V. R. PIXLEY

Alton Irwin Leib Beverly Hills
A.B. University of California, Los Angeles, 1953.

PROCTER & GAMBLE FELLOWSHIP IN CHEMISTRY

ESTABLISHED BY THE PROCTER & GAMBLE COMPANY

John Zinn Manhasset, New York
A.B. Cornell University 1949.

PUBLIC HEALTH FELLOWSHIPS IN BIostatISTICS

ESTABLISHED BY THE NATIONAL HEART INSTITUTE OF THE
UNITED STATES PUBLIC HEALTH SERVICE

Fern Edwards French Berkeley
A.B. Oregon State College 1933;
M.A. 1939.

Alan Maier Gittelsohn Berkeley
B.S. 1949; M.P.H. 1952.

Harley Bryce Messinger San Diego
A.B. Brown University 1947;
M.D. Cornell University 1948.

**PUBLIC HEALTH FELLOWSHIP FOR STUDIES IN
MATERNAL AND CHILD HEALTH**

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Helen Christina Chase Nassau, New York
A.B. Hunter College of the City of New York 1938;
M.S. Columbia University 1951.

**GEORGE FREDERICK REINHARDT MEMORIAL—CLASS OF 1915
SCHOLARSHIP IN MEDICINE**

FOUNDED BY THE CLASS OF 1915

Roberts Seisums Berkeley
A.B. 1954.

MABEL WILSON RICHARDS SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE MABEL WILSON RICHARDS

Dorothy May Bowman (Chemistry) Los Angeles
B.S. Stanford University 1955.

Joyce Louise Clasen (Education) Los Angeles
Cand. A.B. University of California, Los Angeles.

LaVerne Janet Wolfe (Law) Los Angeles
A.B. University of California, Los Angeles, 1954.

RICHFIELD OIL CORPORATION FELLOWSHIPS

ESTABLISHED BY THE RICHFIELD OIL CORPORATION

Wilm Ernst Donath (Chemistry)Pittsburgh, Pennsylvania
B.S. Carnegie Institute of Technology 1954.
Further appointments deferred.

ARCHBISHOP RIORDAN SCHOLARSHIP IN AMERICAN HISTORY

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN MEMORY OF THE LATE
ARCHBISHOP PATRICK WILLIAM RIORDAN

Appointment deferred.

W. S. ROSECRANS FELLOWSHIP IN FORESTRY

ESTABLISHED BY W. S. ROSECRANS

Stanley Liebert Krugman (Plant Physiology)St. Louis, Missouri
B.S. University of Missouri 1955.

ABRAHAM ROSENBERG RESEARCH FELLOWSHIPS

FOUNDED UNDER THE WILL OF THE LATE ABRAHAM ROSENBERG

Chi Yuen Chan (Bacteriology)Hanover, New Hampshire
A.B. Barnard College 1953;
M.A. 1955.
John Wilfred Collette (Chemistry)Calgary, Alberta, Canada
B.S. University of Alberta 1955.
Ronald Richards Novales (Zoology)San Francisco
A.B. 1950; M.A. 1953.

ALICE J. ROSENBERG RESEARCH FELLOWSHIP

FOUNDED UNDER THE WILL OF THE LATE ALICE J. ROSENBERG

Appointment deferred.

WALTER ROTHCHILD SCHOLARSHIP IN LAW

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN HONOR OF
THE LATE WALTER ROTHCHILD

Arnold Sherman LandauLos Angeles
A.B. University of California, Los Angeles, 1954.

SHEFFIELD SANBORN SCHOLARSHIPS

FOUNDED BY MRS. FRANCES B. SANBORN IN MEMORY OF HER HUSBAND

Donald Leonard Adams Kerson (Law)San Francisco
A.B. 1955.
Kennett George Sublette, Jr. (Medicine)Fruto
A.B. 1953.

SAN BRUNO COMMUNITY HOUSE SCHOLARSHIP IN MEDICINE

FOUNDED BY THE BOARD OF DIRECTORS OF THE SAN BRUNO COMMUNITY HOUSE,
SAN FRANCISCO

Robert Marvin KahnPasadena
A.B. University of California, Los Angeles, 1954.

GEORGE L. SCHNEIDER MEMORIAL SCHOLARSHIP IN OPTOMETRY

ESTABLISHED BY THE CALIFORNIA OPTOMETRIC ASSOCIATION

Richard Wallace NeumaierLong Beach
Cand. B.S.

SHELL FELLOWSHIPS

ESTABLISHED BY THE SHELL FELLOWSHIP COMMITTEE

Harmon West Brown, Jr. (Chemistry)Wilmette, Illinois
B.S. Northwestern University 1954.
Arnold Joseph Laderman (Mechanical Engineering)San Francisco
B.S. 1951.

*Fellowships and Graduate Scholarships***JOE SHOONG FELLOWSHIP**

ESTABLISHED BY MR. JOE SHOONG

Normund Wong (Medicine)San Francisco
Cand. A.B.**SIMONSEN LABORATORIES SCHOLARSHIP IN HIGH
ALTITUDE RESEARCH**

ESTABLISHED BY THE SIMONSEN LABORATORIES

Alvin Halevy (Physiology)Oakland
A.B. 1953.**LOUIS AND SARAH SLOSS SCHOLARSHIP**

FOUNDED BY THE FAMILY OF THE LATE LOUIS AND SARAH SLOSS

Richard Amsden Mason (Veterinary Medicine)Alameda
Cand. B.S.**IRVING AND LUCILE SMITH SCHOLARSHIP**FOUNDED UNDER THE WILL OF THE LATE LUCILE MOORE SMITH IN MEMORY
OF HER HUSBAND, IRVING H. SMITHAndrew Wortman (Mechanical Engineering)Oakland
Cand. B.S.**SMITH KLINE & FRENCH FOUNDATION FELLOWSHIP IN PHARMACY**ESTABLISHED BY THE TRUSTEES OF THE
SMITH KLINE & FRENCH FOUNDATIONWalter Singer (Pharmaceutical Chemistry)Catskill, New York
A.B. University of Michigan 1939;
M.A. 1940;
B.S. Albany College of Pharmacy 1948.**SOCONY-MOBIL OIL COMPANY—GENERAL PETROLEUM
CORPORATION SCHOLARSHIP**

ESTABLISHED BY THE GENERAL PETROLEUM CORPORATION

William Laird Baker (Geophysics)Tulsa, Oklahoma
A.B. Yale University 1952.**SCHOLARSHIP IN SPANISH**

ESTABLISHED BY AN ANONYMOUS DONOR

Carlene Diane RobertsRichmond
Cand. A.B.**SALLY MCKEE SPENS-BLACK FELLOWSHIP IN MEDICINE**

ESTABLISHED BY THE LATE MRS. SALLY MCKEE SPENS-BLACK

Robert Westmoreland Peyton IIOakland
Cand. A.B.**RUSSELL SEVERANCE SPRINGER SCHOLARSHIPS IN MEDICINE**

FOUNDED UNDER THE WILL OF THE LATE RUSSELL SEVERANCE SPRINGER

Alan Joseph DavidsonBerkeley
A.B. 1955.
Norman C. EllermannDaly City
Koert Hawley JacksonRidgecrest
A.B. 1954.
Arthur Mack NicolaysenBerkeley
Cand. A.B.
Berigoj Karmen StambukSan Pedro
A.B. 1955.**STANOLIND GRADUATE FELLOWSHIP IN GEOPHYSICS**

ESTABLISHED BY THE STANOLIND FOUNDATION, INC.

John Blades CameronEdmonton, Alberta, Canada
B.S. University of Alberta 1951;
M.A. 1954.

JAMES SUTTON FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Richard Bridgman (English) Toledo, Ohio
A.B. 1956.
Woodrow Wilson Fellow.

ARTHUR GOULD TASHEIRA FELLOWSHIPS

ESTABLISHED UNDER THE WILL OF THE LATE MRS. HELEN G. TASHEIRA IN
MEMORY OF HER HUSBAND, THE LATE ARTHUR GOULD TASHEIRA

Sardar Ali Khan (Civil Engineering) Hyderabad, Deccan, India
B.E. Osmania University 1951;
M.S. University of Illinois 1955.
Sherwin LeRoy Samuels (Law) Los Angeles
Cand. A.B. Harvard University.
Further appointment deferred.

TAUSSIG TRAVELING FELLOWSHIP

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY UNDER THE EMMA M. AND
RUDOLPH J. TAUSSIG MEMORIAL FUND

Appointment deferred.

BERTHA HENICKE TAUSSIG MEMORIAL SCHOLARSHIP (TRAVELING)

FOUNDED UNDER THE WILL OF THE LATE HUGO A. TAUSSIG

Mary Jane Powell (Art) Seattle, Washington
A.B. University of Washington 1954.

SHANNON CECIL TURNER SCHOLARSHIPS IN LAW

ESTABLISHED BY THE LATE MRS. MARY EMMA TURNER

Victor Mendell Corbett San Francisco
B.S. University of Nevada 1951.
Bruce Morris Cowan Berkeley
A.B. 1953.

**UNION CARBIDE AND CARBON CORPORATION
FELLOWSHIP IN CHEMISTRY**

ESTABLISHED BY THE UNION CARBIDE AND CARBON CORPORATION

Paul Arliss King North Little Rock, Arkansas
B.S. University of Arkansas 1954.

**UNITED STATES RUBBER COMPANY POSTGRADUATE
FELLOWSHIP IN CHEMISTRY**

ESTABLISHED BY THE UNITED STATES RUBBER COMPANY

Chalon Lucius Carnahan Palo Alto
B.S. California Institute of Technology 1955.

UNIVERSITY FELLOWSHIPS

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

John Theodore Alfors (Geology) Parlier
A.B. 1952.
Phillip Barker (Linguistics) Tacoma, Washington
A.B. University of Washington 1951.
Oscar Edwin Bradfute (Soil Science) Xenia, Ohio
B.S. 1951 and M.S. 1953 Ohio State University.
Elton James Cairns (Chemical Engineering) Chicago, Illinois
B.S. (Chemistry) and B.S. (Chemical Engineering)
Michigan College of Mining and Technology 1955.
Carl Dudley Clayberg (Genetics) Tacoma, Washington
B.S. University of Washington 1954.
Phillip DeVere Deuel, Jr. (Philosophy) Berkeley
A.B. 1950; M.A. 1953.

Fellowships and Graduate Scholarships

- Robert Orville Fournier (Geology)Spring Valley
A.B. Harvard University 1954.
- William Horton Jacobsen, Jr. (Linguistics)San Diego
A.B. Harvard University 1953.
- Kian Moon Kwan (Sociology and Social Institutions).....Manila, Philippines
A.B. Far Eastern University, Manila, 1952;
M.A. 1954.
- Charles Poling Luehr (Mathematics)Corvallis, Oregon
B.S. 1953 and Cand. M.S. Oregon State College.
- Vera Gwen Paugh (Romance Literature)Baker, Oregon
A.B. 1953 and M.A. 1955 University of Oregon.
- Anthony James Pearce (Political Science)Chippenham, England
B.S. University of London 1952.
- Jean Kirkham Righter (English)Denver, Colorado
A.B. 1950 and M.A. 1953 University of Kansas.
- David Bentheim Stenzel (History)San Francisco
B.S. Georgetown University 1951;
M.A. 1954.
- Yoash Vaadia (Plant Physiology)Hadera, Israel
B.S. 1954; M.S. 1955.
- Alex Wayman (Sanskrit)Los Angeles
A.B. 1948 and M.A. 1949 University of California, Los Angeles.

UNIVERSITY OF CALIFORNIA LAW SCHOOL ASSOCIATION
SCHOLARSHIPS

ESTABLISHED BY THE UNIVERSITY OF CALIFORNIA LAW SCHOOL ASSOCIATION

- Karl Anders BergstromSan Francisco
B.S. 1950.
- John Clayton VanderpoolCouncil Bluffs, Iowa
Cand. B.S.
- Further appointments deferred.

HERBERT H. VAUGHAN SCHOLARSHIPS IN ITALIAN

FOUNDED UNDER THE WILL OF THE LATE PROFESSOR HERBERT H. VAUGHAN

Appointments deferred.

DR. BENJAMIN P. WALL MEMORIAL SCHOLARSHIP

FOUNDED UNDER THE WILL OF THE LATE DR. BENJAMIN P. WALL

Appointment deferred.

MR. AND MRS. FRANK R. WEHE SCHOLARSHIP IN LAW

FOUNDED BY MRS. FRED R. RICHARDSON IN MEMORY OF HER FATHER AND MOTHER

- Claude Donald RohwerDixon
A.B. 1955.

EPHRAIM AND AMALIA WEISS SCHOLARSHIPS IN PHILOSOPHY

ESTABLISHED BY THE LATE EPHRAIM AND AMALIA WEISS

- William Jared CharlesKnoxville, Illinois
A.B. Knox College 1950
- Doris Krutmeyer EtemadSan Francisco
B.S. University of San Francisco 1948;
M.A. 1951.
- Fredric Jay GoldbaumSan Mateo
Cand. A.B.
- Marshall Henry LombardoBerkeley
A.B. 1954.
- Further appointment deferred.

WESTINGHOUSE FELLOWSHIP IN PHYSICS

ESTABLISHED BY THE WESTINGHOUSE EDUCATIONAL FOUNDATION

Appointment deferred.

WHITING FELLOWSHIP IN PHYSICS

FOUNDED UNDER THE WILL OF THE LATE HAROLD WHITING

William Lee Barr Bay City, Oregon
B.S. University of Washington 1950.

ALLEN D. WILSON MEMORIAL SCHOLARSHIPS

FOUNDED UNDER THE WILL OF THE LATE AMELIA S. WILSON
IN MEMORY OF HER HUSBAND

Richard Walter Akin (Medicine) Los Gatos
Cand. A.B.
Carolyn Joyce Mead (Education) Sanger
Cand. A.B.
Further appointment deferred.

D. ZELINSKY & SONS FOUNDATION SCHOLARSHIP IN ARCHITECTURE

ESTABLISHED BY THE D. ZELINSKY & SONS FOUNDATION

Richard Allan Borgstrom Sioux City, Iowa
A.B. University of Minnesota 1955

NESHAN ZOVICK FELLOWSHIP

FOUNDED UNDER THE WILL OF THE LATE NESHAN ZOVICK

Armen Arsen Tashdinian (History) Sacramento
Cand. A.B.

**WILLARD DAWSON THOMPSON
MEMORIAL SCHOLARSHIPS**

FOUNDED UNDER THE WILL OF THE LATE MRS. JENNIE D. THOMPSON

John Christian Frandsen (Parasitology) Grantsville, Utah
B.S. 1955 and Cand. M.S. University of Utah.
Max Wilmer Hill (Chemistry) Provo, Utah
A.B. Brigham Young University 1954.
Frances Marian Pearson Salt Lake City, Utah
Senior Student, Rowland Hall School for Girls,
Salt Lake City.
John Carl Porter Ogden, Utah
Junior Student, University of California.

AWARDS OF UNDERGRADUATE SCHOLARSHIPS FOR 1956-1957

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 Rogin, Senior, Letters and Science, Berkeley.

CATHERINE AICHER MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF MISS OLGA J. AICHER IN MEMORY OF HER SISTER,
MISS CATHERINE AICHER

Martha Jane Weatherholt, Sophomore, Letters and Science, Berkeley.

GUSTAV A. AICHER SCHOLARSHIP

ESTABLISHED BY THE WILL OF MISS OLGA J. AICHER IN MEMORY OF
HER BROTHER, GUSTAV A. AICHER

Roy Scott Hickman, Junior, Engineering, Berkeley.

ALAMEDA COUNTY NURSES' ASSOCIATION SCHOLARSHIPS

ESTABLISHED BY THE ALAMEDA COUNTY NURSES' ASSOCIATION

†Rosa Mildred Gorre, Senior, Letters and Science, Berkeley.

ALLIED DRUG TRAVELERS OF CALIFORNIA, INC., SCHOLARSHIP

GIVEN BY THE ALLIED DRUG TRAVELERS OF CALIFORNIA, INC.

Appointment deferred.

ALUMNAE ASSOCIATION OF THE SAN FRANCISCO GIRLS' HIGH SCHOOL SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO GIRLS' UNION

Appointment deferred.

ALUMNI SCHOLARSHIPS FOR ENTERING STUDENTS

PROVIDED FROM FUNDS CONTRIBUTED BY ALUMNI OF THE UNIVERSITY
AND FROM THE UNIVERSITY'S GENERAL FUNDS

John William Adamson, Jr., Junior (Applicant), Letters and Science, Stockton.
Christina Elizabeth Ahlm, Freshman (Applicant), Letters and Science, Los Angeles.
James Fielding Ambrose, Freshman (Applicant), Engineering, Santa Rosa.
Coralei Mae Ames, Freshman (Applicant), Letters and Science, San Francisco.
Jacqueline Sally Arbios, Freshman (Applicant), Letters and Science, Long Beach.
Claude Lawrence Arne, Freshman (Applicant), Engineering, Yuba City.
Thomas Hammond Barr, Freshman (Applicant), Letters and Science, Fresno.
Gene Arthur Bell, Freshman (Applicant), Engineering, Walnut Creek.
Roberta Jane Bell, Freshman (Applicant), Letters and Science, Berkeley.
Jacqueline Ethel Bernardin, Freshman (Applicant), Letters and Science, Fallbrook.
Charles Gary Bird, Freshman (Applicant), Engineering, Upper Lake.
Donald Woodson Bowles, Freshman (Applicant), Letters and Science, Watsonville.
Bonnie Sue Boyer, Freshman (Applicant), Letters and Science, Marin City.
Donald Edwin Brook, Freshman (Applicant), Engineering, Whittier.
Marshall Grayston Brown, Freshman (Applicant), Engineering, Solvang.
Richard Clark Brown, Freshman (Applicant), Letters and Science, San Francisco.
Timothy Tuttle Brown, Sophomore (Applicant), Letters and Science, Glendora.

† Fall semester only, 1956.

- Darlee Jean Buchanan, Freshman (Applicant), Letters and Science, San Diego.
 Michael George Buchen, Freshman (Applicant), Letters and Science, Richmond.
 †Linda Lou Burns, Freshman (Applicant), Letters and Science, Livermore.
 Larry Paul Burris, Freshman (Applicant), Engineering, Compton.
 Jack Eugene Call, Freshman (Applicant), Engineering, Bella Vista.
 §Carolyn Dorothy Cannell, Junior (Applicant), Dentistry, Simi.
 Barbara Jean Cannon, Freshman (Applicant), Letters and Science, Piedmont.
 **Peggy Ann Canterbury, Freshman (Applicant), Applied Arts, Santa Barbara.
 Marilyn Elisabeth Cathcart, Freshman (Applicant), Letters and Science, Berkeley.
 Johanna Lee Clark, Freshman (Applicant), Letters and Science, Palo Alto.
 William Richard Cobb, Junior (Applicant), Letters and Science, Redding.
 Charlene Roberta Conrad, Freshman (Applicant), Letters and Science, Long Beach.
 William Fred Craven, Freshman (Applicant), Engineering, Richmond.
 Donald Wesley Crawford, Freshman (Applicant), Agriculture, Berkeley.
 Charles Wayne Crow, Freshman (Applicant), Letters and Science, Corcoran.
 **Betty Jo Crysler, Sophomore (Applicant), Letters and Science, San Mateo.
 Janice Ruth Curnow, Freshman (Applicant), Letters and Science, Tuolumne.
 Lynn Frances Dally, Freshman (Applicant), Letters and Science, Elmira.
 Paul Anthony Dennan, Jr., Freshman (Applicant), Letters and Science, Alameda.
 Maurice Keith deVillers, Freshman (Applicant), Letters and Science, Lafayette.
 William Albert Dillon, Jr., Freshman (Applicant), Letters and Science, Berkeley.
 A Chapman Dix, Freshman (Applicant), Engineering, Berkeley.
 James Albert Dixon, Freshman (Applicant), Engineering, Del Paso Heights.
 Thomas Michael Dixon, Junior (Applicant), Letters and Science, Stockton.
 Andrew Don, Freshman (Applicant), Letters and Science, Porterville.
 Caroline Louise Dopplmaier, Freshman (Applicant), Letters and Science, North Sacramento.
 Kenneth Guy Duxtader, Freshman (Applicant), Chemistry, Albany.
 Susan Stafford Dunlap, Freshman (Applicant), Letters and Science, Berkeley.
 Joan Frances Eagan, Freshman (Applicant), Letters and Science, San Francisco.
 Byron Dee Edde, Jr., Freshman (Applicant), Engineering, Santa Paula.
 David Lee Egly, Freshman (Applicant), Engineering, Willows.
 Jane Clair Ellison, Freshman (Applicant), Letters and Science, San Bernardino.
 Gilbert Arthur Emmert, Freshman (Applicant), Engineering, Merced.
 Gerald Howard Erickson, Freshman (Applicant), Engineering, Selma.
 Sonja Gudrun Erickson, Freshman (Applicant), Letters and Science, Burlingame.
 Yvonne Anneen Esler, Freshman (Applicant), Letters and Science, San Anselmo.
 †Douglas William Fagg, Freshman (Applicant), Engineering, Vacaville.
 Barbara Alice Feiling, Freshman (Applicant), Agriculture, San Carlos.
 Gordon Stephen Finn, Freshman (Applicant), Letters and Science, Berkeley.
 Hinda Charlotte Flatow, Freshman (Applicant), Letters and Science, Los Angeles.
 Teresa Fourkas, Freshman (Applicant), Letters and Science, Richmond.
 Michael Bernard Francis, Freshman (Applicant), Letters and Science, Atascadero.
 Richard Lawrence Freeborn, Freshman (Applicant), Letters and Science, Upper Lake.
 Peter Edwin Frichette, Freshman (Applicant), Engineering, Sacramento.
 Shirley Ann Gardner, Freshman (Applicant), Letters and Science, Santa Ana.
 Dwain Roger Gatterdam, Junior (Applicant), Letters and Science, Newport Beach.
 Douglas Charles Giancoli, Freshman (Applicant), Letters and Science, Berkeley.
 Henry Manfred Giudice, Freshman (Applicant), Letters and Science, Alameda.
 Judith Glick, Freshman (Applicant), Letters and Science, Santa Monica.
 Hubert Earl Goodwin, Jr., Freshman (Applicant), Letters and Science, Napa.
 Gaynel Gordon, Freshman (Applicant), Letters and Science, Walnut Creek.
 Joan Theresa Grady, Freshman (Applicant), Letters and Science, Berkeley.
 Clifford Wayne Graves, Freshman (Applicant), Letters and Science, San Francisco.
 James Edward Green, Freshman (Applicant), Engineering, Modesto.
 ****Roberta Ann Griffin, Freshman (Applicant), Letters and Science, Oakland.
 Judith Ann Grimshaw, Freshman (Applicant), Letters and Science, Alameda.
 Harry Lee Guthrie, Freshman (Applicant), Engineering, Vallejo.
 Maralynn Margaret Hagood, Freshman (Applicant), Letters and Science, Concord.

† Fall semester only, 1956.

§ At San Francisco.

** At Santa Barbara.

**** At Berkeley or Santa Barbara.

- Allan Halden, Freshman (Applicant), Letters and Science, Davis.
 Robert Joseph Hall, Freshman (Applicant), Engineering, Grass Valley.
- **** Betty Myrtle Hamilton, Freshman (Applicant), Letters and Science, Santa Maria.
 Beverly Ann Hardy, Freshman (Applicant), Letters and Science, Richmond.
- *** Wendy Carolyn Harper, Freshman (Applicant), Letters and Science, Sausalito.
 * Elmer Kinji Hayashi, Freshman (Applicant), Education, Vacaville.
- *† Gale Margaret Heath, Freshman (Applicant), Letters and Science, Albany.
 Glenda Jean Heiges, Freshman (Applicant), Letters and Science, Gilroy.
 Rose Marie Hill, Freshman (Applicant), Letters and Science, Richmond.
- * Julia Southmayd Hoagland, Freshman (Applicant), Letters and Science, Campbell.
 Harriet Isabelle Hoffner, Freshman (Applicant), Letters and Science, Anaheim.
 William Robert Holland, Freshman (Applicant), Letters and Science, Gardena.
 Sonya Holodiloff, Freshman (Applicant), Letters and Science, San Francisco.
- * Charlotte Anne Howard, Freshman (Applicant), Letters and Science, Lodi.
 Larry Joe Hudack, Freshman (Applicant), Engineering, Carpinteria.
 William Nathaniel Hudson, Freshman (Applicant), Letters and Science, Berkeley.
 Kathleen Mary Huff, Freshman (Applicant), Letters and Science, Newport Beach.
- * Cornelia Raymond Hughes, Freshman (Applicant), Letters and Science, Richmond.
- † Harry Marshall Humphrey, Freshman (Applicant), Engineering, Oakland.
 Robert Leslie Irvine, Junior (Applicant), Letters and Science, Salinas.
 Hiroyuki Jim Ishimaru, Freshman (Applicant), Engineering, Reedley.
 Greta Ruth Iverson, Freshman (Applicant), Letters and Science, Napa.
- *** Glenn Roy James, Senior (Applicant), Jurisprudence, Taft.
 Robert Wells Jarvis, Freshman (Applicant), Letters and Science, Sacramento.
 Charlane Lola Jimerson, Freshman (Applicant), Engineering, Bakersfield.
 Chester Bryce Jones, Freshman (Applicant), Letters and Science, Greenfield.
 Nancy Ann Jue, Freshman (Applicant), Letters and Science, San Francisco.
 Calvin Fung Kew Jung, Freshman (Applicant), Letters and Science, San Francisco.
 Kieth Fredrick Kaber, Freshman (Applicant), Agriculture, Orland.
 Nancy Joan Kahrs, Freshman (Applicant), Letters and Science, Oakland.
- † Cristel Karmine, Freshman (Applicant), Letters and Science, San Francisco.
 John Arthur Keough, Freshman (Applicant), Letters and Science, Pomona.
 James Higgins Kerr, Jr., Freshman (Applicant), Engineering, San Francisco.
 Gosuke Kinoshita, Freshman (Applicant), Engineering, Castro Valley.
 Peter John Kiriakos, Freshman (Applicant), Engineering, Vallejo.
 John Darrel Kloninger, Freshman (Applicant), Letters and Science, Richmond.
 Judith Ann Kogan, Freshman (Applicant), Letters and Science, San Francisco.
 Richard Edward Krell, Freshman (Applicant), Letters and Science, San Jose.
 Doreen Vivian Krueckel, Freshman (Applicant), Letters and Science, El Cerrito.
 Gerald Thomas Kurtz, Freshman (Applicant), Engineering, Piedmont.
- * Lois Ann Lattin, Freshman (Applicant), Letters and Science, Oroville.
 Michael Reed Laurenson, Freshman (Applicant), Letters and Science, Orinda.
 Marguerite Laura Leach, Freshman (Applicant), Letters and Science, Hollister.
 Feelie Lee, Freshman (Applicant), Letters and Science, Ojai.
- † Norman Howard Lehfeldt, Freshman (Applicant), Engineering, Vacaville.
 Richard Paxton Lemen, Freshman (Applicant), Letters and Science, Sacramento.
 Bing K. Leong, Freshman (Applicant), Letters and Science, Hayward.
 Lucille Anne Lillevick, Freshman (Applicant), Letters and Science, San Jose.
 Dan Grayson Lubbock, Freshman (Applicant), Letters and Science, Alameda.
 Dave Henry Luders, Freshman (Applicant), Engineering, San Francisco.
 Alva Ann Lynch, Freshman (Applicant), Letters and Science, San Francisco.
 John William Lynch, Freshman (Applicant), Letters and Science, Crescent City.
 DeAnn Lyons, Freshman (Applicant), Letters and Science, Cambria.
 Sandra Jane Lyons, Freshman (Applicant), Letters and Science, San Francisco.
 Willie Howard McCook, Freshman (Applicant), Letters and Science, Thermal.
 Witto McCullough, Jr., Freshman (Applicant), Engineering, Los Angeles.
 Orin Lewis McEuen, Freshman (Applicant), Criminology, Big Bear Lake.

* At Davis.

† Fall semester only, 1956.

‡ Spring semester only, 1957.

*** At Hastings College of Law.

**** At Berkeley or Los Angeles.

***** At Berkeley or Santa Barbara.

- **Kathleen Craig McIlwaine, Freshman (Applicant), Applied Arts, Santa Barbara.
Marguerite Helen McIntyre, Freshman (Applicant), Engineering, San Diego.
Diane Louise McNamara, Freshman (Applicant), Letters and Science, Martinez.
- **Betty Jean Manes, Freshman (Applicant), Letters and Science, San Francisco.
‡Louis Albert Manrique, Jr., Freshman (Applicant), Letters and Science, San Francisco.
Donald William Martin, Freshman (Applicant), Letters and Science, Burbank.
- **Theodore Gus Martin, Freshman (Applicant), Letters and Science, Santa Barbara.
Jon Lester Mason, Freshman (Applicant), Chemistry, Fresno.
Farrokh Mehran, Sophomore (Applicant), Letters and Science, Santa Rosa.
- **George LeRoy Meyer, Freshman (Applicant), Letters and Science, Lompoc.
Timothy Alden Miller, Freshman (Applicant), Letters and Science, La Mesa.
- **Dave Wieder Milton, Freshman (Applicant), Letters and Science, Santa Barbara.
Kenneth Neil Minkus, Freshman (Applicant), Engineering, San Francisco.
Marvin Lee Mizis, Freshman (Applicant), Chemistry, San Francisco.
Rodolfo Montejano, Freshman (Applicant), Letters and Science, Santa Ana.
Milton Joseph Morse, Freshman (Applicant), Letters and Science, Richmond.
- *Gaylene Nichols, Freshman (Applicant), Letters and Science, Woodland.
‡Thomas James Nolan, Freshman (Applicant), Engineering, San Francisco.
Marion Lynne Norris, Freshman (Applicant), Letters and Science, Pinole.
Gerald Leroy Olesen, Freshman (Applicant), Engineering, Fortuna.
John Duane O'Neill, Freshman (Applicant), Letters and Science, Avenal.
Janice Mae Orr, Freshman (Applicant), Letters and Science, Yuba City.
- ****Michael Ellis Osborn, Freshman (Applicant), Letters and Science, Porterville.
Ruta Osolins, Freshman (Applicant), Letters and Science, Oakland.
- **Lila Jean Parent, Freshman (Applicant), Letters and Science, Crescent City.
Judith Frances Partnow, Freshman (Applicant), Letters and Science, Los Angeles.
Dorothy Anne Peterson, Freshman (Applicant), Letters and Science, Santa Ana.
- *Mary Jane Phillips, Freshman (Applicant), Letters and Science, Vacaville.
*Clyde Loren Pitts, Sophomore (Applicant), Agriculture, Glendale.
Richard Torres Quiroz, Freshman (Applicant), Letters and Science, Calexico.
Wilhelmina Cristeta Ranjo, Freshman (Applicant), Letters and Science, San Francisco.
Frederick Oscar Raamussen, Freshman (Applicant), Engineering, San Diego.
Renata Ray, Junior (Applicant), Letters and Science, Los Angeles.
Sandra Joyce Read, Freshman (Applicant), Letters and Science, Berkeley.
Ronald Malcolm Reese, Freshman (Applicant), Engineering, Santa Ana.
Alan Gregory Reutter, Freshman (Applicant), Letters and Science, Gustine.
‡Gary Lee Robinson, Freshman (Applicant), Chemistry, San Leandro.
Mary Ann Ramona Rogers, Freshman (Applicant), Letters and Science, Soledad.
- **Floyd Dale Ross, Freshman (Applicant), Letters and Science, Santa Barbara.
*Yvonne Helenna Saasta, Freshman (Applicant), Agriculture, San Francisco.
R Louis Salaber, Freshman (Applicant), Engineering, San Francisco.
Betty Lou Salisbury, Freshman (Applicant), Letters and Science, Dixon.
Barbara Michael Scully, Freshman (Applicant), Letters and Science, Los Angeles.
John Griffith Sherrill, Freshman (Applicant), Letters and Science, Oakland.
Kathleen Grace Shimmin, Freshman (Applicant), Letters and Science, Concord.
Jeanne Hatsue Shiraki, Freshman (Applicant), Letters and Science, Oakland.
Ross Prentice Shoaf, Freshman (Applicant), Engineering, San Francisco.
Alfred Edward Simonsen, Freshman (Applicant), Engineering, San Francisco.
Shirley Lou Skoog, Freshman (Applicant), Letters and Science, Hayward.
Joe Nelson Smith, Jr., Junior (Applicant), Engineering, Newport Beach.
Susan Spencer Smith, Freshman (Applicant), Letters and Science, Berkeley.
Florence Diane Smithson, Freshman (Applicant), Letters and Science, San Joaquin.
Marie Helene Solomon, Freshman (Applicant), Letters and Science, Bakersfield.
John Luverne Stanton, Freshman (Applicant), Letters and Science, Anaheim.
Antonina Stepanoff, Freshman (Applicant), Letters and Science, San Francisco.
*Carol Kay Stevenson, Freshman (Applicant), Letters and Science, Vacaville.
*Richard Phelps Stookey, Freshman (Applicant), Agriculture, Colma.
Bruce Wilson Strauss, Freshman (Applicant), Engineering, Corona.
William Kyi-teh Sung, Freshman (Applicant), Engineering, Berkeley.

* At Davis.

‡ Spring semester only, 1957.

** At Santa Barbara.

**** At Berkeley and Los Angeles.

- Carolyn Anita Swan, Freshman (Applicant), Agriculture, Manhattan Beach.
 Karel Andrew Swanson, Freshman (Applicant), Letters and Science, Modesto.
 Irene Yoshiko Takagawa, Freshman (Applicant), Letters and Science, Alameda.
 Roger Alan Tatum, Freshman (Applicant), Engineering, Shafter.
 Alice Roberta Thie, Freshman (Applicant), Letters and Science, Pasadena.
 Judianne Thomas, Freshman (Applicant), Letters and Science, Oakland.
 Susan Joyce Treadwell, Freshman (Applicant), Letters and Science, Altadena.
 Sunny Colleen Trout, Freshman (Applicant), Letters and Science, Antioch.
 Paula Sayoko Tsukamoto, Freshman (Applicant), Letters and Science, San Francisco.
 Robert Lawrence Uffen, Freshman (Applicant), Letters and Science, Santa Paula.
 Robert Harry Valentine, Junior (Applicant), Chemistry, Modesto.
 Brian Stanley Vargus, Freshman (Applicant), Engineering, Oakland.
 *Shirley Ann Wall, Freshman (Applicant), Letters and Science, Santa Cruz.
 Laurie Anne Wallace, Freshman (Applicant), Letters and Science, Alhambra.
 Francis Joe Weaver, Freshman (Applicant), Letters and Science, Selma.
 Melinda Ann Wells, Freshman (Applicant), Letters and Science, Martinez.
 Ann Katherine Wiegner, Freshman (Applicant), Letters and Science, San Francisco.
 §§Dean Kircher Williams, Freshman (Applicant), Engineering, Ventura.
 †Diane Louise Wilson, Freshman (Applicant), Letters and Science, San Francisco.
 Wes Stephen Wolford, Freshman (Applicant), Engineering, Oakland.
 Frank Wong, Freshman (Applicant), Letters and Science, Hanford.
 Irving David Woolf, Freshman (Applicant), Engineering, San Mateo.
 Joelleann Yager, Freshman (Applicant), Letters and Science, San Carlos.
 Brenda Gail Young, Freshman (Applicant), Letters and Science, Orange.
 †Judith Anne Young, Freshman (Applicant), Agriculture, Albany.
 Lydia Roberta Zupo, Freshman (Applicant), Letters and Science, Lodi.

**ALUMNI HONORARY SCHOLARSHIPS WITHOUT STIPEND FOR
ENTERING STUDENTS**

ESTABLISHED BY THE ALUMNI OF THE UNIVERSITY IN HONOR OF
OUTSTANDING STUDENTS

- Janet Rae Barron, Freshman (Applicant), Letters and Science, Sonora.
 Linda Irene Blower, Freshman (Applicant), Letters and Science, Santa Ana.
 Anne Claire Bowden, Freshman (Applicant), Letters and Science, San Jose.
 Lido Anthony Cantarutti, Freshman (Applicant), Letters and Science, Richmond.
 Carole Lorraine Carkeet, Freshman (Applicant), Letters and Science, Sonora.
 Elizabeth Ann Carlson, Freshman (Applicant), Letters and Science, San Leandro.
 Jack Carmany, Freshman (Applicant), Engineering, Walnut Grove.
 Barry LeMonte Carver, Freshman (Applicant), Letters and Science, Riverside.
 Denise Yvonne Casanave, Freshman (Applicant), Letters and Science, San Francisco.
 Janet Lorraine Chinn, Freshman (Applicant), Letters and Science, Oakland.
 Phyllis Gail Christianson, Freshman (Applicant), Letters and Science, Ojai.
 Susan Edith Clayton, Freshman (Applicant), Letters and Science, Berkeley.
 Larry Martin Crapo, Freshman (Applicant), Chemistry, Porterville.
 *Erin de Vries, Freshman (Applicant), Agriculture, Burlingame.
 Jane Kay Emerson, Freshman (Applicant), Letters and Science, Gilroy.
 Donald Rockwell Emery, Freshman (Applicant), Letters and Science, Salinas.
 Gayle Cecile Fry, Freshman (Applicant), Letters and Science, Mt. Eden.
 *Kathleen Ann Habelt, Freshman (Applicant), Agriculture, Oakland.
 Catherine Florence Hardison, Freshman (Applicant), Letters and Science, Ojai.
 Noel Albert Helmbrecht, Freshman (Applicant), Letters and Science, Morgan Hill.
 Lloyd Douglas Henderson, Freshman (Applicant), Letters and Science, Berkeley.
 †Ellen Marie Henry, Freshman (Applicant), Letters and Science, Albany.
 Peter Folger Herb, Freshman (Applicant), Engineering, Berkeley.
 Gary Donovan Hermes, Freshman (Applicant), Letters and Science, Napa.
 Andrea Herzberg, Freshman (Applicant), Letters and Science, Woodland Hills.
 Hiromi Lorraine Kato, Freshman (Applicant), Letters and Science, Walnut Grove.
 Judith Irene King, Freshman (Applicant), Letters and Science, San Mateo.
 Judith Sylvia Lane, Freshman (Applicant), Letters and Science, San Leandro.
 Herbert Henry Lang, Freshman (Applicant), Letters and Science, El Cerrito.

* At Davis.

† Spring semester only, 1957.

§§ At Los Angeles.

- Kathryn Ann McLeod, Freshman (Applicant), Letters and Science, El Cerrito.
 • Barbara Knoll Madson, Freshman (Applicant), Letters and Science, San Jose.
 Maria Clemens Manetta, Freshman (Applicant), Letters and Science, Altadena.
 Sybil Anne Markus, Freshman (Applicant), Letters and Science, Salinas.
 Susan Anne Meadows, Freshman (Applicant), Letters and Science, Madera.
 Judith Ann Miner, Freshman (Applicant), Letters and Science, Orinda.
 † Mary Ann Mitchell, Freshman (Applicant), Letters and Science, San Leandro.
 Paul Suren Mosesian, Freshman (Applicant), Letters and Science, Fresno.
 Richard Anthony Olness, Freshman (Applicant), Letters and Science, Walnut Creek.
 Leonard Martin Patterson, Freshman (Applicant), Letters and Science, Berkeley.
 Robert Alan Patton, Freshman (Applicant), Chemistry, Salinas.
 Robert Edwin Pendley, Freshman (Applicant), Letters and Science, Santa Clara.
 Edward Carr Ruff, Freshman (Applicant), Engineering, Concord.
 Stephen Wallace Rutherford, Freshman (Applicant), Engineering, Napa.
 Lynn Anderson Shufelt, Freshman (Applicant), Letters and Science, San Jose.
 † Sandra Gale Shumate, Freshman (Applicant), Letters and Science, San Francisco.
 Patricia Ann Stadel, Freshman (Applicant), Engineering, San Diego.
 Dennis Roy Starleaf, Freshman (Applicant), Letters and Science, Santa Ana.
 * Barbara Kay Stephenson, Freshman (Applicant), Letters and Science, Vacaville.
 Michael Osborne Stewart, Freshman (Applicant), Letters and Science, Berkeley.
 Claire Elizabeth Sutton, Freshman (Applicant), Letters and Science, El Cerrito.
 Lynne Mary Swain, Freshman (Applicant), Letters and Science, Riverside.
 † Joyce Setsuko Takefuji, Freshman (Applicant), Letters and Science, Berkeley.
 Donal Diepen Thomas, Freshman (Applicant), Chemistry, Morgan Hill.
 Thomas Richard Thurmond, Freshman (Applicant), Engineering, Berkeley.
 † Terry Louise Trosper, Freshman (Applicant), Letters and Science, San Francisco.
 Anthony Alexander Turpin, Freshman (Applicant), Letters and Science, South Pasadena.
 Ronald Ranoru Uyeyama, Freshman (Applicant), Letters and Science, Berkeley.
 Raymond Angelo Verzasconi, Freshman (Applicant), Letters and Science, Gonzales.
 Jane Emilie Wallace, Freshman (Applicant), Agriculture, Riverside.
 Lilla Lou Witharm, Freshman (Applicant), Letters and Science, San Leandro.
 Larry William Woodruff, Freshman (Applicant), Engineering, Hayward.
 †† Raymond Louis Zouhar, Freshman (Applicant), Letters and Science, El Centro.

AMERICAN FOUNDATION FOR PHARMACEUTICAL
EDUCATION SCHOLARSHIP

GIVEN BY THE AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION
Appointment deferred.

AMERICAN SMELTING AND REFINING COMPANY SCHOLARSHIP

GIVEN BY THE AMERICAN SMELTING AND REFINING COMPANY
Donald Harford Gray, Junior, Engineering, Berkeley.

AMERICAN SOCIETY FOR METALS FOUNDATION FOR EDUCATION
AND RESEARCH SCHOLARSHIP

GIVEN BY THE AMERICAN SOCIETY FOR METALS FOUNDATION FOR
EDUCATION AND RESEARCH
Daniel Green, Sophomore, Engineering, San Francisco.

AMERICAN SOCIETY OF WOMEN ACCOUNTANTS SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO CHAPTER OF THE
AMERICAN SOCIETY OF WOMEN ACCOUNTANTS
Phyllis Rae Gillogly, Senior, Business Administration, Woodland.
† Elizabeth Anne Park, Senior, Business Administration, Alameda.

DALE D. AMES SCHOLARSHIP

GIVEN BY DALE D. AMES FOR PHARMACY STUDENTS
Appointment deferred.

* At Davis.

† Fall semester only, 1956.

‡ Spring semester only, 1957.

†† At Riverside.

Undergraduate Scholarships

WILLIAM CLARE ANDERSON SCHOLARSHIP
ESTABLISHED BY THE WILL OF MRS. SUSIE E. ANDERSON
IN MEMORY OF HER HUSBAND

Appointment deferred.

ARTHUR ARLETT MEMORIAL SCHOLARSHIPS
ESTABLISHED BY FRIENDS OF THE LATE ARTHUR ARLETT
 Dorothy Eleanor Bliss, Senior, Letters and Science, Berkeley.

ASSOCIATED DENTAL STUDENTS' SCHOLARSHIP
ESTABLISHED BY THE ASSOCIATED DENTAL STUDENTS
 *Earl Lee Hummell, Senior, Dentistry, Vallejo.
 *Betty A York, Senior, Dentistry, San Francisco.

ASSOCIATION OF PHARMACISTS' WIVES OF SAN FRANCISCO
SCHOLARSHIP
GIVEN BY THE ASSOCIATION OF PHARMACISTS' WIVES OF SAN FRANCISCO
 Appointment deferred.

BARNES-HIND SCHOLARSHIP
GIVEN BY BARNES-HIND LABORATORIES
 Appointment deferred.

DAVID P. BARROWS SCHOLARSHIP
ESTABLISHED BY THE RELATIVES AND FRIENDS OF THE LATE
PROFESSOR DAVID P. BARROWS
 Harry George Harris, Senior, Letters and Science, Hanford.
 Karen Denyse Johnson, Senior, Letters and Science, Berkeley.
 Laurence Edwin Lynn, Jr., Sophomore, Letters and Science, Montrose.

BEAR PHOTO SERVICE SCHOLARSHIP IN PHARMACY
MAINTAINED BY THE BEAR PHOTO SERVICE
 Appointment deferred.

BECHTEL CORPORATION SCHOLARSHIPS
ESTABLISHED BY THE BECHTEL CORPORATION FOR STUDENTS IN ENGINEERING
 James Claus Jordan, Senior, Engineering, Richmond.
 James Lionel Tocher, Senior, Engineering, Dos Palos.
 John Charles Wiesner, Junior, Engineering, Daly City.

EMMA HAYES BENEDICT-LIDA A. HAYES SCHOLARSHIP
ESTABLISHED BY THE WILL OF LIDA A. HAYES
 †Thomas Brian Donovan, Senior, Letters and Science, San Jose.
 James Francis Luini, Senior, Engineering, Oakland.

BERKELEY PIANO CLUB SCHOLARSHIP
GIVEN BY THE BERKELEY PIANO CLUB
 Appointment deferred.

BETA SIGMA PHI SCHOLARSHIP
GIVEN BY THE NORTHERN CALIFORNIA AREA COUNCIL OF THE
BETA SIGMA PHI SORORITY
 †Rella June Berk, Senior, Letters and Science, El Monte.

JOHN TREADWELL BIXBY SCHOLARSHIPS
ESTABLISHED BY MRS. FRED H. BIXBY IN MEMORY OF HER SON
 Barrie David Engel, Sophomore, Chemistry, Culver City.
 John Philip Fidler, Sophomore, Letters and Science, San Francisco.
 Joseph Adam Schwartz, Sophomore, Letters and Science, Los Angeles.

† Fall semester only, 1956.

* At San Francisco.

JOSEPH BONNHEIM MEMORIAL SCHOLARSHIPS

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM OF SACRAMENTO

Anne Elizabeth Baldwin, Junior, Letters and Science, Fresno.
*William Norman Bigler, Sophomore, Letters and Science, San Leandro.
Jack Kenneth Crandall, Sophomore, Chemistry, Piru.
Marvin Barron Ellenberg, Junior, Letters and Science, Stockton.
Everd Alfred McCain, Sophomore, Architecture, Big Pine.
Adele Catherine Perry, Sophomore, Letters and Science, Richmond.
Bridget Ann Read, Sophomore, Letters and Science, Long Beach.
Phyllis Mae Read, Sophomore, Letters and Science, El Cerrito.
Ronald Boyd Robie, Junior, Letters and Science, Oakland.
Richard James Venti, Sophomore, Letters and Science, Richmond.
Warren Hamilton Widener, Freshman (Applicant), Letters and Science, Oroville.

EDWARD BOOTH LOAN SCHOLARSHIPS

ESTABLISHED BY MRS. ROBINA M. BOOTH

Vigfus Anthony Asmundson, Junior, Letters and Science, Davis.
Richard Charles De Bold, Senior, Letters and Science, Oroville.
Clifford Gee, Junior, Letters and Science, San Francisco.

FRANK H. BOREN UNIVERSITY HIGH SCHOOL SCHOLARSHIPS

**ESTABLISHED BY THE FACULTY AND ALUMNI OF UNIVERSITY HIGH SCHOOL
OAKLAND, IN MEMORY OF FRANK H. BOREN**

Michelle Ann Liapes, Freshman (Applicant), Letters and Science, Mill Valley.

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**

Phillip Oyung, Freshman (Applicant), Letters and Science, Grass Valley.

F. W. BRADLEY LOAN SCHOLARSHIPS

ESTABLISHED BY THE LATE F. W. BRADLEY FOR STUDENTS IN MINING

Appointment deferred.

BRUNSWIG DRUG COMPANY SCHOLARSHIP

GIVEN BY THE COFFIN-REDINGTON COMPANY FOR STUDENTS IN PHARMACY

Appointment deferred.

JAMES WILLIAM BYRNE SCHOLARSHIPS

ESTABLISHED BY THE WILL OF JAMES WILLIAM BYRNE, OF THE CLASS OF 1879

Darlene Ellen Del Nero, Freshman (Applicant), Letters and Science, Patterson.
Joan Caroline MacNider, Sophomore, Letters and Science, San Andreas.
Marcia Nadine Savin, Senior, Letters and Science, San Francisco.

EDWARD G. CAHILL SCHOLARSHIP IN ENGINEERING

GIVEN BY EDWARD G. CAHILL

Robert Blaine Marusich, Junior, Engineering, San Pedro.

CALIFORNIA ASSOCIATION OF NURSERYMEN SCHOLARSHIP

GIVEN BY THE CALIFORNIA ASSOCIATION OF NURSERYMEN

*Janet Hill Muller, Sophomore, Agriculture, Davis.

STATE OF CALIFORNIA SCHOLARSHIPS

**FOUNDED BY THE REGENTS OF THE UNIVERSITY OUT OF THE
INCOME OF THE UNIVERSITY**

David Starr Adamson, Freshman (Applicant), Engineering, El Segundo.
Marsha Louise Austin, Sophomore (Applicant), Letters and Science, Sacramento.
David Josef Baar, Junior (Applicant), Letters and Science, San Francisco.
Larry Lee Bagwell, Freshman (Applicant), Letters and Science, Long Beach.
Evelyn Florence Baron, Freshman (Applicant), Letters and Science, Glendale.

* At Davis.

- Barbara Marilyn Blumberg, Junior (Applicant), Letters and Science, Hollywood.
 Tanya Bogoslovski, Freshman (Applicant), Letters and Science, San Francisco.
 *Edmund A Brautigam, Sophomore, Dentistry, San Francisco.
 Richard Ward Burris, Freshman (Applicant), Letters and Science, Oakland.
 Delano Pun Chong, Junior (Applicant), Chemistry, San Francisco.
 Patricia Josephine Clayton, Freshman (Applicant), Letters and Science, Ceres.
 Lauralee Colyer, Freshman (Applicant), Letters and Science, Soledad.
 Jean Louise Cottrell, Junior (Applicant), Letters and Science, Anaheim.
 Alfred Carl Dossa, Freshman (Applicant), Letters and Science, Sonora.
 Wannie Paul Foster, Freshman (Applicant), Engineering, Aromas.
 Marmarie Alice Garrigus, Junior (Applicant), Letters and Science, Reedley.
 Judith Arlene Gray, Freshman (Applicant), Letters and Science, San Francisco.
 Antone Paolo Grieco, Freshman, Engineering, Oroville.
 Jo Anne Haight, Junior (Applicant), Letters and Science, San Francisco.
 Donald Wayne Hall, Freshman (Applicant), Letters and Science, Pasadena.
 Judith Mae Hanson, Freshman (Applicant), Letters and Science, Whittier.
 Esther Herrera, Freshman (Applicant), Letters and Science, Pittsburg.
 Bobby Gene Horner, Freshman (Applicant), Letters and Science, Dos Palos.
 Marcia Cameron Johnson, Junior (Applicant), Letters and Science, Stockton.
 Gary Seiji Kataoka, Freshman (Applicant), Letters and Science, Brentwood.
 James Alan Kinkella, Freshman (Applicant), Letters and Science, Oakland.
 Mae Hisako Kosobayashi, Junior (Applicant), Letters and Science, Pasadena.
 Katherine Yohko Kurotori, Freshman (Applicant), Letters and Science, Concord.
 John Arthur Kusske, Freshman (Applicant), Letters and Science, Rialto.
 *Carleen Betty Leiss, Freshman (Applicant), Agriculture, Petaluma.
 Jack Loscutoff, Sophomore (Applicant), Letters and Science, San Francisco.
 *Carmen Alicia Loveless, Freshman (Applicant), Letters and Science, Corning.
 Frances Rebecca McDonald, Freshman (Applicant), Letters and Science, Sonora.
 Roy Jene Millender, Freshman (Applicant), Engineering, San Diego.
 Linda Ann Miller, Freshman (Applicant), Letters and Science, Salinas.
 Ian Irving Mitroff, Freshman (Applicant), Engineering, San Mateo.
 Betty Ann Muehlenbruch, Freshman (Applicant), Letters and Science, Terra Bella.
 Alfred Hirotohi Nishikawa, Freshman (Applicant), Chemistry, Gilroy.
 Rasma Ingrida Opsis, Freshman (Applicant), Letters and Science, Los Gatos.
 Darryl Anne Park, Freshman (Applicant), Letters and Science, Escondido.
 *Paul Francis Peppard, Sophomore, Dentistry, Los Angeles.
 Walter E Reynolds, Junior (Applicant), Engineering, Carmel.
 Ida Sue Rheinecker, Freshman (Applicant), Letters and Science, Upland.
 Thomas Patrick Ruth, Junior (Applicant), Letters and Science, Visalia.
 Katsumi Barbara Sasashima, Freshman (Applicant), Letters and Science, Sanger.
 *Terri Ann Sawyer, Freshman (Applicant), Agriculture, Merced.
 Ronald George Scates, Freshman (Applicant), Engineering, Camanche.
 Mary Mildred Snipes, Junior (Applicant), Letters and Science, Long Beach.
 Marianne Solari, Freshman (Applicant), Letters and Science, Carpinteria.
 Marilyn Jo Spandau, Freshman (Applicant), Letters and Science, Danville.
 Florabelle Ruth Stewart, Freshman (Applicant), Letters and Science, San Rafael.
 Dale Everett Thompson, Freshman (Applicant), Chemistry, Lindsay.
 Billy Erwin Udell, Freshman (Applicant), Engineering, Ceres.
 Patricia Helen Wilson, Freshman (Applicant), Letters and Science, Needles.
 Ronald Chew Wong, Freshman (Applicant), Engineering, Stockton.
 Philip Marvin Yager, Freshman (Applicant), Letters and Science, North Palm Springs.

GAIL H. CALMERTON SCHOLARSHIPS

ESTABLISHED BY THE CALMERTON EDUCATIONAL FOUNDATION

- Carolyn Roberta Garlich, Junior, Letters and Science, Oakland.
 †Jacqueline Grey, Senior, Letters and Science, Menlo Park.
 †Jean Barbara Kaepfel, Senior, Letters and Science, Berkeley.
 Sharon Lee LeDoux, Junior, Letters and Science, Oakland.
 Priscilla Hill Palmer, Senior, Letters and Science, San Diego.

* At Davis.

† Fall semester only, 1956.

* At San Francisco.

HENRY BENJAMIN CAREY SCHOLARSHIPS
GIVEN BY THE CUTTER LABORATORIES IN MEMORY OF THE
LATE ACTING DEAN OF THE COLLEGE OF PHARMACY

Appointment deferred.

THOMAS WILLIAM CARLSON MEMORIAL SCHOLARSHIPS

ESTABLISHED BY THE PARENTS OF THOMAS WILLIAM CARLSON,
KILLED IN ACTION ON LEYTE, NOVEMBER 18, 1944

David Lowell Tranter, Freshman (Applicant), Letters and Science, Long Beach.

JESSE D. CARR SCHOLARSHIPS

ESTABLISHED FROM THE ESTATE OF JESSIE CARR SEALE
IN MEMORY OF HER FATHER, JESSE D. CARR

- *Sondra Faye Clearwaters, Freshman (Applicant), Agriculture, Pasadena.
- Evelyn M Flynn, Junior, Agriculture, Berkeley.
- *Valerie Anne Schwindt, Freshman (Applicant), Agriculture, Novato.
- *Anita Marie Tackley, Freshman (Applicant), Agriculture, San Pablo.

LOUIS AND EMMA CAVALIER SCHOLARSHIPS

ESTABLISHED BY THE WILL OF WILLIAM CAVALIER

Gerard Francis Brewer, Senior, Letters and Science, Berkeley.
Serge Nicholaievich Fedoroff, Senior, Engineering, San Francisco.
Robert Donald Mackler, Junior, Letters and Science, Richmond.

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

Eunice Mara Cherry, Senior, Letters and Science, Larkspur.
Sherman Gee, Sophomore, Letters and Science, Berkeley.
‡Richard Floyd Kelso, Junior, Engineering, Berkeley.
Charles Richard Krahmalkov, Senior, Letters and Science, Hollywood.

GABRIELLE CHARLEBOIS SCHOLARSHIP

ESTABLISHED BY A BEQUEST OF MISS GABRIELLE CHARLEBOIS

Not to be offered to undergraduates, 1956-1957.

CHI OMEGA MOTHERS' CLUB SCHOLARSHIP

PROVIDED BY THE CHI OMEGA MOTHERS' CLUB

Not to be offered, 1956-1957.

CHI PSI FRATERNITY SCHOLARSHIP

PROVIDED BY THE CHI PSI EDUCATIONAL TRUST OF THE CHI PSI FRATERNITY

Appointment deferred.

CLASS OF 1895 SCHOLARSHIP

ESTABLISHED BY THE CLASS OF 1895

Patricia Ann Tudisco, Junior, Letters and Science, East Oakland.

CLASS OF 1896 SCHOLARSHIPS

ESTABLISHED BY THE WILL OF CLARENCE H. NORWOOD OF THE CLASS OF 1896
AND AUGMENTED BY OTHER MEMBERS OF THE CLASS

Cyril W Gonick, Senior, Letters and Science, Winnipeg, Canada.
Owen Walker Hatcher, Jr., Senior, Letters and Science, Kerman.

CLASS OF 1897 SCHOLARSHIP

ESTABLISHED BY THE CLASS OF 1897

Not to be offered, 1956-1957.

* At Davis.

‡ Spring semester only, 1957.

*Undergraduate Scholarships***CLASS OF 1898 SCHOLARSHIP**

ESTABLISHED BY THE CLASS OF 1898

Glenn Charles Bacon, Senior, Engineering, Sacramento.
 Frank Benjamin Micklewright, Junior, Letters and Science, Berkeley.

CLASS OF 1902 FIFTIETH ANNIVERSARY SCHOLARSHIP

GIVEN BY THE CLASS OF 1902

Judith Lee Abramson, Sophomore, Letters and Science, Yuba City.

CLASS OF 1906 SCHOLARSHIPS

ESTABLISHED BY THE CLASS OF 1906

Walter Bauer, Junior, Letters and Science, Los Angeles.
 †Ki Suh Park, Senior, Architecture, Seoul, Korea.

CAROLINE J. CLOW SCHOLARSHIPS

ESTABLISHED BY A BEQUEST OF THE LATE ELIZABETH W. CLOW

*Barry Darrel Ogden, Second Year, Pharmacy, Watsonville.

JAMES W. COFFROTH SCHOLARSHIPS

ESTABLISHED UNDER THE WILL OF THE LATE JAMES W. COFFROTH

Floyd Leslie Brooks, Jr., Senior, Chemistry, Salinas.
 Roberta Fay Butom, Senior, Letters and Science, Alameda.
 Donna Jean Hennessey, Senior, Letters and Science, Berkeley.
 Phillip Geoffrey Keppel, Senior, Letters and Science, Albany.
 Timothy Kaori Kitao, Senior, Architecture, Kamakura, Japan.
 Betty Chiyoko Nomura, Senior, Letters and Science, El Cerrito.
 Henry Ferdinand Rugge, Junior, Letters and Science, South San Francisco.
 Helen Svoboda, Senior, Letters and Science, Oakland.
 †Joanrae Zimmerman, Senior, Letters and Science, San Francisco.

P. CHARLES COLE SCHOLARSHIP

ESTABLISHED BY A BEQUEST OF THE LATE P. CHARLES COLE

Bruce Andre Keppel, Junior, Letters and Science, Albany.

COLLEGE WOMEN'S CLUB OF BERKELEY SCHOLARSHIP

ESTABLISHED IN 1921, BY A GIFT FROM THE COLLEGE WOMEN'S CLUB OF BERKELEY

Jean Elizabeth Kirkendall, Junior, Letters and Science, San Francisco.

CONSOLIDATED VULTEE AIRCRAFT CORPORATION SCHOLARSHIP

GIVEN BY CONSOLIDATED VULTEE AIRCRAFT CORPORATION
 FOR EMPLOYEES OF THAT CORPORATION

Appointment deferred.

JOHN AND MAY ALICE COOPER SCHOLARSHIP

ESTABLISHED BY THE WILL OF SALLIE FRANCES DE VINE

Doris Joan Whipperman, Sophomore, Letters and Science, Compton.

WIGGINTON E. CREED MEMORIAL SCHOLARSHIPS

FOUNDED BY MRS. WIGGINTON E. CREED

Elizabeth Gordon, Junior, Letters and Science, San Mateo.
 William Edward Kennaugh, Sophomore, Letters and Science, San Francisco.
 Weyman Lew, Senior, Business Administration, San Francisco.

CROWN ZELLERBACH FOUNDATION SCHOLARSHIPS

GIVEN BY CROWN ZELLERBACH FOUNDATION

Norma Marian Otis, Junior, Letters and Science, Sacramento.
 Calvin Dale Wood, Senior, Letters and Science, Berkeley.

† Fall semester only, 1956.

* At San Francisco.

DR. BETTY DAVIS SCHOLARSHIP

ESTABLISHED BY THE SCHOOL OF NURSING CHAPTER OF THE CALIFORNIA ALUMNI ASSOCIATION FOR STUDENTS IN NURSING AT SAN FRANCISCO

Appointment deferred.

MRS. EMMA S. DAVIS SCHOLARSHIP

ESTABLISHED BY THE BEQUEST OF MRS. EMMA S. DAVIS

Siv Larson, Sophomore, Letters and Science, Turlock.

WILLIAM R. DAVIS SCHOLARSHIP

FOUNDED BY THE LATE WILLIAM R. DAVIS

Howard Wallace Brown, III, Sophomore, Letters and Science, Monterey.
Robert Donald Connor, Sophomore, Letters and Science, Berkeley.

DELTA PHI EPSILON SCHOLARSHIP

GIVEN BY THE DELTA PHI EPSILON ALUMNAE

Appointment deferred.

JAMES DENMAN SCHOLARSHIPS

ESTABLISHED BY THE LATE JAMES DENMAN

Not to be offered, 1956-1957.

JOHN DE PRANGHER-GENERAL ELECTRIC COMPANY SCHOLARSHIP

GIVEN BY JOHN DE PRANGHER AND THE GENERAL ELECTRIC COMPANY UNDER THE CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP PROGRAM

Appointment deferred.

HARRY STUART AND ALICE URQUHART DERBY SCHOLARSHIPS

ESTABLISHED BY THE WILL OF ALICE U. DERBY, A RESIDENT OF SANTA CLARA COUNTY

Not to be offered to undergraduates, 1956-1957.

DANIEL W. DINEEN SCHOLARSHIP

ESTABLISHED BY THE WILL OF EMALINE MCCONATHY

Larry James Larson, Junior, Agriculture, Oakland.

† Dennis Robert Porter, Freshman (Applicant), Agriculture, Fontana.

ELIZABETH DINEEN SCHOLARSHIP

ESTABLISHED BY THE WILL OF EMALINE MCCONATHY

Richard Frederick Knobel, Senior, Letters and Science, Lafayette.

DISTRICT 3, CALIFORNIA BEET GROWERS ASSOCIATION SCHOLARSHIPS

GIVEN BY THE DISTRICT 3, CALIFORNIA BEET GROWERS ASSOCIATION

* Joan Rae Clark, Sophomore, Agriculture, Zamora.

* Robert Carl Kelly, Freshman (Applicant), Agriculture, Rio Vista.

* Sharon Lynn Osmun, Freshman (Applicant), Agriculture, North Sacramento.

* Mirielle Ann Power, Freshman (Applicant), Letters and Science, Vacaville.

* Bonnie Berta Thiers, Freshman (Applicant), Agriculture, Woodland.

BERTHA DOLBEER SCHOLARSHIP

FOUNDED BY MISS E. MARION WARREN OF SAN FRANCISCO

Barbara Janice Fuller, Junior, Letters and Science, San Diego.

JOHN DOLBEER SCHOLARSHIPS

FOUNDED BY MISS E. MARION WARREN OF SAN FRANCISCO

Elmer Louie Moretto, Senior, Business Administration, Stockton.

* At Davis.

† Fall semester only, 1956.

*Undergraduate Scholarships***RUTH NORTON DONNELLY SCHOLARSHIP**

GIVEN BY THE WOMEN'S DORMITORY ASSOCIATION OF THE
BERKELEY CAMPUS OF THE UNIVERSITY

Dolores Schectman Van Loucks, Junior, Letters and Science, Berkeley.

DOUGLAS AIRCRAFT COMPANY SCHOLARSHIP

FOUNDED BY DONALD W. DOUGLAS, PRESIDENT OF THE DOUGLAS AIRCRAFT COMPANY

Peter Tompkins Lyman, Senior, Engineering, Berkeley.

GEORGE A. DOUGLASS SCHOLARSHIPS

PROVIDED BY THE WILL OF THE LATE GEORGE A. DOUGLASS

Kent Morris Dallett, Junior, Letters and Science, Berkeley.

Luther Shelton Distler, Senior, Letters and Science, Elk Creek.

Michael John Henry, Senior, Letters and Science, Newport Beach.

William Royce Holley, Senior, Letters and Science, Exeter.

Andre Lubarsky, Sophomore, Engineering, San Francisco.

Princeton Nathan Lyman, Senior, Letters and Science, San Francisco.

Peter Hamilton Raven, Senior, Letters and Science, San Francisco.

William Friedrich Tamerlane, Junior, Letters and Science, Mill Valley.

James Herman Thompson, Junior, Chemistry, Salinas.

Alan Conrad Ziegler, Senior, Letters and Science, Berkeley.

HELEN JAY DUBOIS SCHOLARSHIP

FOUNDED BY THE WILL OF MISS HELEN JAY DUBOIS

Not to be offered, 1956-1957.

CHARLES MALLORY DUTTON SCHOLARSHIP

ESTABLISHED IN MEMORY OF CHARLES MALLORY DUTTON BY HIS FRIENDS FOR THE
BENEFIT OF STUDENTS IN THE DEPARTMENT OF MUSIC

Not to be offered to undergraduates, 1956-1957.

GEORGE SEXTON EDWARDS SCHOLARSHIP

ESTABLISHED BY THE WILL OF GEORGE SEXTON EDWARDS, OF THE CLASS OF 1879

Atsuo Miyamoto, Junior (Applicant), Engineering, Cupertino.

JOHN S. EDWARDS SCHOLARSHIP

ESTABLISHED BY THE WILL OF JOHN S. EDWARDS

Appointment deferred.

SIDNEY HELLMAN EHRMAN SCHOLARSHIPS

ESTABLISHED FROM FUNDS BEQUEATHED UNDER THE WILL OF FREDRICKA EHRMAN
IN MEMORY OF REGENT SIDNEY M. EHRMAN'S SON, SIDNEY HELLMAN EHRMAN

Henry Dolphers Lancaster, Senior, Engineering, Le Grand.

David Belden Wood, Senior, Letters and Science, Sunnymead.

SIDNEY M. EHRMAN SCHOLARSHIPS

FOUNDED BY MR. AND MRS. BERTHOLD GUGGENHIME

IN HONOR OF REGENT SIDNEY M. EHRMAN

David Lawrence Allara, Sophomore, Chemistry, Vallejo.

Robert Andrew Fajardo, Senior, Letters and Science, San Francisco.

Robert Earl Gray, Senior, Architecture, Alameda.

MEYER ELSASSER SCHOLARSHIPS

ESTABLISHED BY CHARLOTTE CERF ELSASSER IN MEMORY OF HER HUSBAND

John Ronald Bean, Junior, Letters and Science, San Bernardino.

James Bolton Lemert, Senior, Letters and Science, Chico.

FRED T. ELSEY SCHOLARSHIP

FOUNDED BY THE LATE REGENT GARRET W. MCENERNEY IN HONOR
OF THE LATE FRED T. ELSEY

Hugo Robert Ruggie, Senior, Letters and Science, South San Francisco.

EPSILON PHI SIGMA MEMORIAL SCHOLARSHIP

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

Thomas George Ganiats, Senior, Letters and Science, San Francisco.
George Gregory Lendaris, Senior, Engineering, San Francisco.

MILTON H. ESBERG SCHOLARSHIP

ESTABLISHED BY FRIENDS AND RELATIVES OF THE LATE MILTON ESBERG
James Lewis Lawson, Senior, Optometry, Berkeley.

BERNARD A. ETCHEVERRY MEMORIAL SCHOLARSHIPS

GIVEN BY FRIENDS AND RELATIVES IN MEMORY OF THE
LATE PROF. BERNARD A. ETCHEVERRY

†Irene Karmilof, Junior, Engineering, San Francisco.
Ursula Stanislaw Kobierecka, Sophomore, Engineering, Oakland.

FARM HOME DEPARTMENT HOME ECONOMICS SCHOLARSHIP

GIVEN BY THE FARM HOME DEPARTMENT OF THE CALIFORNIA
FARM BUREAU FEDERATION

*Joann Sara Lee, Sophomore, Agriculture, Grass Valley.

RICHARD D. AND KATE FAULKNER SCHOLARSHIP

ESTABLISHED BY THE WILL OF RICHARD D. FAULKNER

Not to be offered at Berkeley, 1956-1957.

MINNIE FEICHEIMER MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE TRUSTEES OF THE MINNIE FEICHEIMER MEMORIAL FUND
Appointment deferred.

FEMINEERS SCHOLARSHIPS

GIVEN BY THE FEMINEERS, A SAN FRANCISCO ORGANIZATION WHOSE MEMBERSHIP
IS MADE UP OF WIVES OF CIVIL AND STRUCTURAL ENGINEERS

William James See, Senior, Engineering, Turlock.

BELLA G. FLEISHHACKER SCHOLARSHIPS

ESTABLISHED BY MRS. BELLA G. FLEISHHACKER IN HONOR
OF HER HUSBAND, MR. MORTIMER FLEISHHACKER

Michael Robert Geysler, Sophomore, Letters and Science, North Hollywood.
Aaron Iwao Murai, Senior, Engineering, Menlo Park.

FOUNDRY EDUCATIONAL FOUNDATION SCHOLARSHIP

GIVEN BY THE FOUNDRY EDUCATIONAL FOUNDATION

Dan Bloom, Senior, Engineering, Oakland.
George Eugene Bodway, Junior (Applicant), Engineering, Martinez.
Earle Orvest Brown, Jr., Senior, Engineering, Stockton.
Douglas Phillip Hines, Senior, Engineering, Albany.
Eugene Lee Kuykendall, Junior (Applicant), Engineering, Riverside.
Robert Simi Lyss, Senior, Engineering, Auburn.

ALLEN G. FREEMAN SCHOLARSHIPS

ESTABLISHED UNDER THE WILL OF THE LATE JESSIE K. FREEMAN

Ernest Joe Der, Junior, Engineering, Los Angeles.
Man Bok Kim, Junior, Letters and Science, Taegu, Korea.

C. S. FRICK-GENERAL ELECTRIC COMPANY SCHOLARSHIP

GIVEN BY MR. C. S. FRICK AND THE GENERAL ELECTRIC COMPANY
UNDER THE CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP PROGRAM

Appointment deferred.

* At Davis.

† Fall semester only, 1956.

*Undergraduate Scholarships***GAMMA PHI BETA SCHOLARSHIP**

ESTABLISHED BY THE SAN FRANCISCO ALUMNAE CHAPTER OF GAMMA PHI BETA
AND ETA CHAPTER OF THE UNIVERSITY OF CALIFORNIA

†Nancy Malvina Reynolds, Senior, Letters and Science, Berkeley.

EVELYN D. GARDNER MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF MARY GARDNER IN MEMORY OF HER SISTER,
EVELYN D. GARDNER

Appointment deferred.

MYRTLE TRATTNER GARFIELD MEMORIAL SCHOLARSHIP

GIVEN BY SIDNEY GARFIELD IN MEMORY OF MYRTLE TRATTNER GARFIELD

Appointment deferred.

GERMAN-AMERICAN SCHOLARSHIP

GIVEN BY THE BAYERN BUND AND THE SCHWABEN
VEREIN OF SAN FRANCISCO

Appointment deferred.

CHARLES B. GLEASON SCHOLARSHIP

ESTABLISHED BY THE SCHOLARSHIP COMMITTEE OF SAN JOSE HIGH SCHOOL FOR
GRADUATES OF THE SAN JOSE HIGH SCHOOL

Ellen Jamison, Freshman (Applicant), Letters and Science, San Jose.

**GOLDEN GATE CHAPTER OF THE AMERICAN SOCIETY FOR
METALS SCHOLARSHIP**

GIVEN BY THE GOLDEN GATE CHAPTER OF THE AMERICAN SOCIETY FOR METALS

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

Appointment deferred.

LOUISA GREENEWALD SCHOLARSHIP

FOUNDED BY THE LATE OTTO HENRY GREENEWALD OF SAN FRANCISCO FOR THE
BENEFIT OF RESIDENTS OF THE CITY AND COUNTY OF SAN FRANCISCO

Sherna Joyce Steinberg, Junior, 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

Michael James Miller, Junior, Letters and Science, San Francisco.

Vladimir Nicholas Pleshakov, 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

Philip Duval Berlin, Senior, Letters and Science, San Francisco.

Carolyn Cahill, Junior, Letters and Science, Oakland.

Thomas Edward Frey, Junior, Letters and Science, Oxnard.

Carole Mildred Henrikson, Junior, Letters and Science, Oakland.

Patricia Ann Lynch, Junior, Letters and Science, Albany.

Carole Toshi Oishi, Junior, Letters and Science, Oakland.

Gordon Frederick Tully, Senior, Architecture, Alhambra.

WALTER A. HAAS SCHOLARSHIP

ESTABLISHED BY MRS. WALTER A. HAAS AND MEMBERS OF HER FAMILY

Jean Clennell Cooke, Junior, Letters and Science, Los Angeles.

† Fall semester only. 1956.

HAMERSLAG SCHOLARSHIP

ESTABLISHED FROM THE ESTATE OF A. HAMERSLAG

Not to be offered, 1956-1957.

HAYWARD UNION HIGH SCHOOL DISTRICT SCHOLARSHIP

GIVEN ANONYMOUSLY FOR A STUDENT FROM THE HAYWARD AREA

Sylvia Reberigo, Freshman (Applicant), Letters and Science, Hayward.

PHOEBE A. HEARST SCHOLARSHIPS

FOUNDED BY THE LATE REGENT PHOEBE A. HEARST

Ida Jeannette Alter, Junior, Letters and Science, Santa Maria.
Judith Drewanne Altermatt, Sophomore, Letters and Science, Berkeley.
Gay Leah Fisher, Junior, Letters and Science, Las Vegas, Nevada.
Marilee Ann Flood, Junior, Agriculture, Berkeley.
Angela Green, Junior, Letters and Science, San Francisco.
Joyce Marie Hrusoff, Junior, Letters and Science, Oakland.
Adele Landis, Sophomore, Letters and Science, Berkeley.
Marjorie Ann Lindsay, Sophomore, Letters and Science, Berkeley.
Evangeline Shirley Lorimor, Sophomore, Letters and Science, San Francisco.

EMANUEL S. HELLER MEMORIAL SCHOLARSHIP

**ESTABLISHED BY REGENT AND MRS. SIDNEY M. EHRMAN
IN HONOR OF EMANUEL S. HELLER**

Alanson Guy Burt, Senior, Letters and Science, Lafayette.

ISAIAS W. HELLMAN SCHOLARSHIPS

FOUNDED BY THE LATE REGENT ISAIAS W. HELLMAN

Bill Owen Barancik, Senior, Engineering, Los Angeles.
Melvin Joseph Bernstein, Senior, Engineering, Los Angeles.
Ashley Anthony Cunningham, Senior, Letters and Science, Carmel.
Arthur Loyd Deleray, Junior, Chemistry, Walnut Creek.
George Fred Hafner, Senior, Business Administration, San Pablo.
Donald Eugene Hagge, Junior, Engineering, Berkeley.
Irving Jerome Kornfield, Junior, Letters and Science, Oakland.
Kenneth Lee, Sophomore, Letters and Science, Oakland.
David Benjamin Peizer, Sophomore, Letters and Science, San Francisco.
Marvin I Schwartz, Senior, Optometry, Berkeley.
Richard Abel Tierney, Sophomore, Letters and Science, Hayward.
Martin Stuart Weiner, Sophomore, Letters and Science, San Francisco.

VICTOR HENDRICKS HENDERSON SCHOLARSHIP

ESTABLISHED BY MISS GERTRUDE HENDERSON

Paul Hammond Gilbert, Sophomore, Engineering, Healdsburg.

ALFRED HERTZ MEMORIAL SCHOLARSHIPS

ESTABLISHED UNDER THE WILL OF ALFRED HERTZ FOR STUDENTS IN MUSIC

Ann Jacobson, Music, Berkeley.
William Corbett Jones, Music, San Francisco.
Sylvia Jenkins Nordby, Music, Palo Alto.
Jerome Harry Rose, Music, San Francisco.

LUCILE HEWETT SCHOLARSHIP

GIVEN UNDER THE WILL OF LUCILE HEWETT

Marguerite Paqui Barberat, Junior, Letters and Science, San Francisco.

HEWLETT-PACKARD-ALUMNI SCHOLARSHIP IN ENGINEERING

**GIVEN BY THE HEWLETT-PACKARD COMPANY AND VARIOUS OF THE COMPANY'S
EMPLOYEES UNDER THE CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP PROGRAM**
Appointment deferred.

HIGH SCHOOL OF COMMERCE SCHOLARSHIPS 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

Miguel Olascuga Monroy, Freshman (Applicant), Chemistry, San Francisco.

BARNARD HOBSON SCHOLARSHIP

ESTABLISHED BY GRACE HOBSON SMITH (MRS. FRED W. SMITH) IN
MEMORY OF HER AUNT, GRACE BARNARD

Aline Bernard de Boton, Sophomore, Letters and Science, San Mateo.

HENRY MORGAN HOLBROOK SCHOLARSHIP

FOUNDED BY MRS. OLIVE H. PALMER IN MEMORY OF HER HUSBAND

Ralph Gordon Baender, Senior, Letters and Science, Mountain View.

HENRY M. HOLBROOK SCHOLARSHIP IN MUSIC

FOUNDED BY MARY HOLBROOK KNIGHT IN MEMORY OF HER BROTHER

David Walter Del Tredici, Sophomore, Letters and Science, San Anselmo.

HOWARD C. HOLMES SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MRS. JOSEPHINE E. HOLMES FOR THE
BENEFIT OF STUDENTS IN CIVIL ENGINEERING

James Trueman Curry, Jr., Junior, Engineering, San Andreas.

Stanley Irving Dong, Senior, Engineering, San Francisco.

Lloyd Leonard Lassen, Sophomore, Engineering, Menlo Park.

George Charles Riek, Senior, Engineering, Hayward.

CHARLES PARKER HOLT SCHOLARSHIPS IN MECHANICAL
ENGINEERING

ESTABLISHED BY THE WILL OF RUSSELL SEVERANCE SPRINGER

John Robert Apen, Sophomore, Engineering, San Diego.

Jerry Hogan Crabtree, Sophomore, Engineering, San Francisco.

Byron Dale Dieterle, Sophomore, Engineering, Riverside.

Arnold Gregory Wroblewski, Senior, Engineering, Ontario.

BRUCE HOWARD MEMORIAL SCHOLARSHIP

ESTABLISHED BY MRS. HELEN HOWARD OF OAKLAND, IN MEMORY OF HER SON,
FOR THE BENEFIT OF STUDENTS IN CHEMISTRY

Sunney Cheong-Him Ignatius Chan, Senior, Chemistry, Berkeley.

LOIS T. HOWISON LOAN SCHOLARSHIPS

FOUNDED BY THE LATE PROFESSOR GEORGE H. HOWISON AND MRS. HOWISON

Ann Abbott, Senior, Letters and Science, Oakland.

†Alix Sue Bouldin, Senior, Letters and Science, Berkeley.

Helen Carolyn Ermann, Senior, Letters and Science, San Francisco.

Karen Jane Gilliland Grant, Senior, Public Health, Oakland.

ELMER H. HUGHES MEMORIAL SCHOLARSHIPS

ESTABLISHED BY FRIENDS AND FORMER STUDENTS OF THE LATE ELMER H. HUGHES,
PROFESSOR OF ANIMAL HUSBANDRY AT DAVIS

*†Harry Stewart Chandler, Freshman (Applicant), Agriculture, Berkeley.

*William Samuel Charlson, Freshman (Applicant), Agriculture, San Jose.

*†Robert Norris Rebholtz, Freshman (Applicant), Agriculture, San Anselmo.

* At Davis.

† Fall semester only, 1956.

WALTER J. HUND MEMORIAL SCHOLARSHIP

FOUNDED BY FELLOW EMPLOYEES OF THE SHELL DEVELOPMENT COMPANY
John Richard Hubbard, Sophomore, Letters and Science, Salinas.

IDA HENRIETTA HYDE SCHOLARSHIP FOR WOMEN

ESTABLISHED BY MRS. IDA H. HYDE
Judith Georgette Kiraly, Sophomore, Letters and Science, Sunnyvale.

GERTRUDE HAZEL HYMAN MEMORIAL SCHOLARSHIP

**ESTABLISHED BY MR. WILLIAM M. HYMAN, CLASS OF 1896,
IN MEMORY OF HIS WIFE**
Linda Wray Mullin, Freshman (Applicant), Letters and Science, Woodland.

MARY E. JASKEY LOAN SCHOLARSHIP

**ESTABLISHED BY THE WILL OF MARY E. JASKEY FOR THE BENEFIT OF
GRADUATES OF RIVERSIDE JUNIOR COLLEGE**
Not to be offered at Berkeley, 1956-1957.

FRANK H. AND MARION S. JOHNSON SCHOLARSHIPS

ESTABLISHED BY THE BEQUEST OF MARION S. JOHNSON
Richard Herbert Hicks, Sophomore, Letters and Science, San Diego.

MARY GORDON HOLWAY SCHOLARSHIP

ESTABLISHED BY THE PANHELLENIC ORGANIZATION IN MEMORY OF MRS. HOLWAY
Mary Elizabeth Ekstrand, Junior, Letters and Science, Vallejo.

HONORARY SCHOLARSHIPS WITHOUT STIPEND

ESTABLISHED BY THE UNIVERSITY TO HONOR OUTSTANDING ENTRANTS
Irene Chan, Junior (Applicant), Business Administration, Visalia.
Yuri Lily Chiamori, Freshman (Applicant), Letters and Science, Parlier.
Arthur David Daily, Freshman (Applicant), Letters and Science, Oakland.
Stephen Leonard Davis, Freshman (Applicant), Letters and Science, Oakland.
James Ernst Holst, Freshman (Applicant), Letters and Science, Oakland.
Donald Edward McKay, Jr., Freshman (Applicant), Letters and Science, Oakland.
Bruce Hines Nesbit, Freshman (Applicant), Engineering, Sacramento.
Donald A Pieper, Jr., Freshman (Applicant), Letters and Science, Walnut Creek.
Elisabeth Rosenthal, Freshman (Applicant), Agriculture, Berkeley.
*Thomas Jered Vestal, Freshman (Applicant), Agriculture, Pittville.
Robert Aram Wilson, Freshman (Applicant), Letters and Science, Oakland.
Loring Alfred Wyllie, Jr., Freshman (Applicant), Engineering, Oakland.

BOB HOPE DAIRY INDUSTRY SCHOLARSHIPS

SPONSORED BY THE DAIRY INDUSTRY ADVISORY BOARD
Appointment deferred.

JOHN JAY HOPKINS SCHOLARSHIP

GIVEN BY JOHN JAY HOPKINS
Margaret Sheila Fox, Junior, Letters and Science, Berkeley.

CORNELIUS B. HOUGHTON SCHOLARSHIP

FOUNDED BY MRS. CORNELIUS B. HOUGHTON IN MEMORY OF HER HUSBAND
Ronald Nisbet Clarke, Junior (Applicant), Letters and Science, San Mateo.

ALBERT SIDNEY JOHNSTON MEMORIAL SCHOLARSHIPS

FOUNDED BY THE UNITED DAUGHTERS OF THE CONFEDERACY, CHAPTER 79
Joleen Donna Walters, Freshman (Applicant), Letters and Science, Vacaville.

* At Davis.

CARRIE M. JONES SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. CARRIE M. JONES

Victor Alfred Bloomfield, Sophomore, Chemistry, Cotati.
 Howard Michael Brucker, Sophomore, Engineering, Los Angeles.
 Fred Charles, Sophomore, Chemistry, San Diego.
 George Alexander Cuthbertson, Sophomore, Letters and Science, Berkeley.
 Clarence Andre Le Febvre, Jr., Sophomore, Engineering, San Pablo.
 Arthur Liu McCartney, Sophomore, Letters and Science, Santa Ana.
 Richard Adolph Roberts, Senior, Engineering, San Mateo.
 John Raymond Rognas, Sophomore, Letters and Science, Redwood City.
 David Angus Russell, Sophomore, Letters and Science, Pepperwood.
 Herman Charles Wallner, Sophomore, Letters and Science, Sanger.
 Ivan Joe Williams, Sophomore, Engineering, Richmond.
 Gar Lok Woo, Sophomore, Letters and Science, San Francisco.

ALFRED B. JORDAN SCHOLARSHIP

FOUNDED BY THE WILL OF THE LATE ALFRED B. JORDAN

Henry Lurie, Senior, Engineering, San Francisco.

EVA AUGUSTA JOSEPHI MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF CORALIE NOYES KENFIELD

Appointment deferred.

ALBERT A. JUNGERMAN MEMORIAL SCHOLARSHIP

SPONSORED BY MRS. FRED A. JUNGERMAN IN MEMORY OF HER HUSBAND

*Antoinette Alice Betschart, Freshman (Applicant), Agriculture, Manteca.

KAPPA KAPPA GAMMA SCHOLARSHIP

ESTABLISHED BY THE ALUMNAE OF KAPPA KAPPA GAMMA

†Florence Yim Lin Wong, Senior, Agriculture, Berkeley.

ANNA BELL KARR SCHOLARSHIPSESTABLISHED BY THE WILL OF ANNA BELL KARR FOR THE BENEFIT OF
RESIDENTS OF YUBA COUNTY

Margaret Ellen Dawson, Sophomore, Letters and Science, Marysville.
 Ronald Harvey Eich, Freshman (Applicant), Letters and Science, Marysville.
 James Burgess Pinkerton, Freshman (Applicant), Letters and Science, Olivehurst.
 Bonita Rae Romness, Freshman (Applicant), Letters and Science, Marysville.

LUKE KAVANAGH LOAN SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF MR. LUKE KAVANAGH

Frank Allison Elliott, Sophomore, Letters and Science, Modesto.
 William Reed Petrocelli, Sophomore, Letters and Science, Oakland.
 Ronald Richard Roberto, Senior, Letters and Science, Oakland.

KENNECOTT SCHOLARSHIP

ESTABLISHED BY THE KENNECOTT COPPER CORPORATION

Albert Tomlinson Chandler, Junior, Engineering, Berkeley.
 Henry Klehn, Jr., Junior, Engineering, Gustine.

CHARLES HUNT KILPATRICK MEMORIAL SCHOLARSHIPSESTABLISHED BY MR. AND MRS. W. S. KILPATRICK OF SAN MARINO, CALIFORNIA,
IN MEMORY OF THEIR SON

Maynard Caldwell Harding, Freshman (Applicant), Engineering, Pasadena.
 Raymond Ramos, Freshman (Applicant), Engineering, Compton.

KIMBER SCHOLARSHIP IN POULTRY HUSBANDRY

GIVEN BY KIMBER FARMS INCORPORATED

Appointment deferred.

*At Davis.

† Fall semester only, 1956.

**KNUDSEN FOUNDATION SCHOLARSHIP
GIVEN BY THE KNUDSEN FOUNDATION**

Appointment deferred.

JAMES M. KOFORD SCHOLARSHIP

ESTABLISHED BY THE WILL OF JAMES M. KOFORD

Sherman Lee Craven, Freshman (Applicant), Engineering, Geary, Oklahoma.
Harris Harumi Teshima, Freshman (Applicant), Engineering, San Juan Bautista.

JESSE KOSHLAND SCHOLARSHIP

**ESTABLISHED BY FRIENDS OF JESSE KOSHLAND, CLASS OF 1893,
IN HONOR OF HIS 80TH BIRTHDAY**

Kevin Richard Watts, Sophomore, Architecture, Berkeley.

EDWARD FRANK KRAFT SCHOLARSHIPS

**ESTABLISHED BY THE WILL OF THE LATE EDWARD FRANK KRAFT FOR
THE BENEFIT OF RESIDENTS OF TEHAMA COUNTY**

- *Dolores Nell Adams, Junior, Letters and Science, Cottonwood.
- Kenneth Lester Bline, Junior, Engineering, Gerber.
- *Denise Clendenning, Sophomore, Letters and Science, Los Molinos.
- Sharon Lynne Foster, Junior, Letters and Science, Red Bluff.
- Mary Lee Grimes, Junior (Applicant), Letters and Science, Red Bluff.
- Patricia Mae Lourence, Sophomore (Applicant), Letters and Science, Red Bluff.
- Janice Irene Osborn, Senior, Letters and Science, 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**

- *Donald Robert Adams, Sophomore, Agriculture, Cottonwood.
- *Richard Allen Crawford, Junior, Agriculture, Gerber.
- *Kenny Morris Lindauer, Junior, Agriculture, Los Molinos.
- *Anne Elizabeth McKay, Freshman (Applicant), Agriculture, Red Bluff.
- *Warren Conrad Micke, Sophomore, Agriculture, Los Molinos.
- *James W Nield, Freshman (Applicant), Engineering, Red Bluff.
- *Roger Lloyd Penner, Freshman (Applicant), Agriculture, Orland.
- *Virgil Ray Traynor, Sophomore, Agriculture, Gerber.
- *Carolyn Dee Weisgram, Sophomore, Agriculture, Tehama.

KROGER SCHOLARSHIPS

ESTABLISHED BY WESCO FOODS COMPANY

Appointment deferred.

HERMINE L. KRUGER SCHOLARSHIP

ESTABLISHED FROM THE ESTATE OF MISS HERMINE L. KRUGER

George Lorin Coad, Sophomore, Engineering, Lafayette.
Kinnison Henry Thomas, Senior, Chemistry, Cody, Wyoming.

**YOSHI AND EMMA KUNO SCHOLARSHIPS FOR UPPER DIVISION
STUDENTS**

ESTABLISHED BY THE WILL OF THE LATE PROFESSOR YOSHI KUNO

James Kaufmann, Senior, Letters and Science, Berkeley.
Leonard Adolph Moskovit, Senior, Letters and Science, Berkeley.
Jose Rafael Ramos, Senior, Letters and Science, Oceanside.
Bradley F Smith, Senior, Letters and Science, Berkeley.

LABELL SCHOLARSHIP

**ESTABLISHED BY MISS ESTELLE LABELL IN MEMORY OF HYMAN AND HATTIE LABELL
AND GENEVIEVE AND LILLIAN LABELL**

Not to be offered, 1956-1957.

* At Davis.

*Undergraduate Scholarships*LADIES' AUXILIARY OF THE CALIFORNIA STATE FIREMEN'S
ASSOCIATION SCHOLARSHIPSGIVEN BY THE LADIES' AUXILIARY OF THE CALIFORNIA STATE
FIREMEN'S ASSOCIATION

Richard Eugene Cooper, Senior, Engineering, Rodeo.

**Carol Ann George, Freshman (Applicant), Letters and Science, Salinas.

LADIES' AUXILIARY OF THE STATE PHARMACEUTICAL
ASSOCIATION SCHOLARSHIPGIVEN BY THE LADIES' AUXILIARY OF THE STATE PHARMACEUTICAL ASSOCIATION
Appointment deferred.

LAMBDA CHI ALPHA SCHOLARSHIP

GIVEN BY LAMBDA CHI ALPHA FRATERNITY

Appointment deferred.

LANAGAN MEMORIAL SCHOLARSHIP

ESTABLISHED BY FRIENDS OF THE LATE JAMES F. LANAGAN

Not to be given, 1956-1957.

LANE-WELLS SCHOLARSHIP

ESTABLISHED BY LANE-WELLS COMPANY

Appointment deferred.

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 DARBY LESLIE

Stanley Emmet Wood, Freshman (Applicant), Chemistry, San Francisco.

EDWARD A. LESSER UNIVERSITY OF CALIFORNIA SCHOLARSHIP

GIVEN BY EDWARD A. LESSER

Appointment deferred.

LIVING MEMORIAL SCHOLARSHIP OF THE DAUGHTERS OF
UNION VETERANS OF THE CIVIL WARESTABLISHED BY THE DAUGHTERS OF UNION VETERANS OF THE CIVIL WAR,
DEPARTMENT OF CALIFORNIA AND NEVADA

Barbara Jean Lortie, Junior, Letters and Science, Oakland.

WALTER LOEWY SCHOLARSHIPS

ESTABLISHED BY THE WILL OF WALTER LOEWY

Mechthild Grieser-Fuerst, Sophomore, Letters and Science, San Francisco.

*Joseph Clemens Hallenkamp, Second Year, Dentistry, San Francisco.

*Gabriele Zella Sonntag, Junior, Veterinary Medicine, Los Angeles.

LOUGHRIDGE SCHOLARSHIP

ESTABLISHED BY THE WILL OF THE LATE PROFESSOR R. H. LOUGHRIDGE

Not to be offered, 1956-1957.

CARL D. LOVOTTI SCHOLARSHIP IN THE COLLEGE OF PHARMACY

GIVEN BY CARL D. LOVOTTI

Appointment deferred.

* At Davis.

** At Santa Barbara.

* At San Francisco.

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
Anita Aileen Axt, Freshman (Applicant), Letters and Science, San Francisco.

FRED L. LOWENGART SCHOLARSHIPS
ESTABLISHED BY THE WILL OF FRED L. LOWENGART
Not to be offered, 1956-1957.

EDMUND LYNCH SCHOLARSHIP
ESTABLISHED BY THE WILL OF EDMUND LYNCH FOR THE BENEFIT OF
RESIDENTS OF FRESNO COUNTY
Appointment deferred.

ELEANOR LYONS SCHOLARSHIP
GIVEN BY MISS ELEANOR LYONS FOR THE BENEFIT OF THE CHILDREN
OF SERVICEMEN WHO DIED IN WORLD WAR II
Janice Elaine Jowett, Freshman (Applicant), Letters and Science, Lemon Grove.

FRANK MCARTHUR SCHOLARSHIP
ESTABLISHED BY THE WILL OF FRANK MCARTHUR
Appointment deferred.

JAMES MONROE McDONALD SCHOLARSHIPS
ESTABLISHED BY THE LATE MRS. MARY J. L. McDONALD OF SAN FRANCISCO
IN MEMORY OF HER HUSBAND
Thomas Roger Couzens, Junior, Engineering, Santa Cruz.
*Marvin Gerdtz, Senior, Agriculture, San Jose.
Gerald Richard Licari, Senior, Letters and Science, Salinas.
Evert Esplin Lindquist, Senior, Agriculture, Salinas.
Harvey R Lorber, Sophomore, Engineering, San Bruno.
David N Mollin, Sophomore, Engineering, San Leandro.
Donald J Peterson, Senior, Chemistry, San Francisco.
Roger Evanson Skjei, Junior, Engineering, Williston, North Dakota.
*Henry Albert Wright, Junior, Agriculture, Boonville.

GENEVIEVE MCENERNEY SCHOLARSHIPS
FOUNDED UNDER THE WILL OF THE LATE REGENT GARRET W. MCENERNEY
Frances Edna Barton, Senior, Letters and Science, Stockton.
Anne Marie Schade Blake, Senior, Public Health, Berkeley.
Irmgard Bohle, Senior, Letters and Science, Pasadena.
Lorraine Ann Canino, Junior, Letters and Science, San Bruno.
Carol Sue Durham, Senior, Letters and Science, Redwood City.
Carol Ann French, Junior, Letters and Science, Inglewood.
Violette Virgie Greenleaf, Junior, Agriculture, Fresno.
Marilyn Diane Hjort, Junior, Letters and Science, San Francisco.
Dorothy Helen Kamer, Senior, Letters and Science, Alhambra.
Elizabeth Ann Knittel, Senior, Letters and Science, Pasadena.
Suzanne Anne Martha Kraatz, Senior, Letters and Science, Santa Cruz.
Marlene Estelle Levy, Senior, Letters and Science, Burbank.
†Janet Ruth McFarland, Senior, Letters and Science, Chico.
Mary Joanne Marsh, Senior, Letters and Science, San Francisco.
Donna Lorraine Matlock, Sophomore, Letters and Science, Salinas.
June Adele Nelson, Sophomore, Letters and Science, Turlock.
Carolyn May Olsson, Senior, Letters and Science, Lafayette.
Verna Frances Pearson, Senior, Letters and Science, Berkeley.
Diane Thelma Richard, Senior, Letters and Science, San Francisco.
Edyth Spicer Short, Senior, Letters and Science, Berkeley.
Leta Spira, Senior, Letters and Science, Berkeley.
Sherril Joyce Steinman, Senior, Letters and Science, Boise, Idaho.
†Barbara Geier Wallach, Senior, Letters and Science, Berkeley.

* At Davis.

† Fall semester only, 1956.

Undergraduate Scholarships

June Eleanor Waters, Junior, Letters and Science, Concord.
 Nancy Leanore Halloran Watson, Junior, Letters and Science, Berkeley.
 Iris Whitman, Junior, Letters and Science, Long Beach.
 Patricia Ann Willey, Junior, Letters and Science, Atascadero.
 †Barbara Ruth Williams, Senior, Letters and Science, Berkeley.
 Christine Brewster Winters, Senior, Letters and Science, Orinda.
 Jo Ann Louise Woolley, Junior, Letters and Science, Auburn.

WILLIAM J. MCGEE SCHOLARSHIP

ESTABLISHED FOR THE BENEFIT OF A RESIDENT OF AMADOR COUNTY
 Richard W. Jones, Freshman (Applicant), Letters and Science, Ione.

MELVILLE E. MCINTOSH—GENERAL ELECTRIC COMPANY SCHOLARSHIP

GIVEN BY MR. MELVILLE E. MCINTOSH AND THE GENERAL ELECTRIC COMPANY
 UNDER THE CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP PROGRAM
 Appointment deferred.

MAY J. MCLEAN SCHOLARSHIPS

CREATED FROM FUNDS REQUESTED TO THE UNIVERSITY UNDER THE WILL OF
 MAY J. MCLEAN OF SAN FRANCISCO
 Not to be offered to undergraduates, 1956–1957.

ROBERT K. MALCOLM SCHOLARSHIP

GIVEN BY LIBERTY FARMS COMPANY

*Linda Dowding, Junior, Agriculture, Topanga.
 *Frederick Dana Seares, Senior, Agriculture, Pasadena.

ALICE M. MARRIOTT SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF ALICE M. MARRIOTT
 Not to be offered at Berkeley, 1956–1957.

ELLEN ELLSWORTH MARTIN DORMITORY SCHOLARSHIP

ESTABLISHED BY THE WOMEN'S DORMITORY ASSOCIATION, MOTHER'S CLUB
 Lynn Keith Wall, Junior, Letters and Science, Burlingame.

MASK AND DAGGER MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE MASK AND DAGGER DRAMATICS HONOR SOCIETY
 Appointment deferred.

MARIETTA C. MASTICK SCHOLARSHIP

ESTABLISHED BY THE BEQUEST OF MARIETTA C. MASTICK
 Jon Howard Pegg, Senior, Letters and Science, Santa Rosa.

STEPHEN TYNG MATHER SCHOLARSHIPS

ESTABLISHED BY THE WILL OF STEPHEN TYNG MATHER
 OF THE CLASS OF 1887
 Raymond Francis McLaughlin, Freshman (Applicant), Agriculture, Oakland.

CAROLYN MEEK MEMORIAL SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF CAROLYN MEEK
 Appointment deferred.

WILHELMA E. MEEK MEMORIAL SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF CAROLYN MEEK
 Peter Wilkens Brill, Sophomore, Letters and Science, San Francisco.
 Emanuel Goldman, Freshman, Letters and Science, San Francisco.

* At Davis.

† Fall semester only, 1956.

John Nicholas Guirao, Senior, Letters and Science, Stockton.
Mary Callaway Hale, Senior, Letters and Science, Upland.
Ronald Dean Priddy, Junior, Letters and Science, Berkeley.
Joyce Salter, Senior, Letters and Science, San Diego.
Nancy Etta West, Senior, Letters and Science, San Francisco.

**MERRILL, LYNCH, PIERCE, FENNER & BEANE
FOUNDATION SCHOLARSHIPS**

GIVEN BY MERRILL, LYNCH, PIERCE, FENNER & BEANE

Robert Nicholas Bowles, Junior, Business Administration, Richmond.
Davel Rolando Brodesky, Senior, Business Administration, Buenos Aires, Argentina.
Hiram David Carter, Junior, Business Administration, Berkeley.
†Oscar Zanis Hercs, Senior, Business Administration, Richmond.
Jack Christian Tammi, Junior, Business Administration, San Pedro.

MARTIN A. MEYER MEMORIAL SCHOLARSHIPS

ESTABLISHED BY THE CONGREGATION EMANU-EL OF SAN FRANCISCO

Jean Rothfield Yurbursky, Junior, Letters and Science, Albany.

MILLER SCHOLARSHIP

ESTABLISHED BY THE WILL OF JOHN A. W. MILLER

Not to be offered, 1956-1957.

PAULINE FORE MOFFITT SCHOLARSHIP

**ESTABLISHED IN MEMORY OF PAULINE FORE MOFFITT FOR THE BENEFIT
OF GRADUATES OF ST. HELENA HIGH SCHOOL**

Ellen Sue Sawyer, Freshman (Applicant), Letters and Science, St. Helena.

MONTEAGLE SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. LYDIA PAIGE MONTEAGLE

†Henry Millo di Suvero, Senior, Letters and Science, San Francisco.
Val Prescop, Freshman, Engineering, Berkeley.

CORNELIA MORGAN SCHOLARSHIP

GIVEN BY MRS. FREDA RYAN IN MEMORY OF HER SISTER, CORNELIA MORGAN

Edith Paula Cohen, Sophomore, Letters and Science, Santa Ana.
Gloria Diana Ramos, Sophomore, Architecture, Oceanside.

WILLIAM O. MORGAN SCHOLARSHIP

**ESTABLISHED BY MRS. APPHIA VANCE MORGAN IN HONOR OF HER HUSBAND
Appointment deferred.**

FRED MORRIS "1900" SCHOLARSHIP

GIVEN BY FRED MORRIS

Roger Lee Gregg, Sophomore, Engineering, Turlock.

MAY T. MORRISON SCHOLARSHIPS

ESTABLISHED BY THE WILL OF THE LATE MAY T. MORRISON

Ann Sydney Marie Dorwart, Sophomore, Letters and Science, Pasadena.
Judith Ann Wollenhaupt, Sophomore, Letters and Science, Stockton.

MAY T. MORRISON LOAN SCHOLARSHIPS

DERIVED FROM THE MAY T. MORRISON LOAN FUND

Philip Ashley Read, Sophomore, Chemistry, San Francisco.
James Thurston Yenckel, Sophomore, Letters and Science, Atwater.

MORTAR BOARD SCHOLARSHIP

GIVEN BY THE MORTAR BOARD SOCIETY

Mary Hazel Kenner, Sophomore, Agriculture, Berkeley.

† Fall semester only, 1956.

Undergraduate Scholarships

WALTER MULFORD SCHOLARSHIP IN FORESTRY
ESTABLISHED BY THE CALIFORNIA ALUMNI FORESTERS IN
MEMORY OF WALTER MULFORD

† Lawson Lowell Winton, Senior, Forestry, Berkeley.

ELIZABETH LIVINGSTONE MURISON SCHOLARSHIP
ESTABLISHED BY THE ELIZABETH MURISON SCHOOL ASSOCIATION

Appointment deferred.

FRANK AND IVY MYERS SCHOLARSHIPS
ESTABLISHED BY THE WILL OF FRANK S. MYERS

- * David Eugene Hansen, Freshman (Applicant), Agriculture, Davis.
- Dana Vern Palmer, Junior, Agriculture, San Diego.
- * Paul Lewis Smithers, Junior, Agriculture, Davis.

BERNARD NATHAN SCHOLARSHIPS
FOUNDED BY THE WILL OF BERNARD NATHAN

Isaac Franklin Silvera, Sophomore, Letters and Science, Los Angeles.

NEWHOUSE FOUNDATION SCHOLARSHIPS
GIVEN BY THE NEWHOUSE FOUNDATION

- William Vail Allen, Senior, Letters and Science, Palo Alto.
- Robert Duane Anderson, Senior, Letters and Science, Mountain View.
- Sharon Miller Cartwright, Senior, Letters and Science, South Pasadena.
- Constance Joan Covington, Senior, Letters and Science, San Francisco.
- Lili R Daniel, Junior, Letters and Science, San Francisco.
- James Donald Eidson, Junior, Letters and Science, Modesto.
- Glenn Edward Fortini, Senior, Letters and Science, Oakland.
- Rose Irene Gallagher, Junior, Letters and Science, San Francisco.
- Benjamin Franklin Gibbs, Jr., Junior, Letters and Science, San Diego.
- Clark Joseph Ide, Senior, Letters and Science, Modesto.
- † Yaeko Iwawaki, Senior, Letters and Science, San Francisco.
- Nancy Leonie Jones, Junior, Letters and Science, San Francisco.
- Arlen Lloyd Kennedy, Senior, Letters and Science, Willits.
- Peggy June Ostrom, Senior, Letters and Science, Santa Rosa.
- Neil Rae Penry, Senior, Architecture, Healdsburg.
- Ronald Sterling Peterson, Junior, Letters and Science, Klamath.
- Richard Rannells Randolph, Senior, Letters and Science, Oroville.
- Derward Robert Rogers, Senior, Engineering, Oroville.
- Maria Stevenson, Junior, Letters and Science, Albany.
- Doramay Thunen, Junior, Letters and Science, Ukiah.
- Francis Glennon Willmarth, Junior, Letters and Science, Berkeley.

EDITH M. AND WILBERT F. NEWTON SCHOLARSHIP
ESTABLISHED BY MR. W. F. NEWTON

Yvonne Leah Simons, Sophomore, Letters and Science, Oakland.

NONRESIDENT SCHOLARSHIPS

FOUNDED BY THE REGENTS OF THE UNIVERSITY FROM INCOME OF THE UNIVERSITY

- Youngok Ahn, Junior, Chemistry, Seoul, Korea.
- Michael Athanassiades, Sophomore, Engineering, Drama, Greece.
- Ki Taek Chun, Junior, Letters and Science, Dusam, Korea.
- Yongduk Kim, Junior, Letters and Science, Seoul, Korea.
- Kazue Momoda, Junior, Chemistry, Matsuyama, Japan.
- A Young Moon, Sophomore, Pharmacy, Seoul, Korea.
- Honnegina Hilde R Mulder, Junior, Letters and Science, Voorburg, Netherlands.
- * Virginia Diane Perryman, Sophomore, Agriculture, North Bend, Oregon.
- Dolly Lowe Poon, Junior, Letters and Science, Hong Kong, China.
- David Ralph Simons, Junior, Letters and Science, Springfield, Oregon.
- Walter Joseph Stein, Junior, Letters and Science, New York, New York.

* At Davis.

† Fall semester only, 1956.

Anthony Chan Weiss, Jr., Sophomore, Chemistry, Canton, China.
Ahmed Rassem Wazzam, Sophomore, Chemistry, Lattakia, Syria.
Sepehreh Zabeeh, Junior, Letters and Science, Teheran, Iran.

LAVERNE NOYES SCHOLARSHIPS

ESTABLISHED BY THE WILL OF LAVERNE NOYES

Donna Ruth Baird, Sophomore, Letters and Science, Berkeley.
Marjorie Carolyn Bruce, Junior, Architecture, Berkeley.
Thomas Robert Cass, Junior, Engineering, San Francisco.
Robert Anthony Charlson, Junior, Letters and Science, Berkeley.
William Sydney Evans, Jr., Graduate, Anthropology, Oakland.
*Kenneth H Fletcher, Second Year, Dentistry, San Francisco.
Luther Wesley Greider, Jr., Graduate, Education, Berkeley.
Michael Gathany Harris, Junior, Business Administration, Berkeley.
*Gertrude Ellen Hodges, Sophomore, Letters and Science, Colusa.
Elizabeth Sinclair Juul, Junior, Letters and Science, San Francisco.
Mary Sue Keisker, Senior, Letters and Science, South Pasadena.
Mary Hazel Kenner, Sophomore, Agriculture, Berkeley.
John Patrick Kirsht, Graduate, Psychology, Oakland.
*Calman Kurtzman, Third Year, Dentistry, Los Angeles.
Ann Lorelle Lindsay, Junior, Letters and Science, Berkeley.
Wanda Reiersgaard McNeill, Graduate, Social Welfare, Pittsburg.
Mary Alice Mullins, Junior, Letters and Science, Albany.
†Janice Evelyn Nelson, Senior, Business Administration, San Jose.
Dana Vern Palmer, Junior, Agriculture, San Diego.
Betty Jane Rank, Graduate, Social Welfare, Oakland.
*Reynold Dean Robinson, Second Year, Dentistry, Freedom, Wyoming.
Larry Spencer Rodick, Junior, Agriculture, Sherman Oaks.
*Dale Eldon Shaffer, Junior, Veterinary Medicine, Sacramento.
Ralph Edward Shaffer, Graduate, History, Berkeley.
Sylvia Dorothy Taylor, Sophomore, Letters and Science, Davis.
*Phillip Harvey Tobenkin, Second Year, Dentistry, Berkeley.
Julia Thornton Wagoner, Graduate, Physics, Albany.
Lowell Delano Weight, Junior, Letters and Science, Burlingame.
*Alauhua Starlita Berthea West, Sophomore, Letters and Science, Solromar.
Alvin Dennie Wiggins, Graduate, Statistics, El Sobrante.
Lawrence Fielding Winans, Senior, Letters and Science, San Francisco.
Julie Carol Zander, Sophomore, Letters and Science, San Leandro.

A. F. NUNES LOAN SCHOLARSHIP

ESTABLISHED BY MRS. MARY NUNES SOUZA

Not to be offered, 1956-1957.

**NURSING SCHOLARSHIP OF THE CALIFORNIA CONGRESS OF
PARENTS AND TEACHERS**

GIVEN BY THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS

Appointment deferred.

KATE NAVIN O'NEILL SCHOLARSHIP

ESTABLISHED BY THE WILL OF KATE NAVIN O'NEILL

Not to be offered, 1956-1957.

ORIENTAL INSTITUTE SCHOLARSHIP

FOUNDED BY THE ORIENTAL INSTITUTE OF CALIFORNIA

Virginia Chan, Senior, Letters and Science, San Francisco.

**IVY DOUGLAS OSTROM SCHOLARSHIP OF THE CALIFORNIA DIVISION,
UNITED DAUGHTERS OF THE CONFEDERACY**

**ESTABLISHED BY THE CALIFORNIA DIVISION, UNITED DAUGHTERS
OF THE CONFEDERACY**

Edgar LeRoy Strickland, Senior, Engineering, Fullerton.

* At Davis.

† Fall semester only, 1956.

* At San Francisco.

*Undergraduate Scholarships***THERESA MARGARET OTTO SCHOLARSHIP**

ESTABLISHED BY THERESA MARGARET OTTO PHARES

Stanley Lim Ming Fong, Sophomore, Letters and Science, San Francisco.

PROFESSOR F. V. PAGET SCHOLARSHIP IN FRENCH

FOUNDED UNDER THE WILL OF THE LATE MADAME EMMANUEL MARIE PAGET

Not to be offered, 1956-1957.

PANHELLENIC SCHOLARSHIPESTABLISHED BY THE PANHELLENIC ALUMNAE ASSOCIATION
OF THE SAN FRANCISCO BAY DISTRICT

Barbara Kay Turner, Junior, Letters and Science, Ione.

PENINSULA FOUNDATION SCHOLARSHIP

GIVEN BY THE PENINSULA FOUNDATION INCORPORATED

Barbara Lee Dickey, Sophomore, Letters and Science, Antioch.

Mary Louise Maughelli, Senior, Letters and Science, San Francisco.

PHARMACEUTICAL AND PHYSICAL CHEMISTRY SCHOLARSHIP

MAINTAINED BY MR. KENNETH B. BOWERMAN

Appointment deferred.

PHARMACY SCHOLARSHIPESTABLISHED 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

Appointment deferred.

MILTON PHILLIPS SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MILTON PHILLIPS

- Kenneth Alfred Arndt, Junior, Letters and Science, San Mateo.
 Else Asmussen deLehmann, Sophomore, Letters and Science, Berkeley.
 *Charles Eugene Farmer, Junior, Letters and Science, Yreka.
 Anne Barbara Glick, Sophomore, Letters and Science, Santa Monica.
 Paul Carter Holmes, Senior, Letters and Science, Santa Rosa.
 William Marvin Johnson, Senior, Letters and Science, Berkeley.
 †Eugene Stewart Lowrance, Senior, Letters and Science, Berkeley.
 Norman Walter Luebkehan, Junior, Letters and Science, Hayward.
 *Nancy L Olander, Senior, Letters and Science, Vacaville.
 Mary Gay Barron Pelto, Sophomore, Letters and Science, Berkeley.
 Barre Phillips, Junior, Letters and Science, Garden Valley.
 Masanobu Saito, Sophomore, Letters and Science, Hiroshima, Japan.
 Ruth Laila Schmidt, Sophomore, Letters and Science, Sacramento.
 Joyce Ellen Taylor, Sophomore, Letters and Science, San Andreas.

MARY PHLEGER MEMORIAL SCHOLARSHIPS

ESTABLISHED BY THE CHILDREN OF MRS. MARY PHLEGER IN HER MEMORY

- Martin Davis Diamond, Freshman, Engineering, Sacramento.
 Elinor Fong, Freshman, Letters and Science, Sacramento.
 Virginia Toshiko Honda, Junior, Letters and Science, Sacramento.
 Leigh Hunt Palmer, Senior, Letters and Science, Sacramento.

**HENRY E. PICARD AND CHARLES H. LURMANN FOUNDATION
SCHOLARSHIP**

GIVEN BY THE HENRY E. PICARD AND CHARLES H. LURMANN FOUNDATION

Alfred Julien Lakritz, Senior, Letters and Science, San Francisco.

* At Davis.

† Fall semester only, 1956.

MARY PILLOT SCHOLARSHIPS

**FOUNDED BY THE SCHOLARSHIP COMMITTEE OF THE SAN JOSE HIGH SCHOOL
FOR GRADUATES OF THAT SCHOOL**

Adrienne Akahoshi, Freshman (Applicant), Letters and Science, San Jose.
Lelde Brigita Patvalds, Freshman (Applicant), Letters and Science, San Jose.

**LAVERNE ALEXANDER PLATT SCHOLARSHIPS
ESTABLISHED BY THE WILL OF MABEL BLAIR ALEXANDER**

Erwin Paul Frech, Jr., Senior, Engineering, Sanger.
Vincent Joseph Ghio, Sophomore, Engineering, San Francisco.
Jon Stanley Jacobson, Sophomore, Letters and Science, Selma.
‡Kenneth Donald Mackenzie, Sophomore, Letters and Science, San Diego.

**POLYTECHNIC HIGH SCHOOL SCHOLARSHIP
ESTABLISHED BY THE STUDENTS OF POLYTECHNIC HIGH SCHOOL OF SAN FRANCISCO
FOR THE BENEFIT OF GRADUATES OF THAT SCHOOL**

Not to be offered, 1956-1957.

FRANK H. PROBERT MEMORIAL SCHOLARSHIP

**ESTABLISHED BY THE UNIVERSITY OF CALIFORNIA MINING ASSOCIATION
AND BY THE FRIENDS AND COLLEAGUES OF THE LATE PROFESSOR
FRANK H. PROBERT IN HIS MEMORY**

Guenter Merkle, Sophomore, Engineering, Daly City.

PUBLIC HEALTH SCHOLARSHIPS IN BIostatISTICS

PROVIDED BY THE NATIONAL INSTITUTE OF HEALTH

Richard Lee Bowen, Freshman (Applicant), Letters and Science, San Francisco.
William Laurence Dickey, Freshman (Applicant), Letters and Science, San Francisco.
Roberta Elaine Gaudie, Junior, Letters and Science, Oakland.
Kerma Jean Giannini, Freshman (Applicant), Letters and Science, Sandcoulee, Montana.
Nancy Ruth Leonard, Junior, Letters and Science, Vacaville.
Judy Lea Peterson, Freshman (Applicant), Letters and Science, Sacramento.
June Evelyn Smith, Senior, Public Health, Albany.
Suzanne Rae Stevens, Freshman, Letters and Science, Oakland.
Ann Trilling, Sophomore, Letters and Science, San Francisco.
Hyale Wall, Freshman (Applicant), Letters and Science, San Anselmo.
Joseph Michael Weinstein, Freshman (Applicant), Letters and Science, Oakland.
Carol Wing Wong, Sophomore, Letters and Science, South Pasadena.
Michael Arthur Zwerdling, Junior, Public Health, Oakland.

IRENE PURINGTON SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MRS. HENRIETTA ELIZABETH PURINGTON

Patricia Ann Banach, Junior, Letters and Science, Santa Cruz.
Sandra A Berman, Junior, Letters and Science, San Mateo.
Constance Marie Cunningham, Junior, Letters and Science, Long Beach.
Anna Inese Eglite, Junior, Letters and Science, San Francisco.
Adrienne Yee Ho, Junior, Letters and Science, San Francisco.
Janet Irene Holden, Junior, Letters and Science, Pomona.
Joyce Lucille LeFebvre, Junior, Letters and Science, San Pablo.
Mary Pederson McBay, Junior, Letters and Science, Salinas.
Judith Meyer, Junior, Letters and Science, San Jose.
Maureen Lois Miles, Junior, Letters and Science, San Francisco.
Alice Carolyn Saltsen, Junior, Letters and Science, Dixon.
Christine Carole Warren, Junior, Letters and Science, San Francisco.
Lorna Geraldine Zbitnoff, Junior, Letters and Science, Ukiah.

**RADIO CORPORATION OF AMERICA SCHOLARSHIP
GIVEN BY THE RADIO CORPORATION OF AMERICA**

Erda Lois Labuhn, Junior, Letters and Science, Berkeley.

‡ Spring semester only, 1957.

Undergraduate Scholarships

**RALSTON PURINA SCHOLARSHIP
GIVEN BY RALSTON PURINA COMPANY**

*James G Schubin, Senior, Agriculture, Placerville.

**RAYONIER FOUNDATION SCHOLARSHIP
GIVEN BY THE RAYONIER FOUNDATION**

Malcom Mallory Clark, Senior, Chemistry, Palo Alto.
Wing Lee, Senior, Engineering, San Francisco.
Walter Davis Wilson, Senior, Chemistry, Delhi.

HANNAH D. REED SCHOLARSHIP

ESTABLISHED BY THE WILL OF HOWARD S. REED

Anita Helene Brilliant, Junior, Letters and Science, Berkeley.
John Mario Gatto, Sophomore, Architecture, San Francisco.

MABEL WILSON RICHARDS SCHOLARSHIPS

ESTABLISHED BY THE WILL OF MABEL WILSON RICHARDS

Marcia Lou Grud, Freshman (Applicant), Agriculture, Los Angeles.
Hilda Holtz, Junior, Letters and Science, Los Angeles.
Myra Lois Jagendorf, Sophomore, Letters and Science, Los Angeles.
Antoinette Kahan, Junior, Letters and Science, Los Angeles.
Elinore Linda Keenan, Junior, Letters and Science, Los Angeles.
Akemi Jane Nagafuji, Junior, Letters and Science, Los Angeles.
Myra Jo Schwartzman, Junior, Letters and Science, Los Angeles.
Misuzu Uyeno, Junior, Letters and Science, Los Angeles.
Arlene Wechsler, Sophomore, Letters and Science, Los Angeles.

FRIEND W. RICHARDSON SCHOLARSHIPS

ESTABLISHED BY THE CALIFORNIA PRESS ASSOCIATION FOR STUDENTS
IN THE FIELD OF JOURNALISM

Appointment deferred.

ANNE SAMPSON SCHOLARSHIPS

ESTABLISHED BY THE WILL OF PROFESSOR GEORGE H. HOWISON AND HIS WIFE,
LOIS T. HOWISON, IN MEMORY OF MRS. HOWISON'S MOTHER

Elizabeth Carville Dalton, Senior, Letters and Science, Burlingame.
Ann Ruth Danberg, Senior, Letters and Science, Los Angeles.
Eva Caroline Sung, Senior, Letters and Science, Berkeley.

**SAN FRANCISCO BRIDGE COMPANY SCHOLARSHIPS FOR
CONSTRUCTION ENGINEERING**

GIVEN BY THE SAN FRANCISCO BRIDGE COMPANY

James Muriel Anders, Senior, Engineering, Oakland.

SAN FRANCISCO GIRLS' UNION SCHOLARSHIP

ESTABLISHED BY THE SAN FRANCISCO GIRLS' UNION

Margaret Ann Marie Wilson, Freshman (Applicant), Letters and Science, Crescent
City.

SAN JOAQUIN COUNTY CLUB COUNCIL SCHOLARSHIP

GIVEN ANONYMOUSLY

Not to be offered, 1956-1957.

D. A. SARGENT & COMPANY SCHOLARSHIP

PROVIDED BY D. A. AND GLADYS W. SARGENT

William Robert Benevento, Junior, Business Administration, Mountain View.

SCHLUMBERGER COLLEGIATE AWARD

GIVEN BY THE SCHLUMBERGER FOUNDATION

Charles Walter Hanson, Senior, Engineering, Berkeley.

* At Davis.

ANDREW SCHMITT SCHOLARSHIP

ESTABLISHED BY ANDREW SCHMITT FOR STUDENTS AT DAVIS
Not to be offered, 1956-1957.

ELLEN C. SCHWARTZ SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF ELLEN C. SCHWARTZ CRAFT
Not to be offered, 1956-1957.

WERNER R. SCOTT SCHOLARSHIPS

ESTABLISHED FROM THE ESTATE OF WERNER R. SCOTT
Appointment deferred.

HENRY W. SEALE SCHOLARSHIPS

ESTABLISHED BY THE WILL OF JESSIE D. CARR SEALE
Masao Hotta, Senior, Criminology, French Camp.
*Jack Frederick Latimer, Sophomore, Letters and Science, Woodland.

**SEARS ROEBUCK FOUNDATION AGRICULTURAL SCHOLARSHIPS
FOR MEN**

ESTABLISHED BY SEARS ROEBUCK FOUNDATION FOR STUDENTS AT DAVIS
*Ralph Jeffrey Cowing, Freshman (Applicant), Agriculture, Woodland.
*Leslie Charley Cummings, Freshman (Applicant), Agriculture, Coleville.
*Claude Warren Curran, Freshman (Applicant), Agriculture, Corning.
*Joel David Franklin, Freshman (Applicant), Agriculture, Auburn.
*Ronald Ralph Gronwall, Freshman (Applicant), Agriculture, Los Altos.
*Thomas Engel Higgins, Freshman (Applicant), Agriculture, Tracy.
*Milton D Pace, Freshman (Applicant), Agriculture, Orland.
*Larry Dayle Romine, Freshman (Applicant), Agriculture, Ramona.
*Ralph Richard Russe, Jr., Freshman (Applicant), Agriculture, Woodland.
*Frank Kenneth Santos, Freshman (Applicant), Agriculture, Richmond.
*Richard Tiller, Freshman (Applicant), Agriculture, Sebastopol.

SEARS ROEBUCK FOUNDATION SCHOLARSHIPS IN HOME ECONOMICS

GIVEN BY SEARS ROEBUCK FOUNDATION FOR STUDENTS AT DAVIS

*Carol Ann Gilbert, Freshman (Applicant), Agriculture, Porterville.
*Gloria Jean Murphy, Freshman (Applicant), Agriculture, Brentwood.
*Joellen Elizabeth Turbitt, Freshman (Applicant), Agriculture, Burlingame.
*Judith Mary Williams, Freshman (Applicant), Agriculture, Visalia.

**SEARS ROEBUCK FOUNDATION AGRICULTURAL
SOPHOMORE SCHOLARSHIP**

GIVEN BY SEARS ROEBUCK FOUNDATION FOR STUDENTS AT DAVIS
Appointment deferred.

SENIOR WOMEN'S SCHOLARSHIP

ESTABLISHED BY THE ASSOCIATED WOMEN STUDENTS OF THE
UNIVERSITY OF CALIFORNIA

†Dorothy Ellen Argue, Senior, Letters and Science, South Pasadena.

OTTO W. SHALER SCHOLARSHIP

ESTABLISHED BY THE WILL OF OTTO W. SHALER
*Iraq Soofer, Third Year, Pharmacy, Tehran, Iran.

DONALD GEORGE SHERLOCK MEMORIAL SCHOLARSHIP

GIVEN BY THE FAMILY AND FRIENDS OF THE LATE DONALD GEORGE SHERLOCK
James Henry Pehling, Junior, Letters and Science, Oakland.

* At Davis.

† Fall semester only, 1956.

* At San Francisco.

*Undergraduate Scholarships***PETER J. SHIELDS SCHOLARSHIPS**

ESTABLISHED FOR THE BENEFIT OF STUDENTS IN AGRICULTURE AT DAVIS
BY REGENT GARRET W. MCENERNEY

*Dean Smith Deniz, Sophomore, Agriculture, Auburn.

JOE SHOONG FOUNDATION SCHOLARSHIPS

ESTABLISHED BY JOE SHOONG, SAN FRANCISCO

†Betty Chin, Senior, Letters and Science, San Francisco.
Frederic Kwong-Yut Chin, Sophomore, Letters and Science, Berkeley.
Jones Wing Fong, Junior, Letters and Science, Sacramento.
Lydia Theresa Lee, Junior, Letters and Science, Berkeley.
Judith Ng, Freshman, Letters and Science, Oakland.
David Sun Quong Yee, Sophomore, Letters and Science, Oakland.
Armonita Yuen, Junior, Letters and Science, Berkeley.

JOSEPH SLOSS SCHOLARSHIP

GIVEN BY MRS. JOSEPH SLOSS OF PALO ALTO, CALIFORNIA

Not to be offered, 1956-1957.

ANDREW LATHAM SMITH MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE WILL OF ANDREW LATHAM SMITH

Appointment deferred.

IRVING AND LUCILE SMITH SCHOLARSHIP

ESTABLISHED BY THE WILL OF LUCILE M. SMITH

Bob Hiro Suzuki, Junior, Engineering, Spokane, Washington.
Neil R Welsh, Senior, Engineering, Bakersfield.

NORMAN E. SMITH 1900 SCIENCE SCHOLARSHIP

ESTABLISHED BY MRS. ELIZABETH BURNELL SMITH IN MEMORY OF HER HUSBAND

Not to be offered at Berkeley, 1956-1957.

WILLIAM SMITH MEMORIAL SCHOLARSHIP

ESTABLISHED BY HAROLD AND JESSE SMITH IN MEMORY OF THEIR FATHER,
THE LATER WILLIAM SMITH

Not to be offered to undergraduates, 1956-1957.

SNELL SEMINARY ALUMNAE ASSOCIATION SCHOLARSHIP

ESTABLISHED BY THE SNELL SEMINARY ALUMNAE ASSOCIATION

Myrna Iris Wood, Sophomore, Letters and Science, Merced.

SOCONY-MOBIL OIL COMPANY/GENERAL PETROLEUM CORPORATION SCHOLARSHIPS

ESTABLISHED BY THE SOCONY-MOBIL OIL COMPANY/GENERAL
PETROLEUM CORPORATION

Appointment deferred.

**HARRY A. SPRAGUE MEMORIAL SCHOLARSHIP IN
GEOLOGICAL SCIENCES**

GIVEN BY FRIENDS AND CO-WORKERS OF THE LATE HARRY A. SPRAGUE

Appointment deferred.

ALBERT B. ("PESKY") SPROTT MEMORIAL SCHOLARSHIP

GIVEN BY FRIENDS OF THE LATE "PESKY" SPROTT IN HIS MEMORY

Appointment deferred.

* At Davis.

† Fall semester only, 1956.

IDA SPROUL PRYTANEAN SCHOLARSHIP

GIVEN BY THE PRYTANEAN SOCIETY OF THE UNIVERSITY OF CALIFORNIA IN
RECOGNITION OF MRS. IDA SPROUL'S TWENTY-FIVE YEARS OF DEVOTED
SERVICE TO THE UNIVERSITY AS THE WIFE OF ITS PRESIDENT

Alice Patricia Denton, Senior, Letters and Science, Sonoma.

STANDARD OIL COMPANY OF CALIFORNIA SCHOLARSHIP

GIVEN BY THE STANDARD OIL COMPANY OF CALIFORNIA

*Nancy Jane Smith, Junior, Letters and Science, Sacramento.

*Gerald Eugene Youngblood, Freshman, Agriculture, West Sacramento.

HORATIO STEBBINS SCHOLARSHIP

FOUNDED IN MEMORY OF THE LATE REGENT HORATIO STEBBINS

Marilyn Joy Martin Du Bois, Senior, Letters and Science, Lakewood.

LUCY WARD STEBBINS SCHOLARSHIP

ESTABLISHED BY THE LATE LUCY WARD STEBBINS

Jo Ann Peggy Fowler, Sophomore, Letters and Science, Montebello.

Mabel Holstein, Senior, Letters and Science, Albany.

ROSIE STERNHEIM MEMORIAL SCHOLARSHIPS

ESTABLISHED UNDER THE WILL OF THE LATE BENJAMIN F. STERNHEIM

Hugh Denis Barnett, Sophomore, Chemistry, Berkeley.

Joy Ann Cox, Sophomore, Letters and Science, Berkeley.

Miriam Haruko Fukami, Sophomore, Letters and Science, San Francisco.

Toni Diane Hamm, Junior, Letters and Science, Santa Barbara.

Louise Black Holstein, Sophomore, Letters and Science, Albany.

Hartha Louise Johnson, Sophomore, Letters and Science, Berkeley.

Abraham Kriger, Junior, Engineering, San Francisco.

James Dominic Lee, Sophomore, Letters and Science, San Francisco.

Diana Ruth Leviten, Sophomore, Letters and Science, Berkeley.

Douglas Cameron MacMillan, Sophomore, Engineering, Berkeley.

Georgie Ann Peer, Junior, Letters and Science, Oakland.

Harold Leroy Ringler, Jr., Junior, Letters and Science, Lodi.

Rosalie Diane Shapiro, Freshman, Letters and Science, Oakland.

Herbert Marshall Vogler, Senior, Letters and Science, San Francisco.

David Van Dorn White, Sophomore, Engineering, Berkeley.

James Richard Young, Sophomore, Letters and Science, Berkeley.

WILLIAM BENSON STOREY SCHOLARSHIPS

ESTABLISHED BY THE WILL OF THE LATE WILLIAM BENSON STOREY
OF CHICAGO, ILLINOIS

Barbara Jean Perry, Freshman (Applicant), Letters and Science, Ukiah.

ALEXANDER STOTT SCHOLARSHIP

ESTABLISHED UNDER THE WILL OF ALEXANDER STOTT

*Susan Amelia Smith, Freshman (Applicant), Agriculture, Phoenix, Arizona.

LEVI STRAUSS SCHOLARSHIPS

FOUNDED BY MR. LEVI STRAUSS AND CONTINUED SINCE THE DEATH OF MR. STRAUSS
BY THE LEVI STRAUSS COMPANY

Lawrence Gay Applegate, Freshman (Applicant), Letters and Science, Atwater.

William William Crandall, Junior (Applicant), Business Administration, Santa Barbara.

Glen Lee Cureton, Freshman (Applicant), Chemistry, Cambrian Park.

William Rodney Dawson, Junior (Applicant), Engineering, La Crescenta.

Lorine Ann Dudley, Freshman (Applicant), Letters and Science, Los Gatos.

Marietta Eugenie Gayet, Freshman (Applicant), Chemistry, Clearlake Highlands.

Janet Clare Hadley, Junior (Applicant), Letters and Science, Modesto.

* At Davis.

Undergraduate Scholarships

‡Irene Karmilof, Junior, Engineering, San Francisco.
 May Haruko Kobayashi, Junior (Applicant), Letters and Science, Sacramento.
 Carol Dianne Kolar, Freshman (Applicant), Letters and Science, Concord.
 Steve Yoneo Muto, Freshman (Applicant), Engineering, San Francisco.
 Valentine Nishihara, Freshman (Applicant), Engineering, Santa Barbara.
 †Dennis Robert Porter, Freshman (Applicant), Agriculture, Fontana.
 Joseph Earl Requa, Freshman (Applicant), Letters and Science, Willits.
 Hoshiro Weston Tamai, Freshman (Applicant), Chemistry, Sacramento.

ARTHUR GOULD TASHEIRA SCHOLARSHIP

ESTABLISHED BY HELEN G. TASHEIRA

Not to be offered to undergraduates, 1956-1957.

LEWIS TASHEIRA SCHOLARSHIP

FOUNDED BY THE LATE ARTHUR G. TASHEIRA IN MEMORY OF HIS FATHER

Walter Foster Anton, Senior, Engineering, Oakland.

John Holmes Hom, Senior, Engineering, Berkeley.

TEACHER EDUCATION SCHOLARSHIP OF THE CALIFORNIA
CONGRESS OF PARENTS AND TEACHERSESTABLISHED BY THE CALIFORNIA CONGRESS OF PARENTS AND TEACHERS, INC. FOR
THE BENEFIT OF STUDENTS WHO PLAN TO TEACH IN THE ELEMENTARY
SCHOOLS IN THE STATE OF CALIFORNIA

Elaine Sandra Selle, Junior, Letters and Science, Oakland.

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 to be offered, 1956-1957.

ARAM TOROSSIAN MEMORIAL SCHOLARSHIP

ESTABLISHED BY THE ARMENIAN STUDENTS' CLUB AND VARIOUS DONORS
IN MEMORY OF THE LATE PROFESSOR ARAM TOROSSIAN

Appointment deferred.

TULARE COUNTY SUPERINTENDENT OF SCHOOLS SCHOLARSHIP

GIVEN FOR STUDENTS FROM TULARE COUNTY

Appointment deferred.

UNION CARBIDE AND CARBON CORPORATION SCHOLARSHIP IN
PROCESS ENGINEERING SPONSORED BY THE
LINDE AIR PRODUCTS COMPANY

GIVEN FOR STUDENTS IN ENGINEERING

Appointment deferred.

UNIVERSITY MEMORIAL SCHOLARSHIPS

ESTABLISHED AND SUPPORTED BY VARIOUS MEMORIAL DONATIONS

Not to be offered, 1956-1957.

UNIVERSITY OF CALIFORNIA ALUMNI ASSOCIATION, PHARMACY
CHAPTER SCHOLARSHIPGIVEN BY THE PHARMACY CHAPTER OF THE
UNIVERSITY OF CALIFORNIA ALUMNI ASSOCIATION

Appointment deferred.

UNIVERSITY OF CALIFORNIA MOTHERS' CLUB SCHOLARSHIP

GIVEN BY THE UNIVERSITY OF CALIFORNIA MOTHERS' CLUB

Sandra Neelson, Freshman, Letters and Science, Berkeley.

†Clarence Anthony Williamson, Freshman, Letters and Science, San Leandro.

‡ Spring semester only, 1957.

SARA UNNA MEMORIAL MUSIC SCHOLARSHIPS
ESTABLISHED UNDER THE WILL OF ROSE JACOBS FOR THE
BENEFIT OF STUDENTS IN MUSIC

Janet Beryl Goodman, Freshman (Applicant), Letters and Science, Oakland.
Constance Sk Guork, Junior, Letters and Science, San Francisco.

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

Arlen Dale Lackey, Freshman (Applicant), Engineering, Riverside.
Daniel Straus, Freshman (Applicant), Letters and Science, Berkeley.

VARIOUS DONORS SCHOLARSHIP
ESTABLISHED BY VARIOUS DONORS

Not to be offered, 1956-1957.

SUSIE VOORHIES MEMORIAL SCHOLARSHIP
ESTABLISHED BY EDWIN C. VOORHIES IN MEMORY OF HIS MOTHER,
SUSIE VOORHIES

Appointment deferred.

AARON N. WACHS AND ANNIE N. WACHS SCHOLARSHIPS
ESTABLISHED BY THE WACHS REALTY COMPANY OF OAKLAND FOR THE
BENEFIT OF RESIDENTS OF ALAMEDA COUNTY

Charles Douglas Lummis, Junior, Letters and Science, Berkeley.
Frank Salvatore Vigilante, Senior, Engineering, Berkeley.

CHARLES PETER WEEKS SCHOLARSHIP IN ARCHITECTURE
ESTABLISHED BY THE WILL OF MRS. BEATRICE W. WEEKS
IN MEMORY OF HER HUSBAND

Not to be offered, 1956-1957.

OSCAR WEIL MEMORIAL SCHOLARSHIP
ESTABLISHED BY THE TRUSTEES OF THE OSCAR WEIL SCHOLARSHIP FUND
Allen Monroe Kanouse, Jr., Senior, Letters and Science, Berkeley.

ISIDOR WEINSTEIN MEMORIAL SCHOLARSHIP
ESTABLISHED IN HONOR OF THE LATE ISIDOR WEINSTEIN
Delores Gladys Pesusich, Freshman (Applicant), Letters and Science, San Francisco.
Gary Wayne Schaffer, Freshman (Applicant), Letters and Science, San Francisco.
‡Beverly Rose Stocker, Freshman (Applicant), Letters and Science, San Francisco.

WEST COAST ELECTRONIC MANUFACTURERS'
ASSOCIATION SCHOLARSHIP
GIVEN BY THE WEST COAST ELECTRONIC MANUFACTURERS' ASSOCIATION
Appointment deferred.

WESTERN ELECTRIC SCHOLARSHIP
GIVEN BY THE WESTERN ELECTRIC COMPANY
Robert Nile Olsen, Junior, Engineering, Eureka.

AGNES MATILDA WILSON SCHOLARSHIP
ESTABLISHED BY MAJOR GENERAL ARTHUR R. WILSON, U. S. A. (RET.),
IN MEMORY OF HIS MOTHER
Gary Dean Aldrich, Freshman (Applicant), Engineering, Oroville.
Barbara Ann Reina, Freshman (Applicant), Architecture, Oroville.

‡ Spring semester only, 1957.

Undergraduate Scholarships

ALLAN D. WILSON MEMORIAL SCHOLARSHIPS
ESTABLISHED BY A BEQUEST OF AMELIA E. S. WILSON
IN MEMORY OF HER HUSBAND

John Rogers Creighton, Senior, Engineering, San Mateo.
 Thomas E Dillon, Senior, Engineering, Berkeley.
 Frederick Wesley Schorr, Junior, Engineering, Downey.

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
 Victor Marcus McLind, Freshman (Applicant), Engineering, Sonora.
 David Meyer Newby, Freshman (Applicant), Letters and Science, San Luis Obispo.

WOMEN'S AUXILIARY OF THE EAST BAY DENTAL
SOCIETIES SCHOLARSHIPS
GIVEN BY THE WOMEN'S AUXILIARY OF THE EAST BAY DENTAL SOCIETIES
 *John J Baccelli, Junior, Dentistry, San Francisco.

WOMEN'S AUXILIARY OF THE SANTA CLARA COUNTY
DENTAL SOCIETY SCHOLARSHIP
GIVEN BY THE WOMEN'S AUXILIARY OF THE SANTA CLARA COUNTY
DENTAL SOCIETY
 *Marvin D Dearth, Senior, Dentistry, San Francisco.

LEOPOLD EDWARD WRASSE SCHOLARSHIPS
ESTABLISHED BY MR. LEOPOLD EDWARD WRASSE
 *Margaret Krestine Dickinson, Junior, Agriculture, Doyle.
 *Sharon Evelylin Lewis, Junior, Agriculture, Montrose.
 *Karen Charlene Mays, Junior (Applicant), Agriculture, Porterville.
 *Richard Harold Ramsey, Junior, Agriculture, San Francisco.

YOUNG FOODSTERS' SCHOLARSHIP
GIVEN BY YOUNG FOODSTERS OF RICHMOND, CALIFORNIA
 Appointment deferred.

NESHAN ZOVICK SCHOLARSHIPS
ESTABLISHED BY THE WILL OF NESHAN ZOVICK
 Diana Vesta Torykian, Sophomore (Applicant), Letters and Science, Vallejo.
 Robert Edward Vahouny, Sophomore (Applicant), Letters and Science, Sanger.

* At Davis.

* At San Francisco.

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UNIVERSITY OF CALIFORNIA
LOS ANGELES

THE
THIRTY-SEVENTH
COMMENCEMENT



JUNE 9, 1956

LOS ANGELES



UNIVERSITY OF CALIFORNIA
LOS ANGELES

THE
THIRTY-SEVENTH
COMMENCEMENT

SOUTH OF THE DICKSON ART CENTER



JUNE 9, 1956

STAR-SPANGLED BANNER

Oh, say can you see, by the dawn's early light,
What so proudly we hailed at the twilight's last gleaming,
Whose broad stripes and bright stars, thro' the perilous
fight
O'er the ramparts we watched were so gallantly streaming
And the rocket's red glare, the bombs bursting in air,
Gave proof thro' the night that our flag was still there.
Oh, say, does that star-spangled banner yet wave
O'er the land of the free and the home of the brave?

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!

HAIL, BLUE AND GOLD

Hail, Blue and Gold!
In proud acclaim lend your voices.
Let the blue hills t'ward the West
Resound the echo to the sea.
Hail, Blue and Gold!
Our Alma Mater rejoices.
California of the South,
Accept this pledge of faith to thee.

Immediately following the Commencement Exercises graduating students, their relatives and friends are invited to attend a reception given by the Administration and Faculty of their college. For your convenience a list of these receptions is printed below:

*School of Law
Student Lounge, Law Building
College of Letters and Sciences
Music Building Foyer
College of Applied Arts
Dickson Art Center
School of Social Welfare
Women's Green, Women's Physical
Education Building*

*College of Engineering
Subtropical garden, northeast of
Engineering Building
School of Public Health
Temporary Building 3T Foyer
School of Nursing
Medical Center Student Lounge*

PROGRAM OF THE COMMENCEMENT

PRESIDING—*Chancellor Raymond B. Allen*

PROCESSIONAL—*Trumpet Voluntary Purcell*

NATIONAL ANTHEM

INVOCATION

DR. CARROLL L. SHUSTER
Executive Secretary
Synod of California
Presbyterian Church, Southern Area

SENIOR ADDRESS

MARSHAL FICHMAN

GRADUATE STUDENT ADDRESS

STANLEY FREDEN

AWARD OF ARMY, NAVY, AND

AIR FORCE COMMISSIONS

RILEY F. ENNIS
Major General, United States Army
Deputy Commander, Sixth Army Area

CHANCELLOR'S FAREWELL TO THE GRADUATES

RAYMOND B. ALLEN
Chancellor, Los Angeles Campus

CONFERRING OF UNDERGRADUATE DEGREES

ALUMNI AWARD

HAIL TO CALIFORNIA

CONFERRING OF GRADUATE DEGREES

CONFERRING OF HONORARY DEGREE

THE PRESIDENT'S ADDRESS

ROBERT GORDON SPROUL
President of the University

HAIL, BLUE AND GOLD

BENEDICTION

RECESSIONAL

Pomp and Circumstance Elgar

. The audience is requested to remain seated at the end of the exercises
until the faculty has left the Parterre.

ACADEMIC DRESS is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. Ecclesiastical dress in turn is of Roman origin, being like the costume of the Roman Senator, the Pontifex Maximus, and other officials. 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. According to Horsely, he was "addicted to a life of study and devotion." 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 has been variously known through the centuries as the toga, the roba, or the tunica talaria. It 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 Ellsmere MS, Chaucer's clerk of Oxenford appears in a red skull cap, 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 was worn in the United States in black and lined with the colors of the university, e.g., blue and gold for the University of California hoods. The color of the band along the outer edge indicates the scholar's field of learning. Thus the degree of Letters or Arts is symbolized by white, Theology by scarlet, Law by purple, Philosophy by blue, Science by gold, Medicine by green, Public Health by salmon pink, Engineering by orange, Dentistry by lilac.

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UNIVERSITY OF CALIFORNIA
Los Angeles, 1955-1956
CERTIFICATES, DEGREES,
AND HONORS

In this list the superior figure ¹ denotes awards of August 13, 1955; ² denotes awards of September 10, 1955; ³ denotes awards of January 26, 1956; all other awards were granted June 6, 1956.

DEGREES CONFERRED
COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Salman Jaffar Al-Ansari.....	Subtropical Horticulture.....	Basrah, Iraq
¹ Saib Amin Al-Omary.....	Subtropical Horticulture.....	Baghdad, Iraq
Nasir Hasson Al-Rubaie.....	Subtropical Horticulture	Baton Rouge, Louisiana
³ Emmo Robert Bichowsky.....	General Horticulture.....	Temple City
¹ David J Little.....	General Horticulture.....	Alhambra
² Joseph Pruginin	Floriculture and Ornamental Horticulture.....	Jerusalem, Israel
Arthur William Shepherd.....	Floriculture and Ornamental Horticulture.....	North Hollywood
¹ Mahdi Muhammad Hasan Shukur..	Subtropical Horticulture.....	Baghdad, Iraq
² Joseph Kabtzan Zaphrir.....	Subtropical Horticulture.....	Billu, Israel

COLLEGE OF APPLIED ARTS

The Degree of Bachelor of Arts upon

¹ John Kiyoshi Akai.....	Art	Los Angeles
Sonya Ebsen Albert.....	Theater Arts.....	Pacific Palisades
Roberta Joyce Allen.....	Theater Arts.....	Whittier
Edward Radford Baker.....	Art	Long Beach
¹ Ernest Baron	Theater Arts.....	Los Angeles
Joaquin Bascon	Art	North Hollywood
³ Betty Passmore Bass.....	Art	Beverly Hills
¹ Jack White Bateman.....	Art	Los Angeles
² Kathleen Marion Batistich.....	Art	Sacramento
¹ Thomas Arthur Bauer.....	Theater Arts.....	Glendale
³ Phyllis Louise Beaupré.....	Music	San Pedro
Richard Eugene Beckwith.....	Theater Arts.....	Elmira, New York
³ Grace Marian Belcher.....	Music	San Gabriel
² James Bellah.....	Theater Arts.....	Van Nuys
Sandra Beverly Berg.....	Theater Arts.....	Los Angeles
² Bernard Bergal.....	Music.....	Santa Monica
¹ Wesley Bilson.....	Theater Arts.....	Los Angeles
Theodore Bogdanos.....	Theater Arts.....	San Leandro
Deron Donald Bogosian.....	Art	Los Angeles
Susan Spencer Braun.....	Art	Beverly Hills
² Tony Busching	Art	Los Angeles
Kenneth Wayne Bushnell.....	Art	Sun Valley

³ James O Wentworth Butcher.....	Theater Arts.....	Riverside
Bernard Caminker	Art	Los Angeles
³ Tamar June Capelouto.....	Music	Los Angeles
Florine H Caplan.....	Theater Arts.....	Los Angeles
Donald Victor Carleson.....	Art	Long Beach
¹ Marian Louise Carlson.....	Art	San Leandro
Lee Allen Carnahan.....	Art	Long Beach
⁸ Louis Francis Casale.....	Theater Arts.....	Southington, Connecticut
⁵ Crawford Neill Cate.....	Art	Los Angeles
Lyle Hamilton Clark.....	Art	Los Angeles
¹ Nancy Hammond Cockley.....	Music.....	Portland, Oregon
³ Harold Charles Cohen.....	Art	Los Angeles
³ Joel Edward Colman.....	Theater Arts.....	Salt Lake City, Utah
James Brewster Abbott Conklin.....	Theater Arts.....	Long Beach
³ Diane Dale Coplen.....	Theater Arts.....	Los Angeles
⁸ Ana Cornejo	Music	Canoga Park
³ Carol Joy Cornell.....	Art	Los Angeles
Virginia Lynne Cornell.....	Art	Los Angeles
Donald Winstone Cornell.....	Art	Encino
³ James Watson Crandall.....	Art	Glendale
James Allin Cross.....	Art	Arcadia
Anne Crowell.....	Theater Arts.....	Glendale
Donald Warren Crum.....	Music	Long Beach
Donald Alan Davis.....	Theater Arts.....	Sacramento
³ Margaret Joyce Decker.....	Art.....	Palm Springs
² Kathleen Dagmar DeGuard.....	Art	North Hollywood
¹ David Deitch	Theater Arts.....	New York, New York
Elaine Emma deLavallade.....	Art	Los Angeles
³ Brent Lovell DeMonte.....	Theater Arts.....	La Verne
³ José Francisco deSoto.....	Music	Beverly Hills
¹ Mildred Ellen Deyo.....	Art	North Hollywood
¹ Robert Donald Doubleday.....	Theater Arts.....	Los Angeles
Richard John Dufallo.....	Music.....	San Diego
² Marjorie Ann Elliott.....	Theater Arts.....	Canoga Park
Shirley Ann Englund.....	Art.....	Seattle, Washington
Ruth Ida Louise Estler.....	Theater Arts.....	La Crescenta
Ronald Michael Fenton.....	Theater Arts.....	Los Angeles
James Adolfo Jo Fitzgerald.....	Art	Camarillo
¹ Sally Jane Fletcher.....	Art	Sacramento
Norman Bruce Follette.....	Music	Encino
Ming Gai Fong.....	Art	Los Angeles
Patricia Ann Fox.....	Art.....	Honolulu, Territory of Hawaii
² Nadine Carol Friedman.....	Art	Los Angeles
Bettie Louise Garino.....	Art	Roseville
² Ian Kinloch Gatley.....	Art	Torrance
Marrlyn DeBonis Garrett.....	Art	Berkeley
Ronald Gary Geller.....	Art	Los Angeles
Nancy Maria Germano.....	Theater Arts.....	Mishawaka, Indiana
² Beverly Ann Gibson.....	Art	Eugene, Oregon
³ Angelita Gitelson	Music	Los Angeles
Peter Barnard Gruenberg.....	Theater Arts.....	Los Angeles
Martha Merrill Gruver.....	Art	Torrance
³ Lynda Lee Greenwald.....	Music	Los Angeles
² David Carl Groot.....	Art	Whittier
³ Lyla Grossman	Art	Los Angeles
Suzanne Hall	Theater Arts.....	Los Angeles
² Martin Jack Hamos.....	Art	Los Angeles
³ Jacqueline Miller Haney.....	Theater Arts.....	Santa Monica
William Thomas Hanson, Jr.....	Theater Arts.....	East Gadsden, Alabama
Beverly Ann Harrington.....	Art	Napa
Alvie Cecil Hedrick.....	Art	Montcalm, West Virginia
Herbert Heimann	Theater Arts.....	Los Angeles

	Harry Joseph Heltzer	Theater Arts	North Hollywood
¹	Joan Muriel Helfman	Theater Arts	Sherman Oaks
²	William Garland Herrold, Jr.	Music	Santa Barbara
	Marguerite Esta Higgins	Art	National City
	Yoko Hirohata	Art	Los Angeles
	Thomas Hardy Hoffman	Theater Arts	Los Angeles
	Phyllis Padmini Hoisington	Music	Selangor, Malaya
²	Evelyne Joyce Holsman	Theater Arts	Ontario
	Joanne Birdie Hoas	Art	El Cajon
³	Paul Gilbert Iffrig	Art	Pasadena
	Laurence Kenneth Irion	Music	Los Angeles
¹	Benjamin Theodore Jackson	Art	Pasadena
	Lois Marie Johnson	Theater Arts	Arcadia
	Margaret Christine Johnson	Theater Arts	Lafayette
	Naomi Anne Johnson	Art	Los Angeles
	Karolynne Anita Jong	Art	Pomona
	Donald Frederick Kapp	Art	Pasadena
¹	Diane Elizabeth Karma	Theater Arts	Alhambra
	Israel Joseph Katz	Music	Santa Barbara
	Thomas Edwin Kendall	Music	Los Angeles
²	Sylvia Joyce Keosheyan	Art	Fresno
	Leslie William Kerr	Art	La Canada
	Diane Elise Kilham	Art	Altadena
	Mary Perkins King	Art	Santa Monica
	Barry Allen Kittleson	Music	St. Paul, Minnesota
	Albert Paul Knoch	Art	Saugus
	Remi Thomas Kramer	Art	Los Angeles
²	Michael Kraynyk	Art	Los Angeles
	Sandra Jo Kutin	Art	North Hollywood
¹	Edward Harold Laddin	Art	West Hollywood
³	Jean Fleming Lambert	Art	Beverly Hills
	Richard Earl Lane	Art	Van Nuys
³	Joyce Ann Larson	Art	La Crescenta
	Carol Ethyl Lebeck	Art	Santa Monica
	William Ervin LeBlanc	Music	Corcoran
	Theodore Richard Lehmann	Theater Arts	Los Angeles
	James Jerome Lehr	Theater Arts	Los Angeles
³	Julius Lepkowsky	Art	Los Angeles
²	Ada Louise Levine	Theater Arts	Los Angeles
¹	Betsy Fae Lillywhite	Music	Los Angeles
	Gerald Jay Linkin	Theater Arts	Watertown, Massachusetts
²	Edward Robert Lombardo	Music	San Gabriel
	Jeanette Maria López	Art	Torrance
	Raymond John Louie	Art	Los Angeles
²	Philip Alan Lowitz	Art	Los Angeles
	Carolyn Parks Lowry	Theater Arts	Santa Rosa
	Louis Lyttle Lunetta	Art	Los Angeles
¹	Kathleen Carol Lyden	Art	Van Nuys
²	Sebastian Joseph Marino	Music	Los Angeles
	Dorothy A Mark	Music	Pasadena
²	Paul Marks	Music	Los Angeles
	Sandra Marrett	Theater Arts	Glendale
¹	Nina Skolsky Marsh	Theater Arts	Los Angeles
¹	Betty Jean Matta	Theater Arts	Los Angeles
²	Madeline Rosaly Mayer	Art	Los Angeles
	Marian Lee McAnally	Art	Roseville
²	Linda Dornan McCausland	Art	Sherman Oaks
²	Dick McFarland	Theater Arts	Los Angeles
	Muriel Lorene McFarland	Music	Beverly Hills
²	Thomas Ross McFarland, Jr.	Art	Reseda
	Elizabeth Sherman McKown	Art	Monrovia

Joanne Trunick McMaster.....	Art	Altadena
² Bernard Joseph Merholz.....	Theater Arts.....	Chicago, Illinois
George Christopher Miladin.....	Music	Santa Monica
¹ Elsa Renée Miller.....	Theater Arts.....	Los Angeles
² Robert Alan Miller.....	Theater Arts.....	Los Angeles
¹ William John Miller.....	Theater Arts.....	Fontana
Thomas Laird Mills.....	Theater Arts.....	Fillmore
William David Moyé.....	Art	Los Angeles
Ronald Lynn Munns.....	Theater Arts.....	Los Angeles
Harry Nadler	Art	Los Angeles
Joan Neff	Art	Santa Ana
² Ailine Frances Nestor.....	Art.....	Norfolk, Virginia
Cadence Diana Neuffer.....	Art.....	Huntington Park
Angelita Winona Nicholas.....	Art	Los Angeles
² John Ernest Nicholson	Music	San Gabriel
¹ Carroll Emmanuel Nyquist.....	Theater Arts.....	Inglewood
¹ Gerald Keith O'Kane.....	Art	La Canada
Anne Louise Olney.....	Art	Gardena
Janet Eleanor Orth.....	Art	South Pasadena
² Marilyn Loretta Pastore.....	Music	Los Angeles
George James Pearson, Jr.....	Art.....	Detroit, Michigan
Joyce Lou Peck.....	Art	Los Angeles
² Maureen Mae Petersen.....	Art.....	Santa Monica
Barbara Anne Phillippi.....	Art	North Hollywood
Richard William Pickar.....	Music	Los Angeles
² Alva Katherine Pittman.....	Art	Los Angeles
² Abe Polsky	Theater Arts.....	Venice
Shirley Lee Porter.....	Art	Northridge
² Ann Marie Powers.....	Music	Los Angeles
² Craig Carl Protsman.....	Art	Los Angeles
Gary Lawrence Pudney.....	Theater Arts.....	North Hollywood
¹ Harriette Jewel Quam.....	Music	Los Angeles
Ann May Robinson.....	Music	Pasadena
¹ Stuart Joel Roe.....	Theater Arts.....	Hollywood
Frederick Ried Roos.....	Theater Arts.....	Los Angeles
¹ Mitchell S Rose.....	Theater Arts.....	Los Angeles
² Charles Henry Rosenthal.....	Art	Los Angeles
¹ Sheldon Rudolph	Theater Arts.....	Los Angeles
Mignon Louise Ryan.....	Theater Arts.....	Huntington Park
² Gerald Dale Samuelson.....	Art	Redondo Beach
² Tanya Sander	Theater Arts.....	Baltimore, Maryland
Shirley May Scantland.....	Art	Los Angeles
Fred William Schick.....	Art	Manhattan Beach
² Robert Orville Schulerberg.....	Art	Fresno
Eugene Edward Scott, Jr.....	Theater Arts.....	St. Paul, Minnesota
Gordon D Scott.....	Theater Arts.....	Pasadena
² Archie B Sharp, Jr.....	Theater Arts.....	Los Angeles
Kikuko Shida	Art	Los Angeles
Loren Arthur Shirar.....	Art	Pasadena
² Julian Jack Shniderson.....	Art	Los Angeles
Robert Murray Silberling.....	Theater Arts.....	Los Angeles
Robert Wayland Small.....	Music	Oakland, Maine
¹ Lee Oran Smith.....	Theater Arts.....	Sacramento
Miriam Sommers	Art	Los Angeles
Rene Soriano	Art.....	San Diego
Zena Esther Stanten.....	Theater Arts.....	Los Angeles
² Martha Steiman	Art	Los Angeles
² Victor H Stonick.....	Theater Arts.....	Fontana
² Edward Clarence Stromgren.....	Theater Arts.....	Portland, Oregon
¹ Arthur Mickey Suchesk.....	Theater Arts.....	Encino
Kimie Tashima	Art	San Gabriel

² Beatrice Jane Terzian.....	Art	Altadena
Dana Lou Tharp.....	Art	Los Angeles
Ray Frank Thiele.....	Theater Arts.....	Ventura
Charles Flint Thomas.....	Music	Los Angeles
² William Gordon Thomas.....	Theater Arts.....	Hollywood
Marian Matilda Titangos.....	Theater Arts.....	Hollywood
² William Roy Tobias.....	Art	Los Angeles
John Edmund Townsend.....	Theater Arts.....	Detroit, Michigan
¹ Neah Trivus	Theater Arts.....	Los Angeles
Marion Evelyn Troyer.....	Theater Arts.....	Walnut Creek
William Alban Ulman.....	Art	Los Angeles
² William James Urmstrom.....	Art.....	Santa Monica
² Tim Minoru Uyeda.....	Art	Lancaster
² Tomomi Watanabe	Art	San Dimas
² Ruth Ellen Waugh.....	Art	Los Angeles
¹ Daniel Eugene Weisburd.....	Theater Arts.....	Los Angeles
² James Robert Whitwood.....	Music	Los Angeles
² Thomas Charles Williamson.....	Art	Los Angeles
Robert Paul Wilson.....	Art	Laguna Beach
Robert Adair Winslow.....	Music.....	Denver, Colorado
² Barbara Jeanne Woll.....	Theater Arts.....	Port Hueneme
Flora Jean Woodbridge.....	Art.....	El Monte
¹ Richard Carleton Worth.....	Theater Arts.....	San Marino
James Youhill.....	Music	Los Angeles
¹ Beverly Jean Zaneline.....	Theater Arts.....	Pacoima

COLLEGE OF APPLIED ARTS

The Degree of Bachelor of Science upon

Katherine Wilds Shuttleworth Adams	Apparel Merchandising.....	Los Angeles
Dolores Jean Alexander.....	Physical Education.....	Los Angeles
² Elizabeth Brooke Allen.....	Business Education.....	San Fernando
Mary Geraldine Allen.....	Business Education.....	Hollywood
² William Ray Allen.....	Business Education.....	Visalia
Jimmie Neal Amberson.....	Business Education.....	Burbank
² Barbara Louise Anderson.....	Physical Education.....	Los Angeles
² Lorna Call Anderson.....	Physical Education.....	Salt Lake City, Utah
Patricia Lucille Andrews.....	Physical Education.....	Alhambra
² Alexander Andros, Jr.....	Physical Education.....	Burbank
Janice Maureen Antram.....	Home Economics.....	Los Angeles
Donald Taploff Arnett.....	Physical Education.....	Redondo Beach
² Jean Elizabeth Arnett.....	Home Economics.....	Los Angeles
Suebelle Schlossman Arrowsmith.....	Physical Education.....	Los Angeles
Janet Nadine Ashton.....	Physical Education.....	Los Angeles
² Joan Shirley Augspurger.....	Apparel Merchandising.....	Hollywood
Jacqueline Claire Auldridge.....	Business Education.....	Alhambra
Dorothy Joyce Bane.....	Business Education.....	Alhambra
² Ronald Lee Bane.....	Business Education.....	Alhambra
Theodore Herrington Banks.....	Physical Education.....	San Gabriel
¹ Joy Alva Beane.....	Apparel Merchandising.....	Lynwood
² Elizabeth Mildred Bellue.....	Physical Education.....	La Crescenta
² Henry Warner Benjamin, Jr.....	Physical Education.....	San Diego
Betty Graves Bergen.....	Business Education.....	Los Angeles
² Janet Frances Berger.....	Business Education.....	Beverly Hills
Lucile Kathryn Black.....	Business Education.....	Los Angeles
Patricia Anne Blake.....	Apparel Merchandising.....	San Francisco
² Sirag Sam Boghosian.....	Physical Education.....	Fresno
Patricia Lou Bollin.....	Physical Education.....	Reedley
Robert Scotten Bonheim.....	Physical Education.....	Los Angeles

	Joanne Elinor Bowen.....	Physical Education.....	San Diego
³	Jack Carris Boyer.....	Physical Education.....	Los Angeles
³	Betty June Bradlyn.....	Home Economics.....	Venice
	Richard Braunbeck.....	Physical Education.....	Inglewood
	Jane Bickford Brown.....	Home Economics.....	Huntington Park
¹	Jean Merlyn Brown.....	Physical Education.....	Los Angeles
³	Joan Louise Brown.....	Business Education.....	Los Angeles
³	Melba V Brown.....	Physical Education.....	La Crescenta
³	Sallie Ann Brown.....	Physical Education.....	Los Angeles
	Richard Tod Burns.....	Physical Education.....	San Gabriel
	Eveline Eloise Howeth Campbell.....	Home Economics.....	Los Angeles
	Lorraine Marie Campbell.....	Physical Education.....	Los Angeles
³	Elinor Jane Campodonico.....	Physical Education.....	Delhi
³	Richard Arthur Carlson.....	Business Education.....	Orange
	Robert Gowen Carne.....	Physical Education.....	Redondo Beach
	Lee Edna Caseldine.....	Physical Education.....	Culver City
¹	Joanne Theresa Churchill.....	Home Economics.....	Arcadia
³	Joseph Arthur Cline.....	Physical Education.....	Los Angeles
	Dorothy Major Cloud.....	Business Education.....	La Jolla
	Jimmie Sue Coombs.....	Home Economics.....	Glendale
³	Peter Glenn Covington.....	Physical Education.....	Ontario
	William Robert Cox.....	Physical Education.....	Bellflower
	Joan Delores Crisp.....	Physical Education.....	Riverside
	Barbara Kurson Cullom.....	Home Economics.....	Santa Monica
	John Revell Dailey.....	Physical Education.....	Tustin
¹	Don Roger Daniels.....	Business Education.....	Los Angeles
³	Louisa Jane David.....	Business Education.....	Glendale
	Elise Davis.....	Apparel Merchandising.....	New Iberia, Louisiana
³	Nancy Joan DeMaranville.....	Business Education.....	Burbank
	John Andrew DePaoli.....	Physical Education.....	Holtville
	Martha Sue Dickman.....	Business Education.....	Los Angeles
¹	Joyce Dickson.....	Business Education.....	Los Angeles
³	Martha Buchanan Dickson.....	Business Education.....	Los Angeles
	Peter Lee Dixon.....	Physical Education.....	Santa Monica
	James David Douglas.....	Physical Education.....	Los Angeles
³	Harry Dresser.....	Physical Education.....	Los Angeles
	Charles Robert Durr.....	Business Education.....	Pasadena
	Marlene Josephine Edwards.....	Physical Education.....	Los Angeles
	Coralie Joyce Ekdahl.....	Home Economics.....	Riverside
	Sylvia Jean Enslow.....	Home Economics.....	Los Angeles
	Howard Elliott Enstedt.....	Physical Education.....	Los Angeles
³	Jack Epstein.....	Physical Education.....	Santa Monica
³	Donald Mervin Faber.....	Physical Education.....	Los Angeles
³	Lillian Jean Ferguson.....	Home Economics.....	Los Angeles
	Jane Ferrie.....	Apparel Merchandising.....	Modesto
³	James Allen Field.....	Business Education.....	San Pedro
	Natalie Fischer.....	Physical Education.....	Los Angeles
	Marlene L Foltz.....	Business Education.....	Hollywood
¹	Floyd Clarence Forrand.....	Physical Education.....	Glendale
¹	Artemise Marie Foster.....	Physical Education.....	Santa Monica
³	Ronda Mae Frazier.....	Home Economics.....	Pasadena
	Janet Lee Frederick.....	Business Education.....	Downey
	JoAnne Myrleen Freed.....	Business Education.....	San Diego
	Barbara Anne Gehring.....	Home Economics.....	Arcadia
	Myron Charles Gerber.....	Physical Education.....	Los Angeles
¹	Elizabeth Louise Gertsch.....	Apparel Merchandising.....	Glendale
	Muriel Mimi Gold.....	Apparel Design.....	Los Angeles
	Karl Grasser.....	Physical Education.....	Hochfelden, France
³	Patricia Diane Greaney.....	Home Economics.....	Barstow
³	Evelyn Patricia Greeley.....	Physical Education.....	Los Angeles
¹	Benton David Greene.....	Physical Education.....	South Gate

Joan Elizabeth Griffith	Apparel Merchandising	Redding
¹ Jacqueline Eugene Gueringer	Home Economics	New Orleans, Louisiana
Bonnie Joyce Haack	Physical Education	Los Angeles
³ Berge Verge Hagopian	Physical Education	Los Angeles
Karla Helene Hale	Physical Education	Long Beach
Sallie Lou Hamiel	Business Education	Los Angeles
Sandra Bernice Hanauer	Apparel Merchandising	Encino
Margaret Colleen Hancher	Apparel Design	San Bernardino
Shirley Irene Hannah	Home Economics	Burbank
¹ Arline Louise Hans	Home Economics	Los Angeles
² Monta Lee Virginia Harvey	Physical Education	Los Angeles
Carolyn Adele Hasty	Physical Education	Pacific Palisades
³ Ray McKee Helstrom	Apparel Merchandising	Los Angeles
John William Hermann	Physical Education	San Fernando
³ Margarita Herrera	Physical Education	Los Angeles
Peggy Lucille Higgins	Business Education	Norwalk
³ Raymond Joslyn Hitchcock	Business Education	Encino
Mary Alice Hoffmann	Physical Education	Los Angeles
Emily Ann Holladay	Apparel Merchandising	Altadena
George Joseph Holland	Physical Education	Los Angeles
John Stephen Hook	Physical Education	Santa Monica
Roberta Lee Horowitz	Business Education	Long Beach
Shirley Ann Hough	Business Education	Pasadena
³ Janice Adele Howard	Home Economics	San Bernardino
Arthur Gerton Hweg	Physical Education	Montebello
Richard Eugene Huffman	Physical Education	Los Angeles
William Emory Hughes	Business Education	San Gabriel
Harriet Frances Hugos	Physical Education	San Marino
Beverly Ruth Hunt	Business Education	Lost Hills
³ Cecilia Victoria Jackowski	Apparel Design	North Hollywood
³ Eleanor Ann Jackson	Home Economics	Santa Ana
³ Margaret Rose Jackson	Home Economics	Los Angeles
David John Jacobs, Jr.	Physical Education	Pasadena
Sandra Nutt Jacobs	Physical Education	Van Nuys
Eileen Jennings	Apparel Design	Santa Monica
Clarann Johnson	Home Economics	Riverside
Evelyne Nadine Johnson	Physical Education	Pasadena
¹ Gale L Johnson	Home Economics	Redlands
³ Joan Phyllis Johnson	Home Economics	Glendale
³ Lois Ruth Johnson	Apparel Design	Los Angeles
³ Wayne Carl Johnson	Physical Education	San Mateo
³ James Robert Johnston	Business Education	Hollywood
³ Oliver Robson Jones	Physical Education	Los Angeles
Norman Milton Kabbani	Physical Education	Los Angeles
Jean Yoshiko Kageyama	Physical Education	Los Angeles
Shirley Jean Roberts Kanagy	Business Education	Los Angeles
³ Irwin Edward Kasten	Physical Education	Torrance
Edward Martin Kauder	Physical Education	Los Angeles
³ Ida Mae Keaton	Business Education	Sherman Oaks
³ Charlotte Jean Keel	Home Economics	Santa Monica
³ Roberta Nancy Kern	Home Economics	Los Angeles
¹ Jean Miriam Kilgore	Apparel Design	Glendale
Neta Mae Kleaveland	Apparel Merchandising	Maywood
Maureen Ione Knauf	Physical Education	Corona
³ Richard Rudolph Knight	Physical Education	Venice
JoAnn Marie Kos	Apparel Merchandising	Temple City
Hazel Setsuko Kuriyama	Business Education	Los Angeles
³ Elaine Friedkin Kvitka	Home Economics	Los Angeles
¹ Hannah Joan Kyker	Home Economics	Redondo Beach
Arthur Douglas Lafferty, Jr.	Physical Education	La Canada
Delta Jeanne Lancaster	Home Economics	Santa Ana

Bachelors—Applied Arts

	Minnette Sandra Langfelder.....	Home Economics	San Francisco
²	Sara Jane Lapidus.....	Physical Education.....	Los Angeles
	Joan Holly Larson.....	Home Economics	San Marino
¹	Hal Cella Laudeman.....	Apparel Design.....	Torrance
	Virginia Mae King Lemoine.....	Physical Education.....	Los Angeles
³	Lois Ann Levin.....	Home Economics	Sherman Oaks
¹	David Alan Levy.....	Physical Education.....	Long Beach
	Marilyn Jean Lewis.....	Apparel Merchandising	Northridge
	Martha Jane Lindgren.....	Home Economics	Riverside
	Carmen Maria López.....	Physical Education.....	Altadena
¹	Akiko Lotspeich.....	Business Education.....	Northridge
³	Kenneth Warren Lucht.....	Physical Education.....	Santa Monica
³	Darla Noreen Luckenbill.....	Business Education	Long Beach
³	Harry Thorbjorn Lund.....	Physical Education.....	Los Angeles
³	Tony Magnante.....	Physical Education.....	Los Angeles
¹	Victor Angela Manca.....	Business Education.....	Seattle, Washington
	George Phillip Martin.....	Physical Education.....	Los Angeles
¹	Constance Joan Mason.....	Business Education.....	Compton
	Alice Ann Massey.....	Physical Education.....	Berkeley
	Katherine M Matthews.....	Business Education.....	Manhattan Beach
	Jane Maxfield.....	Apparel Design	Los Angeles
¹	Rachel Annette McDonald.....	Physical Education.....	Harbor City
	Betty Louise McDowell.....	Apparel Merchandising	Long Beach
³	Walter Hugh McMullen, Jr.....	Business Education.....	Los Angeles
	Marilynn Janet McMullin.....	Physical Education.....	Los Angeles
	Shirley May McPheeters.....	Physical Education	Sherman Oaks
	Kay Rae Mercer.....	Home Economics.....	Hollywood
	Donald Campbell Molloy.....	Physical Education.....	Long Beach
	Adrienne Jean Money.....	Physical Education.....	Los Angeles
	George Kevork Mooradian.....	Business Education.....	Pasadena
¹	Ruby Lee Morgan.....	Home Economics.....	Los Angeles
	James Morrow.....	Business Education.....	Beverly Hills
³	Sally Beth Mosher.....	Physical Education	Glendale
	Rhoda Claire Moss.....	Business Education.....	Long Beach
	Joan Frances Myatt.....	Physical Education	Pasadena
	Ellen Sofie Nielsen.....	Home Economics	Inglewood
	Marilyn Jean O'Connor.....	Business Education.....	Los Angeles
³	Bonnie Ann Seher Ottoman.....	Business Education.....	Los Angeles
¹	Joanne Ruby Owens.....	Physical Education.....	Whittier
	David Miles Parrish.....	Physical Education.....	Los Angeles
¹	Louis Paul.....	Physical Education.....	Los Angeles
¹	Doris Lucille Pauley.....	Physical Education.....	Whittier
³	Lelia Mary Pearson.....	Apparel Merchandising.....	Los Angeles
³	Donald Linden Perry.....	Physical Education.....	Pasadena
³	Betty Jane Pitman.....	Business Education.....	Los Angeles
	May Tew Pon.....	Business Education.....	Pasadena
	Peggy Smythe Poppen.....	Physical Education.....	Los Angeles
	Gail Joan Price.....	Apparel Merchandising.....	Pacific Palisades
³	William Walker Pringle.....	Physical Education.....	Los Angeles
³	Marilyn Frances Razner.....	Physical Education.....	San Bernardino
	Eugenia A Regan.....	Home Economics.....	Hamtramck, Michigan
¹	Donna Lu Rhoades.....	Business Education.....	Temple City
	Harriett Charlotte Rice.....	Business Education.....	Los Angeles
	Jane Ann Rich.....	Physical Education.....	North Hollywood
	Linda Lee Richardson.....	Business Education.....	Los Angeles
³	Martha Virginia Richmond.....	Home Economics.....	Little Rock
	Mary Sylvia Robertson.....	Business Education.....	Santa Monica
	Marlis Joan Rochat.....	Business Education.....	Los Angeles
³	Earl William Rose, Jr.....	Business Education.....	Redondo Beach
	Stanley Irwin Rosen.....	Apparel Merchandising.....	Los Angeles
	Arlene Rosenblatt.....	Business Education.....	Los Angeles

Darol Dean Roundy	Physical Education	Los Angeles
² Robert Jeffrey Rutledge, Jr.	Physical Education	Glendale
Mary Ann Ryan	Business Education	Fresno
Dorothy Jean Schendel	Home Economics	Los Angeles
² Doris Katherine Schreiner	Business Education	Alhambra
Beverly Irene Schultz	Apparel Merchandising	Los Angeles
³ Keith Self	Physical Education	La Mesa
Susan Shelby	Apparel Merchandising	Los Angeles
³ Richard Lee Shinnick	Physical Education	San Pedro
¹ Katherine Keiko Shiwota	Business Education	Los Angeles
² Frances M Bloch Shuster	Home Economics	Los Angeles
Marilyn Kay Silvernale	Physical Education	Igloo, South Dakota
Norma Jean Sinesio	Physical Education	Manteca
Zaven Sipantzi	Physical Education	Los Angeles
Phyllis Louise Small	Home Economics	Los Angeles
² Mariella Snelson	Home Economics	Los Angeles
³ Leland Drummonds Sommars	Business Education	Colton
John R Stevenson, Jr.	Physical Education	Manhattan Beach
Marla Allene Stone	Home Economics	Long Beach
Carole Whaley Strahan	Physical Education	Pasadena
Jacquelyn Janet Strauss	Physical Education	Arcadia
Margaret Arlene Strifert	Apparel Merchandising	Van Nuys
¹ Patricia Lorraine Sutherland	Apparel Design	Alhambra
Sara Sue Sutherland	Apparel Design	Berkeley
Sara Lena Svensson	Home Economics	Los Angeles
Yoshiko Betty Takenouchi	Business Education	Pasadena
¹ June Hollingshead Taylor	Business Education	Los Angeles
Janet Eleanor Tedford	Apparel Design	North Hollywood
¹ Lila Dolores Thompson	Home Economics	Burbank
Delores D Tootelian	Apparel Merchandising	Fullerton
² Charles Edward Tronson, Jr.	Physical Education	Canoga Park
Robert Addison Trotter	Business Education	Taft
¹ Robert Bishop Turrill	Business Education	El Monte
¹ Myron Paul Viner	Physical Education	Los Angeles
² Nancy Violette	Home Economics	San Bernardino
Sheila Anne Viotto	Home Economics	Los Angeles
Edward Donald Watkins, Jr.	Physical Education	Hawthorne
² Marlene Ann Weber	Home Economics	Los Angeles
Clyde Ernest Wetter	Physical Education	Lemon Grove
³ Eloise Williams	Apparel Design	Los Angeles
Roberta Lee Williams	Home Economics	West Los Angeles
Susan Ruple Winstandley	Home Economics	Los Angeles
Betty Ann Elaine Woiwod	Business Education	Inglewood
Marion Frances Wolff	Apparel Merchandising	Los Angeles
Leland Wong	Physical Education	Los Angeles
² John Allison Wyers	Physical Education	Santa Barbara
² Betty Hiroko Yaki	Physical Education	Norwalk

SCHOOL OF BUSINESS ADMINISTRATION

The Degree of Bachelor of Science upon

Max Abrams	Insurance	North Hollywood
Allan Albala	Accounting	Los Angeles
Robert Morgan Allan	Marketing	Hollywood
² James Chester Andersen	Marketing	Santa Monica
² Nicholas Genady Antonoff	General Business	Redwood City
Ralph Joseph Arceri	Accounting	Hollywood
² Manuel Joseph Armendariz	Accounting	Burbank
James Edward Atwood	Accounting	Los Angeles
Ronald Jay Bachrach	Marketing	Los Angeles
Larry Dean Baker	Accounting	Glendale

Brooks Ellsworth Baldwin.....	Finance	Glendale
Bob Glenn Ballard.....	Marketing	Oildale
¹ Donald Howell Bankhardt.....	Real Estate and Urban Land Economics	Van Nuys
³ JoAnn Virginia Barnard.....	Personnel Management and Industrial Relations.....	Los Angeles
¹ George Edward Barnes.....	Accounting	Van Nuys
Douglas Walter Bastyr.....	Finance	North Hollywood
Richard Donald Baum.....	Real Estate and Urban Land Economics	Los Angeles
Stephen Arthur Bauman.....	Accounting.....	Los Angeles
James Sheldon Bay.....	Accounting.....	Beverly Hills
Melvin Philip Bayer.....	Production Management	Beverly Hills
John Charles Bedrosian.....	Finance.....	Los Angeles
³ Alan Belkin	Accounting	Burbank
Morton Leis Berg.....	Accounting.....	Los Angeles
Robert Bernstein	Finance.....	Los Angeles
Alan Tweedale Berry.....	Personnel Management and Industrial Relations.....	Pacific Palisades
Richard Louis Betke.....	Production Management	Reseda
³ James William Bittner.....	Real Estate and Urban Land Economics	Alhambra
Robert Christy Bittner.....	Personnel Management and Industrial Relations	Rivera
Clayton Duane Blehm.....	Accounting	Rivera
John L Bloes.....	Accounting.....	Los Angeles
André Blum	Accounting.....	Los Angeles
Samuel Robert Bobrosky.....	Production Management	Los Angeles
³ Seymour Bonchefskey.....	Accounting.....	Los Angeles
Jerry Franklin Bordelon.....	Accounting	San Bernardino
³ John Boris	Production Management	Los Angeles
³ Donald Jay Boss.....	Accounting.....	Los Angeles
Harvey Theodore Botansky.....	Production Management	Los Angeles
¹ Herbert Sibbet Botsford.....	Accounting	Pasadena
³ Raymond Lee Boyer.....	Accounting	Riverside
Jack Edward Bratter.....	Accounting.....	Sherman Oaks
Russell William Brawley.....	Marketing	El Monte
¹ Robert Clair Brewster.....	Production Management	Los Angeles
Samuel Verner Britt.....	Accounting.....	Santa Monica
Bennie Joe Brown.....	Finance	Inglewood
Edwin Anthony Brown.....	Production Management	Los Angeles
Jack Bruker	Finance.....	Los Angeles
Robert Maurice Bryson.....	Marketing	Bakersfield
³ Willard Lee Bryson.....	General Business.....	Bakersfield
¹ John Lee Bukaty.....	Insurance.....	Los Angeles
¹ Jules Samuel Burg.....	General Business.....	Los Angeles
Philip Burton, Jr.....	Real Estate and Urban Land Economics	Los Angeles
¹ Roger Cortland Cain.....	Accounting.....	Los Angeles
Gordon Lee Cannon.....	General Business	Los Angeles
Robert Elliott Carruthers.....	Accounting	San Gabriel
³ Robert John Chamberlain.....	Personnel Management and Industrial Relations	Placentia
¹ Ellier Daniel Chapman, Jr.....	Accounting	San Diego
Robert Morley Chelew	Marketing.....	Los Angeles
Otto B Christian, Jr.....	Finance	Venice
³ Clarence C Clarke.....	Marketing	Oildale
Milton Franklin Clemmer	Personnel Management and Industrial Relations.....	Los Angeles
Kenneth Charles Cleveland, Jr.....	Finance	Pasadena
Roger Dennis Comerford	Marketing.....	Los Angeles

Laurence Marvin Connell.....	Marketing	Gilroy
² Robert Angelo Contino	Marketing	Van Nuys
¹ Floyd Hudson Corbett.....	Accounting	Livingston
¹ Donald Lee Craig	Personnel Management and Industrial Relations	Alhambra
Jack Wilber Crawford	Accounting.....	Los Angeles
Richard Ennis Crouch	Finance.....	Long Beach
Guss Willard Crowe	Production Management.....	Silvis, Illinois
Kent Cochran Cummings	Marketing	Bakersfield
¹ George Melvin DaVall, Jr.	General Business.....	Los Angeles
² Ahmet Lebib Demirci	Marketing.....	Bloomington, Indiana
Ronald Charles DeNoville.....	Marketing	Burbank
Sanford Deutsch	Accounting.....	Los Angeles
² Orville Edward Dickerson.....	Marketing	Calipatria
Thomas S Dickinson.....	Personnel Management and Industrial Relations.....	Los Angeles
¹ Jules Pierre Dion.....	Accounting.....	Corona del Mar
¹ Max William Don	General Business.....	Santa Monica
Diran Donigan	Insurance	Glendale
² Henry S Dossi	Accounting	San Pedro
² Tom Henry Doyle	Insurance.....	Los Angeles
² Erwin Carl Drucke.....	Production Management.....	Arcadia
Donald B Duitz.....	Marketing.....	Los Angeles
Darryl Hugh Dysart.....	Insurance	Altadena
Theodore Lester Earley.....	Office Management.....	Monrovia
Gerald Carlton Eckermann.....	Personnel Management and Industrial Relations	Arcadia
Robert Lee Eddy.....	Personnel Management and Industrial Relations	Santa Cruz
Sheldon Philip Eglash.....	Accounting.....	Los Angeles
¹ Richard Norman Emmons, Jr.	General Business.....	North Hollywood
² Paul Rex Enochs	Finance.....	Los Angeles
David Edward Entin	Real Estate and Urban Land Economics	Los Angeles
² Jerold Estow	Finance.....	Los Angeles
Alvin Fader	Marketing.....	Los Angeles
Daryl Roger Faulkner.....	Marketing	Culver City
Dan Alan Felger	Accounting.....	Los Angeles
Al A Finci	Accounting.....	Los Angeles
Robert Allen Flanigan.....	Personnel Management and Industrial Relations.....	Los Angeles
Gerald Allison Fox	Finance	Riverside
² William Fredgant	Transportation and Traffic Management	Los Angeles
² Irwin Sheldon Friedman	Accounting	Detroit, Michigan
Charles Arthur Friend	General Business.....	Torrance
Clarence Ross Fry	Accounting.....	Los Angeles
² Teruyuki Fujii	Accounting.....	Los Angeles
¹ George Francis Gallagher, Jr.	Transportation and Traffic Management	Pacific Palisades
² Daryal Tillman Gant.....	Production Management.....	Dinuba
James Erwin Ganulin	Finance.....	Los Angeles
Richard Hastings Garland, Jr.	Insurance	San Diego
Randolph Gee	Accounting.....	Los Angeles
² Lorne Arth Geib	Production Management	Redlands
Gerald Paul Geisbush	Personnel Management and Industrial Relations.....	Los Angeles
Charles Gelfand.....	Insurance.....	Sierra Madre
John Philip Gensel	Accounting.....	Los Angeles
² Billy Joe George	Accounting.....	South Pasadena
Donald Roy Gertsman.....	Accounting.....	Los Angeles

¹ Joan Martha Gilbert	Office Management	Burbank
Warren Cardiff Gilmore	Accounting	Los Angeles
Robert Duane Godfrey	Marketing	Malibu
Theodore Alvin Goldberg	Accounting	North Hollywood
² Merle David Goldstein	Personnel Management and Industrial Relations	Los Angeles
John Waller Goodman	Accounting	Denver, Colorado
Robert Phillips Gordon	Marketing	Los Angeles
Arthur Chaim Green	Accounting	Los Angeles
² Lawrence Theodore Green	Marketing	Los Angeles
¹ Billy Greenberg	Accounting	Los Angeles
¹ Larry Maurice Greenblatt	Personnel Management and Industrial Relations	Los Angeles
James Donald Greenspan	Finance	Los Angeles
Rudolph John Gregory	Accounting	Los Angeles
Stanley Bruce Greitzer	Finance	Los Angeles
Richard Earl Grey	Accounting	Beverly Hills
Lawrence Milton Grossman	Accounting	Los Angeles
Roland R Gullixson	Office Management	Santa Monica
² Richard Daniel Gurney	Finance	Palm Village
² Harry Adrian Gutierrez	Marketing	Santa Barbara
¹ Stanley Edward Haberman	Accounting	Los Angeles
¹ Robert Francis Haines	Accounting	Pacific Palisades
Yukio Hamada	Accounting	Kingsburg
¹ Robert Felton Hammond	Real Estate and Urban Land Economics	Beverly Hills
² Albert Gardiner Harman	Office Management	Santa Monica
² Richard Karl Hartung	Personnel Management and Industrial Relations	Los Angeles
John Robert Hayden	Accounting	Pasadena
Dorlee Heath	Finance	Taft
Sanford Roy Hellman	Accounting	Los Angeles
Robert Seatree Herdman	Finance	Solvang
Marvin Bernard Hershman	Insurance	Los Angeles
² Arthur Irving Hervin	Accounting	Los Angeles
David Snow Hill	Marketing	Pasadena
Robert Randel Hillerman	Personnel Management and Industrial Relations	San Diego
¹ Jack Thomas Hirshon	Finance	South Gate
¹ Myroslav Hnatejko	General Business	Los Angeles
James Robert Hockenhull	Accounting	Pasadena
Howard Lee Hohlbein	Production Management	Bakersfield
Lloyd Dean Holtzman	Office Management	Los Angeles
² Marvin Eugene Howard	General Business	Pasadena
¹ John Howard Hunt	Personnel Management and Industrial Relations	Los Angeles
Jacques Thomas LeFlore Hunter	Real Estate and Urban Land Economics	Los Angeles
Daniel Osamu Ikemoto	Accounting	Los Angeles
Edgar Orsen Ingalls, Jr.	Marketing	North Hollywood
Michael L Ingraham	Finance	Venice
² Minoru Ito	Accounting	Long Beach
¹ Ronald Douglas Jacobs	Marketing	Los Angeles
Marshall H Jacobsen	Finance	Los Angeles
¹ Roger Marshall Jacobson	General Business	Los Angeles
² Ira Jacoves	Accounting	Los Angeles
² Howard Tilden Jaskol	Accounting	Los Angeles
Stanley Allan Jaskol	Accounting	Los Angeles
Alton Claude Jennings	Marketing	Los Angeles
Thomas Clyde Jensen	Accounting	Lancaster
² Alvin Keith Johnson	Marketing	Santa Ana

James Robert Johnson	Marketing	Riverside
³ Jimmie Lee Johnson	Real Estate and Urban Land Economics	Van Nuys
Richard Joseph Jones	Office Management	San Bernardino
Sidney Wynne Jones	Real Estate and Urban Land Economics	Fontana
² Vernon Leroy Jones, Jr.	Finance	Berkeley
Lucienne Kahan	Accounting	Los Angeles
Norton Stanley Karno	Accounting	Los Angeles
¹ Leon Katz	Accounting	Los Angeles
Edmund Marvin Kaufman	Accounting	North Hollywood
² Earl T Kellerup	Finance	Venice
¹ Kenneth Alison Kendall	Production Management	Pasadena
¹ Edward Howard Kephart	Production Management	Los Angeles
Edward Kerr	Insurance	Los Angeles
Fred Warner Kingsdale	Finance	Los Angeles
Joel Alan Klein	Finance	Santa Ana
Miles Klein	Accounting	Los Angeles
¹ Leta Lucille Knapp	Finance	Montrose
¹ Patricia Rae Kneen	Accounting	Glendale
Joan Knight	Finance	Los Angeles
David Almond Knowlton	Finance	El Monte
¹ Thomas Edward Koehm	Production Management	San Gabriel
Harry Koulos	Accounting	Los Angeles
Gene Shigeto Koyamatsu	Marketing	Los Angeles
Harold Kramer	Insurance	Los Angeles
Lawrence Kritzer	Finance	Los Angeles
² Donald Olaf Krogseng	General Business	Los Angeles
Anthony John Landau	Finance	Beverly Hills
Gary Edward Lange	Personnel Management and Industrial Relations	Sherman Oaks
Jack Robert Larson	Accounting	Los Angeles
² Robert Charles Lashbrook	Personnel Management and Industrial Relations	Los Angeles
¹ Elliott Edward Latts	Finance	Beverly Hills
James Donald Lauter	Marketing	Los Angeles
Ronald Lederman	Accounting	Los Angeles
Melvin Lemberger	Accounting	Los Angeles
Don Melbourn Leomazzi	Finance	Sherman Oaks
¹ Charles Bernard Levander	Marketing	Beverly Hills
Donald Gary Leve	Accounting	San Pedro
² Bernard Levine	Accounting	Los Angeles
¹ Jerry Monroe Lewis	General Business	El Centro
Alexander Liel	Accounting	Anaheim
³ Joel Linderman	Accounting	Los Angeles
Robert Wendell Long, Jr.	General Business	South Pasadena
Robert Gillis Loomis	Real Estate and Urban Land Economics	Pacific Palisades
Robert Benny Lopez	Marketing	Los Angeles
Vincent Henry Lupo	Real Estate and Urban Land Economics	Los Angeles
Gregory D MacLean	Production Management	Beverly Hills
¹ Thomas Scott Maiden	Office Management	Pomona
² Stanley Medlis Main	Personnel Management and Industrial Relations	Santa Ana
Gerald Alan Malat	Accounting	Los Angeles
Melvin Harold Malat	Real Estate and Urban Land Economics	Los Angeles
James Walker Martin	Finance	Los Angeles
Octavio Martinez	Production Management	Los Angeles
Yukio Mashiko	Marketing	Sun Valley

- ² Albert Mass Accounting Los Angeles
- ² Marino Ralph Massagli Production Management Arcadia
- Mary Gail Maxwell Personnel Management and Industrial
Relations Ann Arbor, Michigan
- Alan May, Jr. Accounting Los Angeles
- James Donald McBroom General Business Van Nuys
- ² Frank Moyle McCord Accounting Los Angeles
- Doyle Robert McCravey Finance Taft
- ² Bertrand Lee McCumsey Real Estate and Urban Land Economics
San Bernardino
- ¹ Gerald Evander McDonald Marketing Los Angeles
- ² Robert George McFadden Personnel Management and Industrial
Relations San Diego
- Ronald Harry McMullan Insurance Los Angeles
- H Gregory Meeks Accounting Pomona
- ² Robert Samuel Mendelsohn Marketing Los Angeles
- ² Harold Eugene Mestyanek Accounting Los Angeles
- ¹ Harry Meyerson Accounting Van Nuys
- ² John Edward Millen Personnel Management and Industrial
Relations Bell
- ² Howard Allen Miller Accounting Beverly Hills
- Jesse Donald Miller Finance Los Angeles
- Philip Leslie Miller Marketing Ventura
- Richard Albert Miller Production Management Los Angeles
- ² Walter Francis Miller, Jr. Accounting Whittier
- Robert Paul Moher Finance Los Angeles
- John Alan Montag Real Estate Hollywood
- ¹ Charles Everett Moon, Jr. General Business Woodland Hills
- ² David Prior Murphy Finance Glendale
- ² Joyce Yuki Nakamura Office Management Los Angeles
- ¹ Thomas Gerard Nastos Finance Boston, Massachusetts
- Kenneth William Nebel Accounting North Hollywood
- ² Roland Sigurd Nelson Insurance Los Angeles
- Richard Warren Newman Production Management Los Angeles
- ¹ Richard Allyn Nichols General Business Kingsburg
- Charles Robert Noble Accounting Glendale
- ¹ Edward James Noonan Accounting Van Nuys
- ¹ Marvin Lee Nunnenkamp Accounting Van Nuys
- John Odabashian Personnel Management and Industrial
Relations Fresno
- ² Thomas Anthony O'Donnell Personnel Management and Industrial
Relations Altadena
- Thomas William O'Donnell, Jr. Accounting Los Angeles
- ² Thomas Edward O'Neil Real Estate and Urban Land Economics
Riverside
- William Hugh O'Neill, Jr. Marketing Attleboro Falls, Massachusetts
- Donald Lewis Orschanski Accounting Los Angeles
- ² Maurice Francis O'Shea Personnel Management and Industrial
Relations Long Beach
- ¹ Gary Allen Ostrin Finance Los Angeles
- David Paul Owen Marketing Dinuba
- James Louis Owens Accounting Hawthorne
- ² Theodore Samuel Pala Production Management Los Angeles
- Donald James Palmer Production Management Los Angeles
- Quentin Thomas Parsley Accounting Van Nuys
- ¹ Joseph George Pavliga Accounting North Hollywood
- ¹ Thomas Gene Pearson Marketing West Los Angeles
- Robert Joseph Pengilly Real Estate and Urban Land Economics
Los Angeles
- ¹ Manuel Saul Pensack Finance Los Angeles
- Donald Richard Perlick Accounting Monterey Park

² Marshall Arthur Peters	Finance	Huntington Park
Alan Stuart Pitt	Accounting	North Hollywood
Anthony Plaia	Personnel Management and Industrial Relations	North Hollywood
Kenneth Platt	Marketing	Los Angeles
² John Hoover Price, Jr.	Marketing	Huntington Park
¹ Vincent Punaro	Accounting	Los Angeles
² Wayne Lin Quon	Marketing	Los Angeles
Alvin William Rabalais	General Business	Los Angeles
Jerome Martin Rabin	Accounting	Los Angeles
² Gilbert Rangel	Personnel Management and Industrial Relations	Los Angeles
³ Mariano Contreras Rangel	Production Management	Caracas, Venezuela
William Miles Ravenscroft	Marketing	Sherman Oaks
¹ David Lewin Ray	Accounting	Los Angeles
James Wesley Read	Finance	Santa Monica
Walter Francis Reardon	Accounting	Los Angeles
¹ Thomas Gordon Reed	General Business	Los Angeles
² Robert Norman Reese, Jr.	Transportation and Traffic Management	Los Angeles
¹ Dale Curtiss Reid	Accounting	Los Angeles
Robert Lee Reilly	Production Management	Glendale
James Anthony Rexrode	Personnel Management and Industrial Relations	Sunland
¹ Donald Laurence Reznick	Finance	Beverly Hills
Sheldon Richman	Accounting	Los Angeles
² Stanford Alan Riddle	Production Management	Glendale
Lawrence Jack Rink	Personnel Management and Industrial Relations	Los Angeles
Gary Alfred Gene Riopelle	Accounting	Long Beach
James Frederick Ritchie	Accounting	Burbank
John Clifford Roderick, Jr.	Accounting	Monterey Park
James Everett Roe	Finance	Woodland Hills
² Ted George Rokos	Insurance	Los Angeles
³ André Ronay	Finance	Los Angeles
Milton Rosenberg	Accounting	Los Angeles
² Eugene Seymour Rosenfeld	Accounting	Los Angeles
² Solomon D Rosner	Accounting	Culver City
² Charles Joseph Roum	Finance	Altadena
¹ Gerald S Rubin	Real Estate and Urban Land Economics	Altadena
Howard Walter Russell	Production Management	Colton
² Robert Bryant Rutter	Accounting	Van Nuys
² James Holcomb Ryan	General Business	Los Angeles
Philip James Ryan	Production Management	Beverly Hills
³ Ned K Ryder	General Business	Bakersfield
² Robert Kenichi Sakaguchi	Finance	Riverside
Avram Salkin	Accounting	Los Angeles
Richard Howard Saunders	Personnel Management and Industrial Relations	Van Nuys
¹ Gordon Frank Sausser	General Business	Los Angeles
² Joseph Irving Schecter	Accounting	Reseda
² Ronald George Schiess	Production Management	Los Angeles
Lawrence Edward Schnitzer	Transportation and Traffic Management	Los Angeles
Allen Schroeder	Accounting	Dinuba
Jack Schwartzman	Accounting	Los Angeles
William Frederick Schweikert	Personnel Management and Industrial Relations	Glendale
Harold Barrington Scofield	Accounting	Los Angeles
Michael Allen Scott	Transportation and Traffic Management	South Pasadena

Bachelors—Business Administration

Joseph Segal.....	Accounting.....	Los Angeles
Robert Fellner Segler.....	Accounting.....	Los Angeles
Marvin Mayer Selesnick.....	Accounting.....	Los Angeles
John Edward Sende.....	Transportation and Traffic Management	Pasadena
Cecil Eugene Sexsmith.....	Accounting.....	Ventura
Harvey Shames.....	Accounting.....	Los Angeles
Harold Gene Shanks.....	Insurance.....	Hollywood
Kenneth Larison Shaw.....	Finance.....	Pacific Palisades
John Robert Sherman.....	Marketing.....	Los Angeles
² James Vincent Shirley.....	General Business.....	Los Angeles
² Amos Shuchman.....	Production Management.....	Tel Aviv, Israel
² Robert McPhail Shuman.....	Accounting.....	Lowell, Massachusetts
³ Robert Harold Ivan Silver.....	Production Management.....	Laguna Beach
Leland Sanford Simon.....	Office Management.....	Los Angeles
Robert Gerald Slater.....	Marketing.....	Redondo Beach
³ Christopher David Sloan.....	Personnel Management and Industrial Relations.....	Los Angeles
¹ Peggy Joann Smaby.....	Marketing.....	Los Angeles
Kimball West Small.....	Production Management.....	Riverside
² Stuart Jacob Solig.....	Real Estate and Urban Land Economics	Los Angeles
Keith Gordon Somers.....	Insurance.....	Puente
Bartley Leon SooHoo.....	Accounting.....	Oxnard
Thomas Virgil Sparks.....	Production Management.....	Santa Monica
Leon Spiwak.....	Finance.....	Los Angeles
Claude Alexander Stavroulakis.....	Accounting.....	Los Angeles
Heinz Herbert Steinmann.....	Real Estate and Urban Land Economics	Whittier
Lawrence Jay Stern.....	Accounting.....	Los Angeles
³ Harold Everett Stevens.....	Accounting.....	Los Angeles
Ronald Louis Stone.....	Real Estate and Urban Land Economics	Beverly Hills
Elinor Rae Stones.....	Office Management.....	Los Angeles
Thomas Oliver Stratton.....	Finance.....	Los Angeles
³ Howard Strauss.....	Accounting.....	Los Angeles
³ James Merrill Strickland, Jr.....	General Business.....	Los Angeles
³ Paul Struhl.....	Finance.....	Los Angeles
William Charles Stuewe.....	Personnel Management and Industrial Relations.....	Los Angeles
¹ Vincent Sullivan.....	Personnel Management and Industrial Relations.....	Long Beach
¹ Stanley Maurice Surlow.....	General Business.....	Long Beach
³ Stanley C Swartz.....	Finance.....	Burbank
¹ Allan Herbert Tanner.....	Personnel Management and Industrial Relations.....	Los Angeles
¹ Hiroshi Tauchi.....	Accounting.....	Tottori-Ken, Japan
Boyd Edwin Taylor.....	Accounting.....	Van Nuys
³ Thomas Ewing Teasley.....	Finance.....	Alhambra
³ Richard King Templeton.....	Personnel Management and Industrial Relations.....	Los Angeles
David Richard Tice.....	Accounting.....	Huntington Park
George Ernest Tilson.....	General Business.....	Long Beach
Henry Laurance Tinker.....	Production Management.....	Los Angeles
Norman Ernest Tipton.....	Personnel Management and Industrial Relations.....	Coronado
¹ Minoru Tonai.....	Accounting.....	Los Angeles
³ Ronald Lloyd Trevithick.....	General Business.....	Long Beach
Benjamin Joseph Trombatore.....	Production Management.....	Los Angeles
Barry Alexander Tunick.....	Marketing.....	Los Angeles
² Francis Philip Uehle.....	Accounting.....	Monterey Park

James Donald Underwood	Accounting	Manhattan Beach
² Charles Gordon Utt	Finance	Pasadena
Gordon Herbert Van Every	Marketing	Compton
Edward Puzant Varjian	Marketing	Los Angeles
² John Hamilton Varnell	Finance	Los Angeles
² Dean Otto Vowles	Accounting	Whittier
² James Henry Wagner, Jr.	Accounting	Little Rock, Arkansas
Stephen Harris Wagner	Accounting	Los Angeles
¹ Robert Otto Walters	Finance	Santa Monica
² Bernard Lee Warner	Accounting	Beverly Hills
Gary Allen Wasden	Marketing	Long Beach
Peter Johannes Watry	Accounting	Glendale
² Richard Earl Watson	General Business	Bakersfield
¹ John Horton Wells	Production Management	Los Angeles
¹ Homer Sherman Werts	Marketing	Oildale
James Vincent Wheelers	Accounting	Los Angeles
² Eddie Martin White	Accounting	Los Angeles
² Noble LeRoy White	Accounting	Venice
Paul Herman White	Marketing	Los Angeles
Roger John White	Transportation and Traffic Management	Alhambra
² Victor Paul Whitney	Finance	Los Angeles
Herbert Eugene Williams	Marketing	Gardena
Robert Louis Williams	Finance	Los Angeles
Arthur Clement Williamson, Jr.	Marketing	Alhambra
¹ Walter Eggen Wilson	Marketing	Los Angeles
¹ Wilmer Ernest Windham	Marketing	North Hollywood
² Edward Howard Wisse	Accounting	North Hollywood
Billy Lee Wolfe	Personnel Management and Industrial Relations	Lakewood
John Nelson Wood	Production Management	Altadena
² Donald Eugene Woods	Transportation and Traffic Management	Los Angeles
¹ Robert Roger Woolfson	General Business	Altadena
Robert Sheldon Zaas	Accounting	Los Angeles

COLLEGE OF ENGINEERING

The Degree of Bachelor of Science upon

George Winthrop Aamodt	Engineering	Los Angeles
Floyd Wayman Allen	Engineering	North Hollywood
¹ Stephen Oscar Arneson	Engineering	Alhambra
² Robert Elmer Atkinson	Engineering	Long Beach
David Leroy Bahrs	Engineering	Penryn
John Samuel Bailey	Engineering	Altadena
Keith Clayton Ballard	Engineering	Los Angeles
Anas Jawad Abdulhamid Baroody	Agricultural Engineering	Hama, Syria
² Carl Edward Basore	Civil Engineering	North Hollywood
² William John Bauchwitz	Engineering	North Hollywood
² Noel Frank Beasley	Engineering	North Hollywood
Friedrich Gordon Benhard	Engineering	Colfax
Maurice Berry	Engineering	Los Angeles
² Edwin George Biddlecomb	Engineering	Los Angeles
Allan Clark Billings	Engineering	Harbor City
² Jack Bronson Birdsall	Engineering	Lynwood
Norman Blumberg	Engineering	Sherman Oaks
² James Arthur Bossart	Engineering	Los Angeles
Edward Oliver Boutwell, Jr.	Engineering	Long Beach
² Dale Darrell Brady	Engineering	Highway Highlands
David John Braverman	Engineering	Hollywood

	Victor Rafael Brenes.....	Engineering	Los Angeles
¹	Duane Todd Bretzius.....	Engineering	Pasadena
³	Robert Alden Brewster.....	Engineering	North Hollywood
	Joseph Standley Brumbelow.....	Engineering	Lomita
³	Leonard Francis Buchanan.....	Engineering	Redlands
	Watson Sherwood Buehler.....	Engineering	Los Angeles
	Ronald Marcus Bundy.....	Engineering	San Diego
³	Thomas John Buttram.....	Engineering	Los Angeles
³	Floyd Lee Cannon.....	Engineering	Los Angeles
	Stuart Quayle Cannon.....	Engineering	Los Angeles
	Anthony Chan.....	Engineering	Los Angeles
	Joel Chaney.....	Engineering	Los Angeles
³	Stanley Eric Charles.....	Engineering	Glendale
³	Theodore Edward Chavannes.....	Engineering	Los Angeles
	Richard Lee Cisco.....	Engineering	Inglewood
³	Donald Edwin Cole.....	Engineering	Baldwin Park
³	James Ernest Cole.....	Engineering	Baldwin Park
	Robert Bruce Collender.....	Engineering	Los Angeles
	Louis Paul Colombano.....	Engineering	Los Angeles
²	James Theodore Cook.....	Engineering	Downey
²	Norman Robert Crain.....	Engineering	Inglewood
	Lyle Crawford.....	Engineering	North Hollywood
	William David Cutler.....	Engineering	North Hollywood
	John Bertil Dahlgren.....	Engineering	Pasadena
³	Arnold Eugene Devine.....	Engineering	Los Angeles
	Fred John DiMaio.....	Engineering	Los Angeles
³	Vernon Andrew Dorrell, Jr.....	Engineering	North Hollywood
³	Walter Lewis Doucett, Jr.....	Engineering	Costa Mesa
³	Ejnar Harold Dyrr, Jr.....	Engineering	Bell
³	Allan Read Eisenman.....	Engineering	Los Angeles
	Richard Raul Elias.....	Engineering	Calexico
³	Alfonso Soto Escobosa.....	Engineering	Long Beach
³	Viktor Evtuhov.....	Engineering	Los Angeles
³	Robert Leonard French.....	Engineering	Camarillo
	Loren Peter Fronk.....	Engineering	Culver City
	William Sadao Fujitsuho.....	Engineering	Los Angeles
³	Robert Stephen Gaylord.....	Engineering	Tustin
	Alvin Geller.....	Engineering	Los Angeles
²	Stephen James Gilbert.....	Engineering	Los Angeles
³	Thomas Jay Glad.....	Engineering	Venice
³	Raymond Charles Glicksberg.....	Engineering	Los Angeles
²	Joe Jack Goldberg.....	Engineering	Los Angeles
	Richard Golden.....	Engineering	Bakersfield
	James Stanley Gould.....	Engineering	Los Angeles
³	Bernard Edward Grasshoff.....	Engineering	Los Angeles
	Gary Tom Greene.....	Engineering	Los Angeles
³	Reid Greer.....	Engineering	Arcadia
	James Wilford Griswold.....	Engineering	Wilmette, Illinois
	Marcel Gerard Grondin.....	Engineering	Santa Monica
¹	Karl Gerd Grothues.....	Mechanical Engineering	Los Angeles
¹	James Leroy Haley.....	Engineering	Coronado
	Roland Thomas Hall.....	Engineering	Altadena
	John Edward Halter, Jr.....	Engineering	Oxnard
	Louis Michael Harrington.....	Engineering	Los Angeles
	Onal Nelson Harris.....	Engineering	Torrance
	Jack Eugene Hewes.....	Engineering	Santa Ana
	Alexander Robert Hicks.....	Engineering	Woodland Hills
	Leo Hinchcliff.....	Engineering	Redondo Beach
	Allan Berthold Hitterdal.....	Engineering	Compton
³	Marilyn Hitz.....	Engineering	Los Angeles
³	Robert Mark Hohenstein.....	Engineering	Los Angeles

	Donald Axel Holmes	Engineering	Glendale
	Warren Elton Holthaus	Engineering	Los Angeles
³	James Alexander Howard	Engineering	Los Angeles
²	Sam Huniu	Engineering	Los Angeles
¹	Mordechai Jaeger	Agricultural Engineering	Los Angeles
	Robert Martin Inman	Engineering	Sun Valley
	Paul Hisao Ito	Engineering	Los Angeles
	Anthony George Izuel	Engineering	Los Angeles
	Gerald Andrew Johnston	Engineering	Crestline
²	Carl Eugene Joyce	Engineering	Beech Grove, Indiana
	John Henry Joyce	Engineering	Covina
³	Warren Juran	Engineering	Hollywood
¹	Hiromu Kai'i	Engineering	West Los Angeles
	Richard Joseph Kaltenbach	Engineering	Van Nuys
³	Vadim Alexeevitch Karpenko	Engineering	Los Angeles
²	Clarke Merle Kates	Engineering	Los Angeles
	Makoto Kato	Engineering	Los Angeles
	Harvey Yoshishige Kawai	Engineering	Santa Monica
	Harold Martin Kaysen	Engineering	South San Gabriel
²	Chang Nai Kim	Engineering	Los Angeles
	Leonard Malcolm Knight	Engineering	Sherman Oaks
³	Bruce Kenneth Kober	Engineering	Los Angeles
	Richard Lynn Krebs	Engineering	Los Angeles
	Paul Frederick Kuhnle	Engineering	Los Angeles
	David Kishichi Kurahashi	Engineering	Los Angeles
²	Robert James LaBrie	Engineering	San Gabriel
³	Sidney Laham	Engineering	Los Angeles
¹	Robert Logan Lampton	Engineering	La Crescenta
³	Lawrence Newlin Landers	Engineering	Bell
²	Theodore Ellis Lansing	Engineering	Pacoima
	Elmer Milton Larson, Jr.	Engineering	Saugus
³	Lyman Ellis Limbocker, Jr.	Engineering	Santa Monica
	Thomas Alexander Long	Engineering	Los Angeles
	Gordon Earl Lucas	Engineering	Inglewood
³	Bent A Lundbye	Engineering	Rolling Hills
	Dean Thomas Mack	Engineering	Hollywood
²	John Patrick Maguire	Engineering	Los Angeles
	Robert Arthur Mallory	Electrical Engineering	Redondo Beach
	Edgar Samuel Marrotte	Engineering	Long Beach
	Laurence Ross Maynard	Engineering	Los Angeles
³	Lloyd Robert McFarlane	Engineering	Maywood
	Clarence Malcolm Meredith	Engineering	North Hollywood
	Frank William Meyer	Engineering	Glendale
	Larry Ray Millsap	Engineering	South Gate
	Vernon Eugene Mondt, Jr.	Engineering	Los Angeles
³	José Luis Morea	Engineering	Los Angeles
³	Walter William Mosher, Jr.	Engineering	Burbank
	Ralph William Niemeyer	Engineering	Los Angeles
	Richard Keith Nisbett	Engineering	Los Angeles
²	Mitsuaki Noda	Engineering	Los Angeles
²	Robert Harry Nunn	Engineering	Los Angeles
	William Noel Oakes	Engineering	Torrance
	Lincoln Douglas Odell	Engineering	Long Beach
³	Ben Wesley Ogle, Jr.	Engineering	Los Angeles
	John Lawrence Ott	Engineering	Los Angeles
¹	James Earl Pace	Engineering	Oxnard
¹	Paul George Paley	Engineering	Los Angeles
	James Yelverton Payton	Engineering	Los Angeles
²	John Joseph Phelan	Engineering	Coronado
	Stanley Plass	Engineering	South Pasadena
²	Ronald Lee Plue	Engineering	Los Angeles

	William Lee Poesch.....	Engineering.....	Santa Monica
³	Penn Robertson Post.....	Engineering.....	Hermosa Beach
	Richard Allen Potter.....	Engineering.....	Los Angeles
³	Keith Grimes Powers.....	Engineering.....	Riverside
	Norman Quan.....	Engineering.....	Los Angeles
³	Jack Rappaport.....	Engineering.....	Hollywood
	Robert Edward Rankel.....	Engineering.....	Van Nuys
³	Herbert Samuel Redlich.....	Engineering.....	Los Angeles
³	Mark Reichard.....	Engineering.....	Los Angeles
	Tommy Jack Rickords.....	Engineering.....	Los Angeles
³	Angelo Michael Roberto.....	Engineering.....	Pasadena
³	Earl Rogers.....	Engineering.....	Beverly Hills
	William Francis Rosenthal.....	Engineering.....	Van Nuys
	Alfred Ronald Roth.....	Engineering.....	Buffalo, New York
³	Lloyd Edwin Sager, Jr.....	Engineering.....	Long Beach
³	David Loren Satchwell.....	Engineering.....	San Gabriel
	Ivan Saworotnow.....	Engineering.....	Los Angeles
³	Paul Leroy Schock.....	Engineering.....	Los Angeles
³	Sol Scope.....	Engineering.....	Los Angeles
²	Donald Bruce Sedgley.....	Engineering.....	Los Angeles
	Leonard Ray Sharpe.....	Engineering.....	Lawndale
	Harvey Gerald Shore.....	Engineering.....	Los Angeles
³	Jack Erwin Shupper.....	Engineering.....	Los Angeles
	Julio Sierra.....	Engineering.....	Los Angeles
	Neal Conrad Silence.....	Engineering.....	Torrance
	Edward Lafayette Smith, III.....	Engineering.....	Los Angeles
³	Jack Stevenson Smith.....	Engineering.....	Memphis, Tennessee
³	Ray Carl Snider.....	Engineering.....	Pacoima
³	Louis Allen Sobel.....	Engineering.....	Beverly Hills
	Harvey Sokoloff.....	Engineering.....	Los Angeles
¹	Carlo Julio Sosa.....	Engineering.....	Los Angeles
	Roger B Sperling.....	Engineering.....	Los Angeles
	Herbert Murray Stein.....	Engineering.....	Los Angeles
	Robert Erwin Stickney.....	Engineering.....	Los Angeles
	Terry Lee Stockham.....	Engineering.....	Glendale
	John Oral Stoker, Jr.....	Engineering.....	Los Angeles
	Robert Eugene Strite.....	Engineering.....	Los Angeles
	Norito Robert Takamoto.....	Engineering.....	Los Angeles
³	Charles Folkers Talbott, Jr.....	Engineering.....	Hawthorne
	Kenneth Lee Tanney.....	Engineering.....	Beverly Hills
	Elmer Norman Taylor.....	Engineering.....	Los Angeles
	John Douglas Taylor.....	Engineering.....	Los Angeles
³	Reuben Davis Taylor, Jr.....	Engineering.....	Anaheim
²	Norman Telleson.....	Engineering.....	South Pasadena
	Richard Makoto Terasaki.....	Engineering.....	Los Angeles
¹	Richard Lynn Thompson.....	Engineering.....	Sherman Oaks
³	Robert Lester Thorne.....	Engineering.....	Los Angeles
²	Barna Toekes.....	Engineering.....	Los Angeles
³	Jack Evans Trost.....	Engineering.....	North Hollywood
²	Samuel Urcis.....	Engineering.....	Los Angeles
³	Walter Catherwood Virgil.....	Engineering.....	Burbank
	Jim Yasuo Wada.....	Engineering.....	Harbor City
³	Donald Laurence Wagner.....	Engineering.....	Los Angeles
³	Hiroyuki Wakamatsu.....	Engineering.....	Los Angeles
³	Joseph Donald Waldman.....	Engineering.....	Los Angeles
³	Harris Waller.....	Engineering.....	Beverly Hills
³	Dennis Alvin Walz.....	Engineering.....	Burbank
¹	Charles Ezra Warn.....	Engineering.....	Long Beach
³	Robert Charles Waters.....	Engineering.....	Long Beach
³	Lorenzo Fleming Watson, Jr.....	Engineering.....	Torrance
	William Harold Whatley.....	Engineering.....	Taft

² Robert Brandon Whitman	Engineering	Lawndale
Horst Wichmann	Engineering	San Fernando
Richard Giffin Willing	Engineering	San Fernando
Robert John Wise	Engineering	Los Angeles
Arthur Edmund Wollrich	Engineering	Los Angeles
Wing Jeung Wong	Engineering	Los Angeles
Conrad Woo	Engineering	Los Angeles

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Arts upon

Jay S Abarbanel	Anthropology	Jersey City, New Jersey
Doris Mardi Abernethy	Kindergarten-Primary Education	Los Angeles
David Ackermann	Zoology	Los Angeles
³ Thomas Adame, Jr.	Geology	Bakersfield
Donald Barrett Addington	Zoology	Los Angeles
¹ Hirsch Adell	Speech-English	Los Angeles
Rima Novin Adler	Psychology	Los Angeles
Adele Admire	General Elementary Education	North Hollywood
Thomas Wilson Africa	History	Los Angeles
³ William Charles Ahern	English	Northridge
³ Robert James Akers	Geology	North Hollywood
³ Mel Albaum	French	Beverly Hills
Joyce Dubin Alcouloumre	Bacteriology	Los Angeles
Walter William Aldrich	Political Science	Los Angeles
Jocelyn Leigh Aldridge	Mathematics	Long Beach
³ Maris Ann Allen	General Elementary Education	Inglewood
Richard Roe Allen	Geography	Alamosa, Colorado
Sydney Rochelle Allen	Anthropology	Fresno
³ Frank Manuel Almeida	Spanish	Los Angeles
Marilyn Joyce Altoon	English	Los Angeles
¹ Lillian Yukiko Amemiya	Kindergarten-Primary Education	Los Angeles
Ruth Gabriele Andersen	Zoology	Culver City
² Virginia Lou Andersen	Kindergarten-Primary Education	Los Angeles
Barbara Elaine Anderson	Prelibrarianship	Canoga Park
¹ John Martin Anderson	History	Hollywood
Richard Edward Anderson	Geology	Sepulveda
Vinicio Andreola	Political Science	Los Angeles
Harold Leroy Angle	Psychology	Firebaugh
¹ Marilyn Frances Armando	General Elementary Education	Los Angeles
³ Ann Arrowsmith	Sociology	Los Angeles
Albert Anthony Asermely	English	Los Angeles
Arthur Lee Askins	Latin American Studies	Long Beach
Marion Athearn	International Relations	Los Angeles
Paulette Patricia Attie	Speech	Los Angeles
³ Allyn Duane Axelton	Sociology	Des Moines, Iowa
Dan Ruegnitz Ayres	Meteorology	Los Angeles
³ Marlene Ann Bachman	General Elementary Education	Los Angeles
Michael Howard Baird	English	Burbank
¹ Arthur R Baldonado	International Relations	Los Angeles
¹ Richard Arnold Balos	English	Beverly Hills
Barbara Susan Balter	History	Los Angeles
³ Donald Eugene Barber	Political Science	Orange
Martin Lawrence Barman	Zoology	Glendale
Richard Earl Barnard	Political Science	Los Angeles
Don Jerome Barnes	Religion	Encino
³ Glen Dale Barnes	Physics	Van Nuys
³ Carol Joan Barnett	Kindergarten-Primary Education	Detroit, Michigan

Peter Van Doren Barrett.....	Zoology	Montrose
John M Barta.....	International Relations.....	North Hollywood
Louis Turbay Bascoy.....	Psychology	Los Angeles
² Shirley Ruth Bashor.....	English-Speech	Los Angeles
Carole Vera Baskin.....	Political Science	San Francisco
Arland Reese Bassett.....	English-Speech	Los Angeles
¹ Nancy Lucile Bates.....	English-Speech	Orange
¹ Claude Baum	English	Los Angeles
¹ Gerald Martin Bazar.....	Political Science	Los Angeles
Chester Andrew Bean.....	Mathematics	Lomita
Sandra Charlotte Beardslee.....	General Elementary Education.....	Pasadena
² Barbara Ann Becker.....	General Elementary Education.....	Los Angeles
MacArthur Becker.....	Sociology	Sunland
Francis Henry Beckett, Jr.....	Psychology	Hollywood
³ Barbara Sue Beckman.....	English	Los Angeles
² Sandra Elaine Beebe.....	English-Speech	Long Beach
¹ Sue Kelsey Beesley.....	General Elementary Education	Downey
² Robert Isaac Behar.....	Political Science	Los Angeles
John Menninger Behr.....	Mathematics	Los Angeles
Daniel Arthur Belkin.....	Zoology	Los Angeles
Allen Joyland Belkind.....	English-Speech	Los Angeles
Afred Charles Bell.....	Geography	Fullerton
Joanne Darlene Bender.....	English-Speech	Los Angeles
² Lynn Elsa Benjamin.....	Public Service.....	Los Angeles
³ Charles James Bennett.....	Philosophy	Santa Monica
Hilary Kathleen Bennett.....	Psychology	Altadena
² Jacob Natan Ben-Porat.....	International Relations	Tel Aviv, Israel
Janice Ella Bercau.....	General Elementary Education.....	Los Angeles
Sonia Fredrika Berdan.....	French	Pasadena
Jay Starrett Berger.....	English-Speech	Los Angeles
Virginia Jane Berger.....	General Elementary Education...	Beverly Hills
Bernard Byron Berk.....	Sociology	Burbank
Harry Stanford Berman.....	Political Science	Los Angeles
Martin Fredric Berman.....	Mathematics	Los Angeles
Betty Bernard	Premedical Studies.....	Richmond Heights, Missouri
² Robert Alan Bernasconi.....	English	Balboa Island
² Dolores Bernstein	Art History.....	Los Angeles
Marcia Elaine Bernstein.....	Spanish	Los Angeles
Constance Lorraine Berry.....	General Elementary Education.....	Alhambra
Dorothy Patricia Berry.....	Mathematics	Pasadena
Edward Bershatsky	Political Science.....	Los Angeles
² Irene Berteaux	General Elementary Education.....	Los Angeles
Arunkumar Dwarkadas Bhatia.....	Economics	Bombay, India
Stanley Melvin Bierman.....	Zoology	Los Angeles
Sherwood Howell Biers.....	Zoology	Los Angeles
² Yvette Phyllis Bilkiss.....	General Elementary Education.....	Los Angeles
² Barbara Trattner Bilson.....	English	Beverly Hills
David Arthur Binder.....	Political Science.....	Los Angeles
¹ Willard Robert Bird.....	Mathematics	Reseda
Roy Cardell Bishop.....	Geography	Los Angeles
Vilhelm Bjerknæs	Meteorology	Santa Monica
² Robert Harry Blackstone.....	English	Los Angeles
² Eleanor Frances Blasberg.....	Bacteriology	Brooklyn, New York
Joseph Hofer Blatchford.....	Political Science	Beverly Hills
Katherine Marie Blickhahn.....	English	Hilo, Territory of Hawaii
Michael Harold Bloxberg.....	Zoology	Los Angeles
Paul Marvin Blumberg.....	Sociology	Los Angeles
Richard Pryde Boggs.....	Zoology	Glendale
² William Stewart Bogorod.....	Psychology	Los Angeles
¹ Don Brady Bondi.....	Zoology	Los Angeles
¹ Muriel Suzanne Bonnett.....	Political Science	Dallas, Texas

Martha Irene Borchers.....	General Elementary Education	Whittier
Richard Lee Borun.....	Political Science.....	Los Angeles
Julia Johanna Boschan.....	Political Science.....	Los Angeles
¹ Irwin Boscoe.....	Political Science.....	Los Angeles
Joseph Bela Botond-Blazek.....	History.....	Sherman Oaks
² Gerald Reed Bott.....	Zoology.....	Los Angeles
² Victor Vincent Botts, Jr.....	Geology.....	Paso Robles
William Everett Bouck, Jr.....	Zoology.....	Balboa
Joseph Amedée Boudreau.....	History.....	Venice
Suzanne Mae Bousquet.....	English-Speech.....	Los Angeles
Cleophus Bowie.....	English.....	San Bernardino
Priscilla Jean Bowman.....	Kindergarten-Primary Education.....	Beverly Hills
David Roger Boyce.....	Sociology.....	Culver City
Joanne Eileen Boyd.....	Political Science.....	Los Angeles
Mary Frances Boyd.....	History.....	Los Angeles
Jeffrey Bradpiece.....	Political Science.....	Los Angeles
William Frederick Brainard.....	Political Science.....	Sherman Oaks
³ Diane Elizabeth Brandt.....	English.....	Los Angeles
² Geraldine Anne Brandt.....	History.....	North Hollywood
Julius Hoesterey Braun.....	Earth Physics and Exploration Geophysics	Glendale
³ Leonard Braun.....	Physics.....	Los Angeles
Marc Alvin Brenner.....	Political Science.....	Los Angeles
Judith C Bridges.....	Prelibrarianship.....	Santa Ana
Caroline Deane Briggs.....	International Relations.....	Portland, Oregon
² Patricia Brinkman.....	General Elementary Education.....	Glendale
¹ Louis Gerald Brittingham.....	History.....	Fullerton
Eugene Abraham Bronstein.....	History.....	Los Angeles
Arlene Doris Brooks.....	History.....	Los Angeles
Joan Alice Brookshire.....	Kindergarten-Primary Education.....	Alhambra
Judith Brostoff.....	Mathematics.....	Los Angeles
² Selma Joyce Brotsky.....	Speech-English.....	Los Angeles
³ Audrey Carol Brown.....	General Elementary Education.....	Los Angeles
² Charlotte Turner Brown.....	Political Science.....	Santa Monica
Cornelia Lee Brown.....	Kindergarten-Primary Education.....	Pasadena
² James Burton Brown.....	Geology.....	South Gate
³ Joyce L Brown.....	English.....	Santa Monica
³ Marie Brown.....	English.....	Los Angeles
Boyd Warren Browne.....	Psychology.....	Burbank
Caryl Velma Brox.....	General Elementary Education.....	Long Beach
Karen Lucile Bruce.....	Kindergarten-Primary Education.....	Whittier
¹ Loretta Buchanan.....	Latin.....	Los Angeles
² William Henry Buchanan.....	Economics.....	Los Angeles
Brian Marcus Buchea.....	Zoology.....	Los Angeles
Mary-Ann Buford.....	Psychology.....	Los Angeles
Joan Claudette Buie.....	General Elementary Education.....	Los Angeles
David Richard Bullock.....	Zoology.....	Tujunga
Roslyn Fae Burdman.....	General Elementary Education.....	San Diego
Elaine Burke.....	Anthropology.....	Los Angeles
Robert Earl Burke.....	Political Science.....	Carmichael
Betty Anne Burt.....	Political Science.....	Los Angeles
Evelyn Beddy Burton.....	General Elementary Education.....	Los Angeles
³ Thomas Michael Butch.....	Political Science.....	Long Beach
Patricia Mills Byrne.....	Political Science.....	Los Angeles
William Rea Cagle.....	English.....	Los Angeles
² Carl Lester Cain.....	Political Science.....	Los Angeles
Pauline Cameron.....	English.....	Los Angeles
Morrie Jack Camhl.....	English.....	Los Angeles
³ Carol Jean Campbell.....	Kindergarten-Primary Education.....	Los Angeles
² Geraldine Barbara Campbell.....	General Elementary Education.....	El Segundo
³ Kenneth James Campeau.....	Political Science.....	Los Angeles

Gary Carlson	Psychology	Los Angeles
Nancy Carolyn Carlson	General Elementary Education	Los Angeles
Eleanor Earlene Carter	Political Science	Needles
² George Albert Carter	Economics	Los Angeles
Jared Glenn Carter	Political Science	Dos Palos
Dorothy Russell Case	Kindergarten-Primary Education	Los Angeles
Betty Ann Casperson	General Elementary Education	Canoga Park
Rosalie Sheila Castin	Psychology	Los Angeles
Rudy Albaro Castro	Sociology	Los Angeles
Carolyn Cather	Spanish	Los Angeles
² Stephen Edward Cavanaugh	History	Los Angeles
¹ Babette Franziska Chafin	General Elementary Education	Los Angeles
³ Sharon Blake Chamberlain	Kindergarten-Primary Education	Selma
Donald George Champlin	Political Science	Altadena
Kenneth Burns Cheney	Physics	Los Angeles
Gary Chenkin	Geography	San Diego
¹ Charlanne Swanson Chenoweth	Kindergarten-Primary Education	Los Angeles
² Seishu Chikasawa	Political Science	Wilmington
Edward Dennis Chinn	Zoology	Fresno
Zaruhy Sara Chitjian	Psychology	Los Angeles
² Misako Chiwaki	Mathematics	Los Angeles
² Wilma Chortkoff	General Elementary Education	Los Angeles
² Cheng Chuen Chou	Zoology	Singapore, Malaya
² Chère C Chretien	General Elementary Education	Los Angeles
¹ Jack Wray Chrisman	English	Burbank
John Hermes Christ	Mathematics	Sherman Oaks
¹ Lawrence Lloyd Christensen	Anthropology	Fresno
Valdimar Eugene Christensen	Zoology	Santa Monica
¹ Evelyn Maurine Clark	General Elementary Education	Long Beach
Mary Ellen Clark	Psychology	Santa Ana
Joyce Louise Clasen	Speech-English	Los Angeles
² Ethel Mae Clem	Psychology	Whittier
John Elliott Cline	History	Los Angeles
Paul Beecher Clinton	Political Science	Fullerton
Melvyn Jules Coben	Political Science	Los Angeles
Sheldon Armand Coburn	Zoology	Chicago, Illinois
² Jean Violet Cochrane	Psychology	Van Nuys
Edward Grady Coffman, Jr.	Mathematics	Victorville
Richard Quentin Coffman	Psychology	San Fernando
Lawrence Joseph Cohen	English	Los Angeles
Jetive Gower Cohn	English	Long Beach
¹ Lonnie Margaret Cohn	Bacteriology	Los Angeles
² Barbara Louise Coker	Psychology	Los Angeles
Walter Jeriol Collingsworth	Economics	Glendale
¹ Darcy Collingwood	Psychology	Los Angeles
Robert Joseph Combs	Political Science	Port Hueneme
² Dean Sumner Conklin, Jr.	Psychology	Beverly Hills
¹ James Eugene Connolly	History	Culver City
¹ Mary Louise Cook	English	Los Angeles
² Nancy Mae Cook	English	Glendale
² Beverly Ann Cooper	Speech	Pasadena
² Joseph Michael Cooper	Political Science	Yuma, Arizona
² Robert Jay Cooper	Speech	Los Angeles
Ronald Harrison Cooper	Political Science	Los Angeles
Barbara Leanne Cope	General Elementary Education	Santa Monica
¹ Marianne Ashline Cordes	Kindergarten-Primary Education	Los Angeles
Jane Cords	International Relations	Los Angeles
Steven Lewis Costello	Mathematics	Malibu
² John Herbert Couch	Political Science	Lemon Grove
Carolyn Fae Coulter	Kindergarten-Primary Education	Alhambra
² Mary Louise Courtright	Kindergarten-Primary Education	Glendale

John Warnke Cox.....	Geology	Los Angeles
² John Ellyson Creange.....	Zoology	Santa Monica
² Richard William Cresswell.....	General Education	South Gate
Allan Bernard Croghan.....	History	Venice
Colleen Anne Crowley.....	General Elementary Education	Los Angeles
¹ Geraldine Ann Croymans.....	General Elementary Education	Los Angeles
Barbara June Crumly.....	Botany	Los Angeles
² Mayda Annette Cruse.....	General Elementary Education	Los Angeles
² John Donovan Cunningham.....	Zoology	Santa Monica
² Lillian Rose Cutler.....	English	Los Angeles
² Janet Louise Daggs.....	General Elementary Education	Fresno
² Dorothea Dakis.....	General Elementary Education	Los Angeles
Gilbert Ralston Dale.....	Political Science	Coronado
Louise Danae Dale.....	Psychology	Los Angeles
² Herta A T Dammer.....	Prelibrarianship	Beverly Hills
¹ Cecil George Dansby.....	Political Science	Burbank
Frances Louise Darvas.....	Psychology	Los Angeles
² Robert Heywood Davenport.....	Psychology	South Pasadena
² Clyde Frank Davies.....	Geology	Baldwin Park
Frank Dorrington Davis.....	Anthropology	Compton
Frank Graves Davis, Jr.....	Premedical Studies	Pasadena
¹ Frank Perrett Day.....	General Elementary Education	Manhattan Beach
² Anna de Boer.....	General Elementary Education	Visalia
Theodore Emmerton Dederick.....	Spanish	North Hollywood
² John Jaxon Deelman.....	Zoology	Los Angeles
¹ Palmira Louise Dellamano.....	Bacteriology	Brookline, Massachusetts
Stanley Delnick.....	Political Science	Los Angeles
Fernando René Del Rio.....	International Relations	Los Angeles
Richard Leo Delsasso.....	Geology	Darlington, Maryland
² Diane McLean Dennis.....	Mathematics	Honolulu, Territory of Hawaii
² William Bert Dennis.....	History	Los Angeles
² Helen Depner.....	General Elementary Education	Los Angeles
Chester John Deutsch, Jr.....	Sociology	Altadena
Robert de Violini.....	Meteorology	Burbank
² André Serge Albert de Witte.....	Psychology	Los Angeles
Joan Agnes DeYoung.....	General Elementary Education	North Hollywood
Barbara Ruth Diamond.....	General Elementary Education	Los Angeles
James Lowell Didricksen.....	History	South Gate
² Barbara Joan DiIullo.....	Kindergarten-Primary	Los Angeles
Sarah Elizabeth Dilbeck.....	English	Los Angeles
¹ Leslie Kay Dille.....	English-Speech	Inglewood
¹ Norman Dingilian.....	Sociology	Studio City
² Norman M Dolin.....	Political Science	Beverly Hills
² Santo Anthony Donato.....	Political Science	Glendale
² Audrey Faye Donegan.....	History	Los Angeles
² Douglas Alan Donnell.....	Political Science	Montebello
¹ Thomas Joseph Dooley.....	Political Science	Glendale
Geraldine Joan Doud.....	General Elementary Education	Oxnard
² Richard Bruce Douglass.....	General Elementary Education	La Crescenta
¹ John Hyatt Downing.....	History	Los Angeles
Irving Edmund Drasnin.....	Political Science	Los Angeles
² Sylvia Neal Drew.....	Kindergarten-Primary Education	Los Angeles
² Elizabeth Carol Driscoll.....	General Elementary Education	Altadena
Lorraine Charlotte Driver.....	Bacteriology	Oakland
Georgina Drudis.....	General Elementary Education	Los Angeles
Lloyd George Drum.....	Psychology	Inglewood
¹ Alan Douglas Drury.....	Zoology	Los Angeles
² Miriam Avivah Dubrow.....	English	Los Angeles
¹ Rudy duCharme.....	History	Inglewood

² Rose Marie DuFresne.....	English-Speech	Los Angeles
Mikel Duino	Zoology	Van Nuys
Marlene Ruth Duke.....	English	Sherman Oaks
³ Robert Roy Dunfield.....	Geology	Los Angeles
³ Fredric Gary Dunn.....	Psychology	North Hollywood
Gerald Alan Dunn.....	Geology	Burbank
Richard Anthony Dwyer.....	English	Redondo Beach
Wayne Robert Dynes.....	Art History.....	Los Angeles
Lilita Irma Dzirkals.....	History	Los Angeles
² Jack Thomas Eagen.....	Geology	Los Angeles
Lester Brooks East.....	Political Science.....	Long Beach
Donald Glenn Eckrote.....	Slavic Languages.....	Long Beach
³ Thomas Adolph Edelmann.....	History	Los Angeles
Robert Breckenridge Edgerton.....	Anthropology	North Hollywood
² Allan Edmund Edwards.....	Psychology	Los Angeles
Mitchell Wolf Egers.....	History	San Fernando
¹ Patricia Marie Eggers.....	General Elementary Education.....	Altadena
Suzanne Eggleston	Zoology	North Hollywood
³ Lester Warren Eischen.....	Psychology	Solano Beach
³ Rosemary Ann Elliott.....	History	San Jose
Ernest Odin Ellison.....	Political Science.....	Los Angeles
Barbara Gail Ellwood.....	Anthropology	Glendale
¹ Millicent Honey Elman.....	Speech-English	Arcadia
John Burgoyne Ely.....	Music	Altadena
Nancy Embshoff	Political Science	Glendale
James Dennis Enright.....	Astronomy-Physics	Manhattan Beach
³ Marilyn Epstein	General Elementary Education.....	Los Angeles
Joyce Erickson	English	Glendale
³ Joyce Eleanor Erlewine.....	General Elementary Education.....	Los Angeles
¹ Virginia Eschner	General Elementary Education.....	Valley Center
³ Romana Hilda Espinosa.....	Spanish	Santa Monica
Helen Ann Evans.....	English	Beaumont, Texas
¹ James Stuart Evidon.....	Political Science.....	Beverly Hills
Dorothy R. Fabian.....	Sociology	Los Angeles
¹ Joanne Pauline Fadness.....	General Elementary Education	Montebello
³ Arnold Falck	Geology	New York
Ruby Ellen Farber.....	General Elementary Education.....	Norwalk
³ Judith Fargo	General Elementary Education.....	Los Angeles
Leon Alex Farley.....	English	Venice
³ John Frederick Farnsworth.....	Geography	Hermosa Beach
³ Richard Jerome Farrell.....	English	Pasadena
³ Donald Feinberg	History	Sun Valley
April Joy Fenrich.....	General Elementary Education.....	Ontario
James Wilbert Fenwick.....	English	Los Angeles
Jackson Greenwood Ferguson.....	Political Science.....	Los Angeles
Edward James Ferraro.....	Political Science.....	Ontario
² Kenneth Martin Ferrin.....	Mathematics	Gardena
³ Barbara Jean Ferris.....	Bacteriology.....	Santa Monica
Marshal Paul Fichman.....	Premedical Studies.....	Los Angeles
Frederic Bagnell Fielding.....	Mathematics	Glendale
Mitzi Filson	English.....	New York, New York
³ Jerry Lewis Fine.....	Political Science	Glendora
¹ Sanford Jay Fine.....	Psychology	Beverly Hills
¹ Lois Barbara Fink.....	Kindergarten-Primary Education	New York, New York
³ Phyllis June Finkel.....	General Elementary Education	Riverside
¹ Sue Ellen Firestone.....	Psychology	Sherman Oaks
³ Bernard Louis Fishman.....	Philosophy	Venice
Chauncey George Fitzgerald.....	English	Glendale
³ Lila Marie Fitzgerald.....	General Elementary Education.....	Glendale
³ Ada Louise Fitzsimmons.....	History	Los Angeles

Joan Flam	English	Sherman Oaks
Melvin Daniel Flamm, Jr.	Premedical Studies	Los Angeles
¹ James Howard Flannery	Sociology	Los Angeles
Dolores Fay Flood	General Elementary Education	Los Angeles
Lawrence B Flood	Philosophy	Venice
Lawrence Monty Foley	General Elementary Education	Los Angeles
² Joseph Boynton Fontaine	Geology	Bakersfield
³ Richard Harold Foote	Meteorology	Healdsburg
Evan Howell Foreman	Psychology	Monrovia
Harold Dee Fox	English	Monterey Park
Sondra Fox	General Elementary Education	Los Angeles
Ronald Herbert Frank	Political Science	North Hollywood
Ronald Sherwin Freeman	Sociology	Los Angeles
Myrtle Pietschmann French	Anthropology	Santa Monica
Daniel Friedman	Meteorology	Los Angeles
² Sanford William Friedman	Mathematics	Gardena
Shirley Esther Friedman	General Elementary Education	Los Angeles
Charles Leslie Fries	Political Science	Phoenix, Arizona
Helen Akiko Fujishige	Sociology	Los Angeles
Martha Yasuko Fujiwara	Bacteriology	Dinuba
Mary Keiko Fujiwara	Bacteriology	Dinuba
² Marianne Fulcher	General Elementary Education	Los Angeles
Virginia Ann Fulcomer	Psychology	Los Angeles
Dolores Rose Fuller	Kindergarten-Primary Education	Los Angeles
Patricia G Fullilove	Psychology	Van Nuys
Katharine Edith Gadberry	Presocial Welfare	Los Angeles
Kathryn Joyce Gage	French	Pasadena
Clara Galian	General Elementary Education	Los Angeles
Frances Leah Galston	History	Hollywood
Harold Gamer	Political Science	Los Angeles
¹ Gertrude Gafian	Kindergarten-Primary Education	Los Angeles
Earl David Gandel	English	North Hollywood
³ Morton Gantman	Political Science	Los Angeles
³ Seymour Gantman	Political Science	Los Angeles
Angelina Olivarez Garcia	History	Canoga Park
Seneca Barrios Garcia	Spanish	Santa Monica
³ Leroy Stanley Garden	History	Los Angeles
¹ James Edward Gardner	Psychology	Los Angeles
³ Raymond Hamilton Garra, Jr.	History	Los Angeles
John Oliver Garvey	Physics	Los Angeles
² Marcel Gawartin	Physics	Hollywood
Mary-Joan Gear	Kindergarten-Primary Education	Santa Monica
Sheila Ariel Genden	Speech	North Hollywood
³ Wilda Arline George	English-Speech	LaHarpe, Illinois
³ Joanna Ellan Gibson	Kindergarten-Primary Education	Los Angeles
Zoya Elaine Gilboa	Prelibrarianship	Los Angeles
³ Alvin Herbert Gilens	Political Science	Los Angeles
³ Gwendolyn Ann Gilens	Kindergarten-Primary Education	Los Angeles
² Nelson Marcelous Gillette	Physics	Santa Monica
² Robert Eugene Gimmy	Political Science	Hollywood
Howard Gingold	Political Science	Los Angeles
Charlotte Sexton Ginn	Kindergarten-Primary Education	Santa Monica
¹ Emil John Gioia	Political Science	Los Angeles
Signe Suzanne Gissberg	History	Long Beach
¹ Loren Burton Gladstone	Oriental Languages	Hollywood
Sherwin Howard Glanz	Sociology	Columbus, Ohio
¹ Suzanne Glass	Spanish	Los Angeles
² Earl Armitage Glauber	Psychology	Los Angeles
³ Albert Arthur Glazer	Sociology	Los Angeles
² John Hays Gobble	Sociology	North Hollywood
² David Jonathan Goerz	Physics	Los Angeles

² Richard Wayne Goff	Political Science	Los Angeles
Lucia Basmajian Goldie	Kindergarten-Primary Education	Alhambra
¹ Paul Leonard Goldstein	Psychology	Los Angeles
² Linda Deborah Goldwyn	General Elementary Education	Los Angeles
Ray E Gonzalez	International Relations	Los Angeles
Tarrant Alan Gooch	Geography	San Diego
Doris Ruth Goodman	English	Tujunga
Charles Ezreal Goodstein	Zoology	Los Angeles
¹ Deborah Jacqueline Gordon	History	Pacific Palisades
² Paul Alvin Gordon	Psychology	Pasadena
Rosalind June Gordon	Kindergarten-Primary Education	San Pedro
Joan Gormley	Zoology	Los Angeles
² Norman Harold Gosenfeld	History	Los Angeles
Norman Frank Gottlieb	English-Speech	Los Angeles
Elizabeth Gould	General Elementary Education	Beverly Hills
David Robert Graeme	English-Speech	Monrovia
² Judith M Graff	General Elementary Education	Los Angeles
Theodore Michael Grandsen	History	Simi
² Ronald Wythe Grant	Meteorology and Mathematics	San Diego
² George Green	General Elementary Education	Los Angeles
² Mary Jeannette Green	General Elementary Education	Los Angeles
Stanley Allen Green	History	Santa Barbara
² Robert Alexander Greenspan	English	North Hollywood
Audria Ann Gregg	General Elementary Education	Santa Ana
Eric Michael Griffel	Political Science	Los Angeles
² Ples Andrew Griffin	Speech-English	Pasadena
¹ Bennie Harrison Grigsby	Speech	Los Angeles
² Janyce Lou Grisham	History	Santa Barbara
Alan John Gross	Mathematics	Venice
Sonia Estelle Gross	General Elementary Education	Los Angeles
² Bette Claire Grotegut	German	Glendale
¹ Edward Leroy Grove	Geography	Fontana
Richard Carl Groves	Meteorology	Culver City
Robert Gruber	Philosophy	Los Angeles
¹ Vincent Gualtieri	Bacteriology	Los Angeles
¹ Avraham Gur-Az	Political Science	Tel Aviv, Israel
Maebeth Gwaltney	Kindergarten-Primary Education	Los Angeles
² Donald Anthony Haas	Geology	Los Angeles
Ann Page Haire	Presocial Welfare	Hollywood
Masoud Hakhamimi	Zoology	Teheran, Iran
Arthur Reinold Haldi	Psychology	Monterey Park
Frank Clare Hale	Zoology	Santa Monica
Daniel Lawrence Halliday	Mathematics	Los Angeles
David Rex Halverson	Political Science	Lynwood
John Charles Hamby	Sociology	Wilmington
Dorothy Anne Hamel	English	Glendale
H Floyd Hamilton, Jr.	Political Science	North Hollywood
¹ Juliet Sue Hamilton	General Elementary Education	Los Angeles
Marjorie Louise Hamm	English-Speech	Los Angeles
² Herbert Berton Hammer	General Elementary Education	Los Angeles
² Jerome S Handler	Anthropology	Los Angeles
² Gerry Haney	Kindergarten-Primary Education	Los Angeles
Mack Hansen	History	Tujunga
¹ Diane Kathleen Clair Hanson	Zoology	Los Angeles
² Joe Allan Hanson	Zoology	Manhattan Beach
John Briard Harding, Jr.	Mathematics	Malibu
Alan Paul Harris	English	Los Angeles
¹ Joseph Phillip Harris	Bacteriology	Los Angeles
² Walter Stephan Harris	Geology	Los Angeles
¹ Thomas Bradford Harrison	Economics	Honolulu, Territory of Hawaii
² Marjorie Dianne Hart	Kindergarten-Primary Education	South Pasadena

Travis Alan Haskins.....	English	LaHabra
³ Jeanne Martha Hasselle.....	Psychology	Bellflower
³ Robert Noel Hatch.....	Political Science.....	Los Angeles
¹ David Burgoyne Hatmaker.....	Philosophy	Pasadena
Hugh Corey Heard.....	Geology	Riverside
³ Alvin David Hecht.....	History	Los Angeles
³ Jack Lewis Hefley.....	English	Los Angeles
James Melvin Helfend.....	Psychology	Los Angeles
Robert Leroy Hemmerling.....	Mathematics	Fullerton
Myron Jerome Herberg.....	English	North Hollywood
William Joseph Herkenhoff.....	International Relations.....	Los Angeles
Joan Hertzberg	General Elementary Education.....	Van Nuys
Patricia Ann Hickey.....	English-Speech	Los Angeles
¹ Bebe Lois Higger.....	History	Los Angeles
Robert Leroy High.....	International Relations.....	Pacoima
¹ John Norgrove Highley.....	Meteorology	San Diego
Yanal Omer Hikmat.....	Economics	Beirut, Lebanon
¹ Hildegard Hertha Hiller.....	Psychology	Beaumont
Arthur Lewis Hinman.....	Geography.....	Los Angeles
Hisashi Hishida	Mathematics.....	Tsu, Japan
¹ Richard Allen Hochman.....	Psychology	Los Angeles
Jacqueline Ann Hoerger.....	Kindergarten-Primary Education	Pasadena
Judith Ann Hoffberg.....	Political Science.....	Los Angeles
Ernest Jean Hoge.....	Bacteriology	Bakersfield
Richard Brian Hoke.....	Psychology	Pasadena
³ Lucy Annette Holderman.....	Anthropology	Monterey Park
Donna Elizabeth Holmes.....	Kindergarten-Primary Education.....	Santa Monica
¹ Douglas H Holmes.....	History	Los Angeles
Jo-Ann Holmquist	General Elementary Education.....	Los Angeles
³ Elfrieda Melander Holzapfel.....	Earth Physics and Exploration	
	Geophysics	San Marino
¹ Herbert J Holzman.....	Mathematics	Los Angeles
Fabia Hope	General Elementary Education	Los Angeles
³ Robert Gordon Hopps.....	Zoology	Oakdale
¹ John David Horn	Meteorology	Whitefish, Montana
Rita Horn	Psychology	Los Angeles
² Harold Eugene Horne.....	Geology	Bakersfield
³ Robert Housman	Economics	Los Angeles
Doris Elaine Howard.....	History	Los Angeles
³ Patricia Mae Howard.....	History	Kearney, Nebraska
Timothy Christopher Howe.....	Zoology	Los Angeles
Robert Edward Hruby.....	Psychology	Los Angeles
Edward Jen-Te Huang.....	Economics	Olympia, Washington
Beatrice B Hubert.....	French.....	Los Angeles
Larry Elsworth Hudson.....	Geography	Puente
Patricia Arnold Huff.....	Sociology	Long Beach
Joseph Daniel Humason.....	Zoology	Orange Cove
Gordon Hunt	Political Science.....	Huntington Park
³ Margaret Lucille Hunts.....	General Elementary Education.....	Wilmington
Barbara June Hutchason.....	Psychology	Los Angeles
³ Helen Michiko Ibaraki.....	Kindergarten-Primary Education	Los Angeles
¹ Iris Richi Inadomi.....	English	Oxnard
³ Brian William Irving.....	History	Sherman Oaks
Iwao Ishikawa	Economics	Wilmington
Yeiko Ito	General Elementary Education.....	Westminster
Harry Izmirlian, Jr.....	Anthropology	Pasadena
Louise Alice Jackson.....	English	Exeter
Richard Harold Jackson.....	Anthropology	Alhambra
¹ Alvin Harold Jacobs.....	Economics.....	Los Angeles
Irwin Maurice Jacobs.....	English	Los Angeles
¹ Alma Elwin Jacobsen.....	Sociology	Torrance

	David Philip Jacobsen.....	Psychology	Pasadena
	Eunice Peggy Jacobson.....	English-Speech.....	Chicago, Illinois
	Lois Carol Jacobson.....	Sociology	Beverly Hills
¹	Adrienne Maureen Jaffe.....	English-Speech	Burbank
²	Aredell James	Presocial Welfare.....	Los Angeles
³	Herman Leon Jay.....	History	Manteca
¹	Carol Ann Jefcoat.....	General Elementary Education...	Los Angeles
	James Howard Jefferson, Jr.....	Psychology	Glendale
	Robert Eugene Jelley.....	International Relations.....	Lynwood
¹	Betty Lorraine Johnson.....	General Elementary Education...	Los Angeles
³	Kenneth Wesley Johnson.....	History	El Monte
³	Susan Helen Johnson	Kindergarten-Primary Education ..	Los Angeles
	Warren Mark Johnson	History	Hollywood
²	William Richard Johnson.....	Political Science	Torrance
	Russell Ray Johnston, Jr.....	Physics	Venice
³	Elaine Babette Jones.....	General Elementary Education...	Santa Monica
	Emily Sophia Jones.....	General Elementary Education...	Inglewood
¹	Marguerite Roberta Jones.....	English	Manhattan Beach
²	Herbert Hipson Jordan.....	Geology	Santa Monica
	David Kenyon Jordt.....	Geology	Anaheim
¹	Carol Eymann Just.....	Sociology	Reedley
¹	Mary Lorraine Justi.....	Political Science.....	Beverly Hills
	David Kagan	Political Science.....	Santa Monica
¹	Joshua Kagia	Zoology	San Fernando
²	Stanton Floyd Kahan.....	Geology	Los Angeles
	Yozen Kameyama	Economics	Artesia
	George Virgilius Kaminskas.....	Psychology	Los Angeles
³	David Benjamin Kaplan.....	Philosophy	Pasadena
³	Jeanne Ann Kaplan.....	English	Los Angeles
	Martin Kaplan	Premedical Studies.....	Los Angeles
	Raymon T Kaplan.....	Premedical Studies.....	Los Angeles
	Lisa Katz	Psychology	Los Angeles
³	Zipora Phyllis Katz.....	Anthropology	Studio City
	Taube Syma Kaufman.....	English	Culver City
	Eleanor Masae Kawahara.....	General Elementary Education.....	Gardena
	Janice Teruyo Kayahara.....	Zoology	Los Angeles
	Dennis Keeley	International Relations	Santa Ana
	Charles Clarke Keely, Jr.....	English	Los Angeles
	Marta Ann Keil.....	English	Riverside
³	James Theodore Keller.....	Psychology	Burbank
³	Diana Dean Kellerman.....	English	San Fernando
	Donald Lee Kemp.....	Meteorology	Alhambra
³	John Gordon Kennedy.....	Anthropology	Los Angeles
	Charles William Kenney.....	Speech-English	Altadena
³	Richard Thomas Kerr.....	Geography	Los Angeles
	Gilbert Ross Kesser.....	Sociology	Tujunga
	William James Ketteringham.....	Latin-American Studies.....	Long Beach
	Noel Arthur Kidder.....	Mathematics.....	Van Nuys
	Constance Killgore	English	Los Angeles
	Allene Ann Killough.....	General Elementary Education...	Long Beach
	Ronald Arthur Kinchla	Psychology	Los Angeles
	Walter Herbert King.....	German	Los Angeles
	Yvonne Faust Kingman.....	English	Los Angeles
³	Kent Ward Kinney.....	Political Science.....	Van Nuys
	Haidee Latitia Kipps.....	Economics	Hollywood
¹	Marilyn Joan Kirk.....	Kindergarten-Primary Education ..	San Marino
	Neil Kirschner	Anthropology	Los Angeles
	Ilse Margaret Kirste.....	English-Speech	Altadena
²	Robert Landon Kirste.....	Political Science.....	Fresno
³	John Joseph Klee, Jr.....	Geography	Los Angeles
²	Herbert Martin Klein.....	English	Los Angeles

³ Andre Eugene Kleinbardt	History	Los Angeles
Norman Kletcher	Political Science	Pasadena
Joseph Klimovitch	Bacteriology	Los Angeles
² Sharon Leigh Klitnick	Kindergarten-Primary Education	Los Angeles
Robert Riley Knepper	Prelibrarianship	Los Angeles
¹ Rosemary Ellen Knight	Spanish	Los Angeles
¹ Matthew E Knighton	Anthropology	Los Angeles
Herbert Allen Koch	Sociology	Los Angeles
Shiduko Kohno	General Elementary Education	Los Angeles
Sumiko Koketsu	General Elementary Education	Riverside
Jony Gailute Kondrat	History	Los Angeles
¹ Francine M Korda	General Elementary Education	Los Angeles
Barbara Kornblau	General Elementary Education	Reseda
¹ Abraham Kotin	English-Speech	Van Nuys
² Frederick Lester Kotkin	Zoology	Los Angeles
Patricia Margaret Kouns	Sociology	Los Angeles
Robert Milton Kradjian	Psychology	Long Beach
Robert Benjamin Kraemer	Political Science	Los Angeles
² Ernest Franklin Kramer	English	Los Angeles
Harold Krause	Spanish	Los Angeles
² Edgar Alvin Kraut	Physics	Los Angeles
Fred Allen Krebs	Spanish	Rivera
Marlene Katherine Krehbiel	Psychology	Long Beach
² Sheldon Harold Kressler	Spanish	Los Angeles
Roger Warren Kroeger	Sociology	Los Angeles
² David George Krohn	Geography	Los Angeles
Marilyn Mae Kudell	General Elementary Education	Los Angeles
¹ Joan Ann Kussy	Kindergarten-Primary Education	Los Angeles
Juanita Miguel La-anan	Presocial Welfare	Duenas, Iloilo, Philippines
¹ Albert Lewis Labinger	Political Science	Los Angeles
Simone Germaine Laidig	French	Los Angeles
Leila Sue Lambert	General Elementary Education	Los Angeles
¹ Barbara Carol Landau	English	Los Angeles
Barbara Yvette Landau	Sociology	Beverly Hills
² William Landau	English	Los Angeles
Simon Robert Landis	Political Science	Los Angeles
¹ Jane Marie Langley	English	Los Angeles
² Lawrence Herron Larson	Geography	Monrovia
² Elizabeth Lavery	Kindergarten-Primary Education	Los Angeles
Norman Ronald Lebovitz	Physics	Los Angeles
Christian Dion Ledebur	Psychology	Santa Monica
² Chong Sik Lee	Political Science	Seoul, Korea
² Claire Christman Lee	Kindergarten-Primary Education	Whittier
² Mark G Lees	Speech-English	Los Angeles
¹ Robert Jules Leib	Psychology	San Francisco
² Lester Bennett Leibson	Sociology	Los Angeles
Lionel Leon	Philosophy	Los Angeles
² Suzanne Leonardson	General Elementary Education	San Marino
Raymond Leonard Lesonsky	Zoology	North Hollywood
Judy A Levi	Psychology	Beverly Hills
Benjamin Elia Levin	Psychology	Venice
² Herbert Jay Levin	Geology	Sherman Oaks
¹ Saran Maxine Levin	Political Science	Los Angeles
² Arthur Lynn Levinson	English	Beverly Hills
Eugene Leviton	Political Science	Los Angeles
Jacqueline Louise Levy	Economics	Beverly Hills
² Marjory Kron Lewi	Kindergarten-Primary Education	Glendale
Charles Jeremy Lewis	Political Science	San Bernardino
Kenneth Edgar Lewis	Premedical Studies	Los Angeles
¹ Neil Arthur Lewis	General Elementary Education	Roscoe
² Bonnie Smith Lieb	Psychology	Anaheim

Gordon Hubert Lillis.....	Zoology	Encino
² Mary Joanne Lindsey.....	Sociology	Pasadena
Ruby Ling	General Elementary Education	Los Angeles
Richard Emery Lingenfelter.....	Physics	Redondo Beach
Shirley Ruth Link.....	Political Science.....	Alhambra
¹ Sheila List	Music	Los Angeles
Anthony Liu	Astronomy-Mathematics	Los Angeles
Bobby Ray Locke.....	History	South Gate
Lillian Loeff	Spanish	Alhambra
² Fredrika Loewenberg	Political Science	Memphis, Tennessee
³ Charles Wyatt Lomas, III.....	Geography	Los Angeles
¹ Robert Dalton Lombard.....	English-Speech	Whitman, Massachusetts
Nancy Jane Looney.....	Kindergarten-Primary Education	Los Angeles
Roberta Arlene López.....	Kindergarten-Primary Education...	Hawthorne
May Yoen Louie.....	General Elementary Education	Los Angeles
² Saralyn S Loveman.....	Economics	Long Beach
³ Carl F Lowthorp, Jr.....	History	Redondo Beach
Frederick E Ludwig.....	Spanish	National City
² William Watt Lumsden, Jr.....	Geology	Los Angeles
David Herschel Lund.....	Political Science.....	Los Angeles
Joan Annette LuPau.....	General Elementary Education.....	Burbank
² Marian Lurie	General Elementary Education	Los Angeles
² James Gray Luter, Jr.....	Speech	Torrance
Mary F Lynn.....	Psychology	Altadena
Louise Lyon	General Elementary Education.....	Van Nuys
¹ John Gilbert Lytton, Jr.....	Mathematics	Los Angeles
William Gordon MacBeth.....	Geology	Van Nuys
Janet Drusila MacOuat.....	English-Speech	San Pedro
Nicholas Maiakis	History	Athens, Greece
³ John Malik	Slavic Languages	Detroit, Michigan
Jerome Paul Maltz.....	International Relations	Beverly Hills
¹ Peggy Holmes Manning.....	Kindergarten-Primary Education	Altadena
³ John Nairn Manson.....	Political Science.....	Ojai
Bradley Marcus	Political Science.....	Los Angeles
¹ Joan Elaine Markano.....	Kindergarten-Primary Education	Los Angeles
Ronald Markman	Mathematics	Hayward
Marilyn Belle Mason.....	General Elementary Education	San Gabriel
William Marvin Mason.....	Latin-American Studies.....	Los Angeles
³ Audrey Elizabeth Masters.....	General Elementary Education.....	Glendale
³ Mary Irene Mather.....	Psychology	Los Angeles
³ Michael George Mathos.....	Political Science.....	Los Angeles
³ Edward Cosmo Matranga.....	Spanish	Burbank
³ Donald McAlpin	Political Science	Altadena
² Sarah Henderson McCall.....	English	Van Nuys
³ Carol Alice McCann.....	General Elementary Education	San Marino
³ Elaine Newhall McCarty.....	Philosophy	Los Angeles
Betty Jayne McCauley.....	General Elementary Education	Encino
¹ Charles James McCracken, Jr.....	Philosophy	Los Angeles
Moirra Lyle McCurdy.....	History	Los Angeles
² Barna A McDevitt.....	French	Hollywood
Isabelle Clara McElwain.....	Botany	Granada Hills
Julie Lynn McFarland.....	Psychology	Los Angeles
Joy Diane McGlasson.....	International Relations.....	Arcadia
Ronald Gilbert McGlone.....	Political Science.....	Los Angeles
² James Lawrence McGuffey, Jr.....	English	Maywood
Patricia Ann McIntire.....	Sociology	Santa Monica
Charles Frederick McIntosh.....	History	Los Angeles
³ Claudia Jane McKay.....	Anthropology	Long Beach
² John Clyde McKinley.....	Physics	Glendale
Nancy Ann McKinley.....	General Elementary Education	Los Angeles
Mary Lou McLaughlan.....	Psychology	Pasadena

Allan Ross McLeod.....	Psychology	Pomona
Patricia Ann McMartin.....	General Elementary Education.....	South Pasadena
³ Lawrence Patrick McNeil.....	Economics	Los Angeles
Lorna Doreen McPherson.....	General Elementary Education	Lynwood
³ Anne Paxton Mears.....	Political Science.....	Los Angeles
³ Beatrice H Mego.....	English-Speech	Los Angeles
¹ Ralph James Melaragno.....	Psychology	North Hollywood
Jack Melitz	Economics	Los Angeles
William Robert Melton.....	Political Science.....	Los Angeles
¹ Phyllis Mendelson	French	Los Angeles
Virginia Rose Menteer.....	English	Manhattan Beach
Mary Suzanne Mercer.....	English	Los Angeles
Allen Jerome Mermelstein.....	Zoology	Los Angeles
John Douglas Merrill.....	Geology	Crestline
³ Paul William Mertens.....	History	South Pasadena
¹ Richard Duane Metlen.....	Psychology	Los Angeles
¹ Charmaine Meyer	Music	Los Angeles
¹ Jane Meyer	Psychology	Los Angeles
Ellen Gale Michael.....	Psychology	Ontario
Stanley Michelson	Psychology	Los Angeles
Akemi Florence Mikawa	General Elementary Education	Los Angeles
Bryce Eugene Miller.....	Zoology	La Mesa
Donald Earl Miller.....	Psychology	Anaheim
Halvor Thomas Miller, Jr.....	History	Los Angeles
Larry Alfred Miller.....	Sociology	Santa Monica
Leah L Miller.....	English	Pasadena
Marvin David Miller.....	Political Science	Altadena
Monte Martin Miller.....	Political Science.....	Los Angeles
Ovvie Miller	Political Science.....	Los Angeles
³ Shirley LaBorde Miller.....	General Elementary Education.....	Santa Monica
³ Vena Goulet Miller.....	Psychology	San Francisco
³ Helen Jean Mills.....	Bacteriology	Compton
¹ Phyllis Mirsky	Kindergarten-Primary Education	Sherman Oaks
Reva Julie Miselman.....	General Elementary Education	Los Angeles
Karine Campbell Mock.....	French.....	Los Angeles
³ Victor Francis Mockus.....	Zoology	Bell
Holakoo Modjallal.....	Premedical Studies.....	Teheran, Iran
Evelyn Venable Mohr.....	Latin	Pacific Palisades
Carolyn Louise Moore.....	English-Speech.....	North Hollywood
Colinda Anne Moore.....	General Elementary Education	Los Angeles
Donald Phillip Moore.....	Mathematics	Beverly Hills
¹ Edward Thomas Moore.....	English	North Hollywood
Raymond D Moore.....	Astronomy	Los Angeles
¹ Adwin Allen Moors.....	History	Evansville, Indiana
Francis Joseph Moran.....	English	La Crescenta
¹ Marilyn Mae Moran.....	Psychology	Los Angeles
David Duane Mordaunt.....	French	Santa Monica
Maureen Joan Moriarty.....	General Elementary Education.....	Whittier
¹ Tsutomu Morihiro.....	History	Pasadena
Robert Joseph Morin.....	Zoology	Arcadia
Earl Robert Morley.....	Geology	Alhambra
Pierre William Mornell.....	English	Beverly Hills
Catherine Canice Morris.....	General Elementary Education	Arcadia
Maxine Andrea Mortons.....	Economics.....	Los Angeles
Marie Wortman Moseley.....	General Elementary Education	Los Angeles
Faith Arlene Mosher.....	History	Taft
Samuel Moss	Psychology	Los Angeles
Patricia Louise Mudd.....	Psychology	North Hollywood
Harold Fredrick Mueller.....	Meteorology	Santa Monica
Evelyn Mary-Elizabeth Baptistina Muñoz	Psychology	Santa Monica
Kiyoko Irene Muraoka	Kindergarten-Primary Education	Los Angeles

Lelia Lynne Murphy	General Elementary Education	Altadena
² Marie Thompson Musgrove	General Elementary Education	North Hollywood
Leonard Orion Myrup	Meteorology	Los Angeles
Leonard Howard Naiman	Zoology	San Diego
Lila Lee Naiman	History	Riverside
Ayako Nakamura	Bacteriology	Los Angeles
² Mary Mariko Nakazawa	Bacteriology	Los Angeles
¹ Charles Clement Nance	Mathematics	Glendale
Savery Lewis Nash	English	Lynwood
¹ Philip Nassief	Mathematics	Alhambra
² Marlies Natzler	Bacteriology	Los Angeles
² Margaret Eileen Neely	Music	Los Angeles
¹ Garold Duane Nelson	Speech	Lakeside
Richard Neufeld	Psychology	Reseda
¹ Nina Gail Neuschots	English	Sepulveda
Louis Harry Nevell	English	Los Angeles
Robert de Francia Neville	Philosophy	Santa Monica
Francis LaVerne Nevin	Earth Physics and Exploration	
	Geophysics	Duarte
Franklin Dupont Newbro	Philosophy and Psychology	Los Angeles
Robert Stanley Newman	English	Beverly Hills
Norah Elizabeth Newton	Anthropology	Los Angeles
² Robert Chaffers Newton	Geology	Los Angeles
Lestrita Edythe Nicholas	Spanish	Los Angeles
John Raymond Nichols	Political Science	Los Angeles
Suzanne Nichols	General Elementary Education	North Hollywood
Wayne Melville Nichols	Zoology	Long Beach
Ann Nield	Prelibrarianship	Altadena
¹ Carmelita Ileana Nieto	Spanish	Los Angeles
² Miyoko Clara Nishi	English	Los Angeles
Teruhisa Noda	International Relations	Kumamoto, Japan
Gail Marie Nolan	Zoology	Orange
Katharine Ann Noling	Philosophy	Orange
Peggy Kilgore North	History	Los Angeles
Virginia Ann North	French	Inglewood
Edward James Northup	Geology	Alhambra
Nixon Roberta Norton	Bacteriology	Santa Monica
Josephine Nufez	General Elementary Education	Los Angeles
Marion Lacadia Obera	Presocial Welfare	San Bernardino
² Deane Oberste-Lehn	Geology	Los Angeles
² Barbara Ellen Oelsner	General Elementary Education	Los Angeles
Ruth Ohmura	General Elementary Education	Santa Barbara
² Eva Toshiko Okamoto	Bacteriology	Upland
² Peer J Oppenheimer	History	Berlin, Germany
² Andyce Georgia Orde	English-Speech	Los Angeles
² Barbara Maleski O'Reilly	English	Pomona
Lewis Cleveland O'Rourke	History	Hawthorne
Helen Margaret Orr	History	La Crescenta
Stanley John Paluch	Sociology	North Hollywood
Jina Pamataitis	History	Los Angeles
¹ Annette Roberta Pareira	General Elementary Education	Los Angeles
¹ Olgo Parfen	Bacteriology	Altadena
Heath John Park, Jr.	Political Science	Los Angeles
Lawrence Park	Zoology	Los Angeles
² Rada Diane Parker	General Elementary Education	Burbank
¹ Elizabeth Ruth Parkinson	General Elementary Education	Los Angeles
Raymond Edgar Paschke	Political Science	Colton
Peter Palmer Passanisi	Political Science	Oakland
¹ Charles Lee Patrick	Political Science	Anaheim
Theodore Russell Paulson, Jr.	Economics	Porterville
Ronald Michael Pavalko	Sociology	La Jolla

² Louis Anthony Pavlovich	Political Science	Van Nuys
Howard Walter Payne	Economics	Pasadena
Christine C Pearson	Kindergarten-Primary Education	Los Angeles
Claudette Renee Pene	General Elementary Education	Los Angeles
James Ronald Pengilly	Political Science	Los Angeles
Victor Anthony Penunuri	International Relations	Los Angeles
³ Murray Sidney Pepper	Zoology	Los Angeles
¹ Robert Allan Perelman	Political Science	Los Angeles
¹ Jona Abraham Perlmutter	Zoology	Montebello
³ Ellen Frances Perlstein	Speech	Los Angeles
Lynel Louis Perry	Economics	South San Gabriel
Mildred Edna Peskay	Kindergarten-Primary Education	Van Nuys
³ Patricia Lee Peters	Kindergarten-Primary Education	Sherman Oaks
Edward Petko	Political Science	Los Angeles
Kurt David Philipp	Economics	Los Angeles
² Charles Albert Phipps	Mathematics	Sierra Madre
Anne Aetheline Pillsbury	Prelibrarianship	Los Angeles
Edward Dale Pittman	Geology	Gardena
Louis Joseph Poliner	Political Science	Ocean Park
Paula Annette Politte	Bacteriology	Bellflower
William Polski	Geology	Ojai
Albert Walcott Poppen	History	Santa Ana
² Martin Allan Pops	Bacteriology	Los Angeles
³ Peter Paul Porcasi	English	North Hollywood
Nancy Daisy Porter	Sociology	Los Angeles
Martin Posner	Physics	Pasadena
Edith Geyler Potter	German	Sherman Oaks
LeRoy Raymond Price	Physics	Burbank
Patricia Jean Price	English	Taft
Klaus H Pringsheim	Political Science	Los Angeles
Glenn Gary Prowell	History	Manhattan Beach
Barbara Helen Pryor	English	Encino
Heinz Werner Puppe	German	Los Angeles
Jean Geraldine Puttler	General Elementary Education	Long Beach
³ Charles Nelson Quigley	Philosophy	Beverly Hills
Joyce Quigley	Kindergarten-Primary Education	Glendale
Sanford Ragins	Individual Field of Concentration	Los Angeles
¹ Dolores Helen Ramos	General Elementary Education	San Pedro
Elva V Ramos	General Elementary Education	Los Angeles
¹ Charles Virgil Ramsey	Geography	Huntington Park
Louis Allen Raphael	Mathematics	Los Angeles
Leonard Alan Rapping	Economics	Los Angeles
Edward Rawlinson, Jr.	English	Los Angeles
Carmen Mata Read	Political Science	Hollywood
Richard Franklin Read	Geography	Burbank
¹ John David Rees	Geography	Los Angeles
Donald John Regan	Economics	Los Angeles
¹ D William Reichner	Psychology	Culver City
Harriet Reif	History	Los Angeles
¹ Leo Rennert	French and Political Science	Los Angeles
Naomi Sarah Replansky	Geography	Venice
Richard William Reschke	Zoology	Brooklyn, New York
Rosemarie Agnes Restivo	General Elementary Education	Glendale
Clyde Edmond Rexrode	Political Science	Sunland
Caroline Ann Rheinschild	General Elementary Education	Pasadena
² Carol Martin Rice	General Elementary Education	San Gabriel
Phyllis Cal Richard	General	Hollywood
² George Richman	Mathematics	Los Angeles
Alden Paul Richter	Meteorology	Van Nuys
² Ingeborg Helena Ricker	German	Venice
Morton Rieber	Psychology	Los Angeles
² Donna Marie Ries	Psychology	Los Angeles

Barbara Janice Riesner.....	General Elementary Education....	Los Angeles
Morton Louis Riff.....	Political Science.....	North Hollywood
Barbara Dianne Riley.....	Sociology.....	Los Angeles
Diane Gay Riley.....	General Elementary Education.....	Van Nuys
Patricia Gail Rising.....	Sociology.....	North Hollywood
Donald Bennett Roberts.....	International Relations.....	Bell
Hal Cleveland Roberts.....	Religion.....	Los Angeles
Stanley Irwin Robin.....	History.....	Los Angeles
Vivian Josephine Robinson.....	English-Speech.....	Los Angeles
James Orval Robison.....	Psychology.....	South Gate
Tully Matthew Robison.....	Geology.....	Los Angeles
Angelita Cruz Robles.....	Psychology.....	Hollywood
Johnetia Rodgers.....	English.....	San Antonio, Texas
² Audrey Marie Rogers.....	General Elementary Education.....	Whittier
² Carolyn Harriett Rogers.....	General Elementary Education.....	Corona
Gabrielle Marie Roletti.....	Kindergarten-Primary Education..	Los Angeles
Lorraine Judith Rona.....	Spanish.....	Santa Monica
² Marilyn Hill Rooney.....	Kindergarten-Primary Education..	Santa Ana
Nancy Joyce Rose.....	Kindergarten-Primary Education..	Los Angeles
Selwyn Rose.....	Psychology.....	Los Angeles
Marvin Stanley Rosen.....	History.....	Los Angeles
² Patricia Joy Rosenblum.....	Kindergarten-Primary Education..	Beverly Hills
¹ Alice Joy Rosenfeld.....	General Elementary Education....	Los Angeles
² Melvin Rosenfeld.....	Mathematics.....	Los Angeles
² Marcia Kahan Rosenthal.....	Sociology.....	Los Angeles
¹ Marlene Rose Rosenthal.....	General Elementary Education....	Los Angeles
Paul Irwin Rosenthal.....	Political Science.....	Los Angeles
² Virginia Lee Rosenthal.....	Mathematics.....	Cleveland, Ohio
Robert Ross.....	History.....	Santa Monica
² Neil Findlay Rosser.....	Geology.....	Long Beach
² Dorothy Letitia Riggs Rouse.....	English.....	Santa Monica
² Naomi Rovner.....	Political Science.....	Los Angeles
² Roselyn Marie Rowland.....	General Elementary Education....	Long Beach
² Marilyn Roy.....	General Elementary Education....	Los Angeles
Charles Shelton Rozzelle.....	Economics.....	San Gabriel
² Shirley Helen Rubin.....	Geography.....	Los Angeles
Sandra Rubinstein.....	General Elementary Education.....	Whittier
¹ Doris Anne Russell.....	English-Speech.....	Huntington Park
² Dorothy Ann Russell.....	History.....	Los Angeles
² Joan Karin Russell.....	French.....	Los Angeles
Charles Rutkin.....	Political Science.....	Los Angeles
Edward Francis Ryan.....	English.....	Berkeley
² Gail Margaret Ryan.....	Zoology.....	Los Angeles
Thomas Rabwin Rykoff.....	Zoology.....	Beverly Hills
² Jeanie Tomoe Saito.....	Bacteriology.....	Los Angeles
Edward Eugene Sampson.....	Psychology.....	Los Angeles
² Ephriam Gerald Sando.....	English.....	Los Angeles
James Albert Sandoval.....	Botany.....	Los Angeles
² Allan Wayne Sandstrum.....	Political Science.....	Pasadena
Patricia Ann Sanjacom.....	General Elementary Education....	Los Angeles
² Richard Brant Saul.....	Geology.....	Altadena
John Turk Saunders.....	Philosophy.....	Beverly Hills
¹ Martha Manning Sausser.....	Kindergarten-Primary Education..	Los Angeles
² Donald Nelson Sawyer.....	History.....	Visalia
¹ Ann Florence Saxon.....	General Elementary Education....	Los Angeles
Marnette Lucul Saz.....	English.....	Van Nuys
Geoffrey Watson Scammell.....	Geography.....	Venice
¹ Jere Miller Scanlon.....	English.....	Lancaster, Pennsylvania
Helen Schaeffer.....	General Elementary Education....	Los Angeles
¹ Lona Margaret Schechtman.....	Political Science.....	Los Angeles
¹ Ronald London Scheinman.....	Political Science.....	Los Angeles

² Nancy Jane Schekman	General Elementary Education	Los Angeles
¹ Richard Schenk	Political Science	Santa Monica
¹ Barbara Schimmel	Psychology	Burbank
² Carole Ellen Schindler	General Elementary Education	North Hollywood
Charles Herbert Schiro	Zoology	Pacoima
¹ Richard Allen Schlater	History	Kenosha, Wisconsin
Christian William Schmidt	Geology	Downey
Naomi Margaret Schneck	French	North Hollywood
Jacqueline Thayer Schnell	General Elementary Education	Los Angeles
Janet Schnepf	History	Fontana
² Walter Wesley Schoenberger	Zoology	Long Beach
Russell Fischer Schooling, Jr.	Political Science	Huntington Park
Claudia Wright Schott	General Elementary Education	Glendora
² Douglas John Schramel	Psychology	Los Angeles
Peter Otto Schratter	International Relations	North Hollywood
Mary Ann Schroeder	Psychology	San Diego
Irwin Schulman	Political Science	Los Angeles
² Marvin Edward Schulman	History	Los Angeles
Yvette Schulman	French	Los Angeles
² Barbara June Schumann	History	Tujunga
² Allan Raymond Schummer	Political Science	Los Angeles
² Evelyn Hill Schwartz	English	San Fernando
Marianne Philippa Schwartz	Sociology	Hollywood
¹ Sheldon Oscar Schwebel	Bacteriology	Los Angeles
Eugen Karl Homer Schwedler	English	Reseda
Barbara Jean Scott	Slavic Languages	Santa Monica
Bruce Floyd Scrivens	Zoology	Redondo Beach
² Mary Lenore Seavey	History	Altadena
Lorraine Amelia Sehr	General Elementary Education	Anaheim
Marvin Irwin Seid	English	Los Angeles
Fern Victor Seizer	English-Speech	Los Angeles
William Robert Selleck	English	Los Angeles
Louis Charles Semprebon	Physics	Barre, Vermont
² Carmen Philip Sferrazza	Bacteriology	Bell
² Diana Shahbaghlian	General Elementary Education	Los Angeles
² Sidney Mortimer Shapero	Bacteriology	Los Angeles
Gloria Irene Shapiro	General Elementary Education	Beverly Hills
Richard Allen Shapiro	English	Los Angeles
Bernard Shearer	Psychology	Los Angeles
² Carolyn Dee Sheldon	General Elementary Education	Los Angeles
Saul Joseph Sherter	Anthropology	Los Angeles
George Emerson Shields	Public Service	Woodland Hills
² Henry Shimozono	History	Los Angeles
Lily Yuriko Shintani	French	Los Angeles
Charles R Shipman	Bacteriology	Dinuba
² Setsuko Shishido	General Elementary Education	Wailuku, Maui, Territory of Hawaii
² Donald Sylvan Shulman	Political Science	Los Angeles
Arnold Walter Siegel	Physics	Burbank
² Irwin Jules Siegel	Psychology	Los Angeles
Marlene G Siegel	Presocial Welfare	Santa Monica
Patricia Ann Siegel	General Elementary Education	Sherman Oaks
² Herman Sillas, Jr.	Political Science	Los Angeles
William Silva	Spanish	Los Angeles
Sally Jane Silverberg	English	Sherman Oaks
Paul Charles Silverstein	Psychology	Los Angeles
Martin Adrian Sklar	Political Science	Long Beach
Beatrice Sklarewitz	French	Pacific Palisades
Elizabeth Jean Sladics	Bacteriology	Pasadena
² Joyce Slater	General Elementary Education	Manhattan Beach

	Donald Louis Smelser	Sociology	Gardena
²	Allan Edgar Smidt	Zoology	Venice
	Albert Carl Smith	Zoology	Venice
¹	Barbara Sloan Smith	Sociology	Los Angeles
	David Charles Smith	English-Speech	Glendale
	George Stahl Smith	Zoology	Long Beach
	John Anthony Smith	Zoology	Huntington Park
	John Henry Smith, Jr.	Psychology	Los Angeles
	Phyllis Dobson Smith	General Elementary Education	Los Angeles
²	William Bryan Smith	Zoology	Madera
²	Zelma June Smith	English	Los Angeles
	Norton Joel Snyder	Premedical Studies	Los Angeles
	James Bernard Sohler	Physics	Portland, Oregon
²	Leatrice Sokoloff	Kindergarten-Primary Education	Los Angeles
	Mary Joan Solow	English	Tulsa, Oklahoma
²	Doris Soppe	General Elementary Education	Los Angeles
	Jack Douglas Sorter	French	Sherman Oaks
	Michael Edward Spautz	Psychology	Los Angeles
¹	Arnold Spellman	Bacteriology	Los Angeles
¹	Charlene Mae Spellman	Sociology	Alhambra
	Sandra Mariann Spencer	Spanish	Long Beach
	Sidney France Sperbeck	Sociology	South Pasadena
	Ruth Thelma Spielman	Psychology	Los Angeles
	Charles Edward Spooner	Zoology	Boston, Massachusetts
	Josephine Squillaci	Prelibrarianship	Pasadena
	James Frederick Stahl	Economics	Pasadena
	Frank Peter Stagen	Political Science	Los Angeles
	Edwards Lyman Stalcup	History	Los Angeles
²	Jack Staitman	Political Science	Los Angeles
	Eleonore Rita Stansell	English-Speech	Van Nuys
²	Beverly Mae States	Kindergarten-Primary Education	Altadena
	Augustus Lee Staton, Jr.	Political Science	Santa Ana
	Robert Sheldon Stein	Psychology	Beverly Hills
¹	Alex Steinberg	Political Science	Los Angeles
	Andrew Roger Steinberg	Political Science	Los Angeles
²	Thomas Robert Steiny	Geology	Los Angeles
²	Diana Kathleen Stendel	Anthropology	Los Angeles
²	David Harold Stern	Economics	Los Angeles
	Vivienne Joy Stern	English	Los Angeles
	Florolyn Eunice Sterns	Mathematics	Los Angeles
	Anne Elizabeth Stewart	General Elementary Education	Los Angeles
²	Donald Irving Stewart	Physics	Vista
²	Richard Frank Stewart	English-Speech	Los Angeles
	Stanley Nordahl Stewart	English	Los Angeles
	Jamie Stewart-Bentley	Psychology	Los Angeles
²	Connie Orr Stofel	General Elementary Education	Glendale
	Merlin Stonehouse	History	Hollywood
²	Vinci Victoria Strahan	Italian	Hawthorne
	E Conway Stratford, Jr.	Zoology	Los Angeles
	Robert Arnold Stringer	Political Science	San Marino
²	Norman Irvine Strong	Public Service	Long Beach
¹	Ann Parker Stuart	Geography	Los Angeles
²	Mary Ogden Stuart	English	Los Angeles
²	Ruth Elsie Stull	Political Science	Downey
	Robert Arthur Styles	Political Science	Los Angeles
	Elizabeth Anne Sudenga	Speech-English	Long Beach
²	Stephen Francis Sumlicz	French	Los Angeles
	Dorothy Ruth Sundgren	History	Baldwin Park
	John Wallin Sundsten	Zoology	Seattle
²	Colleen Margaret Sunstrom	General Elementary Education	Glendale
	Samuel Sussman	Political Science	Los Angeles

¹ Barbara Jane Sutherland	General Elementary Education	Sherman Oaks
Gerald Michael Sutton	Political Science	Venice
² Miriam Esther Sutton	General Elementary Education	Los Angeles
¹ Miriam Sweeney	General Elementary Education	Los Angeles
² Alan Jerome Swimmer	Political Science	San Francisco
² Theresa Mary Szot	General Elementary Education	Northridge
Kenneth Tabachnick	Psychology	Los Angeles
² Bruce Vernon Talbert	Psychology	Los Angeles
Marian Louise Tams	English	Beverly Hills
George Taniguchi	Meteorology	San Francisco
² Philmore Gerald Tankin	English-Speech	Los Angeles
¹ June Helen Tannenbaum	English	Los Angeles
¹ Walter Barry Tannenbaum	Psychology	Los Angeles
Marilyn Joy Taylor	General Elementary Education	Van Nuys
Carolina Louisa Teague	English-Speech	Los Angeles
Ronald Tepper	Psychology	Los Angeles
Ricardo Martinez Terrones	History	Los Angeles
² Shirley Louise Terry	General Elementary Education	Los Angeles
¹ Howard Lloyd Thaler	Political Science	Los Angeles
Fred Thalheimer	Sociology	Van Nuys
² Susan Hilbert Thiel	Kindergarten-Primary Education	Los Angeles
Chris Efthemios Thomas	Political Science	Burbank
John William Thomas	History	Los Angeles
Ross Fredrick Thomas	Psychology	El Segundo
Valerie Lou Thomas	English	Los Angeles
² Carolyn Ruth Thompson	General Elementary Education	Glendale
¹ Leon Thompson	General Elementary Education	Los Angeles
² Martha Ellyn Thompson	General Elementary Education	Orange
Paul Russell Thompson	Premedical Studies	Alhambra
Bernice Adele Thorne	Psychology	North Hollywood
Joseph Lane Tilson	English	Long Beach
² Barbara B Timoner	English	Los Angeles
Ying Ji Ting	Economics	Los Angeles
¹ Birger Olaf Tinglof, Jr.	Premedical Studies	Los Angeles
Harold Wesley Titus	History	Pasadena
¹ Elizabeth Louise Tomasini	General Elementary Education	San Luis Obispo
Lillian Tomich	Political Science	San Gabriel
Nancy Ellen Towle	English	Santa Monica
² Thomas Gordon Treanor	Political Science	Los Angeles
² Peter Gust Tripodes	Philosophy	San Marino
² Wallace Donald Truesdell	General Elementary Education	South Gate
Ernest Floyd Trujillo	Geology	San Francisco
Esther Royce Trynin	History	Pasadena
John M Tsao	Zoology	Los Angeles
² C Allen Tucker	English	Los Angeles
Vinsent Daniel Tukuloff	Psychology	Compton
Marion Anna Turk-Rosenblum	Sociology	Van Nuys
² Charles Harper Turner	Zoology	Pacific Palisades
Walter Esmond Turovh	Psychology	Hollywood
² Setsuko Umeda	Presocial Welfare	Oxnard
James Gray Up de Graff	Premedical Studies	Los Angeles
Kiyoko Lynn Uyetake	General Elementary Education	Los Angeles
Michelle Robyn Vale	Political Science	Pacific Palisades
² Janice Thais Vall	Speech	Los Angeles
² Donald Robert Vallance	Geography	Beverly Hills
John Howard Van Amringe	Geology	Altadena
Judy Frances Vance	Psychology	Hollywood
² John Anthony Van Couvering	Geology	Los Angeles
¹ John Anton Van de Wouw	Earth Physics and Exploration Geophysics	Santa Monica
Marjorie Van Dox	General	Detroit, Michigan

² David Berl Van Every	Zoology	Santa Monica
Peter Curtis Vanlaw	Psychology	Sherman Oaks
Louise Mary Vanslager	Zoology	San Diego
³ Mathilda Van Zele	Geology	Los Angeles
¹ Beverly Mae Vaughn	Political Science	Los Angeles
Florence Cornelius Vaughn	Economics	Tucson, Arizona
³ Helen Elizabeth Vida	Anthropology	Temple City
Stanley Vignos	English-Speech	Pacoima
Nancy Ann Vinum	Kindergarten-Primary Education	Los Angeles
Rita Volkman	Sociology	Los Angeles
³ Richard Louis Vonier	History	Rivera
James Cortis Vowiel	Anthropology	Oakland
³ Jo Ann Wacht	Speech	Los Angeles
Grace Miyako Wada	Presocial Welfare	Los Angeles
³ Helen Walder	Kindergarten-Primary Education	Los Angeles
Charles Perry Walker, Jr.	International Relations	Manhattan Beach
³ Laurence Noel Walker	Physics	Los Angeles
¹ Robert Gerald Wallenberg	Spanish	Redondo Beach
¹ Morton Bernard Walley	Economics	Los Angeles
³ David Evan Wallick	Psychology	Los Angeles
¹ Marvin Gordon Wallis	International Relations	Los Angeles
¹ Clyde Richard Walters	Economics	Santa Monica
Elmer Walters	History	Sherman Oaks
Leslie Harold Wantz	History	Hermosa Beach
³ Anne Nelan Ward	English	Santa Monica
Helen Therese Ward	General Elementary Education	Los Angeles
James Wolfe Warren	Zoology	Los Angeles
Helen Ainsworth Warrick	Sociology	Los Angeles
Isabella Larrimore Warwick	Presocial Welfare	Beverly Hills
³ Jean Pauline Warwick	General Elementary Education	Culver City
Diane Edith Watson	General Elementary Education	Los Angeles
³ Harriette Huffman Watters	Kindergarten-Primary Education	Santa Ana
¹ Burton Quayle Watterson	Presocial Welfare	Van Nuys
³ Stephen Maier Wayne	Zoology	Los Angeles
Ronald Albert Webb	International Relations	Los Angeles
Murray Nathan Weiler	Psychology	Los Angeles
Charlotte Shoshana Weingarten	Psychology	Los Angeles
³ Donald Jay Weinstock	English	Los Angeles
² Helene Suzette Weinstock	Political Science	Los Angeles
Lois Margaret Weir	General Elementary Education	Altadena
³ Daniel Arnold Weiss	Psychology	Los Angeles
³ Jerry Weiss	Political Science	Santa Monica
Joan Weissman	General Elementary Education	Los Angeles
William Hexley Wells, Jr.	Sociology	Woodland Hills
Sandra June Werdesheim	Sociology	Los Angeles
Wanda Lee Wessel	General Elementary Education	Altadena
¹ Lee Ann Hart Westover	German	San Bernardino
John Carl Wetzel	Sociology	Los Angeles
³ George Whipple, Jr.	History	Santa Monica
Donald Stanley White	Political Science	Beverly Hills
Joan Louise White	General Elementary Education	Burbank
³ Steffi L White	Psychology	Los Angeles
Claudell Whitehurst	Speech-English	Los Angeles
Richard Hobbs Whiteman	Political Science	Hollywood
³ Peggy Louise Whitfield	General Elementary Education	Los Angeles
Dorothy Jean Whittaker	Psychology	Manhattan Beach
Charles Oliver Wiand, Jr.	Psychology	North Hollywood
Roger Frank Wickland	Psychology	San Carlos
Joseph Paul Wiesel	Sociology	Glendale
³ Ralph Bennett Willen	Bacteriology	Los Angeles
² James Jerome Williams	Geology	Los Angeles

Marian Cecilia Williams	Kindergarten-Primary Education	Los Angeles
² Merrilyn Jean Williams	Kindergarten-Primary Education	Glendale
Thomas David Williams	English	Burbank
² Marie Louise Willimann	Internatoinal Relations	Brunnen, Switzerland
Marilyn Sutton Wilson	History	Fresno
³ Nancy Sebastian Wilson	General Elementary Education	Beverly Hills
Patricia Ann Wilson	English	Los Angeles
³ Shane Marquis Wilson	History	Los Angeles
² Jack Jay Winer	Bacteriology	Los Angeles
³ Alice N Wing	Bacteriology	Los Angeles
William Harold Wingfield	English	Glendale
William Wittenberg	English and Political Science	Los Angeles
Carolyn Ruth Wolfe	General Elementary Education	Los Angeles
³ Lillie Katherine Wollin	English	Beverly Hills
Sloo Jee Wong	Bacteriology	Los Angeles
¹ Lynn Hillary Woodbury	General Elementary Education	Altadena
² Glen Douglas Woodmansee, Jr.	Speech	Santa Monica
¹ Edwin Fredric Woodward	Political Science	San Gabriel
Robert Murray Work	English	La Crescenta
Barbara May Wright	Kindergarten-Primary Education	Los Angeles
David Loren Wright	Zoology	Hermosa Beach
Lan Sing Wu	Zoology	Encino
Maxine M Wyers	History	Los Angeles
³ Doris Rose Yabes	Spanish	Oxnard
Edwin Yamada	Zoology	Los Angeles
³ Kay Kiyoko Yamamoto	Kindergarten-Primary Education	Los Angeles
³ Emi Yamashiro	Oriental Languages	Los Angeles
Miyoko Janet Yoshida	General Elementary Education	Los Angeles
Laura Lea Young	English-Speech	Van Nuys
³ Paul Henry Young, Jr.	Philosophy	Los Angeles
William Harold Young	Geography	Glendale
³ Joseph Louis Yousem	Political Science	San Fernando
Aroxy Mary Zadourian	General Elementary Education	Los Angeles
³ Joseph Israel Ziony	Geology	Burbank
³ Betty Jo Zollinger	English	San Fernando
³ Gunther Joseph Zorn	Political Science	Los Angeles
¹ Victoria Zupancich	General Elementary Education	San Pedro

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Science upon

Anne Marie Asher	Chemistry	Los Angeles
Margaret Ann Aultman	Chemistry	Los Angeles
³ James Kenneth Barr	Chemistry	Riverside
Phillip Alvin Benson	Chemistry	Long Beach
³ Earl Robert Berkson	Chemistry	Los Angeles
Richard Allen Blaine	Applied Physics	Beverly Hills
² James Christian Branch	Chemistry	Santa Ana
³ Henry James Brown	Chemistry	National City
³ Charles Albert Brunell	Chemistry	Los Angeles
Gerald Gordon Comisar	Applied Physics	Venice
Larry Russell Cooper	Applied Physics	Hollywood
David Jesseron Crabtree	Chemistry	Santa Monica
³ Harold Arthur Danielson	Applied Physics	Glendale
Robert Garing Dillard, Jr.	Chemistry	Beverly Hills
Charles Amond Drouet, Jr.	Chemistry	Pasadena
³ Phillip S Duke	Chemistry	Los Angeles
Roland Dung	Chemistry	Los Angeles
George William Randle Endres	Applied Physics	Inglewood
Melvin Feiner	Chemistry	Los Angeles

³ Dwight Albert Fine	Chemistry	Sunland
Audree Vernee Fowler	Chemistry	Los Angeles
² Jeanne Louise Gollard	Chemistry	Santa Monica
Robert William Green	Chemistry	Burbank
Stanley Edward Green	Chemistry	Pacific Palisades
Samuel Norton Greenschlag	Chemistry	Los Angeles
² George Stanley Handler	Chemistry	Los Angeles
William Merl Harris	Chemistry	Los Angeles
Diane Joy Henry	Chemistry	Los Angeles
³ Ronald Clive Housden	Applied Physics	Glendale
Robert Jack Johnson	Applied Physics	Venice
² Robert Allen Jones	Chemistry	Los Angeles
² Ephraim Frank Korman	Chemistry	Los Angeles
Theodore Haig Koundakjian	Chemistry	Pasadena
² Andrew Simon Kurkjian	Chemistry	Riverside
Phillip Noel LaMori	Chemistry	Anaheim
Richard Lamoureux	Chemistry	Pacific Palisades
Robert Aldo Lazzarini	Chemistry	Van Nuys
Mun Fa Lee	Chemistry	Los Angeles
Peter Albert Lehman	Chemistry	Mexico City, Mexico
Carl Philip Lewis	Chemistry	Redondo Beach
Kenneth Lui	Chemistry	Los Angeles
¹ James Bigler Lyman	Chemistry	Los Angeles
Mauricio Raphael Marchesini	Chemistry	Los Angeles
³ James Willard Mason	Chemistry	Los Angeles
Gerald John McDonald	Chemistry	Lennox
³ Robert Lesley Meeker	Chemistry	Downey
Francis Kiyoshi Mikawa	Chemistry	Los Angeles
Blaine Lewis Montgomery	Chemistry	Los Angeles
² Gregory Joseph Mouri	Chemistry	Los Angeles
Fred Ephraim Nathanson	Chemistry	Los Angeles
Norman Blake North	Applied Physics	Bell
² Gordon Donald Osterhues	Applied Physics	Maywood
Barbara Ann Parker	Chemistry	Los Angeles
² Wallace Harold Pippin	Chemistry	Rosemead
² Cedric Moberly Poland	Applied Physics	Sherman Oaks
¹ William Joseph Rezac	Chemistry	Oceanside
² Melvin Bernard Robin	Chemistry	Los Angeles
² Harold Edward Rumenapp	Chemistry	Ann Arbor, Michigan
William Silvey	Applied Physics	Los Angeles
Thomas George Spiro	Chemistry	Los Angeles
Donald Hubert Stewart	Chemistry	San Bernardino
² Seigi Tadokoro	Applied Physics	Vancouver, British Columbia, Canada
Richard Edward Wilde, Jr.	Chemistry	Los Angeles

SCHOOL OF NURSING

The Degree of Bachelor of Science upon

Shirley May Belon	Inglewood
Anita Dorothea Berg	Honolulu, Territory of Hawaii
¹ Edith Bernica	Santa Ana
Florence Zaiman Binder	Los Angeles
Mary Jean Bladholm	Huntington Park
Betty Joyce Bock	Alhambra
Ann Brooks Bonne	Santa Barbara
Charlotte Elizabeth Brown	Glendale
Suzanne Buck	Hollywood
Helen Susan Buckley	Los Angeles
² Frances Anne Decker	Los Angeles
² Martha Snyder Gilchrist	Long Beach

Yoko Elaine Hamabe	Montebello
² Marguerite Olmstead Hamilton	Sherman Oaks
Dorothea Hansen	Los Angeles
¹ Juliet Marie Harris	St. Louis, Missouri
Grace Shizuka Hata	Los Angeles
Lyola Marie Henry	Los Angeles
Madelyn Grace Holman	Los Angeles
² Elisabeth Jones Humphreys	Santa Barbara
Sanaye Kagawa	Los Angeles
Eleanor Elizabeth Kennedy	Los Angeles
Mary Jane Kilgore	Los Angeles
Frances Malvine Klinkerman	Glendale
² Ruth Smith Kuhn	San Mateo
M Elizabeth Laws	Los Gatos
Betty Irene Lewis	Los Angeles
² Betty Jane Lovett	Colton
Miriam Carla Lull	Wilmette, Illinois
Lura Jane Lutz	San Gabriel
Irene Evelyn Markham	San Diego
Aurora Martinez	Long Beach
Mary Gwendolyn McAree	Santa Barbara
Janet Lee Meyer	Los Angeles
¹ Glenda Gay Miller	Alhambra
¹ Carolyn Kurz Morrissey	Yonkers, New York
Reiko Nagumo	Los Angeles
Margaret Neumann	Glendale
Eleanor Alice May Newby	Vallejo
² Leslie Eloise Orth	San Fernando
² Emma Marie Pascente	Segundo, Colorado
Elena Anne Paxton	San Pedro
¹ Elizabeth Mae Pohlman	Burbank
Betty Lou Poole	Fullerton
Eleanor Lucile Ragan	Balboa Island
¹ Helen Margaret Riley	Los Angeles
² Lula Mae Rodgers	Los Angeles
Beulah Opal Rowlison	Los Angeles
Dorothy Lee Smith	Los Angeles
Ann Carol Snoddy	Huntington Park
² Billie Kathryn Spears	Charleston, West Virginia
Frances Sadako Tanamachi	Whittier
Mary Ruth Thames	Decatur, Texas
Jane Ellen Wadlington	Ojai
Gertrude Smith Watson	Los Angeles
Linda Elizabeth Wootton	Taft
² Annette May Yampolsky	Los Angeles

SCHOOL OF PUBLIC HEALTH

The Degree of Bachelor of Science upon

Theo Earl Brey	Public Health	.....	Kelso
David Lee Gabele	Public Health	.....	Pomona
David Arnold Kandel	Public Health	.....	Los Angeles
Barry Karlin	Public Health	.....	Tucson, Arizona
Jerome Burton Kornfeld	Public Health	.....	Los Angeles
Herbert Gerald Needman	Public Health	.....	Van Nuys
Morton Nelson	Public Health	.....	North Hollywood
Harry Roy Paugstat	Public Health	.....	Upland
Irwin Lawrence Reiner	Public Health	.....	Los Angeles
Richard Charles Ryder	Public Health	.....	Los Angeles
Howard Benjamin Spielman	Public Health	.....	Los Angeles
David Stevenson	Public Health	.....	Los Angeles

SCHOOL OF LAW*The Degree of Bachelor of Laws upon*

Burton Melvin Bentley	Los Angeles
A.B. 1950	
Martin Jerry Bleckman	Los Angeles
A.B. 1953	
Bruce Jay Bonne	Santa Barbara
A.B., Augustana College, 1950	
John Raymond Broderick, Jr.	Beverly Hills
A.B., Stanford University, 1953	
Sheldon Harris Brown	Van Nuys
B.S., University of California, Berkeley, 1951	
John A Calfas	Los Angeles
B.S. 1951	
Manly David Calof	Los Angeles
A.B. 1953	
Donald Lincoln Clark	Manhattan Beach
A.B., Yale University, 1951	
William Cohen	Los Angeles
A.B. 1953	
Louis Wilson Cook	Los Angeles
A.B. 1953	
Marcus Esketh Crahan, Jr.	Los Angeles
A.B., Claremont College, 1951	
¹ Joseph Eliezer Crispi (Krispis)	Los Angeles
Law Diploma, University of Thessalonika, Greece, 1942; A.B. 1953	
Harold J Delevie	Los Angeles
A.B. 1953	
² June Trickey Delling	Los Angeles
A.B. 1951	
Jerry Edelman	Los Angeles
B.S. 1950	
Herschel Theodore Elkins	Beverly Hills
A.B. 1951	
Julian Barry Fensten	Los Angeles
A.B., University of California, Berkeley, 1953	
Robert Lawrence Freyer	Los Angeles
B.S., Columbia University, 1951	
Newell John Gardner	Los Angeles
A.B. 1941	
Florentino Garza	Santa Monica
A.B., University of New Mexico, 1950	
Charles Morton Glasman	Van Nuys
A.B. 1952	
Mervin Norman Glow	Los Angeles
A.B. 1953	
Irwin Donald Goldring	Los Angeles
B.S. 1953	
Charles Gordon	Los Angeles
B.B.A., City College of New York, 1951	
Arnold Thaddeus Guminski	Los Angeles
A.B., University of Buffalo, 1952	
John Rulon Hansen, Jr.	Los Angeles
A.B., Brigham Young University, 1953	
Guy Carleton Hunt	Santa Monica
A.B. 1953	
Lelia Honig Jabin	Los Angeles
A.B. 1953	

Harold Gilbert Jones, Jr.	Claremont
B.E., Yale University, 1948	
¹ Richard Bowman Jones	Los Angeles
A.B. 1952	
Stuart Paul Kaplan	Los Angeles
B.S. 1953	
Harold Thomas Kay, Jr.	Los Angeles
B.S., University of Utah, 1953	
Benjamin Earl King, Jr.	Santa Monica
B.S., University of Oregon, 1951	
Kenneth Edmund Kulzick	Los Angeles
Ph.B., Marquette University, 1950	
Philip Morton Kurtz	Los Angeles
B.S. 1953	
Ivan Eugene Lawrence	Reseda
A.B., George Pepperdine College, 1951	
Howard Norman Lehman	Van Nuys
B.S., University of Southern California, 1953	
L Guy Lemaster, Jr.	Culver City
A.B., Otterbein College, 1947	
Paul Levinson	Santa Monica
B.S. 1953	
Bernard Lawrence Lewis	Los Angeles
A.B. 1953	
Ellen Gabriele Mainzer	Van Nuys
A.B. 1953	
Ralph LeRoy McKnight	Los Angeles
B.S. 1949	
Joseph Dennis McNeil	Los Angeles
B.S. 1953	
¹ Peter Hamilton Milham	Los Angeles
A.B. 1952	
Milton Louis Miller	Beverly Hills
A.B. 1953	
John Willis Miner	Los Angeles
A.B. 1950	
Allen Mink	Van Nuys
A.B., Tulane University, 1953	
Oscar Maynard Monk	Santa Monica
B.S. 1950	
Irving Neiman	Los Angeles
A.B., University of Connecticut, 1953	
Charles Kenneth Nogle	Los Angeles
B.S. 1952	
Frank Bowen Oberhansley	Los Angeles
A.B. 1953	
George Richard Phillips	Los Angeles
B.S. 1950	
Gerald Lyle Polone	Whittier
B.S. 1953	
Thomas Joseph Reilly	Inglewood
A.B. 1953	
J Paul Rems, Jr.	Los Angeles
A.B., Cornell University, 1949	
Robert Lawrence Rifkin	Los Angeles
A.B. 1950	
George Ritner	Los Angeles
B.S. 1950	
Norman David Rose	Los Angeles
B.S. 1950	
Allen Maxwell Rosenthal	Los Angeles
B.S. 1952	

Marvin David Rowen	Los Angeles
B.S. 1953	
Karl Meger Samuelian	Los Angeles
A.B. 1953	
Morris Schachter	Los Angeles
B.S., Wayne University, 1948	
Thomas Robert Sheridan	Los Angeles
A.B., Catholic University of America, 1953	
Sidney Robert Shiffman	Los Angeles
A.B., University of Manitoba, Canada, 1948	
Corinne S Shulman	Los Angeles
A.B. 1952	
Richard Sinsheimer	Los Angeles
A.B. 1943	
Harvey Allen Sisskind	Los Angeles
B.S. 1953	
Charles Ellsworth Small	Los Angeles
B.S. 1950	
Herbert Joel Solomon	Los Angeles
A.B., San Diego State College, 1953	
Henry Phillip Starr	Los Angeles
A.B. 1953	
Norman E Stevens	Los Angeles
A.B. 1951	
Paul E Stevenson, Jr.	Los Angeles
B.S., Yale University, 1952	
Dan Leslie Stroud	San Gabriel
A.B. 1953	
H George Taylor	Los Angeles
B.S., University of Southern California, 1951	
Lawrence Charles Waddington	Pacific Palisades
A.B., Colorado College, 1953	
John Douglas Watt	Anaheim
A.B., Long Beach State College, 1953	
Morton M Weinberg	Los Angeles
A.B., Los Angeles State College, 1953	
Robert Richard Wills	Culver City
A.B. 1953	
Richard Charles Wulliger	Los Angeles
A.B. 1953	

SCHOOL OF MEDICINE .

The Degree of Doctor of Medicine upon

Perry Ah-Tye	Stockton
A.B., Stanford University, 1951	
Yoshio Akiyama	Los Angeles
A.B. 1952	
Ralph Brewster Allison	Cambria
A.B., Occidental College, 1952	
Harlan Cabot Amstutz	Los Angeles
A.B. 1953	
Charles Victor Brown	Los Angeles
A.B. 1951	
Louis William Conway	Los Angeles
A.B. 1953	
Ralph Easton Cutler	Glendale
A.B. 1952	
Harold Spivey Dennis	Los Angeles
A.B., Occidental College, 1952	

- Edmund T Dombrowski, Jr.Inglewood
A.B. 1953
- James Keith EkegrenBerkeley
A.B., University of California, Berkeley, 1951
- Jerry Stuart FlintLos Angeles
A.B., Stanford University, 1949
- Myra Charna GlassmanLos Angeles
A.B., Temple University, 1952
- Daniels DuBose HansenLos Angeles
A.B., Princeton University, 1952
- James Lorin KernsLos Angeles
A.B. 1950
- Bernard Leon LaezmanLos Angeles
A.B. 1953
- Peter David LandresHollywood
A.B. 1951
- George Davis MasonLos Angeles
A.B. 1944; M.S. 1945
- William Josiah McCandlessLos Angeles
B.S. 1949
- Audrey Jeanne NaylorSimi
A.B., University of California, Berkeley, 1953
- Robert Henry NewmanLos Angeles
A.B. 1950
- Perry Arnold OrensNew York
A.B., Hunter College, 1950
- Robert Lloyd PodosinLos Angeles
A.B. 1952
- Ronald M ReisnerLos Angeles
A.B. 1952
- William Keith RubrechtLos Angeles
A.B. 1953
- Herbert David RuttenbergLos Angeles
A.B. 1952
- David Griffin SandersLos Angeles
A.B. 1953
- Robert Henry SchumacherLos Angeles
A.B., College of Pacific, 1952
- Marcia Clare ScottLos Angeles
A.B. 1952
- Robert Samuel ScottLos Angeles
A.B. 1951
- Wilbur Arthur SelleLos Angeles
A.B., Occidental College, 1925; M.A. 1926 and Ph.D. 1929, Stanford University
- Thomason Clay ShawLos Angeles
A.B. 1952
- John Martin SouthwellBerkeley
A.B., University of California, Berkeley, 1952
- Avery Hardin SpeerRiverside
A.B., University of Redlands, 1952
- John Robert StephensonLos Angeles
A.B. 1951
- Drake Webster WillLos Angeles
B.S. 1948
- Herbert K WongLos Angeles
B.S. 1951

GRADUATE DIVISION, SOUTHERN SECTION

DEGREES CONFERRED

**The Degree of Master of Public Administration upon*

- ³ Arthur Sherman Kitnick Los Angeles
A.B. 1954

**The Degree of Master of Social Welfare (School of Social Welfare) upon*

- Paul Sydney Allen Escondido
A.B., Northwestern University, 1950
- Lucy Ambrosio Los Angeles
A.B. 1951
- Milton Lee Brotman Los Angeles
A.B. 1954
- Dorothy Ruth Chevalier Fresno
A.B., Stanford University, 1952
- ¹ Wilfred Dennis Coggins New York, New York
B.S., College of the City of New York, 1949
- Ruth Evelyn Cole San Diego
A.B., Oberlin College, 1948
- Willard Grant Duckworth Washington Depot, Connecticut
A.B., University of Arizona, 1954
- Florence Ford Duncan Los Angeles
A.B., Lincoln University, Jefferson City, Missouri, 1938
- Estelle Hart Freed Los Angeles
A.B. 1954
- Lisbeth Newelt Freschl Beverly Hills
A.B. 1929 and M.A. 1930, Smith College
- Electa Alice Goetz Tarzana
A.B., Colorado College, 1941
- Grace Lydia Hudson Santee
A.B., University of Minnesota, 1946
- Leah Kalish London Los Angeles
A.B. 1935
- James Luther Mason Redlands
A.B., University of Redlands, 1953
- George Matsumoto Los Angeles
A.B. 1950
- Alice Setsuko Ochiai Pasadena
A.B., Pomona College, 1950
- Lydia Nicholas Phokianou Athens, Greece
A.B., San Diego State College, 1954
- Patricia Ruth Pickford Fresno
A.B., Fresno State College, 1945
- Myrtle Lorraine Richardson Los Angeles
Ph.B., University of North Dakota, 1951
- Lucretia Joan Tully Fresno
A.B., San Jose State College, 1951
- Harriet Wilson Los Angeles
A.B. 1954
- Jacolyn Alice Young Burlington, Iowa
A.B., State University of Iowa, 1953

* A comprehensive final examination in the major subject is required in lieu of a thesis.

***The Degree of Master of Education (School of Education) upon**

- ¹ Damaris Mae Alling Culver City
A.B. 1950
- ² Joseph James Alviani Burbank
A.B. 1950
- John Evermonde Anderson Hinton, West Virginia
B.S.Ed., West Virginia State College, 1951
- Helen Anshen Los Angeles
B.S., Boston University, 1937
- ² Herbert Carl Bauers Los Angeles
B.S., Purdue University, 1933
- Theodosia Marcia Bowens Los Angeles
B.S., Tuskegee Institute, Tuskegee, Alabama, 1942
- ¹ Mabel C Brown Dallas, Texas
B.S., Prairie View College, 1931
- Alvin Cobb, Jr. Los Angeles
A.B., Morehouse College, 1951
- ¹ Yvonne Jacqueline Désirée Courtenaye Glendale
A.B. 1943
- ¹ William Edward Dandy Petersburg, Florida
A.B. 1949 and B.S. 1949, Florida Agricultural and Mechanical University
- ¹ Edward Grable Dodge Santa Monica
A.B., Santa Barbara College, University of California, 1952
- Ralph Wesley Emch Girard, Ohio
B.S.Ed., Ohio State University, 1955
- ² Phillip Ralph Ferguson San Bernardino
A.B., University of Kansas, 1946
- William Clarence Fledderjohann Santa Ana
A.B. 1952
- Arthur Elston Gimmy Los Angeles
B.S. 1955
- ¹ Philip Martin Hanf Big Bear Lake
Ed.B. 1938
- ¹ Don Cleone Hart White Hall, Illinois
B.S., Kansas State College, 1951
- Billy Dale Hauserman Los Angeles
B.S.Ed., State University of New York, The State Teachers College,
Brockport, New York, 1952
- ¹ Peter Kanonchoff Encino
B.S. 1954
- ¹ Hyacinth Eleanor Keller Santa Monica
A.B., Bard College, 1948
- ¹ Audrey Marilyn Kopp Los Angeles
A.B. 1954
- Rachel Leah Leeds North Hollywood
A.B., Tulane University, H. Sophie Newcomb College, 1941
- ¹ Pauline Juanita Mosley Madkins Conroe, Texas
B.S., Prairie View Agricultural and Mechanical College of Texas, 1944
- ¹ Lucile Mary Mahon San Fernando
B.S., Immaculate Heart College, Los Angeles, 1947
- ¹ Doris June Martin San Fernando
Ed.B. 1939
- ¹ Myrtle Celestin Martin Donaldsonville, Louisiana
A.B., Xavier University, New Orleans, Louisiana, 1951
- ¹ Mary Welker Masheter Santa Monica
A.B., University of Kansas, 1934
- Mary Elizabeth McHarg Los Angeles
Ed.B. 1933

* A comprehensive final examination in the major subject is required in lieu of a thesis.

- ² William George Medina California, Pennsylvania
B.S.Ed., Pennsylvania State Teachers College at California, 1954
- ¹ Kathryn L Moore Dallas, Texas
A.B., Tillotson College, 1948
- ¹ Fred Ellsworth Newton Los Angeles
A.B., George Pepperdine College, 1951
- ¹ Thelma Duncan Nicklin Los Angeles
B.S., Northwest Missouri State Teachers College, 1939
- Robert Harry Page Marion, Iowa
A.B., Cornell College, 1952
- Henry B Abiodun Palmer Nigeria, West Africa
A.B., Dillard University, New Orleans, Louisiana, 1954
- Ray J Phillips Fresno
B.S., Miami University, Oxford, Ohio, 1952
- ¹ Jane E Raymond San Francisco
A.B., University of California, Berkeley, 1944
- ¹ David Raynor Ricards Ventura
A.B. 1948
- Eli Thomas Ross North Hollywood
A.B. 1950
- Melvin I Roth New York, New York
A.B., University of Illinois, 1952
- ¹ Edward Lee Scherf Los Angeles
B.S., Milwaukee State Teachers College, 1952
- ² George Alderson Smith Los Angeles
A.B. 1941
- ² David Wolfe Sussman Los Angeles
A.B. 1948
- Fujie Nancy Tamanaha Los Angeles
B.Ed., University of Hawaii, 1950
- Lourene Eleanor Vail Glendale
A.B., University of Redlands, 1941
- ¹ Wilfred Edwin Warren Venice
A.B. 1946
- ¹ Dolores Weiner Los Angeles
A.B. 1953
- Evelyn Louise Weiskopf Los Angeles
A.B. 1937
- ¹ Margaret Elizabeth Whitman Lawndale
A.B. 1948
- ¹ Thomas David Williams Venice
A.B. 1950
- Walter Gordon Willis North Hollywood
A.B. 1950
- Clarissa Eileen Woodburn Santa Monica
A.B. 1935
- Robert Haywood Woodroof Brea
A.B. 1949

****The Degree of Master of Business Administration (School of Business Administration upon***

- ² Merle Henry Amundson Monrovia
B.B.A., University of Washington, 1952
- ¹ Bruce Arnold Altadena
B.S., Princeton University, 1953
- ² Thomas Joseph Atchison Pasadena
A.B., Stanford University, 1954
- Richard Aris Bacas Los Angeles
B.S., 1952

* A comprehensive final examination in the major subject is required in lieu of a thesis.

- ² Cynthia Barrell.....Maplewood, New Jersey
A.B., Duke University, 1950
- ² John Beverley Bennett.....Canoga Park
B.S. 1953
- ¹ Keath LeRoy Bills.....Los Angeles
B.S. 1947
- ² Jack Edward Blaney.....Los Angeles
B.S. 1949
- ² Arthur Ralph Bredahl.....Superior, Wisconsin
B.S., North Dakota Agricultural College, 1950
- ¹ Arthur William Brock.....Los Angeles
B.S., 1954
- Ruth Brostoff.....Los Angeles
A.B., Stanford University, 1954
- Leland Desmond Carlson.....Kingsburg
A.B., Fresno State College, 1954
- Raul Tomas Concepcion.....Pasay City, Philippines
B.S., De La Salle College, 1953
- ¹ Warren Carlisle Cordner.....Beverly Hills
B.S. 1949
- Edward George Drake.....Glendale
B.S. 1953
- ¹ Masakazu Fujimoto.....Encinitas
B.S. 1954
- ² Robert Francis Gleason.....Oneida, New York
B.S., Utica College, 1952
- ¹ E Duane Gomer.....Racine, Wisconsin
B.S., Indiana University, 1954
- ² Ben Sanborn Graham, Jr.....Tipp City, Ohio
B.F.A. 1952 and B.A. 1952, Ohio Wesleyan University
- Sidney Ernest Gruman.....Santa Ana
B.S. 1953
- ² Robert Henry Harmon.....Salt Lake City, Utah
B.S., University of Utah, 1954
- ² James Irvin Hubler.....Los Angeles
A.B. 1954
- Wilfred Yung Bin Kam.....Santa Monica
B.B.A., University of Hawaii, 1952
- ² Neil Eugene Kennedy.....Fillmore
A.B., Pomona College, 1950
- ¹ Geraldine Parker Knight.....Los Angeles
A.B., University of Iowa, 1933
- Paul Adams Lee.....Los Angeles
A.B., Indiana University, 1952
- ² Howard Levin.....Philadelphia, Pennsylvania
B.S., Temple University, 1951
- ¹ Donald Elliton McKee.....Sherman Oaks
B.S. 1951
- ² Pierre Eric Pagezy.....Paris, France
Degree in Law 1952 and Diploma in Public Service 1953, University of Paris
- Edwin Harlow Powell, Jr.....Burbank
B.S. 1950
- ¹ Herbert David Rosen.....Los Angeles
B.S. 1952
- Stephen Junior Rosinski.....Toledo, Ohio
B.B.A., University of Toledo, 1954
- Yasuo Saito.....Waipahu, Oahu, Territory of Hawaii
A.B., University of Hawaii, 1951
- Donald Robert Shaul.....Los Angeles
B.S., United States Naval Academy, 1933
- ¹ Donald Harry Snyder.....Los Angeles
B.S. 1952

- Harold Bertrum Spinner, Jr. Niagara Falls, New York
B.S., University of Buffalo, 1951
- Joseph Henry Stern.....South Pasadena
B.S.C., State University of Iowa, 1951
- John Alan Stoeller Los Angeles
B.S.C., University of Notre Dame, 1953
- ¹ William Hyatt Vaughan Los Angeles
B.S., University of California, Berkeley, 1949
- George Conway Vogel.....Culver City
B.S., Massachusetts Institute of Technology, 1951

***The Degree of Master of Science upon**

- ³ Ellen Joan Abramson Journalism Los Angeles
A.B. 1954
- ³ Warren J Adler.....Physical Education Los Angeles
B.S. 1952
Thesis: An experimental study to determine the relationship of body build to selected aspects of motor learning in tumbling.
- Al Robert Arps.....Physical Education.....North Hollywood
A.B., Occidental College, 1936
Thesis: An analysis of extra compensation for additional school services.
- ² Robert Max AsimowEngineering North Hollywood
B.S. 1953
Thesis: Influence of grain size on X-ray lattice strain in an aluminum alloy.
- Lyonel Del Avance.....Physical Education Reseda
B.S. 1947
- ³ Robert Eugene Baker Applied Physics.....Culver City
B.S. 1954
- Mitchell Lawrence Barnett Engineering Long Beach
B.S., University of Illinois, 1951
Thesis: Evaluation of several turn control systems for automatically stabilized aircraft.
- Ahmed Abdelkarim Bedri Horticultural Science.....Khartoum, Sudan
- Louise Caroline Bellport..... Journalism Winters
A.B., University of California, Davis, 1955
- Mamerta T Beringuel Health Education ... Dulag, Leyte, Philippines
B.S.E., St. Paul's College, Tacloban City, Philippines, 1951
- Walter Henry Bockwoldt Engineering Seattle, Washington
B.S., University of Washington, 1951
Thesis: Transistor oscillator.
- ¹ Donald Irving Borden.....Physical Education Los Angeles
B.S. 1948
Thesis: Measurement and evaluation programs in men's physical education in California junior colleges.
- ¹ Robert Armand Bow.....Physical Education Los Angeles
B.S. 1952
- Joseph Theodore Brandt Journalism Los Angeles
B.S. 1955
- Hugh Mark Breneman Applied Physics Los Angeles
A.B. 1954
- ¹ Charles Floyd Bridgman.....Anatomy Long Beach
A.B. 1949
Thesis: Problems of scientific illustration as applied to the teaching of anatomy and related subjects.
- ³ Ritva Rauanheimo Butrum Home Economics Koylio, Finland
Graduate, College for Training Teachers in Home Economics, Helsinki, Finland,
1951

* A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- ¹ Joseph Ovid Campeau Engineering Los Angeles
B.S., Case Institute of Technology, 1952
Thesis: The synthesis and analysis of counters in digital systems by Boolean matrices.
- ² Onas Clyde Carter Engineering State College, New Mexico
B.S.C.E., New Mexico College of Agriculture and Mechanic Arts, 1950
Thesis: Optimum design of Warren trusses.
- ¹ Noriko Chiwaki Chemistry Los Angeles
B.S. 1952
Thesis: Proton-induced reactions through 20 Mev.
- ² Albert Wheelwright Cobb Engineering Pasadena
B.S., Massachusetts Institute of Technology, 1947
Thesis: Design of a dynamic calibrator for pressure transducers.
- Richard Dibble Conant Physical Education Hollywood
A.B., Occidental College, 1955
Thesis: The utilization of photographic techniques in adapted physical education.
- ¹ Bryant Jackson Cratty Physical Education Sherman Oaks
B.S. 1952
Thesis: A statistical analysis of selected physical proficiency tests with implications for the physical education program.
- Salud C Dato Physical Education Quezon City, Philippines
B.S.E., Far Eastern University, Philippines, 1951
- Robert Wilson Davenport Journalism Newport Beach
A.B., Pomona College, 1951; M.A., University of California, Berkeley, 1953
- ² Roy Allen Deal Engineering Palo Alto
B.S., Stanford University, 1953
Thesis: The design and fabrication of apparatus for the measurement of heat transfer from an enclosed rotating disk.
- ² Christos Vasilou Economides Horticultural Science Morphou, Cyprus
B.S. 1954
Thesis: Storage, viability, and respiration studies of citrus seeds.
- Robert Gerald Edwards Physical Education Modesto
B.S. 1951
Thesis: The development of counseling techniques for utilization in boys' secondary school physical education programs.
- ² Glen Howard Egstrom Physical Education Santa Monica
B.S., University of North Dakota, 1950
Thesis: The function of balance mechanisms in directional movements.
- Michael Simon Eichenberg Horticultural Science Hadera, Israel
- ³ Felix Ellern Engineering Tel Aviv, Israel
B.S., University of California, Berkeley, 1952
Thesis: Studies on a nonlinear circuit with a sinusoidal voltage source.
- Marvin Dale Ewy Applied Physics Hutchinson, Kansas
B.S., Oklahoma Agricultural and Mechanical College, 1954
- ² Robert Arsen Fay Engineering Gardena
B.S., California State Polytechnic College, 1952
Thesis: A study of an electro pneumatic feedback control system.
- ¹ Virginia Louise Freeman Physical Education Delaware, Ohio
B.S., University of Wisconsin, 1950
- Kenneth Joseph Friedenthal Engineering San Diego
B.S., Case Institute of Technology, 1951
Thesis: Derivation of a basic methodology for systems analysis.
- ² George Jerry Friedman Engineering Los Angeles
B.S., University of California, Berkeley, 1949
Thesis: Selective Feedback Computers for engineering synthesis and nervous system analogy.
- Raymond Joseph Ghelardi Oceanography San Francisco
A.B., Stanford University, 1954
- ² Harry Goldsmith Chemistry San Francisco
B.S., University of California, Berkeley, 1953
Thesis: Bis quaternary quinuclidine salts.

- Lilly Snookal Gordon Nursing Los Angeles
B.S., 1945
- ¹ Bruce Griggs Chemistry Pasadena
B.S., 1953
Thesis: I. The reduction of boron trichloride by calcium hydride.
II. The preparation of $\text{Ca}[\text{B}(\text{OCH}_3)_4]_2$ and its reaction with diborane.
- Evelyn Ronnie Grossman Journalism Hollywood
A.B. 1955
- Charles Warren Haas Applied Physics Reifton, Pennsylvania
B. Engr. Phy., Cornell University, 1954
- Douglas James Hamilton Engineering Akron, Ohio
B.S., Case Institute of Technology, 1953
Thesis: A study of junction transistors in some monostable triggered circuits.
- James Alfred Hannum Physical Education Greenville, Illinois
A.B., Greenville College, Greenville, Illinois, 1951
- Barbara Joan Hansen Journalism Los Angeles
A.B., Stanford University, 1954
- ² Audrey Louis Harrington Health Education Los Angeles
B.S. 1947
Thesis: The effects of correction of physical defects on the progress of pupils in selected Los Angeles City Schools.
- ² Kenneth Greg Hart Engineering Manhattan Beach
B.S., Iowa State College, 1949
Thesis: Improving aircraft lateral dynamic stability by discontinuous control.
- ² James Hart Hillman Pharmacology Pasadena
B.S., University of Minnesota, 1944
Thesis: Application of the specific property solubility test to the purification of pig liver esterase.
- Joan Margaret Hitchner Physical Education. Philadelphia, Pennsylvania
B.S., Ursinus College, 1953
- Nathan Hochberg Horticultural Science Tel-Aviv, Israel
B.S., University of California, Davis, 1955
- Nancy Osborn Hoyt Home Economics Stowe, Vermont
B.S., University of Vermont, 1953
- Irene Monica Hughes Home Economics Glendale
A.B., Mount St. Scholastica College, Atchison, Kansas, 1939
- ¹ Sister John Bernard Hurley Nursing Los Angeles
B.S. 1952
- Ruth May Jackson Home Economics Los Angeles
B.S. 1955
Thesis: A study of the activity of the folic acid conversion enzyme system in chick tissues.
- Andrew Jusko Applied Physics Whiting, Indiana
B.S., Purdue University, 1954
- ¹ Robert Frank Karbach Physical Education Gardena
A.B., George Pepperdine College, 1953
- ¹ Edith Frances Kirkland Physical Education Portales, New Mexico
A.B., Colorado State College of Education, 1950
Thesis: The role of the physical educator in school public relations.
- Leonard Kleinman Applied Physics Los Angeles
A.B. 1955
- Arthur Jonathan Kline, Jr. Applied Physics Phoenix, Arizona
B.S., University of California, Berkeley, 1953
- Lary Kuller Engineering Minneapolis, Minnesota
B.S., University of Minnesota, 1954
Thesis: Stabilization and noise reduction in a microwave system.
- Andrew Dominic Kush Physical Education Santa Monica
B.S., University of Nebraska, 1951
- Gerald Ray Ladhoff Physical Education Los Angeles
B.S. 1952
Thesis: The contribution of physical education in the prevention of potential juvenile delinquents.

- Michael Robert LaudanteEngineeringBell Gardens
 B.S., Polytechnic Institute of Brooklyn, 1952
Thesis: Minimization of transmission variations with change of incidence angle for thin film dielectrics.
- Eun U LeeEngineeringSeoul, Korea
 B.E., Seoul National University, 1950
Thesis: Isothermal studies on the rate of escape of hydrogen from arc welds immediately after deposit.
- Burt Leroy LevinEngineeringEl Cerrito
 A.B., University of California, Berkeley, 1949
Thesis: The application of Lalesco's Nonlinear Integral Equation to the solution of nonlinear servomechanisms.
- Joseph Victor Levy.....PhysiologyLos Angeles
 A.B., Stanford University, 1950
Thesis: Respiratory patterns in the cat during pharmacologically induced brain stem depression.
- Kenneth George Lindh.....EngineeringNorth Hollywood
 B.S. 1952
Thesis: An electrical analog of the sucker rod type oil well pumping system.
- Naomi Ruth Lindley.....Health EducationLynwood
 B.S. 1948
Thesis: A differential study of methods for the placing of school nurses on single salary schedules.
- ³ Elmer Lee List.....Engineering.....Salt Lake City, Utah
 B.S.E.E., University of Utah, 1954
Thesis: Analyzing sampling servo mechanisms by conventional servo mechanism methods.
- ² Norma Joan Long.....Home Economics.....Santa Monica
 B.S., Michigan State College, 1951
Thesis: The effect of aureomycin on the nutrition of the gastrectomized rat.
- ³ Sarah Lee Lovett.....Biological ChemistryLos Angeles
 A.B., 1952
Thesis: The amino acid composition of tuberculoprotein.
- Charles Wilden Mann.....Physical Education ...West Lafayette, Indiana
 B.P.E., Purdue University, 1939
Thesis: The problem of apportioning funds for junior college athletics.
- ¹ John Edward MarionEngineeringBakersfield
 B.S. 1954
Thesis: Design and development of a rotating-load fatigue-testing machine for ceramic materials at elevated temperatures.
- ¹ Elva Elizabeth MarshallHome Economics.....Zion, Illinois
 B.S., Wheaton College, 1946
- ¹ James Alexander MathiesonPhysical Education...Schenectady, New York
 B.S., Springfield College, Springfield, Massachusetts, 1952
- Richard Allen McCannEngineeringLos Angeles
 B.S. 1954
Thesis: The description of a method for measuring negative pressure in liquids.
- Donald Reed McClure, Jr.JournalismPacific Palisades
 A.B. 1953
- ³ Margaret Fenning McGillinNursingManhattan Beach
 B.S., University of Pennsylvania, 1946
- John Phillip Moffett.....JournalismSeattle, Washington
 A.B., Santa Barbara College, University of California, 1950
- Marjorie Jean MoteJournalismUpland
 B.S., University of Cincinnati, 1954
- Hideo NakayamaApplied Physics.....Los Angeles
 A.B. 1953
- Leland Layne Nichols.....JournalismHawthorne
 A.B. 1952
- ¹ Midori NishimuraHome EconomicsLos Angeles
 B.S. 1953

- Leo Joseph NolteEngineeringLos Angeles
 B.M.E., University of Santa Clara, 1953
Thesis: Some aspects of aerodynamic heating through a turbulent boundary layer.
- Eugene Raymond O'ConnellPhysical EducationLos Angeles
 B.S. 1955
Thesis: A physiological study of muscular strength.
- ¹ Mary Shitamoto Ogi.....Physical EducationLos Angeles
 B.S. 1951
- ² Reuben OhadHorticultural ScienceBeverly Hills
 B.S., California State Polytechnic College, 1954
- Bernice Dildine Orr.....Health EducationLos Angeles
 B.S. 1946
- Robert Neil ParkerEngineeringLos Angeles
 B.S. 1954
Thesis: The solution of linear differential equations with time-varying coefficients by an approximate operational method.
- Sally ParkerPhysical EducationBrawley
 Ed.B. 1937
Thesis: A proposed program of guidance in professional preparation in physical education.
- ¹ Herbert Ralph PassEngineeringVenice
 B.A.E., New York University, 1938
Thesis: Analysis of a simple relay regulator having an exponential time lag, with application to a light-plane roll auto pilot.
- Norman Lind Pedersen.....EngineeringLos Angeles
 A.B., University of California, Berkeley, 1936
Thesis: An energy-absorbing barrier for highways and airports.
- John Marlin PewEngineeringGarden City, New York
 B.E.E., Cornell University, 1952
Thesis: An electronic device for plotting the root loci of servomechanisms.
- Thomas Henry Poole.....Physical EducationLos Angeles
 B.S., Florida Agricultural and Mechanical University, 1951
- ² Oliver Ray Price.....Applied PhysicsAltadena
 B.S., California Institute of Technology, 1953
- Ruth PrugininNursingHaifa, Israel
 B.S. 1955
- Paz Gomez Ramos.....Health Education
 B.S., University of the Philippines, 1947 Santa Mesa, Manila, Philippines
- Sister Albert Mary Rebel.....NursingLos Angeles
 B.S., Mount St. Mary's College, 1952
- Amos Edwin Richmond.....Horticultural ScienceHaifa, Israel
 B.S., California State Polytechnic College, 1954
- Floyd Joseph Rinehart.....JournalismRedondo Beach
 A.B., Los Angeles State College, 1950
- Arthur J Roach.....Applied PhysicsVan Nuys
 B.S., Montana State College, 1949
- Franklin Arthur Robben.....Applied PhysicsDixon
 B.S., University of California, Berkeley, 1954
- Hugh Archie Robinson.....Physical EducationLos Angeles
 B.S., 1952
Thesis: An analysis of the opinions of parents, pupils, and educators toward physical education in selected schools in the Los Angeles area.
- Gunnar Ivo Roden.....OceanographyTallin, Estonia
- ¹ Richard Alfred Rossi.....EngineeringEast Orange, New Jersey
 M.E., Stevens Institute of Technology, 1953
Thesis: The effect of gamma radiation on germanium and silicon.
- Barbara Joan Rotvig.....Physical EducationGlendale
 B.S., University of Minnesota, 1950
Thesis: An analysis of instructional procedures in the teaching of the golf swing.
- Marjorie B Rykken.....NursingDenver, Colorado
 B.S., Boston University School of Nursing, 1950

- ¹ Henri Manvel Semarne.....ChemistrySanta Monica
B.S. 1953
Thesis: The stereochemistry of the 1-Keto-6-hydroxyspiro [4.4] nonanes.
- Howard Everett ShanksApplied PhysicsTemple City
B.S., California Institute of Technology, 1954
- Louise Marie Siegrist.....NursingSherman Oaks
B.S. 1952
- Constance Rae Silver.....Physical EducationLos Angeles
B.S. 1950
- ² Lowell I Smilen.....EngineeringBrooklyn, New York
B.E.E., Cooper Union School of Engineering, 1952
Thesis: The synthesis of the RC voltage transfer function.
- ² Wm Edward Smith.....EngineeringAlbuquerque, New Mexico
B.S., University of New Mexico, 1952
Thesis: Measuring friction coefficients as a function of sliding velocity.
- ² John Howard Speer, Jr.EngineeringMorton Grove, Illinois
B.S., Northwestern Technological Institute, 1953
Thesis: Magnetostrictive excitation of magnesium and aluminum ultrasonic delay lines.
- Donald Jay SpencerApplied PhysicsSalt Lake City, Utah
B.S.E.E., University of Utah, 1954
- ² John StaudhammerEngineeringLos Angeles
B.S. 1954
Thesis: Measurement of magnetostriction.
- ² Peter StaudhammerEngineeringLos Angeles
B.S. 1955
Thesis: The electrical resistivity of cyclohexane as a function of temperature and water concentration.
- Richard SternApplied PhysicsLos Angeles
A.B. 1952
- ² James Burke StonehouseApplied PhysicsSumas, Washington
B.S., State College of Washington, 1954
- ² Marcel Garthwaite StragierEngineeringClaremont
B.S. 1954
Thesis: Bond between concrete and pretensioning strand.
- ² Richard Wesley StrayerApplied Physics.....McMinnville, Oregon
A.B., Linfield College, 1953
- ¹ Dale Burdette Swanson.....EngineeringDes Moines, Iowa
B.S., Iowa State College, 1951
Thesis: Study of a wind tunnel pumping process using heat addition and water evaporation.
- ¹ Lucille Elizabeth SylvaPhysical EducationSan Pedro
Ed.B. 1935
Thesis: An appraisal of social relationships of high school girls in selected physical education classes.
- Sidney ThurstonEngineeringSan Gabriel
B.Mech.Engr., University of Florida, 1943
Thesis: The effect of various parameters on cavitation inception.
- ² Marek TignerPhysical EducationLos Angeles
B.S. 1954
Thesis: Preparation of classroom teachers for school camping experiences.
- ² Bernard Ellsworth TiltonPharmacologyLoma Linda
A.B., Pacific Union College, 1946; M.D., College of Medical Evangelists, 1948
Thesis: Neuromuscular blocking agents.
- ² Claude Hall Tucker, Jr.EngineeringBakersfield
B.S., University of California, Berkeley, 1953
Thesis: A digital electronic musical instrument.
- Zissimos Angelo TypaldosEngineeringAltadena
B.S., University of California, Berkeley, 1947
Thesis: On incremental rockets.

- ² Makio Uchida Biological Chemistry Osaka, Japan
M.D. 1941 and Hakase Degree 1948, Osaka University, 1948
Thesis: Studies on the chemistry of benzoquinoneacetic acid and its effect on the metabolism of tryptophan.
- ² Takayasu Uchio Oceanography Kanagawa Prefecture, Japan
Rigakushi, Faculty of Science, University of Tokyo, 1946
- ² Lorin Lee Vant-Hull Applied Physics Pipestone, Minnesota
B.S., University of Minnesota, 1954
Gordon Howe Volkman Oceanography Woods Hole, Massachusetts
A.B., Williams College, Williamstown, Massachusetts, 1948
William Henry Walters Engineering Culver City
B.S., University of California, Berkeley, 1950
Thesis: The analysis of servo systems with time lag.
- ¹ Mary Ellen Weber Physical Education Manhattan Beach
B.S. 1954
Gene Milton Wells Journalism Beverly Hills
B.S., University of Nebraska, 1955
Howard Wayne Wicklein Applied Physics Wellsville, Missouri
B.S.Ed. 1954 and A.B. 1954, University of Missouri
Maurice Milton Wiley, Jr. Physical Education Burbank
B.S. 1954
Thesis: The desirability of interscholastic athletic competition for the elementary school-age child.
- Norberta Shields Wilson Nursing Los Angeles
B.S. 1955
Than Win Physical Education Bassein, Burma
A.B., University of Rangoon, 1952; A.B. 1955
Thesis: The role of the supervisor in physical education in the schools of Burma.
- Richard Wright Journalism Los Angeles
A.B. 1955
William Carroll Yengst Engineering Meadville, Pennsylvania
B.S.E.E., Duke University, 1954
Thesis: Three-terminal network synthesis.
- ² Louis Young Engineering Los Angeles
B.S., Massachusetts Institute of Technology, 1950
Thesis: Creep buckling in columns.
- Sidney Maurice Zimmerman Engineering Beverly Hills
B.S. 1954
Thesis: A study of physical characteristics of the various porous materials suitable for boundary layer control under the conditions of subsonic and transonic airflow.

***The Degree of Master of Arts upon**

- ¹ Norman Manuel Abramson Physics Dorchester, Massachusetts
A.B., Harvard College, 1953
Juana Ortiz Acosta Spanish Los Angeles
A.B. 1954
William LeRoy Adams Geology Los Angeles
B.S., University of Kansas, 1951
Thesis: Geology of the Dry Canyon area, northeastern Ventura County, Southern California.
- ¹ Ursula Alexandra Franziska Alf Theater Arts Chico
A.B. 1954
Thesis: Post-war German radio drama: Translation of two representative radio plays and selective commentary.
- ¹ Harlie B Allen Education Los Angeles
A.B., University of Nebraska, 1933
Thesis: The administration of an education program in a changing neighborhood.

* A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

- Roberto Rueda AlmanzaSpanishLos Angeles
A.B. 1954
- Milton AltschulerAnthropologyLos Angeles
A.B. 1953
- ² Reginald Laurence Anderson.....EducationLos Angeles
A.B., Occidental College, 1939
Thesis: The administration of off-campus disciplinary problems in seven selected
secondary schools of the Los Angeles City High School District.
- Frank Robert AntonEconomicsKingston, Ontario, Canada
- Florence Sylvia AransonArtLos Angeles
A.B., Brooklyn College, 1936
- ¹ Marion AvakianEducationFresno
A.B., Fresno State College, 1940
Thesis: Industrial arts in the Los Angeles City Schools prior to 1900.
- Emanuel AzmonGeologyJerusalem, Israel
A.B. 1954
Thesis: The geology of Point Mugu quadrangle.
- Robert M L Baker, Jr.PhysicsLos Angeles
A.B. 1954
- ² Joseph Walter BaniaEconomicsLackawanna, New York
A.B., University of Buffalo, 1954
- ² Suzan BarkerPolitical ScienceAnkara, Turkey
A.B., American College for Girls, Istanbul, Turkey, 1946
- Leonid BelozubovFrenchLos Angeles
A.B. 1954
- ² Judith Lichterman Ben-orPsychologyLos Angeles
A.B., University of Illinois, 1928
- Dawne Maureen BernhardtSpeechLos Angeles
A.B. 1953
- Joe Hoover BindleyPolitical ScienceRocky River, Ohio
A.B., The College of Wooster, 1947
- ² Annette Cecil BlannSpanishInglewood
A.B. 1954
- ² Boonnam BoonsaithEducationBangkok, Thailand
A.B., Chulalongkorn University, Bangkok, Thailand, 1943
Thesis: A comparison of elementary education in the United States and Thailand
with suggestions for curriculum development in Thailand.
- Benjamin William BraunsteinHistoryEncino
A.B. 1950
- John La Due BrewsterPhysicsPhoenix, Arizona
A.B., Pasadena College, 1953
- ¹ Raymond Bruce BrownArtLos Angeles
A.B. 1954
- Warren Parker Brown, Jr.ArtHollywood
A.B., Southern Methodist University, 1949
Thesis: An historical and stylistic analysis of the sculpture of the cloister Santo
Domingo de Silos.
- Gordon Lowell BushGeologyPortland, Oregon
B.S., Oregon State College, 1954
Thesis: Geology of the Upper Ojai Valley.
- Evalou Martin CallahanEducationInglewood
A.B. 1946
Thesis: The conference method of reporting to parents as an instrument in
community-school relations.
- Neil Walter CarlsonArtSanta Monica
A.B. 1952
- ¹ Joyce Eleanor CarrollArtSanta Monica
A.B. 1954
- ¹ Richard Lee CastelloTheater ArtsFresno
A.B., Fresno State College, 1952
Thesis: Chindee: a production thesis.

- Alan Howard CastyEnglishBeverly Hills
A.B., University of California, Berkeley, 1950.
- ² Louise Laure Chirol-JardetFrenchSanta Monica
Licencie en Droit, University of Strasbourg, Paris, France, 1943
- Kyoo Sup ChoPhysicsPyongnam, Korea
B.S., Chosun Christian University, 1953
- ² Hugh Whitney ChurchMeteorologyRanchos de Taos, New Mexico
B.S., University of New Mexico, 1954
- ² Betty Lee Parsons ClayEducationKing City
B.S., University of Michigan, 1946
Thesis: A survey of units and courses in family life education in the curricula of selected public secondary schools in Los Angeles County.
- Mary Lewellyne ConoverSpanishLos Angeles
A.B. 1952
- Don Lewis CookEnglishBakersfield
A.B. 1949
- ¹ Robert Lawrence CooneyGeologyLos Angeles
A.B. 1951
Thesis: The mineralogy of the Jensen and Henshaw quarries near Riverside, California.
- Simon CordovaGeologyLos Angeles
A.B. 1954
Thesis: Geology of the Piru area, Ventura County, California.
- Sidney D CraigPsychologyLos Angeles
A.B. 1952
- David Brochere CresseyArtLos Angeles
A.B. 1954
- Donna Lucile CresseyArtSanta Ana
A.B., University of New Mexico, 1955
- George Nathaniel CroslandEnglishLos Angeles
A.B. 1953
- ² Mary Bob CrossSociologyLittle Rock, Arkansas
A.B., University of Arkansas, 1950
- ¹ Morris Charles CulottaEnglishBuffalo, New York
A.B. 1949
- Eleanor Todd DagerTheater ArtsHollywood
A.B., State College of Washington, 1945
Thesis: A descriptive study of the development of educational television production and policy at the University of California at Los Angeles, 1950-1954.
- Harry DartfordTheater ArtsCanoga Park
B.A.E., Georgia Institute of Technology, 1946; M.B.A., Stanford University, 1950
Thesis: A motion picture script and pre-production report on pitfalls in real estate practice.
- ¹ Grace Montafiez DavisMicrobiologyLos Angeles
A.B., Immaculate Heart College, 1949
Thesis: The effect of ω -methylpantothenic acid and arginine on tumor growth in rats.
- Lawrence Brooks de GraafHistoryGlendale
A.B., Occidental College, 1954
- ² Margaret Yvonne De NeversEducationLos Angeles
A.B. 1950
Thesis: A study of possible significant personality differences between undergraduate and graduate students in education at the University of California at Los Angeles.
- Rene Armand DeSaixEducationLos Angeles
B.S., State College of Washington, 1946.
Thesis: Organization and administration of selected aspects of family life education at Woodrow Wilson High School, Los Angeles.
- Ruth Joyce DickiePsychologyPulaski, Tennessee
A.B., Florida State College for Women, 1948

- Riley Edwin Douglas, Jr. Anthropology Los Angeles
A.B. 1953
- ² Zeta O'Connell Doyle Education San Diego
A.B., San Diego State College, 1928
Thesis: The development and evaluation of a plan of reporting progress of kindergarten pupils.
- Albert William duAime Education Venice
A.B. 1949
Thesis: A study of the relationship between the difference in sensitivity of individuals to the art elements: color, movement, form and texture, and certain personality factors.
- ¹ John Chala Etac Economics Los Angeles
A.B. 1954
- ¹ Thor Alfred Ericson Theater Arts Phoenix, Arizona
A.B., Arizona State College at Tempe, 1952
- ² Lester Dean Estrin Geography Los Angeles
B.S. 1948
Thesis: The Miracle Mile: an example of decentralization in Los Angeles.
- John Howard Evans Mathematics Glendale
B.S., Hamlin University, 1951
- Joseph Hamilton Fantozzi Geology Burbank
A.B. 1951
Thesis: The stratigraphy and biostratigraphy of a portion of the Simi Hills on the south side of the Simi Valley, Ventura County, California.
- Joseph Peter Farry Political Science Los Angeles
B.S., Loyola University, 1955
- Idelle Lois Feinberg Art Los Angeles
A.B. 1955
- Mark Franklin Ferber Political Science Los Angeles
B.S. 1951
- Armando Thomas Ferreira Art Long Beach
A.B. 1954
- ² Raymond Edwin Fielding Theater Arts Los Angeles
A.B. 1953
Thesis: *The March of Time: 1935-1942*
- Max Fields Microbiology Culver City
B.S., Illinois Institute of Technology, 1940
Thesis: Tracer studies of isotopically labeled *cryptococcus neoformans* in mice.
- ² Josephine Helena Fink Psychology Los Angeles
A.B. 1952
- Harold Fishman Political Science Manhattan Beach
A.B., Cornell University, 1953
- ¹ Anton Marinus Fleischman, Jr. Mathematics Vancouver, Washington
A.B. 1950 and B.Ed. 1951, State College of Washington
- ¹ Aiko Fukushima Microbiology Los Angeles
A.B. 1953
Thesis: Morphological and physiological studies on some dermatophytes isolated from wild rodents.
- ² James Constantine Georgeou Education Santa Barbara
A.B., Santa Barbara College, University of California, 1951
Thesis: A study of the guidance activities of industrial education teachers in southern California.
- Robert Marius Gerard Psychology Los Angeles
Graduate, University of Strasbourg, 1935; M.B.A., Harvard University, 1941
- Sister Mary Hildegarde Gerber Spanish Los Angeles
A.B., Pomona College, 1947
- ² Donald Price Germain Education Los Angeles
A.B., Stanford University, 1948
Thesis: Introduction to Education in junior colleges and four-year institutions in California.
- Penrith Brien Goff German New Castle, Pennsylvania
A.B., University of Kentucky, 1953

- Gilbert GoldsteinGeologySan Diego
A.B. 1950
Thesis: The geology of the Sweitzer formation at San Diego, California.
- ¹ Norman Stanley GraboEnglishElmhurst, Illinois
A.B., Elmhurst College, 1952
- ³ Jane GraffArt.....Ames, Iowa
B.S., Iowa State College, 1949
- Barbara Aileen Wells Gunn.....SociologyMenlo Park
B.S., University of Oregon, 1948
- Herbert GutmanPsychology.....Santa Monica
A.B. 1945
- ³ Neil Wallace Hamilton.....GeologyMonterey Park
A.B. 1945
Thesis: Geology of the Smith Creek Area, Eureka and Elko Counties, Nevada.
- ¹ Harry Reginald Hammond.....EducationShafter
A.B., Santa Barbara College, University of California, 1950
Thesis: Reporting to parents: A study and analysis of reporting practices in the elementary schools of Kern County.
- ² Francis Joseph Hanley.....ArtLos Angeles
A.B., Rhode Island School of Design, 1935
- Joe Donald Harmon.....MeteorologyLynwood
A.B. 1954
- Lawrence Arlo HatchTheater Arts.....San Rafael
B.S., University of Omaha, 1951
Thesis: Research into and the production of a film on the secondary level in the area of ichthyology.
- ¹ Reiko Hatsumi.....JournalismLos Angeles
A.B., Mt. St. Marys College, 1951
- ³ Tomo Aki HayataMathematicsLos Angeles
A.B. 1952
- ¹ Frances Brady Helm.....EducationSacramento
Ed.B. 1930
Thesis: A study of the parent-teacher conference method of reporting pupil progress.
- Jacqueline Des Lauriers Henney...Theater Arts.....Pasadena
A.B., Ball State Teachers College, 1952
- Hannah S HessEnglish.....New York, New York
A.B., Hunter College, 1955
- Ralph Marion Hester, Jr.FrenchMontebello
A.B. 1954
- ³ Einar Lauritz HovindMeteorologySanta Monica
A.B. 1954
- Freeman Kelly James, Jr.MusicSan Bernardino
A.B., University of California, Berkeley, 1950
Thesis: The problems involved in effective scoring for a band with unbalanced instrumentation.
- Almond Eugene JellisonTheater Arts.....Minturn, Maine
A.B., Colby College, Waterville, Maine, 1951
- Samuel JeyathevaGeography.....Earlalai, South Chunnakam,
B.S., University of Ceylon, 1952
Ceylon
- Henny Margrethe JohnsenEducationSanta Monica
Ed.B. 1941
Thesis: An evaluation of the remedial reading program in certain Los Angeles City Schools.
- ¹ Keith LeRoy JohnsonMathematicsLos Angeles
B.S., Stanford University, 1954
- ³ Colette Jeanine Joly.....FrenchParis, France
A.B., Montana State University, 1952
- ³ David KaplanEconomics.....Los Angeles
A.B. 1953
- Robert Craig Kauffman.....ArtLos Angeles
A.B. 1955

- ² Carmen Martin Keirn Spanish Los Angeles
A.B. 1941
- Joseph Elon Kemp English Burbank
A.B. 1955
- Theodore Albert Konigsmark Geology Los Angeles
A.B. 1952
Thesis: Uranium deposits in the Morrison formation, northeast flank of the Zuni Uplift, New Mexico.
- ² Kunnenkeri John Koratha Zoology Tiruvalla, Travancore, India
B.S., University of Madras, 1946; M.S., Agricultural and Mechanical College of Texas, 1953
- ² Jean Prinz Korf Theater Arts Los Angeles
A.B. 1947
Thesis: The use of standard theatrical skills in the presentation of three short scenes acted by patients of the Brentwood Neuropsychiatric Hospital.
- ¹ Marianne Landre German Paris, France
A.B., Mount Holyoke College, 1953
- ¹ Gretchen Beghtol Larimer Art Los Angeles
A.B., University of Nebraska, 1933
- ¹ Sylvia Laszlo Zoology Brooklyn, New York
B.S., Brooklyn College, 1951
*Thesis: Nutritional studies of a mutant strain of *Drosophila*.*
- ¹ Joseph L Lauria Education Santa Monica
A.B. 1946
Thesis: A study of the male elementary teachers in training at the University of California, Los Angeles during the post-war period 1945-1950.
- ² Cecile Schwartz Lazar Psychology Los Angeles
B.S., University of Chicago, 1938
- ² Murray Lawrence Lazarus Psychology Los Angeles
A.B. 1949
- ¹ Magda Edith Lempart French San Fernando
A.B. 1953
- Roland Richey Leslie Geography Los Angeles
B.S., University of California, Berkeley, 1921; M.S., University of Southern California, 1942
- ¹ Hans Richard Leuchtag Physics Los Angeles
A.B. 1950
- Phoebe Stone Liebig Political Science Los Angeles
A.B. 1955
- Thomas Marcel Lommell Music Van Nuys
A.B. 1949
Thesis: Symphonic Essay: a musical composition for full orchestra.
- James Graf Lumsden Economics Los Angeles
A.B. 1955
- John Ernest Luttge French Burbank
A.B. 1951
- ¹ Keith Alan MacIvor Geology Wichita, Kansas
B.S., University of Kansas, 1953
Thesis: Geology of the Thousand Oaks Area, Los Angeles and Ventura Counties, California.
- Eugene Malek Mathematics Los Angeles
A.B. 1954
- Ralph Gerson Manus Journalism Los Angeles
A.B. 1953
- James Edward Marsh English Beverly Hills
A.B. 1952
- Robert James Mercer Mathematics Downey
A.B., University of California, Berkeley, 1951
- James West Meyer Spanish Huntington Park
A.B. 1952
- Marilyn Corey Miller Theater Arts Des Moines, Iowa
A.B., State University of Iowa, 1952

- ² Glenn Saxton Millice, Jr. Economics Battle Creek, Iowa
A.B., State University of Iowa, 1935
- ¹ Margaret Cecelia Morton Education Santa Monica
Ed.B., Chicago Teachers College, 1946
Thesis: The impact of television on children.
Cecil Douglas Moryl Art Culver City
A.B. 1953
- ² Delmer Carvel Nicks Psychology Los Angeles
A.B. 1953
- ² Ruth Bersch Nicks Psychology Los Angeles
A.B. 1951
Morris Nimovitz Political Science Reseda
A.B. 1955
- ² Jerrod Normanly Zoology Los Angeles
A.B. 1951
- ¹ Faye Harwood Noskoff Education Santa Monica
Ed.B. 1935
Thesis: A study of the effect of the divided opening program on reading achievement of first grade children in the city of Burbank.
- ¹ Johnny Renaldo Ottina Education Culver City
A.B. 1953
Thesis: A comparison of arithmetical understanding and skills of 7th and 8th grade students differing in elementary training.
Oscar E Patterson Theater Arts Walnut Creek
A.B., San Francisco State College, 1950
- ² Helen Ruth Peck Microbiology Panama, Republic of Panama
B.S., Mount St. Mary's College, 1952
Thesis: Taxonomic and morphological studies on dermatophytes isolated from the soil.
Sophia Peterson Political Science Newport, Rhode Island
A.B., Wellesley College, 1951
- ¹ Bruce Raymond Pierce Speech Los Angeles
A.B. 1954
Thesis: An analysis of identification and empathy as applied to speech therapy.
S A Pollack Physics Los Angeles
- ² Dimi Polonsky Psychology Los Angeles
A.B. 1950 and A.B. 1951
Gaetano Pomposo Italian San Francisco
A.B., University of California, Berkeley, 1953
- ¹ Mary Rita Powers Mathematics Norwich, Connecticut
A.B., Connecticut College, 1942
Ellen Margaret Quinlivan English Columbus, Ohio
A.B., College of St. Mary of the Springs, Columbus, Ohio, 1954
Lawrence Muth Rasmussen, Jr. Art San Diego
A.B., San Diego State College, 1953
- ² Frank Richard Rayburn Theater Arts Gresham, Oregon
A.B., University of Oregon, 1950
Thesis: Consolation Prize: a play in three acts.
Alice George Reichert Education Santa Monica
A.B. 1936
Thesis: Implications for business education of a follow-up study of selected graduates of Narbonne High School.
- ¹ Maryanne Reid Education Los Angeles
B.S., Northwestern University, 1952
Thesis: The role of the dormitory social program in teaching social competence to undergraduate women with a description of the UCLA women's dormitory social programs.
Roland Martin Reiss Art Los Angeles
A.B. 1955
Leo Rennert Journalism Los Angeles
A.B. 1955

- James Richard Robb.....Political Science.....Riverside
A.B., George Washington University, 1953
- Jane Carolyn Roberts.....Zoology.....Groveland, Massachusetts
B.S., University of Massachusetts, 1954
- ² Bobby Brick Robinson.....Geology.....Los Angeles
A.B. 1954
Thesis: Geology of the Holser Canyon area, Ventura County, California.
- ² Edmund Burke Roney.....Theater Arts.....Berkeley
A.B., University of California, Berkeley, 1951
Thesis: Design and technical direction of the play, *Fig-Tree Madonna*.
- ² William Rudolph Ruess, Jr.....Education.....Santa Monica
A.B. 1940
Thesis: The vice-principal and the supervision of the interscholastic athletic program in the Los Angeles City High Schools.
- ¹ Emily Mae Ruhberg.....Theater Arts.....Tarzana
A.B. 1951
- John Crittenden Rumford.....Geography.....Los Angeles
A.B. 1954
Thesis: Investigations on the transmission of Q fever by wind-blown contaminated dust.
- ¹ Florence Prentice Sanders.....Education.....Nacogdoches, Texas
A.B., Wiley College, 1948
Thesis: A concerted effort to improve reading in a primary school.
- Gilbert Sax.....Education.....Los Angeles
A.B. 1953
Thesis: A comparison of arithmetic scores of elementary school pupils in grades III to VI in schools differing in curriculum emphasis.
- Barbara G Sayles.....German.....Los Angeles
A.B., MacMurray College, 1951
- Henry Schloss.....Theater Arts.....Takoma Park, Maryland
A.B., Brooklyn College, 1943
Thesis: The Los Angeles Toy Loan Program as the subject for a motion picture—Research and development of the production plan.
- Joyce Agnes Schultz.....Theater Arts.....Los Angeles
A.B. 1953
Thesis: The design and technical aspects of a thesis production, *Jennesa*.
- ¹ Beverly Anne Schupfer.....German.....Kendrick, Idaho
A.B., University of Idaho, 1951
- Jean Naylor Scroggs.....Art.....Topanga
A.B., University of California, Berkeley, 1950
- William Forsyth Sharpe.....Economics.....Los Angeles
A.B. 1955
- ¹ Sister Anne Marie Sheldon.....English.....San Diego
A.B., Mount St. Mary's College, 1945
- Robert Leon Shultz, Jr.....Art.....Encino
A.B. 1953
- Donald Edward Siffert.....Political Science.....Santa Monica
A.B. 1947
Thesis: A comparative survey of city governments in Santa Monica, California.
- ¹ Cecil Leon Simpson.....French.....Blue Mountain, Alabama
A.B. 1951 and B.S. 1951, State Teachers College, Jacksonville, Alabama
- John Cameron Sinclair.....Zoology.....El Monte
A.B., University of California, Berkeley, 1948
- Vivienne Cavender Sinclair.....Spanish.....Los Angeles
A.B. 1954
- Gregg Smith.....Music.....Los Angeles
A.B. 1954
Thesis: Narrative cantata—The Seven Last Words.
- Raymonde Townley Smith.....French.....Van Nuys
A.B. 1946

- Alain Pierre Solard.....French.....Paris, France
A.B., Texas Christian University, 1954
- Howard Samuel Sonneman.....Geology.....Sherman Oaks
A.B. 1954
Thesis: Geology of the Boney Mountain area, Santa Monica Mountains, California.
- ³ Edward Marion Sounein.....Zoology.....Santa Barbara
A.B., Santa Barbara College, University of California, 1953
Thesis: The transmission of macromolecules in chicken embryos.
- ² Carolyn Kaiden Staats.....Psychology.....Los Angeles
A.B. 1952
- ³ Joan Winifred Steffens.....Anthropology.....East Meadow, New York
A.B., Hunter College of the City of New York, 1953
Alfred Joseph Stuart, Jr.....Theater Arts.....Raleigh, North Carolina
B.N.E., North Carolina State College of Agriculture-Engineering of University
of North Carolina, 1951
Thesis: Laird
- Martin Charles Taylor.....Spanish.....Brooklyn, New York
A.B., New York University, 1954
- Morton Abraham Tenenbaum.....English.....Los Angeles
A.B. 1949
- ² Jack Herbert Leroy Thompson.....English.....Los Angeles
B.S. 1950
Richard Edward Timmer.....Psychology.....Los Angeles
A.B. 1951
- ¹ Paule Colette Tisserand.....French.....San Fernando
Licence ès Lettres, University of Lille, 1952.
Eric Tovar-Calderon.....Spanish.....Los Angeles
A.B. 1951
- ¹ David Theodore Uslan.....Education.....Woodland Hills
A.B. 1950
Thesis: Parent orientation in assignment of the mentally retarded child to special education.
- ² Myra Vorkapich.....Anthropology.....Beverly Hills
A.B. 1952
Moneim Abdul Wahab.....Geography.....Baghdad, Iraq
Thesis: The Rincon Oil Field, Ventura County, California, a study in oil development and marketing.
- ³ Beverly Wahlgren.....Political Science.....Woodland Hills
A.B. 1951
- ³ Lawrence John Warn.....Psychology.....Milwaukee, Wisconsin
A.B., State University of Iowa, 1950
- ¹ Jon Rose Warren.....Psychology.....Los Angeles
A.B. 1949
Frank Harold Weber, Jr.....Geology.....San Gabriel
A.B. 1952
Thesis: The geology and mineral deposits of the Ord Mountain district, San Bernardino County, California.
Anne de Gruson Wenger.....French.....Toulouse, France
Raymond C White.....Anthropology.....Denver, Colorado
A.B., University of Denver, 1948
Kenneth Alan Wickersheim.....Physics.....Los Angeles
A.B. 1950
- ² William Brooks Wiley.....English.....Riverside
A.B., Wabash College, 1951
Richard Leon Williams.....Latin.....Palos Verdes Estates
A.B. 1954
- ¹ Dennis Downing Wilson.....Theater Arts.....Los Angeles
A.B., University of Miami, 1952
- ³ David Kenneth Winter.....Anthropology.....South Pasadena
A.B. 1953

- Jean Lauren WoodHistoryLos Angeles
A.B., Pomona College, 1955
- ² Thomas Carleton WoodHistorySanta Monica
A.B., University of California, 1941
- ¹ Linsley Glendining WyantMathematicsLos Angeles
A.B. 1953
- Riyoso YamamotoMicrobiologyLos Angeles
A.B. 1950
Thesis: Antibiotic activity of actinomycetes isolated from California soils.
- Helen Lee-Hwa YuJournalismTaiwan, China
A.B., National Taiwan University, 1953
- ² Dean ZesMathematicsLong Beach
A.B. 1949

The Degree of Doctor of Education (School of Education) upon

- Melvin Adolph AndersonHiram, Ohio
B.E., Northern Illinois State Teachers College, 1933; M.A., Northwestern University, 1941
Thesis: A historical study of California's state-supported educational journals.
- Eleanor Mabel ColeStockton
B.S., New York State Teachers College, Cortland, New York, 1943; M.A., New York University, 1945
Thesis: An investigation of the frequency, variety, and intensity of problems reported by selected women physical education majors at the University of California at Los Angeles.
- Howard Everett CroftsSan Diego
A.B. 1932; M.A., New York University, 1940
Thesis: The development of personnel for central office administration in city school systems.
- Raymond Edwin DennoLa Jolla
A.B., Santa Barbara College, University of California, 1930; M.S., University of Southern California, 1951.
Thesis: Classroom screen ambient light ranges for projecting 16mm. motion picture films.
- Clifford George DobsonPico
B.S. 1946 and M.Ed. 1950
Thesis: A study of apprentices enrolled in related instruction classes in California public schools.
- George Kermit DrakeSanta Monica
Ed.B. 1934; M.S., University of Southern California, 1937
Thesis: A critical analysis of the functions of the junior high school in California.
- John Ray EalesRushville, Illinois
A.B., Washington University, 1934; M.A., Northwestern University, 1946
Thesis: A brief, general history of the Los Angeles city school system.
- ² Herbert Mathias FougnerBig Falls, Minnesota
B.S., State Teachers College, Bemidji, Minnesota, 1943; M.Ed. 1949
Thesis: A self-appraisal course for the preparation of guidance personnel.
- Albert Charles HallSan Diego
A.B., Asbury College, 1934; M.A., University of Kentucky, 1938
Thesis: Instructions and attack variability as related to problem-solving behavior.
- ² Barbara Antoinette HartsigAlhambra
A.B., Occidental College, 1937; M.S., University of Southern California, 1945
Thesis: A study of the creative writing of children in the intermediate grades.
- Milton Farrell HartvigsenPocatello, Idaho
B.S. 1930 and M.Ed. 1939, Agricultural College of Utah
Thesis: The origin, development, and reorganization of public school districts in Idaho.
- ³ John Smith HislopLos Angeles
A.B. 1944 and M.A. 1945
Thesis: Determination of the content of a course in business report writing.

- ¹ Virgil Monroe Howes Newburgh, Indiana
B.S. 1948 and M.S. 1949, Indiana University
Thesis: Analysis of elementary teachers' guidance understandings, practices, problems, and recommendations.
- ¹ Everett Delmar Lantz Laramie, Wyoming
A.B. 1936 and M.A. 1939, University of Wyoming
Thesis: A prospectus for the administration of college and university camps.
- John Henry Milor Rialto
A.B., Olivet College, 1924; M.A., University of Michigan, 1928
Thesis: Education in the state of Baja California.
- ³ John Richard Nicklin Los Angeles
B.S. 1950 and M.Ed. 1951
Thesis: Characteristics of students in a credit course by television offered by the University of California Extension, Southern Area.
- ¹ Frances Melanie Obst St. Paul, Minnesota
B.S. 1934 and M.A. 1938, University of Minnesota
Thesis: A study of selected psychometric characteristics of home economics and non-home economics women at the University of California, Los Angeles.
- Agnes Edwards Partin Los Angeles
A.B., University of California, Berkeley, 1921; M.A. 1939
Thesis: Evaluation of student achievement in English in selected junior colleges, as related to stated aims of instruction.
- Richard Stoddard Perry Los Angeles
B.S. 1937 and M.Ed. 1949
Thesis: A critical study of current issues in business education in the public junior colleges of California.
- ¹ Harry Frederick Silberman Anderson
A.B. 1949 and M.A. 1950, Chico State College
Thesis: A study of conditions under which a success aspiration is learned.
- ² Ella May Small Greeley, Colorado
A.B. 1932 and M.A. 1937, Texas Woman's College
Thesis: Staff relationships in college and university physical education departments.
- Peter Harrison Snyder San Diego
A.B., University of California, 1924; M.A., Claremont Graduate School, 1937
Thesis: Functions of the elementary school principalship in southern California at mid-century.
- Frank Goldfield Tait San Diego
A.B., San Diego State College, 1933
Thesis: A critical analysis of compensation policies, procedures, and salary schedules in selected school districts.
- Wade Franklin Thomas, Jr. Santa Monica
A.B. 1933 and M.A. 1937, University of California, Berkeley
Thesis: An investigation of operational relationships between vocational and both university transfer and general education programs in selected public junior colleges.
- ³ Emil Otto Toews Upland
A.B. 1931; M.A., University of Southern California, 1932
Thesis: The life and professional works of Georg Michael Kerschensteiner (1854-1932).

The Degree of Doctor of Philosophy upon

- ³ Mordhay Abramsky Horticultural Science Tel Aviv, Israel
B.S. 1953
Thesis: The tricarboxylic acid cycle in avocado mitochondria.
- ² Janet Allinger Chemistry Walnut Creek
B.S., University of California, Berkeley, 1951
Thesis: Stereochemical studies with a quaternary carbon.

- Richard Stanley Balvin.....PsychologyNorth Hollywood
A.B., Los Angeles State College, 1951
Thesis: Decision-making in a situation involving stationary probabilities and providing several alternatives for maximization.
- Richard Alyn BardrickPsychologyLos Angeles
A.B. 1948
Thesis: Emotional content as a factor in stuttering behavior.
- Ralph Eugene Behrends.....PhysicsLos Angeles
B.S., United States Naval Academy, 1947; M.A. 1953
Thesis: Field corrections to decay processes.
- ¹ Frances Ann BenedictZoologyWest Hartford, Connecticut
A.B., Vassar College, 1947
Thesis: Hair structure as a generic character in bats.
- ² Ivar Ben BentsenPsychologyOak Park, Illinois
B.S., University of Illinois, 1950; M.A. 1954
Thesis: Effect of sodium amytal on conventionality, commonality of response to the Word Association Test, and Thematic Apperception Test.
- William Elmer BittleAnthropologyVan Nuys
A.B. 1949 and M.A. 1950
Thesis: The position of Kiowa-Apache in the Apachean group.
- ² Jeremiah Lion BlattBiological ChemistryLos Angeles
A.B., University of California, Berkeley, 1943
Thesis: Studies on filter paper chromatography.
- ² James Donald BlickGeographyLos Angeles
A.B. 1947 and M.A. 1950
Thesis: An analysis of cotton production in the San Joaquin Valley, California.
- ² Murray BloomChemistryLos Angeles
B.S. 1950 and M.A. 1952
Thesis: I. An analogue of atropine.
II. 2-dialkylaminocycloalkanol diphenylacetates.
- John G BreilandMeteorologyAlbuquerque, New Mexico
A.B., Luther College, 1933; M.S., State University of Iowa, 1934
Thesis: Meteorological conditions associated with the development of instability lines.
- ³ Glenn Lamar BrownPhysicsLynwood
A.B. 1949 and M.A. 1951
Thesis: Theory and design of pressure pulse transducers and transient detectors for solid media.
- Ray Broadus BrowneEnglishMillport, Alabama
A.B., University of Alabama, 1943; M.A., Columbia University, 1947
Thesis: Alabama folk songs.
- John Clifford BrunnerEnglishPacific Palisades
A.B. 1938 and M.A. 1940, University of Southern California
Thesis: Henry Adams: his decline and fall.
- ² Valerie Constance BurkigPhysicsSharon, Massachusetts
A.B., The Women's College of Middlebury, 1947; M.A. 1950
Thesis: Relative stopping power of some metallic elements for 20 Mev protons.
- ² William Carman CalvertPsychologyLa Verne
A.B., Pomona College, 1947
Thesis: Brightness enhancement of intermittent light with dark-time predominating in the stimulus cycle.
- ¹ Santo Francis CamilleriSociologyLos Angeles
A.B. 1947 and M.A. 1949
Thesis: An empirical application of certain typological methods to the study of *The Authoritarian Personality*.
- Francis Michael CarneyPolitical ScienceRiverside
A.B., University of Southern California, 1947; M.A., Stanford University, 1949
Thesis: Concepts of political representation in the United States today.
- Frank Chester ChippsHistoryPortland, Oregon
A.B., Pacific University, 1948; M.A., University of Oregon, 1950
Thesis: Developments in English news letters 1660-1714.

- ¹ David George Davies Economics Claremont
A.B., Stanford University, 1949; M.A. 1952
Thesis: California municipal retail sales and use taxation.
- ² Charlotte Taylor Davis Chemistry Los Angeles
B.S., Tufts College, 1944; M.S. 1950
Thesis: A. Khellin analogues
B. The basicity of flavones
C. The metabolism of pyribenzamine.
- Robert Lawrence DeHaan Zoology Los Angeles
A.B. 1952 and M.A. 1954
Thesis: The mechanism of cardiac damage in anoxia, with special reference to infant resistance.
- Edward Charles DeLand Mathematics Ramona
B.S., South Dakota School of Mines, 1943; M.A. 1954
Thesis: On the separation of variables for Laplace's equation.
- Rene Felix Dennemeyer Mathematics Los Angeles
A.B. 1948 and M.A. 1949
Thesis: Quadratic forms in Hilbert space and second order elliptic differential equations.
- ³ Louis de Vries Chemistry Amsterdam, Holland
Thesis: Solvolysis of octahydro-1,4-5,8-dimethanonaphthyl p-bromobenzenesulfonate and accompanying rearrangements.
- ³ Frank Wilson Dickson Geology Los Angeles
A.B. 1950
Thesis: Geochemical and petrographic aspects of mercury ore deposits.
- Keith Alan Dixon Anthropology Monrovia
A.B., University of Arizona, 1950
Thesis: The archaeological significance of certain unusual pottery shapes of the prehistoric Southwest.
- ² Guilford Allerton Dudley History Van Nuys
A.B., Harvard University, 1943; M.A. 1952
Thesis: The early life of Henry St. John.
- ¹ Eugene Paul Dvorin Political Science Los Angeles
A.B. 1948 and M.A. 1951
Thesis: The Central African federation: a political analysis.
- ¹ Hugh Alan Ells Zoology Los Angeles
A.B. 1950 and M.A. 1953
Thesis: The oxidative metabolism of the vinegar eel, *Turbatrix aceti* (Rhabditoidea: Nematoda).
- Sayed Aly El Wardani Oceanography Alexandria, Egypt
B.S., Farouk I University, 1948; M.S. 1952
Thesis: Geochemistry of germanium.
- Stanley Charles Freden Physics Long Beach
A.B. 1950 and M.A. 1952
Thesis: Properties of negative K mesons.
- ³ Edward Geller Biological Chemistry Los Angeles
A.B. 1947 and B.S. 1948
Thesis: Microbiological studies of nucleosides, alpha hydroxy acids, and related compounds.
- Earl Everett Gossard Oceanography Eureka
A.B. 1948 and M.A. 1951
Thesis: Gravity waves in the lower troposphere over Southern California.
- ³ Charles Edgar Goyette, Jr. Philosophy Tucson, Arizona
A.B., University of Arizona, 1948
Thesis: Self-evidence, truth criterion and concept: its methodological and metaphysical nature.
- ¹ Razmic Sarkies Gregorian Chemistry Calcutta, India
B.S., St. Xavier's College, Calcutta, India, 1946; B.S. 1950
Thesis: I. Attempted synthesis of 1,5-naphthyridine derivatives by an intramolecular Mannich condensation.
II. Synthetic attempts directed at cytosine.

- ¹ Gordon William Groves Oceanography Santa Monica
 A.B. 1949 and M.S. 1951
Thesis: Day to day variation of sea level.
- ² Charles Robert Haag Music Bakersfield
 A.B. 1951 and M.A. 1953
Thesis: The keyboard concertos of Carl Philipp Emanuel Bach.
- ¹ Leroy Clyde Hardy Political Science Lynwood
 A.B., Santa Barbara College, University of California, 1949
Thesis: The California reapportionment of 1951.
- Louis Kenneth Harris Political Science Kent, Ohio
 A.B. 1945 and M.A. 1946, Ohio State University
Thesis: Government for the people of Mexico City.
- Maria Schnee Haynes English Yuma, Arizona
 Ed.B., Pacific Luthern College, 1951; M.A. 1953
Thesis: The concept of old age in the late Middle Ages with special reference to Chaucer.
- ² Robert Irwin Henkin Music Los Angeles
 A.B., University of Southern California, 1951
Thesis: The prediction of behavioral response patterns to music.
- Kenneth Myron Hoffman Mathematics Los Angeles
 A.B., Occidental College, 1952; M.A. 1954
Thesis: Boundary behaviour of generalized analytic functions.
- ² James Milburn Holt Psychology Los Angeles
 A.B. 1947 and M.A. 1953
Thesis: The treatment of chronic anxiety states by means of partial sympathetic blockade.
- Alan Stewart Hourston Oceanography
 M.A., University of Toronto, 1949 Nanaimo, British Columbia, Canada
Thesis: Population dynamics of juvenile herring in Barkley Sound, British Columbia, as an integral part of the life history.
- Charles Harve Humphrey Physics Los Angeles
 A.B. 1947 and M.A. 1949
Thesis: I. The two-body theory of alpha-alpha scattering.
 II. Forbidden electron-neutrino angular correlations.
- Fred LaSalle Humphrey Geology Sonora
 B.S., University of Nevada, 1943; M.A. 1947
Thesis: Geology of the White Pine district, Nevada.
- Uriel Mark Ittenberg Music Los Angeles
 A.B., Yale University, 1933; M.A., Teachers College, Columbia University, 1947
Thesis: The fugues of J. S. Bach: a study of their structure, style and texture.
- ² Earl Janssen Engineering Los Angeles
 B.S. 1936 and M.S. 1941, University of California, Berkeley
Thesis: I. An analog method for solving the hydrodynamic equations for two dimensional viscous flow.
 II. Application of the method to the case of flow past a flat plate.
- Duane Edward Johnson Chemistry Kiron, Iowa
 B.S., Iowa State College, 1951
Thesis: Reactions of alkali metal derivatives of allylbenzene in polar and non-polar solvents.
- Robert Eugene Johnson English Seattle, Washington
 A.B., University of Washington, 1942
Thesis: The American political novel, 1792-1950, a survey.
- ² Peter Eduard Kaus Physics Hollywood
 A.B. 1947 and M.A. 1952
Thesis: Topics in elementary particle theory.
- ² Patricia Frances Knight Zoology Seattle, Washington
 B.S., University of Washington, 1947
Thesis: The transfer of macromolecules from the mother to the embryo.
- ² Ferdinand Hobert Kruse Chemistry Albuquerque, New Mexico
 B.S., Iowa State College, 1945; M.S., University of New Mexico, 1951
Thesis: The crystal structures of some organotellurium compounds.

- Saul Charles KupfermanPsychologyLos Angeles
A.B. 1948 and M.A. 1950
Thesis: An experimental study of psychological test behavior of depressed psychiatric patients treated with a combination of Reserpine and Meretran.
- Jean Antoine LaponcePolitical ScienceSeine, France
Diploma, University of Paris, 1947
Thesis: The protection of minority.
- Sol David LarksBiophysicsChicago, Illinois
B.S., University of Illinois, 1948; M.A. Northwestern University, 1951
Thesis: Electric potentials of the human uterus in labor.
- ² Albert LeppBiological ChemistryLos Angeles
B.S., University of Illinois, 1938; M.S., University of Wisconsin, 1947
Thesis: Metabolic relationships of glutamine and related compounds.
- James Treloar Lester, Jr.PsychologyClayton, Missouri
B.S., Northwestern University, 1950; M.A. 1953
Thesis: A further investigation of leveling and sharpening.
- ² Louise Catherine LubbeEnglishSanta Monica
A.B. 1940 and M.A. 1944
Thesis: *A Myrour to Lewde Men and Wymmen.*
- Phillip Stewart MageeChemistryCoronado
B.S. 1949 and M.S. 1952, University of Southern California
Thesis: Alkyl participation and fragmentation in solvolysis.
- Arthur Joseph MarionPsychologyEndicott, New York
A.B., University of Michigan, 1942
Thesis: The influence of experimenter status upon verbal conditioning.
- William McBlairZoologySan Diego
A.B., San Diego State College, 1947
Thesis: The uptake of vanadium in the tunicate *Ciona intestinalis* Linnaeus.
- Edward Patrick McLaughlinChemistryDorchester, Massachusetts
B.S., University of Arizona, 1950; M.S., Boston College, 1951
Thesis: Thermodynamics of fluorocarbon solutions.
- ² John Lester MichaelPsychologyLos Angeles
A.B. 1949 and M.A. 1953
Thesis: Autonomic responsivity and lie detection.
- James Nathaniel MillerInfectious DiseasesLos Angeles
A.B. 1950 and M.A. 1951
Thesis: Studies on serologic tests for syphilis employing treponemal antigens.
- Jerome Wilson MillimanEconomicsRoscoe
A.B. 1948 and M.A. 1952
Thesis: The history, organization and economic problems of the Metropolitan Water District of Southern California.
- Charles Wallace MolanderMicrobiologyChicago, Illinois
Ph.B., University of Chicago, 1947; M.S., University of Arizona, 1952
Thesis: A study of the efficacy of a subtilin-inactivated Newcastle Disease virus as a vaccine.
- John Phillips MonteverdeEnglishLos Angeles
A.B. 1947 and M.A. 1950
Thesis: The rational animal.
- ² Thalís Athanassiou MouloulisHorticultural ScienceAthens, Greece
Thesis: Influence of regulation of fruiting on the phenology and certain chemical constituents of lemon trees (*Citrus limon* L.)
- David Irwin PaulPhysicsTujunga
A.B. 1950
Thesis: Acoustical radiation from a point source in the presence of two media separated by a plane interface.
- Beatrice Ramos PetrizRomance Languages and Literature
A.B., Immaculate Heart College, Los Angeles, 1948; M.A. 1949 Los Angeles
Thesis: A biographical and critical introduction to José María Salaverría.
- Thomas Dennis PittsZoologySan Diego
B.S., Rutgers University, 1934; M.A. 1948
Thesis: *In vitro* culture of the larvae of *Ascaris lumbricoides* suum.

- ¹ Donald Pizer English Los Angeles
A.B. 1951 and M.A. 1952
Thesis: Hamlin Garland: A critical study of his early work and career (1884-1895).
- Rudolph William Preisendorfer ... Mathematics Brooklyn, New York
B.S., Massachusetts Institute of Technology, 1952
Thesis: A mathematical foundation for radiative transfer theory.
- ¹ Richard James Prosen Chemistry Gilbert, Minnesota
A.B., University of Minnesota, 1950
Thesis: Precise studies of the structures of some crystalline perchlorates.
- Ann Parks Proud Psychology East Norwalk, Connecticut
B.S., University of Connecticut, 1947
Thesis: Response to picture-thematic stimulus material as a function of stimulus structure.
- Jo'Ann Jehl Pruett Physiological Chemistry. Floral Park, New York
A.B. 1950 and M.A. 1953, Radcliffe College
Thesis: Nutritional and metabolic studies with the Ehrlich's mouse ascites carcinoma.
- ² Andreas Buchwald Rechnitzer ... Zoology Escondido
B.S., Michigan State College, 1947; M.A. 1951
Thesis: A serological approach to the systematics of the viviparous sea-perches, family Embiotocidae.
- Frederick Ernest Romie Engineering Santa Monica
B.S. 1943 and M.A. 1947, University of California, Berkeley
Thesis: Heat transfer to fluids flowing with velocity pulsations in a pipe.
- William Harold Rosevear Psychology Ogden, Utah
A.B., University of Utah, 1939; M.Ph., University of Wisconsin, 1941
Thesis: Adaptation to delayed speech feedback.
- Samuel John Sackett English Redlands
A.B. 1948 and M.A. 1949, University of Redlands
Thesis: The place of literary theory in Henry Fielding's art.
- David Scott Sanders English Los Angeles
A.B. 1949 and M.A. 1953
Thesis: Pattern of rejection: three American novelists and the Communist literary line, 1919-1949.
- Nevin William Savage, Jr. Mathematics Berwick, Pennsylvania
B.S. 1950 and M.A. 1952, Pennsylvania State College
Thesis: Weak boundary components of an open Riemann surface.
- Donald Turner Sawyer, Jr. Chemistry El Segundo
B.S. 1953
Thesis: Part I. Applications of coulometric methods to kinetic studies.
Part II. Studies of several chelates of molybdenum (V) and (VI).
Part III. High frequency titrations.
- Edward McAnaney Sayles Philosophy El Paso
A.B. 1948
Thesis: A critical evaluation of R. G. Collingwood's views on metaphysics.
- ² Chin-Hua Shih Chemistry Hongkong, China
B.S., Chiao Tung University, 1949
Thesis: Synthesis and deamination of allylic amines.
- Leslie Almon Siewert Microbiology Pasadena
A.B. 1948
Thesis: Determinative investigations for the etiology of Vincent's angina.
- ³ Robert Fort Snowden Psychology Pasadena
A.B. University of California, Berkeley, 1941; M.A. 1953
Thesis: Brightness enhancement phenomena and the alpha rhythm.
- Alfred Herbert Sporer Chemistry New York, New York
B.S., College of the City of New York, 1951; M.S. 1953
Thesis: The mechanism of adsorption chromatography on silicic acid-Celite columns.

- ² Arthur Wilbur Staats.....PsychologySanta Monica
A.B. 1949 and M.A. 1953
Thesis: A behavioristic study of verbal and instrumental response hierarchies and their relationship to human problem solving.
- Martin Sanford StabbHispanic Languages and Literature
A.B., Rutgers University, 1949Lakewood, New Jersey
Thesis: Racial theories and attitudes in the works of representative contemporary essayists of Spanish South America.
- Gunther SteinbergPhysiological ChemistryLos Angeles
B.S. 1948 and M.S. 1951
Thesis: The metabolism of the essential fatty acids.
- Harris Bates Stewart, Jr.OceanographyAurora, New York
A.B., Princeton University, 1948; M.A. 1952
Thesis: Sediments and the environment of deposition in a coastal lagoon.
- Norman StraussMicrobiologyNew York, New York
A.B., New York University, 1950
Thesis: Kinetic and inhibitor studies of diphtherial succinic dehydrogenase.
- Chih Ree SunPhysicsHongkong, China
B.S., St. Xaviers College, University of Calcutta, 1947
Thesis: A double-channel beta-ray spectrometer and the radionuclide K^{87} .
- Paul Ichiro TerasakiZoologyLos Angeles
A.B. 1950 and M.A. 1952
Thesis: Studies on the immunity to the Brown-Pearce epithelioma of rabbits.
- Mya Mya TheinBotanical ScienceMaymyo, Burma
B.Sc., University of Rangoon, Burma, 1952
Thesis: Anatomical changes in *Xanthium pen(n)sylvanicum* in relation to photoperiodism.
- ³ Norman Wilson TideswellChemistryOmaha, Nebraska
B.S., Iowa State College, 1947
Thesis: Equilibrium and structural studies of selenium compounds.
- ³ Joseph Waggoner TownerHorticultural SciencePasadena
B.S., University of California, Berkeley, 1950
Thesis: Cytogenetic studies in *Tagetes*.
- Joseph David WarnerPsychologyRoxbury, Massachusetts
A.B., Northeastern University, Massachusetts, 1949; M.A. 1955
Thesis: A study of the effects of short-term, goal-limited group psychotherapy on the self-acceptance of parents of amputee children.
- Hyman WeintraubHistoryLos Angeles
A.B., Adelbert College of Western Reserve University, 1939; M.A. 1947
Thesis: Andrew Furuseth, emancipator of the seamen.
- Homer Covode WelshRomance Languages and Literature
Hiawatha, Kansas
A.B., University of Kansas City, 1941; M.A., University of Michigan, 1942
Thesis: *La Dame a la lycorne*—a critical study.
- ² Richard ZuckermanBiological ChemistryLos Angeles
A.B. 1948
Thesis: Studies in ion exchange chromatography.

The Honorary Degree of Doctor of Laws upon

*Strauss, Lewis L
Watkins, Gordon Samuel

* Degree conferred March 26, 1956.

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1955-1956**

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Given by the Alpha Chi Delta Sorority

Morna D Taitel

ALPHA CHI DELTA ALUMNAE AWARD

Given by the Alumnae of the Alpha Chi Delta Sorority

Nancy De Maranville

ALPHA CHI SIGMA CHEMISTRY PRIZE

Given by the Beta Gamma Chapter of the Alpha Chi Sigma Fraternity

Fred Lieberman

ALPHA KAPPA PSI MEDALLION AWARD

Given by the Alpha Kappa Psi Fraternity

Jessi D Miller

THE SOUTHERN CALIFORNIA ALPHA ZETA ALUMNI AWARD

Given by the Southern California Alpha Zeta Alumni Association

Thomas George Byrne

ROBERT B CAMPBELL STUDENT BOOK COLLECTION CONTEST

Established by Robert Campbell

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Nathaniel L Ross—2d

Wayne G Dynes—3d

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J Russell Nelson

ENGLISH DEPARTMENT PRIZE*Established as an annual prize for the outstanding senior in the Department of English*

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GIMBEL PRIZE*Established by Mr. Jake Gimbel of Los Angeles*

Robert Davenport

LUCIEN MEIS PRIZE IN PUBLIC HEALTH SANITATION*Given by Lester A Meis*

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PHI CHI THETA NATIONAL KEY AWARD*Given by the local chapter of Phi Chi Theta*

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PHI LAMBDA UPSILON PRIZE*Given by the Alpha Kappa Chapter of Phi Lambda Upsilon, national honorary chemical society*

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PHI SIGMA SOCIETY AWARD*Established by the National Council of the Phi Sigma Society*

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John Deelman

PHYSICS ENDOWMENT FUND PRIZE*Income from the Physics Endowment Fund, Los Angeles*

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PI MU EPSILON PRIZE*Established by the Pi Mu Epsilon Fraternity*

Victor Wirship

VARSITY CLUB AWARD*Given by the Varsity Club*

Leon Farley

SANTA MONICA HOE CLUB PRIZE*Given by the Santa Monica Hoe Club*

Flora Ninomiya

SAMUEL GOLDWYN AWARD FOR CREATIVE WRITING*Established by the Samuel Goldwyn Foundation*

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Anita Wincelberg

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BORDEN HOME ECONOMICS AWARD

Established by the Borden Company Foundation, Inc.

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AIR SCIENCE AND TACTICS

Awards given by the Department of Air Science

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Awards given through the Department of Military Science

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NAVAL SCIENCE AWARDS

Awards given through the Department of Naval Science

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John J Lesch
Myrm J Franks
Robert L Eddy

John R Bundy

MILITARY COMMISSIONS**UNITED STATES ARMY****Second Lieutenant, Infantry**

Lewis C O'Rourke

UNITED STATES ARMY RESERVE**Second Lieutenant, Artillery**

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 Robert C Burke
 Kenneth C Cleveland
 Donald R Davidson
 Robert L French
 Robert M Hixson, Jr.
 Herman L Jay
 Robert B Kraemer
 Felice A Magnante
 Ovvie Miller
 Roland S Nelson
 Gerald D Samuelson
 Allan W Sandstrum

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Victor A Manca

Second Lieutenant, Armor Corps

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 Pierre W Mornell
 Gary A Riopelle

Second Lieutenant, Army Security Agency

Donald P Moore

Second Lieutenant, Corps of Engineers

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 Donald A Hass
 Neil F Rosser

Second Lieutenant, Infantry

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 James H Green
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 James W Read
 Jack D Sorter
 Robert S Stein
 Heinz H Steinman
 Alan J Swimmer
 Constantine J Tassopoulos
 James G Up De Graff
 Roger J White

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 Ronald M Scheinman

Second Lieutenant, Medical Service Corps

Edward Petko
Ronald Tepper

Second Lieutenant, Ordnance Corps

John R Hettinger
Thomas C Jensen
Bruce K Kober

Second Lieutenant, Quartermaster Corps

Daryal T Gant
James F Stahl
Lawrence J Stern

Second Lieutenant, Signal Corps

John E Halter

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Ronald Marcus Bundy
Jim Foster Cameron
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John Hermis Christ
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Walter Lewis Doucett, Jr.
John Frederick Farnsworth
Charles Leslie Fries
John Oliver Garvey
Nelson Marcelous Gillette
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Lawrence Herron Larson
Bruce Robert Lippke
Curt Lee Owen
LeRoy Raymond Price
Solomon D Rosner
Jack Stevenson Smith
Terry Lee Stockham
Richard Louis Vonier
Laurence Noel Walker
Thomas G Warburton

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Robert Morley Chelew
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George Melvin Davall, Jr.
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Timothy Christopher Howe
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Jerry Monroe Lewis
James Bigler Lyman

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James Riley Minton
Charles Everett Moon, Jr.
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Raymond Edgar Paschke
Donald John Regan
Dale Curtiss Reid
James Anthony Rexrode
Lawrence Edward Schnitzer
Richard Phillip Scott
John Anthony Smith
Leslie Harold Wantz
Richard Carleton Worth
William Harold Young
Joseph Yzurdiaga

Second Lieutenant, United States Marine Corps

Harold Leroy Angle
Jared Glenn Carter
John Revell Dailey

Charles Keith Engle
Theodore Russell Paulson
Edward Francis Ryan

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 James E Atwood
 Arthur Baldonado
 Ronald L Bane
 Melvin P Bayer
 Robert I Behar
 Wesley Bilson
 Robert C Bittner
 Vilhelm Bjerknes
 Floyd L Cannon
 Donald W Cornell
 Oville E Dickerson
 Rudolph D duCharme
 Daniel Friedman
 Earl D Gandel
 Donald R Gertsman
 Ronald W Grant
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 Clark M Kates
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James L McGuffey, Jr.
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 Anthony Plaia
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 Louis R Ravetti
 Andre Ronay
 Earl W Rose, Jr.
 Mitchell S Rose
 Richard A Rossi
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 Howard B Spielman
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 Noble L White
 Robert J Wise
 Leland Wong
 Wing J Wong

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

Awarded for the Academic Year
1956-1957

CALIFORNIA CONGRESS OF PARENTS AND TEACHERS, INCORPORATED, SCHOLARSHIPS IN EDUCATION

- Joanne D Bender (Education) Los Angeles
A.B. 1956
Donald Feinberg (Education) Sun Valley
A.B. 1956
Norman F Gottlieb (Education) Los Angeles
A.B. 1956

CLARK MEMORIAL LIBRARY FELLOWSHIP IN ENGLISH

- Arlene Gordon Bloom (English) Pacific Palisades
B.S. 1952; M.A. 1955

WALT DISNEY FELLOWSHIP IN THEATER ARTS

- Jack Reginald Ferrucci (Theater Arts) Los Angeles
A.B. 1955

THE JOHN RANDOLPH AND DORA HAYNES FOUNDATION FELLOWSHIPS IN SOCIAL SCIENCES

- Arthur J Kirsch (Economics) Sherman Oaks
A.B., University of California, Berkeley, 1952; M.A. 1954
Richard C Schwarzman (History) Summerland
A.B., Occidental College, 1948; M.A. 1949

A. ATWATER KENT FELLOWSHIP IN MUSIC

- Ralph George Heidsiek (Music) Venice
A.B. 1951; M.A. 1954

WALTER LOEWY RESIDENT FELLOWSHIP IN GERMANIC LANGUAGES

- Ada Ruth Haussmann (German) Monrovia
A.B. 1951; M.A. 1953

ROBERT VALENTINE MERRILL MEMORIAL SCHOLARSHIP IN FRENCH

- Anne de Gruson Wenger (Romance Languages) Toulouse, France
M.A. 1956

O. F. MUNSON MEMORIAL FELLOWSHIP IN POLITICAL SCIENCE

- Carlo Anthony Valentino Los Angeles
B.S., Georgetown University, 1951; M.A. 1955

MONSANTO CHEMICAL FELLOWSHIP IN CHEMISTRY

- Richard Allen Porter (Chemistry) Chicago, Illinois
B.S., Northwestern University, 1954

LA VERNE NOYES GRADUATE SCHOLARSHIPS

- Virginia Elaine Fuston (Business Administration) Long Beach
B.S. 1950; M.B.A. 1951
Frederick W Nagle (Meteorology) Lubbock, Texas
B.S., American University, 1951
Vivienne Larson Webber (Home Economics) Hemet
B.S. 1955
James Lee Wilcox (Political Science) Long Beach
Candidate A.B.

MABEL WILSON RICHARDS GRADUATE SCHOLARSHIPS

- Ruth L Adams (Music) Los Angeles
A.B. 1954
- Frances Ann Anderson (Art) Los Angeles
B.S. 1956
- Audrey Greenwood (French) Inglewood
A.B. 1936; M.A. 1954
- Jacqueline M Haney (Theater Arts) Los Angeles
A.B. 1956
- Virginia Ann North (French) Inglewood
A.B. 1956

WILL ROGERS MEMORIAL GRADUATE SCHOLARSHIPS

- Chester Francis Healy, Jr. (Business Administration) Los Angeles
B.S. 1955
- Fannie Elizabeth Knight (Journalism) Los Angeles
A.B., Los Angeles State College, 1953
- Truman J Meyers (Law) Van Nuys
B.S. 1955
- Richard Leland Tracey (Political Science) El Monte
A.B. 1954; Candidate M.A. Whittier College

SHELL OIL COMPANY FELLOWSHIP IN GEOLOGY

- Vernon E McMath (Geology) Los Angeles
A.B. 1952

SHELL OIL COMPANY FELLOWSHIP IN GEOPHYSICS

- Anthony Frank Gangi Glendale
B.S. 1953

STANDARD OIL COMPANY OF CALIFORNIA FELLOWSHIP IN CHEMISTRY

- Samuel Henry Sharman (Chemistry) Los Angeles
A.B., Pomona College, 1953

**STANDARD OIL COMPANY OF CALIFORNIA FELLOWSHIP
IN ENGINEERING**

- Benard Katz (Engineering) Glendale
A.B., Brooklyn College, 1950

CHARLES C. TEAGUE FELLOWSHIP IN HORTICULTURAL SCIENCE

- Ramzi Mustafa Khalidy (Horticultural Science) Beirut, Lebanon
A.B., American University of Beirut, Egypt, 1953; M.A., Utah State
Agricultural College, 1955

TOM TREANOR FELLOWSHIP IN JOURNALISM

- Fern Victor Seizer (Journalism) Los Angeles
Candidate A.B.

UNITED STATES RUBBER COMPANY FELLOWSHIP IN CHEMISTRY

- William Julius Wechter (Chemistry) Chicago, Illinois
A.B., University of Illinois, 1953; M.S. 1954

UNIVERSITY FELLOWSHIPS

- Alexander L Albin (Music) Van Nuys
A.B. 1955; Candidate M.A., Northwestern University
- James Williams Blattner (Mathematics) Mexico, Missouri
B.S., Central College, 1951; UN.S., University of Wisconsin, 1954
- David Esmael Darwish (Chemistry) Alberta, Canada
B.S., University of Alberta, Canada, 1953
- Irene Chadwick Froyd (Psychology) Agoura
A.B. 1950

- Peter Henry King (History)**St. Andrews, Scotland
M.A., University of St. Andrews, Scotland, 1952
- Ruth Anna Hall Mathers (Philosophy)**Los Angeles
B.S. 1953
- Vincent George Mazzucchelli (Geography)**Fresno
A.B., Fresno State College, 1950; M.A., Syracuse University, 1951
- John Stanley Nodvik (Physics)**Canonsburg, Pennsylvania
B.S., Carnegie Institute of Technology, 1952; M.S., California Institute
of Technology, 1952
- Mary Francis Gillespie Scott (Sociology)**Claremore, Oklahoma
A.B. 1953; M.A., University of Texas, 1954
- Larry Evan Travis (Philosophy)**San Diego
A.B., University of Colorado, 1951

AWARDS OF UNDERGRADUATE SCHOLARSHIPS

FOR THE ACADEMIC YEAR 1956-1957

THE STATE OF CALIFORNIA SCHOLARSHIPS

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David James Hollweger
Kenneth Gerald Holmes
Roy Atsushi Ito
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Delano Heishiro Kawahara
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Keith Mile Kendig
Marguerite Rose Kimball

Jack Calvin Kingsley
Howard Stephen Klein
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Shizuko Judy Okada
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Leeora Lee Sechrest
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Lillian Laraine Sing
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Lewis Taylor Smith
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Doris Mary Spanje

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Marion Jervis Traendly
Jesus Bonifacio Tupax

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Barbara Lee Heun
Leonard Kass

Mary Jo Anne Lewis
Carole Anne McDonald
Lida Ruth Needels
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 Frieda Starling Brown
 Jollee Ann Chambers
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 Marta Gail Pirschel
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 William Perry Judd

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 Philip Parenti Pepper
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 Marilyn Christine Wilbrecht

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 Tayeko Noda

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Charles Thomas Stelzried

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FOR THE ACADEMIC YEAR 1956-1957

THE VICTOR M. CARTER AND ADREA CARTER SCHOLARSHIP
IN MEDICINE
Bruce Robison

THE GOLDWYN SCHOLAR OF THE SAMUEL GOLDWYN FOUNDATION
Robert Neerhout
Robert Elstad
John Neff
James Osborn

THE HALPER FOUNDATION SCHOLARSHIP
Jerrold Turner
Robert Faulkner
John Nicoloff
Gerald Brody

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Jack Coburn
Douglas Schramel
William R Blakeley
George R Lewis
James M Walters

THE AUGUST JEROME LARTIGAU SCHOLARSHIP FUND
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Joseph Caston
Suzanne Eggleston
Ronald Markman
Randall Parker
Ronald O'Reilly
Robert Miller
Janice Kayahara
Robert Good
David Armstrong

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Joan Gormley

THE CECIL E. VESY SCHOLARSHIP
S Douglas Frasier

THE NATHAN AND ZARA VOLLEN MEDICAL SCHOLARSHIP
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Victor Rosen

THE JUSTIN DART PRIZE
James Kerns





UNIVERSITY OF CALIFORNIA
SANTA BARBARA COLLEGE

COMMENCEMENT
EXERCISES



FRIDAY, JUNE THE EIGHTH
NINETEEN HUNDRED AND FIFTY-SIX
TWO-THIRTY O'CLOCK
LIBRARY COURT

RECOMMENDATION FOR EMERITUS STATUS

Emanuel E. Ericson, Professor of Industrial Arts

Florence C. Meredith, Professor of Home Economics

J. Harold Williams, Professor of Education at University of California, Los Angeles, and Provost of Santa Barbara College from 1946 to 1955

COMMENCEMENT ADDRESS. President Robert Gordon Sproul

**THE UNIVERSITY HYMN—ST. ANNE. *Watts-Croft*
Byron Peebles, Class of 1956, Leader**

O God, our help in Ages past,
Our hope for years to come,
Our shelter from the stormy blast,
And our eternal home!

Before the hills in order stood,
Or earth received her frame,
From everlasting Thou art God,
To endless years the same.

**BENEDICTION. The Reverend Evan R. Williams, B.D., D.Phil.
Associate Rector, Trinity Church, Santa Barbara**

**RECESSIONAL—CORONATION MARCH *Meyerbeer*
John E. Gillespie, Organist
(*The audience is requested to remain standing during the Recessional.*)**

RECEPTION—Parents and friends are invited to join the faculty in honoring members of the graduating class at the entrance of the Science Building following the ceremony.

THE DEGREE OF BACHELOR OF ARTS

JANUARY, JUNE, AUGUST, 1956

- Aime, Diane Louise, H. E.
Alexander, Mary Frances Hansen,
Phys. Ed.
Ames, George Michael, History
Anslinger, Jeanette, Phys. Ed.
Arnold, Audrey Ann, Educ.
Arwood, Mary Susan, H. E.
Ashbrook, Vernon Lee, Speech
- Baciu, Eva Jacqueline, H. E.
Baird, Dwight Nelson, I. A.
Baldwin, Julia Marie, Educ.
Barnes, Donald William, Art
Barr, Loren Dale, Psych.
Batchelor, Gail Robert, I. A.
Beardslee, Robert William, Phys. Ed.
Beasley, Claude L., Educ.
Bell, James Sheldon, Educ.
Benton, Diane Janet, Educ.
Berger, William Henry, Phys. Ed.
Bernard, Kenneth Floyd, Phys. Ed.
Billups, Ruth Mae, Phys. Ed.
Bishop, Lemuel Davis, Pol. Sci.
Bloom, Elizabeth Ament, Educ.
Blythe, William Jack, Speech
Boufford, Richard Paul, Econ.
Bowen, Edward H., I. A.
Bracone, Romolo Emilio, Educ.
Braden, Emilia Ann, Educ.
Bradley, Merrit Krider,
Geology and Econ.
Bradsberry, Ruth Quist, Educ.
Bragg, Barbara Jean Rolfe, Music
Brailo, Linda Katherine, Educ.
Brandalise, Bob Bruno, Psych.
Browne, Donald Smith, I. A.
Bryson, Allen W., Art
Bunker, Joan Helene, Educ.
Burgitt, Robert Edson, Jr., Psych.
Buroker, Hector, I. A.
- Cain, Richard Wyatt, Art
Caldwell, Kathleen Victoria, Educ.
Cameron, Elmer Charles, Psych.
Cameron, James William, Hist.
Campbell, Faith Barbara, Educ.
Canada, Richard Allen, History
Carberry, Jean, Educ.
- Cardoza, Mary Helen, English
Carr, Robert Lawrence, Educ.
Cartwright, Kelley Lee, Pol. Sci.
Cavalli, Hombert Angelo, Music
Cazaly, Mary, Educ.
Chapman, Glenda Charlene, H. E.
Chapman, Norma Jean, Phys. Ed.
Chidwick, Thomas Lyle, Econ.
Christiansen, Paul E., Econ.
Christofferson, John Roger, Pol. Sci.
Christy, Geraldine Lee, Educ.
Cogan, Clarence B., I. A.
Coleman, Brooks Phillip, Jr., Music
Colignon, James Ringwood, Pol. Sci.
Collins, Wallace Keith, Educ.
Conway, Edward Hugh, I. A.
Coray, Diane Linda, Educ.
Cory, Calvin Walker, I. A.
Cossarek, Robert Edward, History
Cox, Bertha Mordhorst, Educ.
Croft, Anita Marilyn, Zoology
Croskrey, Leigh Ferguson, I. A.
Crother, Mary Joy, Educ.
Curtis, Patricia Lucille, H. E.
- Dabney, Samuel Russell, Jr., Geology
Davidson, Rena Galloway, Educ.
Davison, John Bonner, Divisional
Deutschman, Carolyn Lucetta,
Phys. Ed.
De La Rosa, John, Educ.
De La Torre, Joseph Raymond, I. A.
de Ponce, John Louis, III, Art
Diehl, Joseph Louis, I. A.
Donohoe, Annie Denny, Psych.
Douglass, Richard Hugo, Spanish
Downing, Peggy Loene, Educ.
Downing, Shirley Elizabeth, Educ.
Durrie, Thomas Edward, Music
- Eberling, Harriet Maloa, H. E.
Ellerman, Shirley A., Phys. Ed.
England, Margaret Joan, Art
Evans, Catherine Fullmer, Educ.
Everett, Richard George, Pol. Sci.
Eyre, Virginia Joanne, Educ.
Fagerbourg, Edith Belle, Educ.
Farstrup, Ruth Helen, Speech

Feith, Michael T., Zoology
Fink, Barbara Ann, Zoology
Fitzpatrick, Thomas H., Jr., Sociology
Fletcher, Richard Marion, History
Flood, James Tyrrell, Sociology
Foster, Barbara Ann, Educ.
Fraundorf, Robert Archibald, Biology
Furrey, Jerry Ben, Educ.

Gardes, Ann Marie, Educ.
Gardner, Fred "M," History
Gaston, Beverly June, Educ.
Gass, Elinor Cruze, Zoology
Geyer, Richard Eugene, Soc. Sci.
Gibson, Priscilla Gene, French
Giffin, Robert Manning, Psych.
Gilbert, Edress Ann, Phys. Ed.
Gillespie, Paul Douglas, I. A.
Glenn, Betty Ruth, Educ.
Goff, William Leland, II, Econ.
Golden, Kenneth T., I. A.
Goodell, Jerome Lyle, I. A.
Gordon, Barbara Jean, H. E.
Gough, Lawrence Woodward, I. A.
Graves, Elaine Marshall, Educ.
Greeley, Barbara Anne, Art
Greer, Theodora Porsius, French
Griffin, Martha Delaine, Educ.
Grim, John Norman, Zoology
Guiver, Joyce Donna, Math.
Gullattee, Alyce Vantoria Chenault,
Zoology

Hakimi, Mirza Foulad, Econ.
Halsey, Ruth Elaine, Phys. Ed.
Hamann, Joan Darlene, History
Hanawalt, Charles Keith, I. A.
Hand, David Hale, Speech
Hansen, Leland, Phys. Ed.
Harper, Beverly Deane, Educ.
Hawkins, Wilber Dale, Educ.
Hearon, Mary Southgate, Educ.
Heck, Donald Duane, I. A.
Heid, Leonard Thomas, Educ.
Helgren, Jean Louise, English
Henry, Carolyn Rae, Educ.
Hewitt, Jerre Lee, Jr., Spanish
Hicks, David James, Psych.
Hicks, Patricia Hawthorne, Educ.
Hicks, Steven Butler, Econ.
Higbee, Robert Wayns, Speech

Hill, Susan Marie, Educ.
Hoff, Rodger Lee, Speech
Hoffer, Eleanor F., Educ.
Holtel, Robert Leonard, Phys. Ed.
Hopkins, Martha Ann, Pol. Sci.
Horton, Claude George, Jr., Psych.
House, Catherine Cummings, H. E.
Howe, Phyllis Maxine Morris, Soc. Sci.
Huestis, Robert Charles, Soc. Sci.
Hughes, Edward Everett, I. A.
Humrighouse, Oliver Gerald, P. E.
Hunter, John Roe, Zoology
Hunter, Wandell D., I. A.

Ingelson, Carol Mae, Educ.
Iseman, Herbert Myer, Econ.

Jacks, William Rolland, Zoology
Jamiesson, Max, I. A.
Jones, Julia Mary, Art

Kaufman, Phyllis Arline, H. E.
Kauti, Alvar Lauri, Phys. Ed.
Kay, David, History
Kellar, Kenneth Morton, Physics
Kellogg, Joanne Marie, Phys. Ed.
Kellogg, Mary Ann, Educ.
Kelly, Alvin Alma, I. A.
Kent, Royle D., I. A.
Kieding, Richard Allan, Pol. Sci.
Kihm, Norma Elizabeth, Educ.
Kirk, Charles Elmer, I. A.
Kleinman, Louis Andrew, Pol. Sci.
Kluss, Lorna Louise, Psych.
Knaphurst, Theodora Edith, Educ.
Knighton, Juliana Lee, Educ.
Kray, Joan, Zoology

Lach, Francis Marianne, Educ.
Lambert, Edward Yorke, Jr., Physics
Landay, Ruth, Art
Leaburn, Keith Edward, I. A.
Leach, Rees Harrison, Econ.
Lease, Janet Rose, H. E.
Lesondak, William Vincent, I. A.
Leva, Russell Eugene, History
Lewin, Joseph E., Econ.
Liatas, Nikki Frances, Pol. Sci.
Limon, Mary Celia, Sociology
Lingrey, Joseph Leonard, I. A.
Linton, Marjorie Donaldson, Educ.

Livernash, Joseph Henry, Jr., I. A.
Locke, Anna Lee Mitchell, H. E.
Long, Robert Wayne, I. A.
Lunt, Harold William, Biology

Macaulay, Patricia Pumphrey, Educ.
Macaulay, Thomas R., Jr., Econ.
MacKenzie, George Douglas, History
Mallehan, Geneva Mae, Educ.
Marsh, Barbara Hatchett, H. E.
Martin, Donald Spencer, I. A.
Maxen, Clyde Henry, I. A.
Maxwell, Lois I., H. E.
Maxwell, Marvin Milton, I. A.
Melvin, Donald Le Roy, Soc. Sci.
Miars, Mary Joan, H. E.
Milburn, Joellen Kay, Educ.
Mills, Joanne Marilyn, Art
Mills, Judith Ann, Speech
Mills, Mac Bee, I. A.
Mitchell, Cecilia, Educ.
Moore, Marilyn A., Phys. Ed.
Moreno, Anita Claudia, Educ.
Morris, Roscoe Wayne, Phys. Ed.
Muhlethaler, Raymond Max, I. A.
Mulkey, Elizabeth Ann, Zoology
Munger, Ruth Krebs, Educ.
Munson, Winifred Eleanor, Phys. Ed.
Murchie, Gordon Wallace, Pol. Sci.
Murphy, Kendall T., Math.
McCarthy, Carolyn Joyce, Educ.
McCoy, Beverly Ann, Phys. Ed.
McFarland, Mariam Diane, Phys. Ed.
McGrew, Dennis L., Soc. Sci.
McLain, Richard Edward, Psych.
McNeal, George L., I. A.
McNeill, Marilyn Ann, Educ.

Nash, Alfred Edward, Art
Neveau, Nancy Sue, Divisional
Nicolson, Ruth Elizabeth, Educ.
Norris, Doris Carol, H. E.

O'Cain, Jack Virgil, Phys. Ed.
O'Hara, James D., Phys. Ed.
Oldham, Patricia Ann, Educ.
Oliver, Susan, Educ.
Olsen, Sander Niles, I. A.
Olson, Carolyn Grace, H. E.
Ordaz, Alfonso, Spanish
Orr, Mildred R., Art
Ortegón, Rachel, Educ.

Otsuka, Daiki Albert, Econ.
Otto, George Russell, Psych.
Overeem, Arthur Albert, I. A.
Overton, Sydney Derwent, Educ.

Pace, Eileen Shaw, H. E.
Padilla, Sal G., Pol. Sci.
Pedlar, Sandra Lee, Psych.
Peebles, Andrew Byron, Music
Perrett, Michael Francis, Econ.
Peterson, Lawrence Eugene, Art
Petterson, Donald Kay, Phys. Ed.
Phelan, Thomas Francis, Phys. Ed.
Pierce, Mary Leslie, Sociology
Pitcher, James Robertson, IV, Educ.
Poland, Sheila Ellen, Zoology
Poole, William Grady, I. A.
Pope, Claire, Phys. Ed.
Porter, Elvin Hill, I. A.
Preston, Thomas Elby, Econ.
Price, Patricia Ruth, Educ.
Pugsley, George Lane, Educ.
Purvis, Robert William, History
Pyle, Roger Charles, I. A.
Pyzak, Edward Anthony, I. A.

Rader, Carol Hoffman, Educ.
Ratzlaff, Vida Bernice, Art
Read, Carl Ervin, I. A.
Reason, Robert Lawrence, I. A.
Redwitz, Kurt, Spanish
Rice, Gayna Carolyn, Educ.
Richardson, Fay Iehu, Zoology
Rigoni, Herbert Christian, Psych.
Riordan, Kathleen Grace, Educ.
Ripley, James Arliss, I. A.
Roberts, James Paul, Educ.
Robinson, David James, Speech
Roellick, Joan Elaine, Educ.
Romasanta, Birgit Kristina Nyman,
Educ.
Romeo, Jordan James, History
Ruiz, Carl Phillip, Chemistry

Sage, Paul Franklin, Psych.
Saxe, Eleanor Burtis, Educ.
Schaefer, Annamarie Clair, Educ.
Schildmeyer, Marlene Ruth, Educ.
Sconce, Jerry Wayne, Phys. Ed.
Seapy, Donald E., Zoology
Searl, Virginia Ann, H. E.

Sheets, Robert Paul, I. A.
 Shellabarger, Violet Mae, Music
 Shillam, Pauline Brooks, Educ.
 Silva, Wilfred, I. A.
 Sisson, Jo Ann Mae, H. E.
 Smith, Byron Thad, Econ.
 Smith, Clark C., History
 Smith, Donald Eugene, Phys. Ed.
 Smith, June Elaine, Art
 Smith, Patricia Anne, Educ.
 Solis, Arnaldo, Zoology
 Solis, Nephtali Brito, Zoology
 Southworth, Albert Earl, Jr., Phys. Ed.
 Spittle, Frank Herbert, Educ.
 Sprengle, Sharon Margueritte, Educ.
 Springer, Donald Lee, Physics
 Spurney, John Keith, Music
 Stead, John H., I. A.
 Steen, John Edward, English
 Stelle, Norman Max, Phys. Ed.
 Stensland, Wilfred T., I. A.
 Stewart, Allen Dean, Econ.
 Still, Glenn Maurice, Jr., I. A.
 Stilwell, Fredrick Lyle, Phys. Ed.
 Stodart, Marilyn May, Educ.
 Stubbs, William Bledsoe, I. A.
 Surian, Elsie Maria, English
 Swalling, Wilfred, Econ.
 Swift, Marilyn, I. A.

 Tafel, Jean Frances, H. E.
 Tatum, Arlie Dean, Sociology
 Taylor, Donald Keith, Chemistry
 Taylor, Everett Blakely, Phys. Ed.
 Taylor, Fay Suzanne, Educ.
 Taylor, Lawrence Charles, Pol. Sci.
 Tempel, Johanne Dorothy, Educ.
 Terhune, Kenneth William, I. A.
 Terry, Agatha, Educ.
 Tisdale, Terry Lou, Educ.
 Tyler, Marcia Ann, H. E.

 Ullman, Sydney Lee, Botany
 Underwood, Barbara Ann, H. E.

 Van De Walker, Mary Lee, H. E.
 Van Laanen, Frank John, Econ.
 Vigus, Paul Lawrence, Geology
 Vigus, Vincent Albert, I. A.
 Vrtiak, Emil George, Jr., Art

 Wadsworth, Ann Elizabeth, Educ.
 Wager-Smith, Richard Edward, Econ.
 Wagner, William Jerome, I. A.
 Wallace, Merna Margaret, H. E.
 Wallen, Carl Joseph, Educ.
 Ward, Joy Louise, H. E.
 Ward, Kenneth John, Jr., I. A.
 Ward, Ronald George, Music
 Watson, Jay David, Jr., Zoology
 Watters, Anna Belle, Educ.
 Weaver, David Robert, Educ.
 Welch, Gladys Belle, Educ.
 Welder, Diane Elizabeth, Educ.
 Westfall, Arleen, Educ.
 Wheeler, Eleanor Cecil, H. E.
 Wiebe, Karl Herrmann, Phys. Ed.
 Wiesinger, Jacob J., Sociology
 Wiley, Edward Cook, Phys. Ed.
 Wilkins, David Franklin, Art
 Williams, Joan Loretta, Educ.
 Williams, Thomas C., Phys. Ed.
 Wilson, Judith A., H. E.
 Wolf, Donna Patricia, Pol. Sci.
 Wolfe, Jerome Clarence, Phil.
 Woodward, Patricia Dominis, Psych.
 Woodward, Richard Baker, Soc. Sci.
 Wright, Gene Merle, History
 Wyche, Winifred, Educ.

 Yamada, Charlotte Naomi, Zoology
 Yost, Jaclyn Arleen, Educ.
 Youel, Robert Curtis, History
 Young, Russell James, Phys. Ed.

THE DEGREE OF MASTER OF ARTS

JUNE AND AUGUST, 1956

Leach, Walter John, Jr., Psych.
 Pleszczynski, Andrew S., Pol. Sci.

Nammack, Georgiana Catherine,
 History

Highest Honors

JUNE AND AUGUST, 1956

Christy, Geraldine Lee, Educ.	Lease, Janet Rose, Home Econ.
Cogan, Clarence D., I. A.	McLain, Richard Edward, Psych.
Fletcher, Richard Marion, Hist.	Petterson, Donald Kay, Phys. Educ.
Surian, Elsie Maria, English	

Honors

JANUARY, JUNE, and AUGUST, 1956

Aime, Diane Louise, Home Econ.	Kent, Royle D., I. A.
Bradsberry, Ruth Quist, Educ.	Limon, Mary Celia, Soc.
Brandalise, Bob Bruno, Psych.	Locke, Anna Lee Mitchell, H. E.
Buroker, Hector, I. A.	Murphy, Kendall T., Math.
Caldwell, Kathleen Victoria, Educ.	Nash, Alfred Edward, Art
Cartwright, Kelley Lee, Pol. Sci.	Nicolson, Ruth Elizabeth, Educ.
Davison, John Bonner, Divisional	O'Cain, Jack Virgil, Phys. Ed.
Downing, Peggy Loene, Educ.	Pope, Claire, Phys. Ed.
Downing, Shirley Elizabeth, Educ.	Ruiz, Carl Phillip, Chem.
Ebeling, Harriet Maloa, Home Econ.	Saxe, Eleanor Burtis, Educ.
Fink, Barbara Ann, Zool.	Schildmeyer, Marlene Ruth, Educ.
Goff, William Leland, II, Econ.	Steen, John Edward, English
Guiver, Joyce Donna, Math.	Taylor, Everett Blakely, Phys. Ed.
Gullattee, Alyce V. C., Zool.	Underwood, Barbara Ann, H. E.
Hanawalt, Charles Keith, I. A.	Van De Walker, Mary Lee, H. E.
Harper, Beverly Deane, Educ.	Wallace, Merna Margaret, H. E.
Kellar, Kenneth Morton, Physics	Wolfe, Jerome Clarence, Phil.

UNIVERSITY OF CALIFORNIA

COMMENCEMENT

OFFICIAL PROGRAM



June 5, 1956

SUNKEN GARDEN
DAVIS

At this Commencement the University is honoring the following retiring staff and faculty members for distinguished and faithful service:

TRACY I. STORER, *Professor of Zoology*

WARREN P. TUFTS, *Professor of Pomology*

JOHN H. WOOLSEY, *Director, Student Health Service*

•

ACADEMIC DRESS IN THE UNITED STATES

Academic dress, so prominent in a commencement ceremony, is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. The cap, gown, and hood of modern usage descended from articles of dress worn by church dignitaries in the Middle Ages. Today, the cap and gown indicates that the wearer is a member of a university or college. The hood shows that he holds a degree.

The cap, of black serge or broadcloth, is worn for all degrees, but the doctorate is entitled to a gold tassel, and the cap of the doctor may be of velvet.

Gowns are predominantly black. The bachelor's gown is distinguished by long, pointed sleeves. The master's gown has closed sleeves, square at the end, the arm coming through a slit at the elbow. (At the University of California candidates for masters' degrees wear bachelors' gowns.) The doctor's gown has round, bell sleeves, and is faced down the front and barred on the sleeves with velvet, either black or of the degree color.

The predominating color of all hoods is black. Bachelor's and master's hoods are in the *Simple* shape while the doctor's hood is in the *Full* shape, the base of the hood in this latter shape being rounded. The lengths of the hoods are: bachelor, three feet; master, three and a half feet; doctor, four feet. Each hood possesses a silk, satin, or velvet border upon the outside, two to five inches wide, representing the faculty from which the wearer graduated, as follows:

Arts and Letters White	Veterinary Science Grey
Theology and Divinity Scarlet	Library Science Lemon
Law Purple	Pedagogy Light blue
Philosophy Blue	Commerce and Accountancy Drab
Science Gold-yellow	Engineering Orange
Fine Arts Brown	Physical Education Sage-green
Medicine Green	Humanics Crimson
Music Pink	Oratory Silver-grey
Pharmacy Olive	Public Health Salmon-pink
Dentistry Lilac	Agriculture Maize
Forestry Russet	Economics Copper

Each hood is lined with silk in colors representative of the university granting the degree. Some examples of colors used in the lining of hoods are as follows:

<i>University</i>	<i>Lining</i>	<i>Chevron</i>
California	Gold	Yale blue
Chicago	Maroon . . . . .	.....
Columbia University	Light blue	White
Cornell University	Carnelian	Two white
Harvard University	Crimson . . . . .	.....
Illinois	Navy blue	Two orange
Indiana University	Cream	Crimson
Michigan	Maize	Blue
Minnesota	Old gold	Maroon
Pennsylvania	Cardinal	Navy blue
Princeton University	Orange	Black
Stanford University	Cardinal . . . . .	.....
Washington	Purple over gold . . . . .	.....
Wisconsin	Cardinal . . . . .	.....
Yale University	Blue . . . . .	.....

P R O G R A M



ACADEMIC PROCESSION AND ENTRY OF CANDIDATES
"Festive March," by Charles Blackmore
ROSALIE BRANDT, Organist

NATIONAL ANTHEM

INVOCATION
THE REVEREND RAY DUGGER
Pastor, First Baptist Church of Davis

THE CLASS OF 1956 SPEAKS:
"The Track of Experience"
VELMA KATHLEEN TAIT
Candidate for the degree Bachelor of Science

"What's in an Education?"
EDWARD WILLIAM BERGTHOLDT
Candidate for the degree Bachelor of Science

AWARD OF COMMISSIONS IN THE UNIVERSITY CADETS
MAJOR GENERAL EARLE M. JONES
Adjutant General, State of California

AWARD OF COMMISSIONS IN THE UNITED STATES ARMY RESERVE
Chief, California Military District

MUSIC
"Suite for Brass," by Claudio Monteverdi
BRASS ENSEMBLE
Conductor: JEROME W. ROSEN, Assistant Professor of Music

FAREWELL REMARKS TO THE CANDIDATES
STANLEY B. FREEBORN
Provost of the Davis Campus

CONFERRING OF TWO-YEAR CERTIFICATES AND UNDERGRADUATE DEGREES
ROBERT G. SPROUL
President of the University

P R O G R A M



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!

CONFERRING OF GRADUATE DEGREES

The President of the University

DELIVERY OF SCROLLS

The President of the University

ADDRESS TO THE GRADUATES

The President of the University

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

THE REVEREND RAY DUGGER

MARSHAL: PROFESSOR WARREN P. TUFTS

UNIVERSITY OF CALIFORNIA
DAVIS CAMPUS

CERTIFICATES, DEGREES,
AND HONORS



July 30, 1955

CERTIFICATES AWARDED

COLLEGE OF AGRICULTURE

TWO-YEAR CURRICULUM IN AGRICULTURE

Certificate of Completion to

John True ClareNorth Sacramento

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Walter Howard Vincent.....Plant ScienceDel Rey

COLLEGE OF LETTERS AND SCIENCE

The Degree of Bachelor of Arts upon

Martha Marie Nold.....MicrobiologyPasadena

GRADUATE DIVISION

DEGREES CONFERRED

†The Degree of Master of Science upon

George Jay Kelly.....ChemistryOakland
B.S. 1951.

Thesis: Preparation and properties of aromatic diethylaminoacetonitriles.

*The Degree of Doctor of Veterinary Medicine (School of Veterinary
Medicine) upon*

Denny George Constantine.....Los Angeles
Louis Peabody Mack.....San Diego

The Degree of Doctor of Philosophy upon

Terence Arthur Rogers.....Nutrition. Courtenay, British Columbia, Canada
B.S.A. University of British Columbia 1952.

Thesis: The biosynthesis of milk-fat in the intact dairy cow.

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination.

HONORS WITH DEGREES
HONORS WITH THE BACHELOR'S DEGREE
IN THE COLLEGE OF LETTERS AND SCIENCE

MICROBIOLOGY
Martha Marie Nold



September 10, 1955

DEGREES CONFERRED
COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Ulysses Grant Border.....Plant ScienceBakersfield
John Sidney Gilruth.....Animal ScienceSan Jacinto
Victor Cottone Heyl.....Irrigation ScienceSan Diego
Dagmar Hnilica.....Food ScienceBerkeley
Robert Ernest Mitchell, II.....Agricultural EconomicsOakland
Don Alan Toenjes.....Animal ScienceMontgomery Creek

GRADUATE DIVISION
DEGREES CONFERRED

†The Degree of Master of Education (School of Education) upon

Ali Tabet Agha.....Damascus, Syria
B.S. 1954.
Jerry Jack Halterman.....Davis
B.S. 1950.
Raymond Whitfield Isle.....Santa Rosa
B.S. Kansas State College of Agriculture and Applied Science 1938.
John Daniel Lawson.....San Luis Obispo
B.S. 1938.
Frank Edwin Spafford.....Glendale
B.S. 1958.
Norvin Reid Spence.....Sacramento
B.S. Oregon State College 1948.
Merle Alfred Webb.....Chico
B.S. Kansas State College of Agriculture and Applied Science 1937.

†The Degree of Master of Science upon

Oscar BrauerVegetable Crops
Mexico, Distrito Federal, Mexico
Engineer, National School of Agriculture, Chapingo, Mexico, 1952.
Flavio Augusto d'Araujo Couto....Vegetable CropsVicosa, Brazil
Engineer, Rural University of Minas Gerais, Vicosa, Brazil, 1944.

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination.

‡ A comprehensive final examination in the major subject is required in lieu of a thesis.

- John Lewis Hales.....HorticultureCarpinteria
 B.S. University of California, Los Angeles, 1952.
- George Neal Hill.....Animal HusbandryAshton, Idaho
 B.S. University of Idaho 1951.
- Sidney IvkerHorticulturePhiladelphia, Pennsylvania
 B.S. Oklahoma Agricultural and Mechanical College 1941.
- Toshio KawatomariFood Science..Paia, Maui, Territory of Hawaii
 B.S. 1954.
Thesis: Species of *Clostridium* associated with zapatera spoilage of olives.
- Yolk Ti Lew.....Food ScienceWest Los Angeles
 B.S. 1954.
Thesis: Inhibition of hematin-catalyzed unsaturated fat oxidation.
- John Joseph North.....IrrigationNottinghamshire, England
 B.S. University of Reading, England, 1951.
- Pavin PunsriHorticultureBangkok, Thailand
 B.S. 1954.
Thesis: Comparative growth of the endosperm and the embryo in unsprayed and
 2,4,5-trichlorophenoxyacetic acid sprayed Royal and Tilton apricots.
- Yoash VaadiaIrrigationHadera, Israel
 B.S. 1954.
Thesis: Hydraulic study of perforated well casings and gravel envelopes.
- Ernest Lloyd Watson.....Agricultural Engineering
 Mission City, British Columbia, Canada
 B.A.S. University of British Columbia 1940.
Thesis: Certain flow characteristics in a plate heat exchanger.
- Lukas Franz Werenfels.....HorticultureArlesheim, Switzerland
 Engineer, Swiss Federal Institute of Technology, Switzerland, 1952.

†The Degree of Master of Arts upon

- Albert Duane Graham.....BotanyMonterey
 A.B. 1954.

The Degree of Doctor of Philosophy upon

- August Sigurdur Johnson.....GeneticsOttawa, Ontario, Canada
 B.S.A. 1943 and M.S. 1946 University of Manitoba.
Thesis: Heritability and interrelationships of total, muscle, and bone size in the
 domestic turkey.
- Gordon Keith Macleod.....NutritionAlexandria, Ontario, Canada
 B.S.A. Ontario Agricultural College, Canada, 1950; M.S. Colorado Agricultural
 and Mechanical College 1952.
Thesis: Acetate metabolism in ketosis of dairy cattle.
- Livio Giovanni Raggi.....Comparative Pathology.....Teramo, Italy
 D.V.M. University of Perugia, Italy, 1944.
Thesis: Study of the characteristics of the virus causing infectious bronchitis in
 chickens.



January 26, 1956

CERTIFICATES AWARDED

COLLEGE OF AGRICULTURE

TWO-YEAR CURRICULUM IN AGRICULTURE

Certificate of Completion to

- David Burgess Burbank, Jr.Fallon
 Donald Charles CampbellBerkeley
 Luis Garcia de AcevedoAlameda

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination.

Albert Ompad Erojo	Stockton
Kenneth Frederick Farnsworth, II	Ukiah
Everett Stillman Flagg	Oakland
Michael Jackson Merkley	Dixon
Rodolfo Ralda	Retalhulea, Guatemala
Kenneth Warren Stone	Alhambra
Darroid Lee Swanson	Clio
Robert Eugene Vandergriff	Sacramento
Seiichi Jimmy Watanabe	French Camp
Frank William Yates	San Francisco

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Donald Harold Adams	Animal Science	Compton
Harold John Bloomfield	Agricultural Economics	Antioch
Donald Loyal Brittsan	Agricultural Education	Stockton
Robert Nelson Brooks	General Agriculture	Altadena
Eleanor Hake Derr	Home Economics	Oroville
Donald Ralph Fox	Irrigation Science	Windsor
Donald Hoyt Hall	Plant Science	Los Angeles
Gwendolyn Lee Harper	Home Economics	San Carlos
Richard Thomas Heringer	Plant Science	Clarksburg
Michael Darby Hill	Animal Science	San Francisco
Robert Orson Hoggan	Animal Science	Temple City
Scott Ford Jackson	Food Science	Sacramento
Thomas Michael Kretchun	Plant Science	Parma, Ohio
Edward Allwyn Kurtz	Entomology and Parasitology	Sacramento
Frank Robert McDonald	Plant Science	Livingston
John Francis Meadows	Food Science	Carmel
Bassam Saad Nimry	Irrigation Science	Amman, Jordan
Edmond Douglas Pattimore	Plant Science	Alameda
David Elmer Ramos	Animal Science	Modesto
Charles George Rhodes, Jr.	Agricultural Economics	Davis
Walter Wade Rose	Food Science	Oakland
William Gordon Seargeant	Agricultural Education	Van Nuys
Gilbert Morris Segelman	Plant Science	Los Angeles
Richard Ellis Tanner	Plant Science	Alhambra
Stanley Turovits	Food Science	Los Angeles
William Edward Whaley, Jr.	Animal Science	San Francisco
Margaret Alison Young	Home Economics	Quincy
Henry Yokoyama	Food Science	Parlier

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Ann Farley	Hayfork
Clifford Ronald Lauer	Concord

The Degree of Bachelor of Arts upon

Margery Gibbons Allen	American Civilization	San Francisco
Richard Alan Bastear	Political Science	San Gabriel
James Joseph Brown, Jr.	Political Science	Sacramento
Jane Chisholm	History	Pasadena
Richard August Huberty	American Civilization	Los Angeles
Harry Matzen	History	Utrecht, Holland
James Potter Phillips	American Civilization	Davis
Emma Gene Reed	English	Visalia
Robert Tyra Streutker	Microbiology	Sepulveda

GRADUATE DIVISION

DEGREES CONFERRED

†The Degree of Master of Education (School of Education) upon

Edward Ashley Libra, Jr. Jackson, Minnesota
B.S. University of Wisconsin, 1954.

†The Degree of Master of Science upon

Franz Abt Comparative Pathology Los Angeles
Veterinarian, University of Zagreb, Zagreb, Yugoslavia, 1938.

Donald Lane Bath Animal Husbandry Santa Rosa
B.S. 1954.

Richard Sabin Bethell Horticulture Penryn
A.B. University of California, Santa Barbara College, 1949.

André Georges Jules Boidin Animal Husbandry La Madeleine, France
D.V.M. National Veterinary School of Alfort, Alfort, France, 1953.

John Jay Bost Chemistry Stonyford
B.S. University of California, Los Angeles, 1954.
Thesis: Structural effects in the chromatographic adsorption of aromatic 3,5-dinitrobenzoates.

Albert Conroy Food Science Davis
B.S. 1953.
Thesis: The freeze-drying and subsequent storage of animal products.

Ramiro Carvalho Dutra Food Science San Leandro
B.S. 1954.

Rudolf Rafael Frankel Vegetable Crops Pardess-Hanna, Israel
B.S. 1955.

Hiram Grove-Valenzuela Agronomy Santiago, Chile
Engineer, University of Chile 1944.

James Hall Hampton Vegetable Crops Concord
B.S. University of Illinois 1942.

Vassilios George Papakyriakopoulos. Food Science Athens, Greece
Grad. Higher School of Agriculture, Athens, Greece, 1950.
Thesis: Some relationships of quality and composition in port and California cabernet wines.

Ross Rollen Sanborn Horticulture Oroville
B.S. 1944.

Duke Charles Wiley Animal Husbandry Davis
B.S. 1953.

James Adrian Wilkerson Agronomy Lynwood
B.S. Iowa State College of Agriculture and Mechanic Arts 1942.

†The Degree of Master of Arts upon

Ivan Mills Lytle Zoology Davis
B.S. University of Tulsa 1949.
Thesis: Analyses for androgens in the avian testis.

The Degree of Doctor of Philosophy upon

Edwin Nessim Frankel Agricultural Chemistry. East Lansing, Michigan
B.S. Michigan State College 1950; M.S. 1952.
Thesis: The specificity of lipase action in milk.

Eugene Albert Hockett Genetics Havre, Montana
B.S. Montana State College 1952.
Thesis: The inheritance of branching in sunflowers, *Helianthus annus* L.

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

‡ A comprehensive final examination in the major subject is required in lieu of a thesis.

- John Ernest Nellor Comparative Physiology Arcadia
 B.S. 1950.
Thesis: Hormonal control of estrus in the beef heifer.
- Allan Douglass Telford Entomology San Francisco
 B.S. 1950.
Thesis: Bionomics of the central and northern California pasture mosquitoes of the genus *Aedes* (Diptera, Culicidae).
- Shirley Cotter Tucker Botany St. Paul, Minnesota
 A.B. 1949 and M.S. 1951 University of Minnesota.
Thesis: Ontogeny of the inflorescence and the flower in *Drimys Winteri* var. *chilensis*.
- Daniel Wiersma Soil Science Volga, South Dakota
 B.S. South Dakota State College of Agriculture and Mechanic Arts 1942;
 M.S. University of Wyoming 1952.
Thesis: Soil moisture conditions and sugar accumulation in the sugar beet.

HONORS

HONORS WITH THE CERTIFICATE OF COMPLETION IN THE TWO-YEAR CURRICULUM IN AGRICULTURE

Nancy Lee Meister

HONORS WITH DEGREES

HONORS WITH THE BACHELOR'S DEGREE

IN THE COLLEGE OF AGRICULTURE

IRRIGATION SCIENCE

Highest Honors

Donald Ralph Fox

PLANT SCIENCE

Gilbert Morris Segelman

Highest Honors

Donald Hoyt Hall

IN THE COLLEGE OF LETTERS AND SCIENCE

AMERICAN CIVILIZATION

Highest Honors

James Potter Phillips

HONORS IN MILITARY SCIENCE

Donald Loyal Brittsan

MILITARY COMMISSIONS

UNIVERSITY CADETS

Donald Loyal Brittsan

Richard Thomas Heringer

Scott Ford Jackson

Richard Ellis Tanner

Harold Tip Yee

UNITED STATES ARMY RESERVE CORPS

Donald Loyal Brittsan

Richard Thomas Heringer

Scott Ford Jackson

Richard Ellis Tanner

June 5, 1956

CERTIFICATES AWARDED

COLLEGE OF AGRICULTURE

TWO-YEAR CURRICULUM IN AGRICULTURE

Certificate of Completion to

Robert John Avila.....	Niles
Jack Leonard Ball.....	San Jose
Grant Sidney Bernstein.....	San Francisco
Philip Clay Borden.....	Palm Springs
Robert Eugene Dempel.....	Ukiah
Darrell J Dettling.....	Sacramento
Richard Steve Dettling.....	Woodland
James Elias Draper, Jr.....	Richmond
Carol Ann Edwards.....	Woodside
Alejandro Elias-Salazar.....	Mexicali, Baja California, Mexico
Elwin Joseph Faria.....	Pittsburg
Paul Joseph Gilivary.....	Stockton
Richard Edward Gleason.....	Bodega
Wilson Bassett Goddard.....	Mill Valley
Grantland William Gray.....	Winters
Glenn Herbert Herzig.....	Lotus
Craig James.....	Rio Vista
William Heathcote Jones, Jr.....	Dixon
Francis John Lastufka.....	North Sacramento
John Anthony Lewis.....	Sacramento
Alvaro Martinez.....	Bogota, Colombia
Nancy Lee Meister.....	Sacramento
Robert Armen Melkesian.....	San Marino
Carson Patrick Merkley.....	Dixon
James Ludington Patton.....	Corning
Richard Fredrick Stallman.....	Loomis
George Robert Stegemann.....	Martinez
John Lawrence Stoner, Jr.....	Julian
Howard Keith Stucky.....	Oakland
Mitsuya Michi Takechi.....	Stockton
Douglas Kermit Tarke.....	Live Oak
Walter Hill Titcomb.....	Concord
Richard Wellman Topham.....	San Francisco
Bernard Virgil Vannucci.....	San Francisco

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

The Degree of Bachelor of Science upon

Robert Edward Abbott, Jr.....	Plant Science	Bakersfield
John Algots.....	General Agriculture	Covina
Allen Lloyd Alperin.....	Animal Science	Venice
Donald Lathrop Appleton.....	General Agriculture	San Gabriel
Robert Anthony Azevedo.....	Animal Science	Vallejo
Shirley Mae Azevedo.....	Home Economics	Sheridan
William Howard Bear.....	Plant Science	Santa Ana
Edward William Bergtholdt.....	Plant Science	Live Oak
Norman Eugene Blomberg.....	Soil Science	Sacramento

Alexander Bruderer	General Agriculture	Chuvá, Guatemala
Graham Francis Burgess	Animal Science	Arcata
Quincy Tufts Cass	Animal Science	Corona Del Mar
William James Clawson	Animal Science	Livermore
Chester Paul Comfort	Animal Science	Colusa
Thomas Michael Condon	Plant Science	Albany
Sarah Ann Curtis	Home Economics	Bakersfield
Donald Lee Dahlsten	Entomology and Parasitology	Los Angeles
Jackie Duane Damron	Agricultural Economics	McFarland
Robert Claude Dixon	Plant Science	Santa Clara
Parker Voorhees Foster, Jr.	Agricultural Economics	Los Angeles
George Dewey Frederick, Jr.	Agricultural Economics	Carmichael
Herbert Frederick Furrer	Animal Science	Briceland
David Alexander Garden	Animal Science	St. Helena
William Allen Garman	Animal Science	Chatsworth
Sharon Lee Gillmann	Home Economics	San Gabriel
Elton Vearl Gish	Agricultural Education	Modesto
Paul Firmin Goetinck	Animal Science	Van Nuys
Marlene Gunn	Home Economics	Montrose
Lynn LaRee Hamberger	Home Economics	Long Beach
Walter Samuel Hart, Jr.	Agricultural Economics	Los Angeles
Robert Pollock Hartzell	Plant Science	San Rafael
Allen Forrest Hawley	Animal Science	El Cajon
Douglas Kent Heisinger	Agricultural Education	Fresno
Janet Kathleen Helzer	Home Economics	Fresno
Moshe Hoffman	Plant Science	Oakland
Jacqueline Gail Hooper	Home Economics	Downey
George Nollner Hoover	Animal Science	Burbank
Charles William Howe	Food Science	Campbell
David Llewellyn Hughes	Plant Science	Sacramento
Stanley Lloyd Hunewill	Animal Science	Wellington, Nevada
Jon Robert Jessen	Entomology and Parasitology	Dos Palos
Kenneth Erhart Jessen	Animal Science	Woodland
MaryLou Louise Jones	Home Economics	Red Bluff
Lucy Van Vleck Justice	Home Economics	Mill Valley
Dia Eldine Kabbani	Plant Science	Damascus, Syria
Zeev Katheir	Irrigation Science	Haifa, Israel
Donald Nelson Lamoureux	Range Management	Whittier
Frederick James Lourence	Irrigation Science	Red Bluff
Beverly Diane Lundholm	Home Economics	San Leandro
Floyd Myers Marsh	General Agriculture	Williams
Ezer James Kahokuonaleiali		
Mathews	Animal Science	Paauiio, Hawaii
Robert Louis Maulhardt, Jr.	Plant Science	Oxnard
Nancy Ruth McBride	Home Economics	Antelope
Joseph John McCann	Animal Science	Davis
Carol Lynne McDonald	Home Economics	Monterey
Alexander Bonnyman McKeon	Animal Science	Knoxville, Tennessee
Patricia Ann McWilliam	Home Economics	Woodland
Adele Louise Meda	Home Economics	Sacramento
Carmel Elizabeth Moore	Animal Science	Stonyford
Arthur John Mueller	Entomology and Parasitology	Long Beach
Tadashi Nakashima	Plant Science	Oxnard
Jon Owen Nordstrom	Animal Science	Kingsburg
Lloyd Alton Pemberton, Jr.	Animal Science	Sacramento
Thomas McKean Remington	Animal Science	Sacramento
Suzanne Louise Rickter	Home Economics	Davis
Yasir Shahir Samman	Plant Science	Damascus, Syria
Thomas Howard Sawyer	Animal Science	Waterford
Donald Roger Schmitt	Agricultural Economics	Visalia
Robert Alan Schweissinger	Plant Science	Los Angeles
Bartolome Truett Sepulveda	Agricultural Economics	San Jose
Maxine Sherman	Home Economics	Santa Cruz

Kenneth Albert Silacci.....	General Agriculture	Salinas
Marianne Teresa Silva.....	Home Economics	San Lorenzo
Alfred Lawrence Soares, Jr.	Animal Science	San Jose
Rose Mary Stennfeld.....	Home Economics	Sacramento
Margaret Jean Stevenson.....	Home Economics	Colusa
Erwin Albert Swanson.....	Animal Science	Santa Cruz
Michael Arthur Sweyd.....	Food Science	San Mateo
Velma Kathleen Tait.....	Home Economics	Tulare
Herbert Rollin Taylor, Jr.	Animal Science	Los Angeles
Donald Patrick Thrift.....	Agricultural Education	Healdsburg
Ubaldo Tonella	Food Science	Mountain View
Roy Thomas Vanoni.....	Plant Science	Tracy
Barbara Allen Veerkamp.....	Home Economics	Oakdale
Narcissa Marie Veerkamp.....	Home Economics	Placerville
Jack Eugene Waegell.....	Plant Science	Elk Grove
Susan Joyce Wagener.....	Plant Science	Palo Alto
William Reiling Walker.....	Entomology and Parasitology	South Gate
Richard Wood	Agricultural Economics	Castro Valley
Robert Gerald Woolf.....	Animal Science	San Francisco
Charles Mayo Wright.....	Animal Science	Culver City
Deronda Adam Young, Jr.....	Plant Science	El Segundo
Howard Zalkin	Food Science	Los Angeles

COLLEGE OF LETTERS AND SCIENCE

The Degree of Associate in Arts upon

Sandra Marshall Abernathy.....	Desert Hot Springs
Vigfus Anthony Asmundson.....	Davis
Marjory Helen Bruce.....	Palo Alto
Sally Jane Calkins.....	Berkeley
Sylvia Anne DeVincenzi.....	San Rafael
Jacqueline Ann Doeckel.....	San Leandro
Marilyn Lee Goodwin.....	Berkeley
Mary Eloise Haworth.....	Woodland
Alice Turner Huberty	Los Angeles
Diane Cooley Kessler.....	San Diego
Donna Marie LeStum.....	Palo Alto
Glenda Coleen Odale.....	Vallejo
Gail Parrish	Poway
Viella Maria Sidre.....	San Francisco
Carol Lee Stith.....	Vacaville
Elizabeth Ruth Sumner.....	Palo Alto
Madeline Trainor.....	Davis
Jill Tregoning	Sacramento
Norman William Vertress.....	Castro Valley
Jere Dueffort Wade.....	San Bernardino
Alauhua Starlita Bethea West.....	Solromar

The Degree of Bachelor of Arts upon

George Antonopoulos	Zoology	Pidassos, Greece
Arthur Darrol Bond.....	Chemistry	Lincoln
Jean Marie Brandenberger.....	Sociology and Economics	Paradise
Constance Wollam Campbell.....	Spanish	Walnut Creek
Earl Howard Coker, Jr.....	Chemistry	Cottonwood
James Edward Court.....	Physical Science	Auburn
Bonnie Lucile Davis.....	History	Dunnigan
Malcolm Hardy Dudley.....	Economics	Sacramento
Nancy Carol Elliott.....	American Civilization	Oakland
Miriam Frankel-Rubin.....	Social Institutions	Pardess-Hanna, Israel
Gretchen Ann Geller.....	Mathematics	San Anselmo
Roland Andrew Giolli.....	Zoology	Carmichael

Donna Lee Greiner.....	History	Richmond
Robert Richard Grosse.....	Zoology	Santa Monica
Gene von Glahn Harding.....	American Civilization	Escalon
Sally Anne Hiatt.....	Dramatic Art and English	Cupertino
Esther Cooper Kanning.....	History	Woodland
John Graham Keliher.....	History, Political Science, and Military Science	Sacramento
Ronald Freeburg Lewis.....	Microbiology	San Anselmo
Jacqueline Wedel Martineau.....	Zoology	Fairfax
Elizabeth Jean Nelson.....	Zoology	Crockett
Judith Ann Sherer.....	History	Arbuckle
Elizabeth Ann Snyder.....	Sociology	Davis
Sheldon Sarol Stein.....	Zoology	Los Angeles
Duane Everett Townsend.....	Medical Sciences.....	Taft
Mary Beverley Whitaker.....	English	La Jolla
Harry Walter Zuehlsdorff.....	Economics	San Rafael

SCHOOL OF VETERINARY MEDICINE

The Degree of Bachelor of Science upon

Eugene Arnold Adkins.....	Fullerton
Robert Pierce Banbury.....	Temple City
Charles Hillery Barnes.....	Salinas
Jeri Ann Berg.....	Salinas
Carlo Peter Besio.....	Menlo Park
Ernest William Bizzini.....	Gustine
John Edward Brandt.....	Hollister
Ralph Leonard Cheney.....	Vista
Ronald James Coggan.....	Oroville
Kenneth Waldron Conklin	La Verne
Kumen Cooper Ellsworth.....	Chino
Martin Norman Fineman.....	Los Angeles
Richard Thurlow Flanders.....	Rio Linda
Robert Leonard Freeman, Jr.....	Corona
Leslie S Greenbaum.....	Los Angeles
Frederick Arfst Groverman.....	Petaluma
William Thornton Hubbert.....	Alpine
Larry Charles Kidwell	South San Francisco
James Martin Larkin	Compton
LeRoy Leslie LeBeuf.....	Lucerne Valley
Wesley Alfred Marsden	Martinez
Richard Amsden Mason.....	Alameda
Richard Hardy McCapes.....	San Luis Obispo
Clarence Joseph Mersch.....	Puente
Frederick William Miller.....	Castro Valley
Gerald Ralph Mitchell.....	Tulare
Gary Elbert Montgomery.....	Hanford
Kenneth Myles Moody.....	Redding
Harvey Johan Olander	Vacaville
Samuel John Rogers.....	Bard
Victor Michael Shille.....	Santa Ana
Robert Henry Smith.....	Long Beach
Leo Paul Stringfellow.....	Pomona
Richard Loken Wallis.....	Inglewood

GRADUATE DIVISION

DEGREES CONFERRED

†The Degree of Master of Education (School of Education) upon

Ray Sedgwick Austin.....	Fresno
B.S. 1949.	
James L Libby.....	Hollister
B.S. 1950.	
William Roy Seaver.....	Mt. Eden
B.S. 1953.	

†The Degree of Master of Engineering upon

George Henry Abernathy.....	Agricultural Engineering....	Mills, New Mexico
B.S. New Mexico College of Agriculture and Mechanic Arts		1952.
William Robert De Tar.....	Agricultural Engineering	Suisun
B.S. 1955.		

†The Degree of Master of Science upon

Gary Lyon Frame.....	Animal Husbandry	Porterville
B.S. 1955.		
Adrian George Gentile.....	Entomology	Sacramento
Grad. University of Naples		1950.
<i>Thesis:</i> The biology of San Jose scale with special reference to behavior in males and juveniles.		
Betsy Flo Hall.....	Plant Pathology	Modesto
B.S. 1954.		
Kenneth James Hood.....	Vegetable Crops	San Jose
B.S. Colorado Agricultural and Mechanical College		1950.
Hamid Mohammed Hussin.....	Horticulture	Bagdad, Iraq
B.S. Farouk I University, Alexandria, Egypt,		1952.
<i>Thesis:</i> Some effects of ethylene and 2,4-dichlorophenoxyacetic acid on the ripening of Bartlett pears.		
Kenneth Alan Kimble.....	Plant Pathology	Davis
B.S. 1953.		
Frederick Whiton Knapp.....	Food Science	Orland
B.S. 1935.		
<i>Thesis:</i> Some physical and chemical changes in gamma radiated meats.		
Farouk Anwer Kotob.....	Horticulture	Damascus, Syria
B.S. 1955.		
<i>Thesis:</i> Growth of flower buds of apricot, peach, and pear during the rest period and the response to rest-breaking treatments.		
Eugene Frederick McClain.....	Agronomy	Salmon, Idaho
B.S. University of Idaho		1954.
Hawkins Ng.....	Chemistry	Oakland
B.S. 1953.		
<i>Thesis:</i> Preparation and chromatographic separation of 2,4-dinitrophenylhydrazones of p-phenylphenacyl esters.		
Harold Lee Postlmayr.....	Food Science	Los Angeles
B.S. 1955.		
<i>Thesis:</i> Characterization of pectin changes in clingstone and freestone peaches during maturation and processing.		
Donald Frederick Rahlmann.....	Animal Husbandry	Davis
B.S. 1955.		

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

‡ A comprehensive final examination in the major subject is required in lieu of a thesis.

- William Francis Rooney.....Poultry ScienceVisalia
 B.S. Cornell University 1943.
Thesis: The effect of body weight in broad-breasted bronze turkeys upon fertility and hatchability.
- Bertram S Silver, Jr.Animal HusbandryNew York, New York
 B.S. University of Arizona 1954.
- Robert Kazuo Washino.....EntomologySacramento
 B.S. 1954.
Thesis: The taxonomy and biology of *Oulex stigmatosoma* dyar (Diptera, Culicidae).
- Jacques Zagha.....Comparative PathologyHollywood
 D.V.M. 1944 and Grad. 1945 University of Paris.
Thesis: Etiology and hematology of bovine anaplasmosis.

†*The Degree of Master of Arts upon*

- Joyce Arlyn Berger.....MicrobiologyForest Hills, New York
 B.S. Queens College 1951.
Thesis: The alanine racemase of spores of *Bacillus cereus*.

The Degree of Doctor of Veterinary Medicine (School of Veterinary Medicine) upon

- Robert Dale Angus.....Davis
 B.S. 1954.
- Gerald Eugene Asher.....Igo
 B.S. 1952.
- Lawrence Gerold Atkinson.....Arcadia
 B.S. 1954.
- John Howard Bowles.....Santa Maria
 B.S. 1952.
- Russell Rohan Burton.....Porterville
 B.S. 1954.
- Robert Benzie Bushnell.....Davis
 B.S. 1954.
- Jackie Lee Callison.....Three Rivers
 B.S. 1954.
- Leland Eugene Carmichael.....Arcadia
 A.B. 1952.
- John Randolph Chandler.....Winters
 B.S. 1949.
- George Edward Clinton.....Davis
 B.S. 1954.
- Robert Joseph Connolly.....Davis
 B.S. 1954.
- Douglas Roy Cordray.....Santa Rosa
 A.B. 1952. B.S. 1954.
- Leslie Robert Douglas.....Eureka
 A.B. Humboldt State College 1951.
- Henry Glenn Evers.....Chico
 B.S. 1954.
- Norman Fohrman.....Los Angeles
 B.S. 1954.
- Samuel Chambers Fulton.....Davis
 B.S. 1954.
- Werner Paul Heuschele.....Chula Vista
 A.B. 1952.
- Harold Edward Hill.....Davis
 B.S. 1954.
- Robert Walter Humburg.....Los Gatos
 B.S. 1954.

† A candidate may qualify for the degree on the basis of a thesis or a comprehensive final examination in the major subject.

Andrew William Irwin, Jr.....San Rafael
 B.S. 1940.
 Burton Janis.....Oakland
 B.S. 1954.
 Chauncey James Edward Johnson.....Davis
 B.S. 1954.
 Dale Clifton Johnson.....Davis
 B.S. 1952.
 Jiro Jerry Kaneko.....Stockton
 A.B. 1952.
 Hiram Kitchen.....Mountain View
 B.S. 1954.
 LeRoy Henry Krum.....Fresno
 B.S. 1954.
 Keith Brace Lansing.....Arcata
 A.B. 1949.
 Louis Noah Locke.....Lockeford
 A.B. 1950.
 Raymond Frank Lucas.....Woodland
 B.S. 1954.
 William Richard Manclark.....Altadena
 B.S. 1954.
 Charles Stevenson Martineau.....Davis
 B.S. 1954.
 Larry Zane McFarland.....Davis
 B.S. 1954.
 Robert Keith Morrison.....Calabasas
 B.S. 1954.
 Curtis DeWitt Port.....Oakland
 B.S. 1954.
 Delbert Glenn Reck.....San Diego
 A.B. Ohio State University 1940.
 Pinchas Rippin.....Tel-Aviv, Israel
 B.S. 1953.
 Paul Norman Riste.....Los Angeles
 B.S. 1952.
 Charles Terrell Robinson.....Davis
 B.S. 1951.
 James LeRoy Russell.....Davis
 B.S. 1954.
 Gerald Allen Sanford.....Taft
 B.S. 1954.
 Daniel Felix Smith.....Ontario
 B.S. 1951.
 Patton Lowell Smith.....Covina
 B.S. 1954.
 John Edward Spoon.....San Jose
 A.B. San Jose State College 1952.
 Burton S Sternau.....Los Angeles
 B.S. 1951.
 Edward Earl Stuart.....Davis
 B.S. 1954.
 Harry Scott Thompson, Jr.....Davis
 B.S. 1954.
 Lowell Curtis Walker.....Eureka
 B.S. 1954.
 Joseph William Wayne.....Davis
 B.S. 1954.
 Raymond Alfred Weitkamp.....Davis
 B.S. 1954.
 Richard Anton Willis.....Barstow
 B.S. 1954.
 James William Withycombe.....West Sacramento
 B.S. Oregon State College 1944.

The Degree of Doctor of Philosophy upon

- Berl Amos Koch.....Nutrition Waterloo, Illinois
B.S. Iowa State College of Agriculture and Mechanic Arts 1949; M. S. Cornell
University 1951.
Thesis: Effects of storage upon the B-complex vitamins and proteins of barley
grain as measured by biological methods.
- David Adrian Lewis.....Plant Physiology
Coogee, New South Wales, Australia
B.Sc.Agr. (Hons.) University of Sydney 1951; M.S. 1954.
Thesis: Physiological studies of tomato fruits injured by holding at chilling tem-
peratures.
- Jack Roger Luick.....Nutrition.....Tonawanda, New York
B.S. 1950.
Thesis: Some biokinetic aspects of calcium metabolism in dairy cows.
- Charles J Mode.....GeneticsSteele, North Dakota
B.S. North Dakota Agricultural College 1952; M.S. Kansas State College of Ag-
riculture and Applied Science 1953.
Thesis: The inheritance of net blotch, *Pyrenophora teres*, reaction in certain bar-
ley crosses, and the population dynamics of plant host-pathogen relations.
- Clinton Albert Olmsted.....Comparative PhysiologyLos Angeles
A.B. 1948; M.A. 1954.
Thesis: The effect of dl-ethionine on plasma and liver phospholipid relationships.
- Robert Ver Dean Parke.....BotanyLibby, Montana
A.B. Montana State University 1949; M.S. University of Washington 1951.
Thesis: Primary growth and development of the vegetative shoot of *Abies con-*
color Lindl. & Gord.
- Mohamed Ahmed Radwan.....Plant PhysiologyGiza, Egypt
B.S. 1946 and M.S. 1950 Fouad I University, Cairo, Egypt.
Thesis: Leaf starch: its isolation, properties, and biosynthesis.
- Arthur Roland Schulz.....NutritionFort Collins, Colorado
B.S. Colorado Agricultural and Mechanical College 1950.
Thesis: The action of menadione on oxidative phosphorylation in the liver of
the rat.
- Robert Eugene Wilkinson.....Plant PhysiologyBerkeley
B.S. University of Illinois 1950; M.S. University of Oklahoma 1952.
Thesis: The physiological activity of 2,2-dichloropropionic acid.

HONORS

HONORS WITH THE CERTIFICATE OF COMPLETION

IN THE TWO-YEAR CURRICULUM IN AGRICULTURE

Jack Leonard Ball
Wilson Bassett Goddard

John Lawrence Stoner, Jr.
Howard Keith Stucky

HONORS WITH DEGREES

HONORS WITH THE BACHELOR'S DEGREE

IN THE COLLEGE OF AGRICULTURE

FOOD SCIENCE

Michael Arthur Sweyd

HOME ECONOMICS

Suzanne Louise Rickter

Velma Kathleen Tait

PLANT SCIENCE

Moshe Hoffman

Deronda Adam Young, Jr.

IN THE COLLEGE OF LETTERS AND SCIENCE

AMERICAN CIVILIZATION

Gene von Glahn Harding

HISTORY

Esther Cooper Kanning

MICROBIOLOGY

Ronald Freeburg Lewis

ZOOLOGY

Roland Andrew Giolli

IN THE SCHOOL OF VETERINARY MEDICINE

Highest Honors

Richard Amsden Mason Harvey Johan Olander Samuel John Rogers

HONORS IN MILITARY SCIENCE

William Howard Bear
Jackie Duane Damron
Robert Claude Dixon
John Graham Keliher

Richard Hardy McCapes
Bartolome Truett Sepulveda
Michael Arthur Sweyd
Charles Mayo Wright

PRIZES

ALPHA ZETA AWARD IN AGRICULTURE

GIVEN BY ALPHA ZETA FRATERNITY

Richard Harold Ramsey, of the Class of 1958

BORDEN AGRICULTURE AWARD

ESTABLISHED BY THE BORDEN COMPANY FOUNDATION

Michael Arthur Sweyd, of the Class of 1956

CALIFORNIA FARM BUREAU FEDERATION RURAL LEADERSHIP TROPHY

GIVEN BY THE CALIFORNIA FARM BUREAU FEDERATION

Deronda Adam Young, Jr., of the Class of 1956

HOWARD WALTON CLARK PRIZE IN PLANT BREEDING AND SOIL BUILDING

ESTABLISHED BY MRS. PRUDENCE L. CLARK

Edmond Douglas Pattimore, of the Class of 1956

VIRGINIA DARE AWARD

ESTABLISHED BY THE VIRGINIA DARE EXTRACT COMPANY

Michael Arthur Sweyd, of the Class of 1956

MARY JEANNE GILHOOLY MEMORIAL AWARD

ESTABLISHED BY THE ASSOCIATED STUDENTS

Patricia Ann McWilliam, of the Class of 1956

JOHN W. GILMORE FOREIGN STUDENT AWARD

GIVEN BY MRS. L. N. IRWIN

Alexander Bruderer, of the Class of 1956

EDWARD FRANK KRAFT SCHOLARSHIP PRIZES FOR FRESHMEN

ESTABLISHED BY EDWARD FRANK KRAFT

Gerald Eugene Youngblood, of the Class of 1959

William Norman Bigler, of the Class of 1959

Billy Joe Zahary, of the Class of 1959

Virginia Anne Shinabargar, of the Class of 1959

W. P. LINDLEY TROPHY FOR SCHOLASTIC AND ATHLETIC ACHIEVEMENT

ESTABLISHED BY W. P. LINDLEY IN THE SPRING OF 1923

Robert Louis Maulhardt, of the Class of 1956

UNIVERSITY FARM CIRCLE AWARD

GIVEN BY THE UNIVERSITY FARM CIRCLE

Darly Ann Jenkins, of the Class of 1957

WARDEN PRIZE IN DAIRY INDUSTRY

ESTABLISHED BY THE WARDEN BROTHERS OF AUSTRALIA

Don Wilber Dethlefsen, of the Class of 1957

MILITARY COMMISSIONS

UNIVERSITY CADETS

William Howard Bear.....	Major	Chemical Corps
Chester Paul Comfort.....	First Lieutenant	Armor
Jackie Duane Damron.....	First Lieutenant	Artillery
Sprigg Dix Davis.....	First Lieutenant	Armor
Robert Claude Dixon.....	Lieutenant Colonel	Artillery
Robert Richard Grosse.....	First Lieutenant	Medical Service Corps
Jon Robert Jessen.....	First Lieutenant	Medical Service Corps
John Graham Keliher.....	Captain	Armor
Robert Louis Maulhardt.....	First Lieutenant	Artillery
Richard Hardy McCapes.....	First Lieutenant	Medical Service Corps
Alexander Bonnyman McKeon.....	First Lieutenant	Quartermaster Corps
Gerald Ralph Mitchell.....	Second Lieutenant	Medical Service Corps
Gary Elbert Montgomery.....	Second Lieutenant	Medical Service Corps
Jon Owen Nordstrom.....	First Lieutenant	Infantry
Gary Warner Sanderson.....	First Lieutenant	Artillery
Robert Alan Schweissinger.....	First Lieutenant	Artillery
Bartolome Truett Sepulveda.....	First Lieutenant	Artillery
Sheldon Sarol Stein.....	First Lieutenant	Medical Service Corps
Michael Arthur Sweyd.....	Captain	Artillery
Charles Mayo Wright.....	Captain	Armor

UNITED STATES ARMY RESERVE CORPS

William Howard Bear.....	Second Lieutenant	Chemical Corps
Chester Paul Comfort.....	Second Lieutenant	Armor
Jackie Duane Damron.....	Second Lieutenant	Artillery
Sprigg Dix Davis.....	Second Lieutenant	Armor
Robert Claude Dixon.....	Second Lieutenant	Artillery
Robert Richard Grosse.....	Second Lieutenant	Medical Service Corps
Jon Robert Jessen.....	Second Lieutenant	Medical Service Corps
John Graham Keliher.....	Second Lieutenant	Armor
Robert Louis Maulhardt.....	Second Lieutenant	Artillery
Richard Hardy McCapes.....	Second Lieutenant	Medical Service Corps
Alexander Bonnyman McKeon.....	Second Lieutenant	Quartermaster Corps
Gerald Ralph Mitchell.....	Second Lieutenant	Medical Service Corps
Gary Elbert Montgomery.....	Second Lieutenant	Medical Service Corps
Jon Owen Nordstrom.....	Second Lieutenant	Infantry
Robert Alan Schweissinger.....	Second Lieutenant	Artillery
Bartolome Truett Sepulveda.....	Second Lieutenant	Artillery
Sheldon Sarol Stein.....	Second Lieutenant	Medical Service Corps
Michael Arthur Sweyd.....	Second Lieutenant	Artillery
Charles Mayo Wright.....	Second Lieutenant	Armor

AWARDS OF UNDERGRADUATE SCHOLARSHIPS FOR 1956-1957

The scholarships here listed are awarded, with but few exceptions, upon the recommendation of the Committee on Undergraduate Scholarships. The awards made by the committee are based upon scholarship, need, and promise, and represent a real distinction, comparable in most cases with the attainment of honor status, except where the special conditions of the bequest largely eliminate competition.

ALUMNI SCHOLARSHIPS FOR ENTERING STUDENTS

Provided from the University's General Funds and from Funds Contributed
by Alumni of the University

Elmer Kinji Hayashi, Freshman (Applicant) Letters and Science, Vacaville
Gale Margaret Heath, Freshman (Applicant) Agriculture, Albany
Julia Southmayd Hoagland, Freshman (Applicant) Letters and Science, Campbell
Charlotte Anne Howard, Freshman (Applicant) Agriculture, Lodi
Cornelia Raymond Hughes, Freshman (Applicant) Letters and Science, Richmond
Lois Ann Lattin, Freshman (Applicant) Letters and Science, Vacaville
Gaylene Nichols, Freshman (Applicant) Letters and Science, Woodland
Clyde Loren Pitts, Freshman (Applicant) Agriculture, Glendale
Yvonne Helenna Saasta, Freshman (Applicant) Agriculture, San Francisco
Carol Kay Stevenson, Freshman (Applicant) Letters and Science, Vacaville
Richard Phelps Stookey, Freshman (Applicant) Agriculture, Colma
Shirley Ann Wall, Freshman (Applicant) Letters and Science, Santa Cruz

ALUMNI HONORARY SCHOLARSHIPS WITHOUT STIPEND FOR ENTERING STUDENTS

Established by the Alumni of the University in Honor of Outstanding Students

Erin de Vries, Freshman (Applicant) Agriculture, Burlingame
Kathleen Ann Habelt, Freshman (Applicant) Agriculture, Oakland
Barbara Kay Stephenson, Freshman (Applicant) Letters and Science, Vacaville
Thomas Jered Vestal, Freshman (Applicant) Agriculture, Pittville

JOSEPH BONNHEIM MEMORIAL SCHOLARSHIP

Founded by Mr. and Mrs. Albert Bonnheim of Sacramento

William Norman Bigler, Sophomore, Letters and Science, Alameda

CALIFORNIA ASSOCIATION OF NURSERYMEN SCHOLARSHIP

Established by the California Association of Nurserymen

Janet Hill Muller, Junior, Agriculture, Davis

CALIFORNIA BEET GROWERS ASSOCIATION, DISTRICT 3, SCHOLARSHIPS

Awarded by California Beet Growers Association, District 3, for the Benefit of
Students in Agriculture in Yolo, Solano and Sacramento Counties

Joan Rae Clark, Sophomore, Agriculture, Woodland
Robert Carl Kelley, Freshman (Applicant) Agriculture, Rio Vista
Sharon Lynn Osmun, Freshman (Applicant) Agriculture, North Sacramento
Mirielle Ann Power, Freshman (Applicant) Agriculture, Vacaville
Bonnie Berta Thiers, Freshman (Applicant) Agriculture, Woodland

STATE OF CALIFORNIA SCHOLARSHIPS

Founded by the Regents of the University out of the Income of the University

Judith Arlene Gray, Freshman (Applicant) Letters and Science, San Francisco
Carleen Betty Leiss, Freshman (Applicant) Agriculture, Petaluma
Carmen Alicia Loveless, Freshman (Applicant) Letters and Science, Corning
Terri Ann Sawyer, Freshman (Applicant) Letters and Science, Merced

JESSE D. CARR SCHOLARSHIPS

Established from the Estate of Jessie Carr Seale in Memory of Her Father,
Jesse D. Carr

Sondra Faye Clearwaters, Freshman (Applicant) Agriculture, Pasadena
Valerie Anne Schwindt, Freshman (Applicant) Agriculture, Novato
Anita Marie Tackley, Freshman (Applicant) Agriculture, San Pablo

FARM HOME DEPARTMENT HOME ECONOMICS SCHOLARSHIP

Given by the Farm Home Department of the California Farm Bureau Federation
Joann Sara Lee, Sophomore, Agriculture, Nevada

ELMER H. HUGHES MEMORIAL SCHOLARSHIP

Established by Former Students and Friends of the Late Professor E. H. Hughes
Harry Stewart Chandler, Freshman (Applicant) Agriculture, Berkeley
William Samuel Charlson, Freshman (Applicant) Agriculture, San Jose
Robert Norris Rebholtz, Freshman (Applicant) Agriculture, San Anselmo

ALBERT A. JUNGERMAN MEMORIAL SCHOLARSHIP

Given by Frieda D. Jungerman in Memory of Her Husband, Albert A. Jungerman
Antoinette Alice Betschart, Freshman (Applicant) Agriculture, Manteca

EDWARD FRANK KRAFT SCHOLARSHIP

Established under the Will of Edward Frank Kraft for the Benefit of Students
in the College of Letters and Science in Tehama County
Dolores Nell Adams, Junior, Letters and Science, Cottonwood
Denise Clendenning, Sophomore, Letters and Science, Los Molinos

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

Donald Robert Adams, Sophomore, Agriculture, Cottonwood
Richard Allen Crawford, Junior, Agriculture, Gerber
Kenny Morris Lindauer, Sophomore, Agriculture, Los Molinos
Ann Elizabeth McKay, Freshman (Applicant) Agriculture, Red Bluff
Warren Conrad Micke, Sophomore, Agriculture, Los Molinos
James W. Nield, Freshman (Applicant) Agriculture, Red Bluff
Roger Lloyd Penner, Freshman (Applicant) Agriculture, Orland
Virgil Ray Traynor, Sophomore, Agriculture, Gerber
Carolyn Dee Weisgram, Sophomore, Agriculture, Tehama

WALTER LOEWY SCHOLARSHIP

Established by the Will of Walter Loewy
Gabriele Zella Sonntag, Senior, Agriculture, Los Angeles

ROBERT K. MALCOLM SCHOLARSHIP

Established by Liberty Farms
Linda Dowding, Senior, Agriculture, Topanga
Frederick Dana Seares, Senior, Agriculture, Los Angeles

JAMES MONROE MCDONALD SCHOLARSHIPS

Established by the Late Mrs. Mary J. L. McDonald of San Francisco in
Memory of Her Husband
Marvin Henry Gerdts, Senior, Agriculture, San Jose

FRANK AND IVY MYERS SCHOLARSHIPS

Established by a Bequest of the Late Frank S. Myers
David Eugene Hansen, Freshman (Applicant) Agriculture, Davis
Paul Lewis Smithers, Senior, Agriculture, Davis
Jerold Franklin Reed, Sophomore, Agriculture, Glendale

NONRESIDENT SCHOLARSHIP

Founded by the Regents of the University from Income of the University
Virginia Diane Perryman, Junior, North Bend, Indiana

LAVERNE NOYES SCHOLARSHIPS Established by the Will of LaVerne Noyes

Ellen Gertrude Hodges, Junior, Letters and Science, Colusa
Dale Eldon Shaffer, Junior, Agriculture, Sacramento
Howard Stephen Shellhammer, Senior, Letters and Science, Woodland
Alauhua Starlita Bethea West, Junior, Letters and Science, Solromar

MILTON PHILLIPS SCHOLARSHIPS Established by the Late Milton Phillips

Charles Eugene Farmer, Senior, Letters and Science, Yreka
Nancy Lee Olander, Senior, Letters and Science, Vacaville

RALSTON PURINA SCHOLARSHIP Established by the Ralston Purina Company

James Schubin, Senior, Agriculture, Placerville

HENRY W. SEALE SCHOLARSHIP Established by the Will of Jessie D. Carr Seale

Jack Frederick Latimer, Sophomore, Letters and Science, Woodland

SEARS ROEBUCK FOUNDATION AGRICULTURAL SCHOLARSHIPS FOR ENTERING MEN

Given by Sears Roebuck Foundation

Ralph Jeffrey Cowing, Freshman (Applicant) Agriculture, Woodland
Leslie Charley Cummings, Freshman (Applicant) Agriculture, Coleville
Claude Warren Curran, Freshman (Applicant) Agriculture, Corning
Joel David Franklin, Freshman (Applicant) Agriculture, Auburn
Ronald Ralph Gronwall, Freshman (Applicant) Agriculture, Los Altos
Thomas Engel Higgins, Freshman (Applicant) Agriculture, Tracy
Milton D. Pace, Freshman (Applicant) Agriculture, Orland
Larry Dayle Romine, Freshman (Applicant) Agriculture, Ramona
Ralph Richard Russe, Freshman (Applicant) Agriculture, Woodland
Frank Kenneth Santos, Freshman (Applicant) Agriculture, Richmond
Richard Tiller, Freshman (Applicant) Agriculture, Sebastopol

SEARS ROEBUCK FOUNDATION SCHOLARSHIPS IN HOME ECONOMICS

Given by Sears Roebuck Foundation

Carol Ann Gilbert, Freshman (Applicant) Agriculture, Porterville
Gloria Jean Murphy, Freshman (Applicant) Agriculture, Brentwood
Joellen Elizabeth Turbitt, Freshman (Applicant) Agriculture, Burlingame
Judith Mary Williams, Freshman (Applicant) Agriculture, Visalia

PETER J. SHIELDS SCHOLARSHIP

Established for the Benefit of Students in Agriculture by Regent
Garrett W. McEnerney

Dean Smith Deniz, Sophomore, Agriculture, Auburn

SUSIE VOORHIES MEMORIAL SCHOLARSHIP

Established by Edwin C. Voorhies in Memory of Susie Voorhies
Hilda Kay Willard, Freshman (Applicant) Agriculture, Red Bluff

LEOPOLD EDWARD WRASSE SCHOLARSHIP

Established by Mr. Leopold Edward Wrasse

Margaret Krestine Dickinson, Junior, Agriculture, Doyle
Sharon Evylin Lewis, Junior, Agriculture, Montrose
Karen Charlene Mays, Freshman (Applicant) Agriculture, Porterville
Richard Harold Ramsey, Junior, Agriculture, San Francisco

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

1956-1957

AGRICULTURE FELLOWSHIP

Established by an Anonymous Donor

Daisy Angelika Kuhn (Microbiology) Heidelberg, Germany
A.B. University of Pennsylvania 1952.

JESSE D. CARR FELLOWSHIP IN AGRICULTURE

Founded under the Will of the Late Mrs. Henry W. Seale in Memory of
Her Father, Jesse D. Carr

Julian Mordecai Davidson (Comparative Physiology) Glasgow, Scotland
M.S. The Hebrew University 1955.

GERMAIN'S, INC. RESEARCH FELLOWSHIP IN GENETICS AND PLANT BREEDING

Established by Germain's, Inc.

Rulon Thurston Ashcroft (Genetics) Davis
B.S. Utah State Agricultural College 1949.

NEWHOUSE FOUNDATION SCHOLARSHIPS

Established by the Newhouse Foundation, Inc.

Harvey Johan Olander (Veterinary Medicine) Vacaville
B.S. 1956.

LOUIS AND SARAH SLOSS SCHOLARSHIP

Founded by the Family of the Late Louis and Sarah Sloss

Richard Amsden Mason (Veterinary Medicine) Alameda
B.S. 1956.

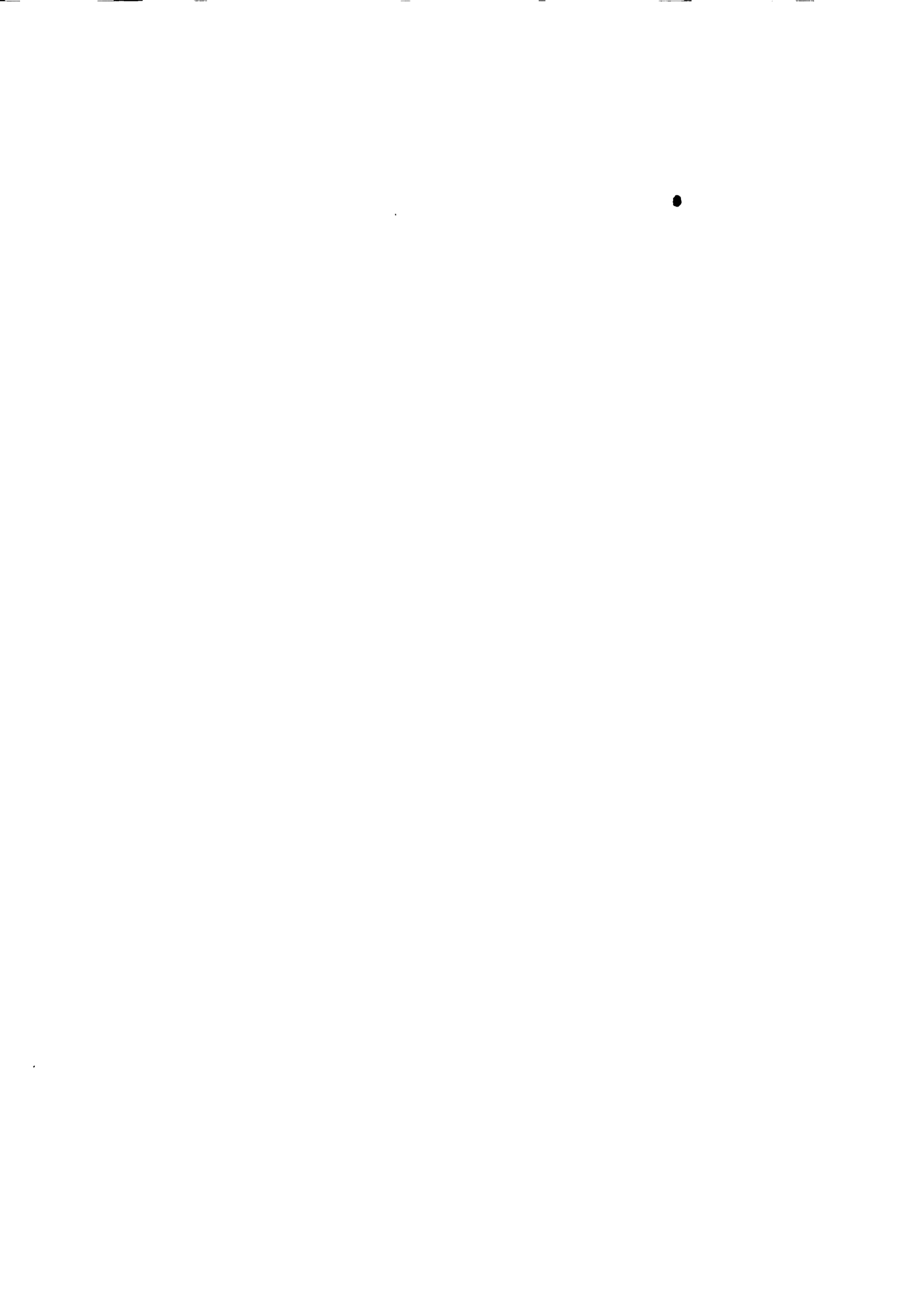
UNIVERSITY FELLOWSHIPS

Established by the Regents of the University

Carl Dudley Clayberg (Genetics) Tacoma, Washington
B.S. University of Washington 1954.

Yoash Vaadia (Plant Physiology) Hadera, Israel
B.S. 1954; M.S. 1955.





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UNIVERSITY OF CALIFORNIA

RIVERSIDE

SECOND COMMENCEMENT
EXERCISES



Monday, June 11, 1956

5:30 p.m.

Athletic Playing Field

PROGRAM OF THE COMMENCEMENT

Provost GORDON S. WATKINS, *presiding*

PROCESSIONAL

"Triumphal March" *Grieg*

NATIONAL ANTHEM

INVOCATION

Reverend ROBERT B. WEIRBACH
Grace Methodist Church, Riverside

STUDENT ADDRESS

STEPHEN UHALLEY, JR.

PRESENTATION OF AWARDS

MUSICAL SELECTIONS

"The Ash Grove" Welsh Folk Song
"How Lovely is Thy Dwelling Place" *Brahms*

PROVOST'S FAREWELL TO THE GRADUATES

GORDON S. WATKINS
Provost, Riverside Campus

CONFERRING OF DEGREES

HAIL TO CALIFORNIA

THE PRESIDENT'S ADDRESS

ROBERT GORDON SPROUL
President of the University

UNIVERSITY HYMN

BENEDICTION

Reverend WEIRBACH

RECESSIONAL

"Ceremonial Music" *Purcell*
ROBERTA BITGOOD, Sac.Mus.Doc., Guest Organist

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!

THE UNIVERSITY HYMN

O God, our help in ages past
Our hope for years to come,
Our shelter from the stormy blast,
And our eternal home!

Before the hills in order stood,
Or earth received her frame,
From everlasting Thou art God,
To endless years the same.

DEGREES AND HONORS

COLLEGE OF LETTERS AND SCIENCE

January 26, 1956

DEGREES CONFERRED

The degree of Bachelor of Arts upon

James Robert Davis	Bacteriology	Riverside
Hazel May Denning	Social Sciences	Riverside
Charles Henry Herbert, Jr.	Romance Languages	San Bernardino
Carol Riggs Holbrook	English	Riverside
Luciana Maria Johnson	History	Riverside
Jacquelin Neva Kentner	Biology	Carlsbad
Eleanore Melnick	History	Riverside
Rosemary Payne Vogel	History	Fair Oaks
Billie Jean Williams	English	Fontana

June 6, 1956

DEGREES CONFERRED

The Degree of Bachelor of Arts upon

Mary Arlene Ackerman	Mathematics	San Bernardino
Ronald Herbert Alvarado	Zoology	Ontario
Norma Jean Andrews	Social Sciences	Colton
Stuart Bernard Belknap	Physics	San Diego
Robert Walter Berwin	Physics	Arlington
Irene Brown Blankenship	English	San Bernardino
Lloyd Vaughn Blankenship	Political Science	Riverside
Raymond Derwood Bray	Social Sciences	Arlington
Floyd Lawrence Brewer	Psychology	Claremont
James David Burns	Physics	Fontana
Charles M. Carlson	Chemistry	San Bernardino
Floyd Archie Chamlee	Social Sciences	Chino
Sandra F. Crognale	Psychology	San Bernardino
Evelyn Marie Doyle	English	San Bernardino
Ruth Ellen Eldred	Social Sciences	Arlington
Irene F. Ellowitz	Political Science	Riverside
James Joseph Femino	Zoology	Glendora
Gregg James Figgins	English	San Jacinto
Charles Filippini	Zoology	San Bernardino
Samuel Irving Frank	Mathematics	Riverside
Richard Joseph Hall	Psychology	Del Rosa
Martha Batchelor Hamilton	English	Riverside
Charles S. Havens	Political Science	Pomona
Charles Otto Hensel	Biology	Colton
Richard George Houdek	Economics	San Bernardino
Alice Alexander Huffman	Mathematics	Riverside
James Francis Kelly, Jr.	History	Riverside
Waldemar Arthur Klemm, Jr.	Chemistry	Redlands
Larry M. Lane	History	Glendale
Thomas A. Langford	English	San Bernardino
Mary Eileen Lenox	Sociology	San Bernardino
Eugene Donald Levy	Sociology	Riverside
William Morell McGregor, Jr.	Political Science	Riverside
Robert Alexander Marshall, Jr.	Political Science	Oakland
Russell Dean Martin, Jr.	Zoology	Colton
Carol Lee Matthews	Mathematics	Corona

Robert Henry Michael.....	Geology	Riverside
Robert C. Noël.....	Social Sciences	Pasadena
Charles Alexander Ohlhausen.....	Social Sciences	Riverside
Pamela Payton.....	English	Riverside
Myra Steele Pollard.....	Political Science	Riverside
Albert L. Pugh.....	Chemistry	Riverside
Bruce Fred Rickborn.....	Chemistry	Yucaipa
Jack Leon Riesland.....	English	Hemet
K. James Risley.....	Economics	Riverside
Thomas David Ryan.....	Chemistry	Ontario
Wilbur John Scholey.....	Mathematics	La Verne
Patricia Mae Sparkman.....	Social Sciences	Corona
David A. Swing.....	Economics	Colton
Brooke Owens Thickston.....	Chemistry	Del Rosa
Don Dean Thompson.....	Chemistry	Santa Ana
Stephen Uhalley, Jr.....	History	Fontana
David Bernard Underwood.....	Zoology	Cedar Glen
Robert Earnest Vergeront.....	Romance Languages	Riverside
Eva Irene Westerling.....	Social Sciences	Riverside
David Jordan White.....	Physics	Fallbrook
Robert Gerald Wicks.....	English	El Monte
John Peter Wolf, III.....	Chemistry	Riverside

HONORS WITH THE BACHELOR'S DEGREE

Highest Honors

Alice Alexander Huffman	Division of Physical Sciences
Russell Dean Martin, Jr.	Division of Life Sciences
Pamela Payton	Division of Humanities

High Honors

Evelyn Marie Doyle	Division of Humanities
Irene F. Ellowitz	Division of Social Sciences
Martha Batchelor Hamilton	Division of Humanities
Larry M. Lane	Division of Humanities
William Morell McGregor, Jr.	Division of Social Sciences
Stephen Uhalley, Jr.	Division of Humanities

Honors

Lloyd Vaughn Blankenship	Division of Social Sciences
James David Burns	Division of Physical Sciences
Charles M. Carlson	Division of Physical Sciences
James Joseph Femino	Division of Life Sciences
James Francis Kelly, Jr.	Division of Humanities
Eugene Donald Levy	Division of Social Sciences

ACADEMIC DRESS IN THE UNITED STATES

Academic dress is mainly ecclesiastical in origin, since learning was largely confined to the church when the universities arose. Ecclesiastical dress in turn is of Roman origin, being like the costume of the Roman Senator, the Pontifex Maximus, and other officials. 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. According to Horsely, he was "addicted to a life of study and devotion." Pictures in manuscripts of the fifteenth century show the clerk wore a gown and had the crown of his head shaved to form a tonsure.

The academic gown has been variously known through the centuries as the toga, the roba, or the tunica talaria. It 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 *Elismere MS*, Chaucer's clerk of Oxenford appears in a red skull cap, 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 worn in the United States is black and lined with the colors of the University, e.g., blue and gold in the case of the University of California hoods. The color of the band along the outer edge indicates the scholar's field of learning. Thus the degree in Letters or Arts is symbolized by white, Theology by scarlet, Law by purple, Philosophy by blue, Science by gold, Medicine by green, Public Health by salmon-pink, Engineering by orange, Dentistry by lilac.



UNIVERSITY OF CALIFORNIA

DIRECTORY FOR THE EIGHT
CAMPUSES

1955 - 1956

UNIVERSITY OF CALIFORNIA

BERKELEY _____

DAVIS _____

LA JOLLA _____

LOS ANGELES _____

DIRECTORY

**for the eight
campuses**

1955-1956

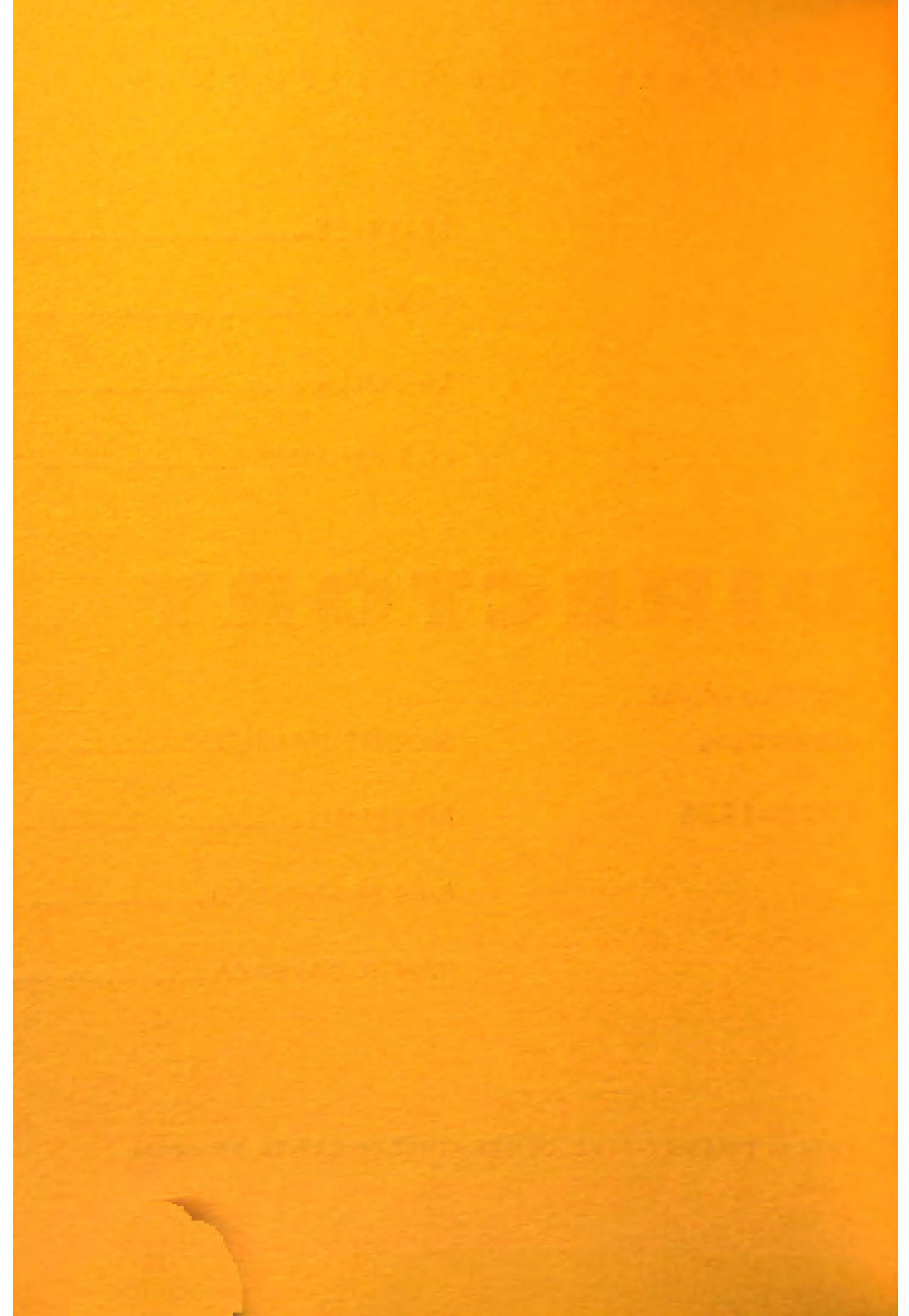
MOUNT HAMILTON _____

RIVERSIDE _____

SAN FRANCISCO _____

SANTA BARBARA _____

PRICE: TWENTY-FIVE CENTS (THIRTY CENTS BY MAIL)



UNIVERSITY OF CALIFORNIA

DIRECTORY

For the Eight Campuses

BERKELEY • DAVIS • LA JOLLA
LOS ANGELES • MOUNT HAMILTON
RIVERSIDE • SAN FRANCISCO
SANTA BARBARA

Comprising the names, titles, office addresses, and home addresses of officers and chief assistants for the academic year 1955–1956 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, 1956. Included also are certain other personnel not employed by the University whose activities are closely related to those of the staff.

1955–1956

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KEY TO SYMBOLS AND ABBREVIATIONS

The dagger (†) marks the names of officers who are married; the asterisk (*) the names of those absent on leave; the double dagger (‡) the names of those on sabbatical leave in residence; the superior figure 1 means in residence fall semester only; †, spring semester only; ♡, on military leave.

ABBREVIATIONS

PO	Post Office	Div.	Division	Prof.	Professor
Agr.	Agricultural	dr	drive	Rad.	Radiation
apt	apartment	Ext.	Extension	rd	road
Assoc.	Associate	hwy	highway	rt	route
Asst.	Assistant	Instr.	Instructor	st	street
av	avenue	Lab.	Laboratory	Supt.	Superintendent
bldg	building	Lectr.	Lecturer	Tech.	Technician
blvd	boulevard	Mt.	Mount	ter	terrace
ct	court	pl	place	Univ.	University
Dept.	Department				

CITIES

A	Alameda	HP	Huntington Park	Rich Annex	Richmond Annex
Alb	Albany	Ingle	Inglewood	SB	Santa Barbara
Alh	Alhambra	LA	Los Angeles	S Bern	San Bernardino
B	Berkeley	Laf	Lafayette	SF	San Francisco
BH	Beverly Hills	LB	Long Beach	S Fern	San Fernando
Bur	Burbank	N Holly	North Hollywood	SL	San Leandro
C	Concord	O	Oakland	SM	Santa Monica
CC	Culver City	P	Piedmont	S Pas	South Pasadena
D	Davis	Pac Pal	Pacific Palisades	SR	San Rafael
EC	El Cerrito	Pas	Pasadena	SSF	South San Francisco
ER	Eagle Rock	Pt Rich	Point Richmond	Van N	Van Nuys
G	Goleta	R	Riverside	WC	Walnut Creek
Glen	Glendale	Rich	Richmond		
H	Hayward				

The number immediately following the abbreviation for the city, in the residence address, is the post-office zone number, which has been used whenever obtainable.

BUILDINGS

Berkeley

AH	Agriculture Hall	FCL	Freshman Chemistry Laboratory
Adm	Administration Building	Forestry	Forestry Building
Anthro	Anthropology Building	GB	Grounds and Buildings
Anthro M	Museum of Anthropology	Giannini	Giannini Hall
Arch	Architecture Building	Gilman	Gilman Hall
Bacon	Bacon Hall	Gym M	Gymnasium for Men
BL	Bancroft Library	Haviland	Haviland Hall
BV Lab	Biochemistry and Virus Laboratory	Hearst Gym	Hearst Gymnasium for Women
Cal	California Hall	Hesse	Hesse Hall
Callaghan	Daniel J. Callaghan Hall	Hilgard	Hilgard Hall
Chem	Chemistry Building	HM	Hearst Memorial Mining Building
Chem Annex	Chemistry Building Annex	Home Ec	Home Economics Building
CMH	Ernest V. Cowell Memorial Hospital	ICW	Institute of Child Welfare (2739 Bancroft Way)
Cory	Clarence L. Cory Hall	L	Charles Franklin Doe Library
CRL	William H. Crocker Radiation Laboratory	L Annex	Library Annex
CRP	City and Regional Planning Building	Law	School of Law Building
DA	Decorative Art Building	LeConte	LeConte Hall
DA Annex	Decorative Art Annex	Lewis	Gilbert N. Lewis Hall
DH	Durant Hall (formerly Boalt Hall)	LSB	Life Sciences Building
DL	Donner Laboratory	LT Lab	Low Temperature Laboratory
Dw	Dwinelle Hall	M	Mechanics Building
EFS	Engineering Field Station Richmond	Music	Music Building
EM	Engineering Materials Laboratory	O	A. O. Leuschner Observatory
Eng	Engineering Building	OB-Q	Housing Office
Ehleman	Ehleman Hall	Optom	School of Optometry Building
		Poultry Husb	Poultry Husbandry Laboratory
		Rad Lab	Radiation Laboratory
		RFS	Richmond Field Station
		S	South Hall

S Annex	South Hall Annex	T-12 to T-14	Engineering Laboratories
2288 Fulton St.	Bureau of International Relations	UES	University Elementary School
T-1 to T-11	Temporary Classroom Buildings, located in Engineering Glade	Univ Ext	University Extension (2441 Bancroft Way)
		Vet	Veterinary Science Building
		W	Benjamin Ide Wheeler Hall
		Warren	Earl Warren Hall

Davis

AE	Agricultural Engineering Building	Home Econ	Home Economics Building
AnS	Animal Science Building	Hort	Horticultural Building
B & G	Buildings and Grounds Building	Hort Annex	Horticulture Annex
Bot	Botany Building	Hunt	Hunt Hall
Ch	Chemistry Building	I	Insectary
CR	Construction and Repair Building	LA	Library-Administration Building
DI	Dairy Industry Building	Land Man	Landscape Management Building
Enol	Enology Building	Music	Music Building
Entom	Entomology Building	P	Physics Building
FCB	Faculty Club Building	PH	Poultry Husbandry Building
Food Tech	Food Technology Building	Rec	Recreation Hall
Gym	Gymnasium Building	S&I	Soils and Irrigation Building
Har	Haring Hall	SHS	Student Health Service
		VCFH	Vegetable Crops Field House
		Vi	Viticulture Building

Temporary buildings are designated TB1, TB2, etc.

Los Angeles

Adm	Administration Building	MBA2	Mechanics Building Annex 2
Art	Art Building	MC	Medical Center
BAE	Business Administration-Economics Building	MG	Men's Gymnasium
Chem	Chemistry Building	MH	Moore Hall
Cyc	Cyclotron Building	MHH	Mira Hershey Hall
Engr	Engineering Building	Mus	Music Building
FH	Frans Hall	PB	Physics-Biology Building
Geol	Geology Building	PI Ph	Plant Physiology Building
HE	Home Economics Building	RH	Royce Hall
HH	Haines Hall	Serv	Service Building
HML	Home Management Laboratory	TEB 1	Temporary Engineering Building 1
KH	Kerckhoff Hall	TEB 2	Temporary Engineering Building 2
Law	School of Law Building	UES	University Elementary School
Lib	Library	UHS	University High School
LS	Life Sciences Building	UNS	University Nursery School
MB	Mechanics Building	Viv	Vivarium
MBA1	Mechanics Building Annex 1	WG	Women's Gymnasium

Temporary buildings are designated by number and letter, the former representing the site, as follows:

Site 1	East of Education Building	Site 3	North of Home Economics Building
Site 2	North of Mechanics Building	Site 5	LeConte Avenue and Westwood Blvd.

Riverside

Adm	Administration Building	PE	Physical Education Building
AE	Agricultural Extension Building	PN-VC	Plant Nematology—Vegetable Crops Building
AP	Air Pollution Building	PS	Physical Sciences Building
BC	Biological Control Unit	SA	South Wing, Administration Building
EA	Entomology Annex	SPN	Soils and Plant Nutrition Building
Ent	Entomology Building	SS-H	Social Sciences-Humanities Building
Hort	Horticulture Building	Store	Storeroom
I	Insectary	T Lab	Temporary Laboratory
Insec	Insecticide Building	Web	Herbert John Webber Hall
Irrig	Irrigation Building		
Libr	Library		
NA	North Wing, Administration Building		

San Francisco (Medical Center)

C	Clinics Building	LPC	Langley Porter Clinic
DB	Dental Building	LS	Laundry-Storehouse
GB	Grounds and Buildings	M	Herbert C. Moffitt Hospital
HF	Hooper Foundation	MR	Medical Research Building
LHH	Laguna Honda Home	MRL	Metabolic Research Laboratory

MS	Medical School Building	SFH	San Francisco Hospital
ND1	Nurses Dormitory No 1 (610 Parnassus Avenue)	TOB4	(U.C. Service) 727 Parnassus Avenue
ND2	Nurses Dormitory No. 2 (1466 Fourth Avenue)	TOB3	1332 Third Avenue
Ph	Pharmacy Building	TOB2	1344 Third Avenue
RL	Radiological Laboratory Building	TOB1	1379 Third Avenue
S	Medical Sciences Building	U	University of California Hospital

Santa Barbara College

401, 402, 427	Administration buildings
IA	Industrial Arts Building (on Mesa Campus)
S	Science Building

COLLEGES AND DEPARTMENTS

Colleges, schools, departments, or offices are designated by an abbreviation following the title.
as follows:

(A)	California School of Fine Arts, San Francisco
(B)	Berkeley
(D)	Davis
(Dent-SF)	College of Dentistry, San Francisco
(H)	Hastings College of the Law, San Francisco
(HF-SF)	George Williams Hooper Foundation for Medical Research, San Francisco
(U-SF)	University of California Hospital, San Francisco
(LA)	Los Angeles
(LO)	Lick Observatory, Mount Hamilton
(M-B)	School of Medicine, Departments at Berkeley
(M-SF)	School of Medicine, San Francisco
(N-B)	School of Nursing, Berkeley
(N-SF)	School of Nursing, San Francisco
(Ph-SF)	College of Pharmacy, San Francisco
(R)	Riverside
(S)	Scripps Institution of Oceanography, La Jolla
(SB)	Santa Barbara College, Goleta
(SB-M)	Santa Barbara College, Mesa Campus
(SF)	San Francisco

THE REGENTS OF THE UNIVERSITY

REGENTS EX OFFICIO

- †His Excellency, GOODWIN J. KNIGHT, A.B.
Governor of California and President
of the Regents
State Capitol, Sacramento 14
- †HAROLD J. POWERS
Lieutenant-Governor of California
State Capitol, Sacramento 14
- †LUTHER H. LINCOLN
Speaker of the Assembly
4000 Redwood rd, Oakland 19
- †ROY E. SIMPSON, M.A., Litt.D.
State Superintendent of Public In-
struction
721 Capitol av, Sacramento 14
- †ARTHUR J. MCFADDEN, B.S., LL.B.
President of the State Board of Agri-
culture
902 River lane, Santa Ana
- †WILLIAM G. MEROHANT
President of the Mechanics' Institute
804 Mechanics' Institute bldg,
San Francisco 4
- †EDWIN L. HARBACH
President of the Alumni Association of
the University of California
609 S Grand av, Los Angeles 17
- †ROBERT GORDON SPROUL, B.S., LL.D.,
Litt.D.
President of the University
250 Administration bldg, Berkeley 4
203 Administration bldg, Los Angeles
24

APPOINTED REGENTS

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

- †EDWARD A. DICKSON, B.L. (1958)
425 S Windsor blvd, Los Angeles 5
- †EDWIN W. PAULEY, B.S. (1970)
717 N Highland av, Los Angeles 38
- †BRODIE E. AHLPORT, A.B. (1956)
5657 Wilshire blvd, Los Angeles 36
- †EDWARD H. HELLER, A.B. (1958)
600 Market st, San Francisco 4
- †VICTOR R. HANSEN, LL.B. (1962)
Superior Court, Courthouse,
Los Angeles 12
- †EARL J. FENSTON, A.B. (1964)
504 Helm bldg, Fresno 1
- †CHESTER W. NIMITZ, B.S., LL.D. (1956)
728 Santa Barbara rd, Berkeley 7
- †CORNELIUS J. HAGGERTY (1966)
995 Market st, Room 810,
San Francisco 3
- †JESSE H. STEINHART, A.B., LL.B.
(1962)
111 Sutter st, San Francisco 4
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Business Administration	E. T. Grether, 8198; M. Moonitz, Vice-Chairman, Fall Semester, W. L. Crum, Vice-Chairman, Spring Semester, 113 S, 376, 447
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Decorative Art	Lucretia Nelson, 104 DA Annex, 531
Dramatic Art	F. O. Harris, 1205 Dw, 352
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Bacteriology	M. P. Starr (Acting), 1095 Har, 785
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Dairy Industry	E. L. Jack, 209 DI, 566
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Bacteriology	A. J. Salle, 5209 LS, 433
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Business Education	S. J. Wanous, 321 BAE, 621
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Cultivations	A. H. Wright, 700 Gayley av, 270
Economics	P. T. Homan, 270 BAE, 352
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Training	J. A. Bond, 229 MH, 269
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Physical Sciences	W. C. Pierce, 1149 PS, 445
Social Sciences	A. C. Turner, 1210 SS-H, 265
DEPARTMENT	
Physical Education	J. E. Hewitt, 103 PE, 401

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Plant Biochemistry	W. B. Sinclair, 2314A Web, 462
Plant Nematology	R. C. Baines, Vice-Chairman, 1 PN-VC, 312
Plant Pathology	L. J. Klotz; P. A. Miller, Vice-Chairman (Riverside-Los Angeles), 2139 Web, 800
Soils and Plant Nutrition	H. D. Chapman 102SPN, 480

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Denture Prosthesis	G. A. Hughes, 738 S, 452
Operative Dentistry	R. W. Rule, Jr., 633 C, 450
Oral Biology	H. Becks, 200 HF, 578
Oral Surgery	C. D. Gwinn, 600 O, 577
Orthodontics	W. L. Wylie, 735 C, 451
Periodontology	H. G. Ray, 641 C, 580
Preclinical Biological Sciences	J. J. Eiler, 840 S, 695

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Medicine	T. L. Althausen; I. O. Schumacher, Vice-Chairman, 994 M, 645
Microbiology	M. S. Marshall; E. Jawetz, Vice-Chairman, 412 S, 557
Neurological Surgery	E. B. Boldrey, 786 M, 368
Neurology	R. B. Aird, 794 M, 585
Obstetrics and Gynecology	H. F. Traut, 1490 M, 227
Ophthalmology	F. C. Cordes; M. J. Hogan, Vice-Chairman, 893 M, 254
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The Chairman of the Committee on Budget and Interdepartmental Relations, Southern Section: E. L. Griggs.

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Member (from the Northern Section) of the Governing Board of the Pension and Retiring Annuities System of the University of California: A. O. Helmholtz (4-year term, 1955-1959).

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(The classification of each committee is indicated in accordance with the following scheme: (U), Unified Senate Committee; (C), Combined Senate Committee; (P), Parallel Committee of the Northern Section; (L), Local Committee of the Northern Section. The first name listed is Chairman unless other noted.)

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ADVISORY (L):

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Vice-Chairman: To be appointed
Second Vice-Chairman: T. C. Daniels
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r 15 Vista del Orinda, Orinda. CL 4-2346
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r 6050 Hamilton dr, R
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r 12588 Valley View dr, Los Altos.
WH 8-5511
- Brian, Ray, Librarian I (LA), 232 Lib
r 221 Seventeenth st, SM. EX 5-2418
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r 3249 Octavia st, SF23. WE 1-3927
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r 1320½ Olive st, SB. WO 5-8306
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r 1156 Upper Happy Valley rd, Laf.
CL 4-3631
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r 1913 Greenfield av, LA25. GR 7-4551
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- Earhart, Miss Beatrice M., Secretary, Library (B), 248 L Annex
r 2187 Magellan dr, O11. HU 3-9010
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r 1323 Arch st, B8. AS 3-1483
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r 2210 Stuart st, B5. AS 3-8294

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r 11672 Rochester av, LA25. GR 9-1906
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r 1614 Camden av, LA25. GR 8-2216
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r 603 E Valerio st, SB. WO 2-6427
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r 65 Santa Clara av, SF. MO 4-7009
- †Hand, Mark M., Asst. Clinical Prof. of Urology (M-SF), 472 M
r 235 Pacheco st, SF. MO 4-5767
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r 5166 Mecca av, Tarzana. DI 3-4847
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r 323 S Anita av, LA49. GR 9-5800
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r 5195 Victoria av, R. OV 4-4151
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r 2740 Prince st, B5. OL 2-3957
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r 733 M st, D
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r 526 Oak av, D. SK 3-3651
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r 1451 Twentieth av, SF22. LO 6-3216
- †Hanna, Margaret M. (Mrs. G. D.), Scientific Illustrator, California Museum of Vertebrate Zoölogy (B)
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- Hannah, Miss E. Pearl, Assoc. in Dental Medicine (Dent.-SF), 616 S
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r 10529 Ohio av, LA24. AR 3-3069
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r 240 A st, D. SK 3-2501
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r 1620A LeRoy av, B9. AS 3-1284
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r 1043 Orchard rd, Laf. AT 4-4647
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r 2412 Durant av, B4. AS 3-5603
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r 3329 Grove st, 09. OL 3-0578
- †Hansen, Terrence L., Asst. Prof. of Spanish (R), 2207 SS-H
r 4611 Jarvis st, R. OV 3-1986
- †Hanson, Donald N., Assoc. Prof. of Chemical Engineering (B), 306 Gilman
r 1117 Miller av, B8. AS 3-2934
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r 1405 S Bentley av, LA25. GR 9-2398
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r 1369 Fourth av, SF22. OV 1-9325
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r 3521 Sunnyside st, R. OV 3-6370
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r 3078 Calle Roselas, SB. WO 7473
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r 712 Hunt way, D

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r 1909A Haste st, B4. TH 3-8979
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r 441 Stanley dr, SB. WO 7998
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r 1500 Sixth av, SF. OV 1-2993
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r 399 Arboleda rd, Hope Ranch, SB. WO 3712
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r 6182 Del Ray ct, R. OV 6-2149
- †Harding, Sidney T., Prof. of Irrigation, Emeritus, Div. of Civil Engineering and Irrigation (B), 12 Eng
r 2734 Russell st, B5. TH 3-6976
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r 1808 Shattuck av, B9. TH 8-0614
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r 1800 Pandora av, LA25. GR 7-9574
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r 2159 Thirty-third av, SF16. LO 6-9495
- †Harlow, Pauline T. (Mrs. H. E.), Library Bookmender (B), L
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r 12368 Deerbrook lane, LA49. GR 2-2166
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r 1232 Lodi pl, LA38. HO 7-3877
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r 6 Molino dr, SF27. JU 4-8943
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r 567 Sixteenth av, SF18. SK 1-2049
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r 11455 Woodbine st, LA66. EX 8-3509
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r 52 Oakwood rd, Orinda. CL 4-5939
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r 3441 Sixth st, R. OV 3-4548
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r 10982 Roebing av, LA24. GR 3-6378
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- †Harris, Evan H., Accountant III, Controller's Office, Systems and Procedure (B), 408B Adm
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r 25 Sixth av, SF18. SK 1-5041
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r 20 Sixteenth av, SF18. EV 6-0364
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- †Hart, George H., Dean of the School of Veterinary Medicine, Emeritus, Prof. of Veterinary Medicine, Emeritus, and Veterinarian, Emeritus, Experiment Station (D), 1001 Har r 114 E st, D. SK 3-3495
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r 740 San Luis rd, B7. LAnd 4-1527
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r 720 Anderson rd, D. SK 3-2098
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r 64 Rogers ct, WC. YE 4-3367
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r 1851 Twenty-seventh av, SF22. MO 4-2397
- †Hartmann, Floyd W., Lectr. in Public Health (B), 104 Warren
r 92 Oak Ridge rd, B5. TH 8-2692
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r 437 F st, D. SK 3-3181
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r 1559 Seventeenth av, SF22. OV 1-5376
- †Hartsook, Richard F., Real Estate Officer, Office of the Secretary and Treasurer of the Regents (B), 240 Adm
r 511 The Alameda, B7. LAnd 6-3537
- †Hartung, Charles V., Instr. in English (LA), 25 3Q
r 10789 Wilkins av, LA24. GR 3-1954
- †Hartung, Margaret M., (Mrs. Charles), Principal Account Clerk, Controller's Office (LA), 333 Adm
r 10789 Wilkins av, LA24. GR 3-1954
- †Hartwig, Arthur R., Clinical Instr. in Orthopaedic Surgery (M-SF), 490 Post st, SF
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r 1921 Bonita av, B4. TH 1-0316
- †Harvey, Otis A., Assoc. Agriculturist, Agr. Ext. (B), 7 PO bldg, R
r 3721 McKinley st, R. OV 3-2946
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r 4686 McFarland, R. OV 3-3670
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r 11345 Montana av, LA49. GR 2-1959
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- †Headley, Robert R., Asst. Chief Personnel Officer (B), 2260 Telegraph av
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r 301 Hugo st, SF22. LO 4-0251
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- †Wurster, William W., Dean of the College of Architecture, and Prof. of Architecture (Chairman of the Dept.) (B), 1 Arch
r 1459 Greenwood ter, B8. AS 3-7726
- †Wurtsbaugh, Marguerite D. (Mrs. G. H.), Assoc. Home Economist, Emeritus, Agr. Ext. (B)
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r 629 Colima st, La Jolla. GL 4-1620
- †Wycoff, Charles C., Clinical Instr. in Surgery (M-SF), SFH
r 182 Delmar, SF. KL 2-3506
- Wygodzinsky, Pedro, Research Assoc. in Entomology and Parasitology in the Experiment Station (B), 112 AH
r 2436 Ellsworth st, B4
- †Wylie, Denard C., Principal Supt. of Cultivations, Citrus Experiment Station (R), 115 Hort
r 4806 Victoria av, R. OV 4-0447
- †Wylie, Edwin J., Asst. Clinical Prof. of Surgery (M-SF) 490 M
r 21 Fifth av, SF. BA 1-3345
- †Wylie, Paul E., Lectr. in Astronomy and Engineering (LA), 332 RH
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- †Wylie, Wendell, Prof. of Orthodontics and Asst. Dean, College of Dentistry (Dent-SF), 735 C
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- Y**
- Yaki, Miss Tae Joyce, Secretary, Out-Patient Dept. U-SF), 136 C
r 566 Lombard st, SF. EX 2-7678
- †Yakoubovsky, Peter A., Graduate Research Microbiologist II (HF-SF), 100 HF
r 74 Sanchez st, SF14. HE 1-0458
- †Yalon, Jerome M., Asst. Hospital Administrator (U-SF) and Asst. Clinical Prof. of Hospital Pharmacy, (Ph-SF), 111 M
r 1778 Thirty-third av, SF22. LO 6-9291
- Yamada, Henry, Demonstrator in Anatomy (Dent-SF), 1347 S
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- †Yamaguchi, Masatoshi, Lectr. in Vegetable Crops and Asst. Olericulturist, Experiment Station (D), 170A Hunt
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- Yamamoto, Miss Eiko, Head Nurse II (N-SF), 398 M
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- Yamamoto, George T., Buyer II, Purchasing Dept. (SF), 201 LS
r 835 Cole st, SF
- Yamamoto, Miss Tamaye, Dietitian (U-SF), 290 M
r 301 Hugo st, SF22. LO 4-0251
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- †Yates, Wesley E., Asst. Prof. of Agricultural Engineering and Asst. Engineer, Experiment Station (D), 211 AE
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DUnlap 8-4139
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- Yeazell, Mrs. Jeanette G., Librarian I (Ph-SF), 249 S
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r 490 Colon av, SF12. LO 4-9273
- †Yee, Henry S., Supervisor of Payroll, Controller's Office (B), 401 Adm
r 1023 Cragmont av, B8. LAnd 5-8785
- †Yerushalmy, Jacob, Prof. of Biostatistics, Dept. of Public Health (B), 310 Warren
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- Yipp, Tong C., Storekeeper, Dept. of Plant Biochemistry (B), 337 BV Lab
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tion (LA), 218 MG
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- Young, Mrs. Dorothy H., Instr. in Pedodontics
(Dent-SF), 622 C
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- †Young, Herbert A., Dean of the College of
Letters and Science, Prof. of Chemistry,
and Chemist in the Experiment Station
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- †Young, Ho L. (Mrs. W.), Junior Research
Physiologist, Dept. of Physiology (M-B),
2521 LSB
r 615 Richmond st, EC8. LAnd 5-3546
- †Young, John, Lectr. in Theater Arts (LA),
23 3A
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- †Young, John K., Lectr. in Dentistry (Dent-
SF), 344 Fourteenth st, SF3
r 33 Coronet av, Mill Valley. DU 8-1535
- †Young, John V., Head, Personnel Dept. (Los
Alamos Scientific Lab.), Los Alamos, N.M.
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- †Young, Lucy T. (Mrs. J.), Principal Lab.
Tech. in Soils and Plant Nutrition (B),
151 Hilgard
r 2864 Shasta rd, B7. TH 8-2958
- †Young, Margot M. (Mrs. P. G.), Clinic Ad-
missions Worker, Out-Patient Dept. (U-SF),
135E C
r 1827 Ninth av, SF22. LO 6-7187
- †Young, Raymond J., Senior Tabulating Super-
visor, Registrar's Office (B), 120 Adm
r 2968 107th av, O5. TR 3-9530
- †Young, Roy E., Principal Lab. Tech., Dept.
of Subtropical Horticulture (LA), 50 PB
r 10976 Roebling av, LA24. GR 7-8652
- Young, Miss Ruth, Secretary, Submarine Geol-
ogy (S)
r 7526 Herschel st, La Jolla. GL 4-5946
- †Young, William G., Divisional Dean of Physi-
cal Sciences, College of Letters and Science,
and Prof. of Chemistry (LA), 4326 Chem
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- †Young, William J., Manager, Printing Dept.
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and Ornamental Horticulture, and Junior
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Hesse
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- †Yuster, Samuel T., Prof. of Engineering
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Z

- Zabbia, Carl A., Clinical Instr. in Medicine
(LA) r 1823 Midvale av, LA25.
GR 9-2544
- †Zabin, Irving, Asst. Prof. of Physiological
Chemistry (LA), 33-320A MC
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- Zabrowski, Miss Marilyn J., Acting Instr. in
Nursing (N-SF), 979 M
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Forestry (B), 243 Forestry
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- †Zari, Rosalie V. (Mrs. J.), Supervisor of
Junior High School Elementary Education,
Dept. of Education (B), 2 Haviland
r 1218 Seventeenth av, SF22. MO 4-6938
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Products Lab. (B), bldg 478, EFS
r 2109 Sixth st, B2. TH 3-6154
- †Zeff, Margaret G. (Mrs. M. L.), Asst. Direc-
tor, Student Health Service (B), 104 CMH
r 5832 Acacia av, O18. OL 3-5844
- †Zeibak, Alvina H. (Mrs. J. G.), Principal
Dietitian (U-SF), 296 M
r 2167 Thirty-first av, SF. LO 6-2307
- †Zeilenga, Robert H., Clinical Asst. in Medi-
cine (LA)
r 3644 Tuller av, LA34. EX 8-6062
- Zeis, Miss Celena L., Principal Duplicating
Machine Operator, Printing Dept. (B), Univ.
Press r 5433 Lawton av, O9. OL 3-8640
- †Zeisz, Robert C., Lectr. in Crown and Bridge
Prosthesis (Dent-SF), 619 S
r 120 Pacheco st, SF6. GA 1-2652
- †Zeitlin, Marion A., Prof. of Spanish and
Portuguese (LA), 334B RH
r 1318 Holmby av, LA24. GR 3-2411
- †Zeldis, Louis J., Prof. of Pathology (LA),
13-265 MC
r 1002 Franklin st, SM. EX 4-9049
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Citrus Experiment Station (R), 3257 Web
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- †Zettel, Richard M., Lectr. in Transportation
Engineering and Research Economist, Insti-
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ing (B), EFS
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- †Zeuthen, Erik, Assoc. Research Zoölogist (from Jan. 1, 1956) (B), 4079 LSB
- Zibel, Milton J., Clinical Instr. in Obstetrics and Gynecology (M-SF), 3633 California st, SF r 50 Lupine av, SF18. BA 1-3828
- †Zide, Harry A., Asst. Clinical Prof. of Surgery (Urology) (LA)
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- †Ziegler, J. Eugene, Head, Dental Extension, Univ. Ext. (LA), 813 S Hill st
r 3476 Wonderview pl, LA28. HO 5-4449
- Zierer, Clifford M., Prof. of Geography (LA), 81 HH
r 12727 Highwood st, LA49. GR 2-6854
- †Ziff, Edith L., (Mrs. Sheldon), Principal Clerk, Univ. Ext. (LA), 101 5C
r 1111 S Holt av, LA35. CR 1-6466
- †Zimmerman, Kent A., Lectr. in Public Health and Social Welfare (B), 19 Warren and Lectr. in Pediatrics (M-SF), 546 C
r 235 Willamette av, B8. LAnd 6-3146
- †Zimmerman, Leroy H., Assoc. in the Experiment Station, Dept. of Agronomy (D), 218 Hunt r 217 Third st, D. SK 3-2729
- †Zink, Frank W., Jr., Assoc. Specialist, Dept. of Vegetable Crops (D), PO box 98, E Alisal r 359 Sequoia st, Salinas. 2-7542
- †Zinn, John, Assoc. in Chemistry (B), 110 Gilman
r 2215 Dwight way, B4. TH 8-3313
- †Zinna, Giulio, Research Assoc. in Biological Control, Citrus Experiment Station (R), 210A Ent
r 1804 Enterprise st, R. OV 3-5579
- †Zipkin, Nathan D., Accountant II, Controller's Office, Div. of General Accounting (B), 401 Adm
r 148 Highland blvd, B8. LAnd 6-7165
- Zippin, Calvin, Asst. Biostatistician and Lectr. in Biostatistics (Oncology), Cancer Research Institute (M-SF), B04 S
r 736 Alcatraz av, O9. OL 3-8671
- Ziprick, Miss Lottie C., Administrative Asst., Dept. of Pediatrics (LA), 36-140 MC
r 359½ Twenty-first st, SM. EX 5-0638
- Zitcer, Mrs. Elsa M., Principal Lab. Tech. in the Virus Lab. (B), 229 BV Lab
r 1386 Euclid av, B8. AS 3-9305
- †Zivnuska, John A., Assoc. Prof. of Forestry, and Assoc. Forester in the Experiment Station and on the Giannini Foundation (B), 243 Forestry
r 1877 Thousand Oaks blvd, B7. LAnd 6-8559
- †Zizicas, George A., Asst. Prof. of Engineering (LA), TEB 2H
r 828 Idaho av, SM. EX 5-1032
- ▽†Zizzo, James G., Pharmacist, Dept. of Pharmacy (U-SF), 120 C
r 131 Santa Lucia, Lomita Park
- †ZoBell, Claude E., Prof. of Marine Microbiology and Consultant in Epidemiology, Div. of Sanitation (S)
r 2404 Ellentown rd, La Jolla. GL 4-2306
- Zolski, Ambrose J., Supt. of Grounds and Buildings, Engineering Research (B), 175 EFS
r 1944 Eighty-third av, O21. TR 2-4519
- †Zscheile, Frederick P., Jr., Prof. of Agronomy and Biochemist, Experiment Station (D), 111 Hunt r 236 B st, D. SK 3-3601
- †Zukin, Paul, Clinical Instr. in Medicine (LA)
r 471 S Bedford dr, BH. CR 1-1887
- Zulch, Frederick A., Asst. Clinical Prof. of Operative Dentistry (Dent-SF), 450 Sutter st, SF
r 25 Clifford ter, SF17. LO 4-1178
- †Zundell, Joseph L., Asst. Clinical Prof. of Pathology (M-SF), 900 Hyde st, SF
r 270 Seacliff av, SF. SK 1-5118
- †Zweig, Robert M., Assoc. Physician II-B, Student Health Service (R), 125 PE
r 4242 Eileen st, R. OV 4-5060
- Zytowski, Carl B., Asst. Prof. of Music (SB), 201, Bldg 415
r 2005 Alameda Padre Serra, SB. WO 5-6383

OTHER PERSONNEL

For convenience there are listed here the names of other persons who have campus offices

ASSOCIATED STUDENTS

BERKELEY

- †Berdahl, James E., Director, California Band,
Band Room, Eshleman Hall
r 744 Keeler av, B. LAnd 5-8087
- †Briggs, George C., Asst. Director of Inter-
collegiate Athletics, 115 Stephens Union
r 5941 Pinewood rd, O. HU 3-1831
- †Chaney, Zeb D., Asst. Football Coach, 115
Stephens Union
r 1771 Thousand Oaks blvd, B.
LAnd 6-4111
- †Clarke, Charlie F. (Mrs. Dudley R.), Manager,
Stephens Union and Eshleman Hall, 115
Stephens Union
r 916 Mendocino av, B7. LAnd 4-5374
- †Commanday, Robert P., Director, Glee Club
and Treble Clef, 208 Eshleman Hall
r 49 Avon rd, B. LAnd 6-9041
- †Davis, W. H., Athletic Ticket Manager, M-1
Stephens Union
r 400 Yale av, B. LAnd 6-4210
- †Ebright, Carroll M., Head Crew Coach, 115
Stephens Union
r 803 Regal rd, B. LAnd 4-2073
- †Engelhard, Gregory F., Director of General
Activities, 208 Stephens Union
r 28 Robert rd, Orinda. CLifford 4-5754
- †Frederick, Walter F., Director of Publica-
tions, 101 Eshleman Hall
r 160 Stonewall rd, B. AS 3-8136
- †Fry, Wesley L., Asst. Football Coach, 115
Stephens Union
r 22 Maryland av, B. LAnd 5-5070
- †Gallon, Art, Asst. Basketball Coach, 115
Stephens Union
r 1584 Le Roy av, B. TH 5-4846
- †Garrett, Florens (Mrs. William A.), Chief
Accountant, 206 Stephens Union
r 226 Trinity av, B. LAnd 6-8837
- †Grant, Harold, Asst. Football and Track
Coach, 115 Stephens Union
r 1529 Spruce st, B. AS 3-9516
- †Hamilton, Brutus K., Director of Intercol-
legiate Athletics and Head Track Coach,
208 Stephens Union
r 258 Yale av, B. LAnd 6-4676
- †Happoldt, Jack, Manager, A.S.U.C. Store,
M-10 Stephens Union
r 5 Meadowpark ct, Orinda.
CLifford 4-5078
- Hill, Mrs. Mollie, Head, Food Service, Bear's
Lair
r 752 Elm st, EC. LAnd 4-6547
- †Kersey, Robert L., Asst. Director of General
Activities, 301 Stephens Union
r 2572 LeConte av, B9. AS 3-2142
- †Kirwan, Ed, Director, Photography Dept., 4
Eshleman Hall
r 1329 Henry st, B. LAnd 4-4619
- †Lemmon, James, Asst. Crew Coach, 115
Stephens Union
r 6194 Valley View rd, O. HU 3-8338
- †Meister, Herman A., Asst. Football Coach,
115 Stephens Union
r 24 Highland blvd, B. LAnd 4-3718
- †Newell, Peter F., Head Basketball Coach,
115 Stephens Union
r 6272 Chabot rd, O. OL 3-9273
- †Ragan, Alva, Asst. Track Coach, 115
Stephens Union
r 1349 Arch st, B. TH 1-2890
- Rubin, Robert, Director, Athletic News Bu-
reau, 104 Eshleman Hall
r 287 Sheridan rd, O. OL 2-2571
- †Waldorf, Lynn O., Head Football Coach, 115
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r 726 Grizzly Peak blvd, B. LAnd 6-4318
- †Wolfman, George, Head Baseball Coach, 115
Stephens Union
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LOS ANGELES

- †Ackerman, William C., General Manager,
201 KH
r 216 Tigertail rd, LA24. GR 2-3104
- †Ashen, Donald O., Supervisor of Budget Con-
trol and Basketball Coach, 103 KH
r 2056 Hermosa av, Hermosa Beach.
FR 4-6565
- †Baldwin, Mrs. Rowe R., Ticket Manager,
100B KH
r 11356 Berwick st, LA49. GR 3-4227
- †Barnes, William F., End Coach, Athletic
Dept. Bldg
r 3245 Sawtelle blvd, LA34. EX 7-0339
- †Brackett, Herbert B., Asst. Football Coach,
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r 3219 Sawtelle blvd, LA34. EX 7-0329
- †Buckingham, Guy W., Head Custodian, 114
KH
r 1611 Overland av, LA25. GR 3-5496

- †Cullison, Roy C., Manager, Food Services, 4A KH
r 856 Princeton st, SM. EX 5-2145
- †Dickerson, George W., Asst. Football Coach, Athletic Dept. Bldg
r 13830 Runnymede st, Van Nuys. ST 0-6100
- †Dixon, Craig, Asst. Track Coach, Athletic Dept. Bldg
r 11691 Bellagio rd, LA49. GR 2-2260
- †Drake, Elvin C., Head Trainer and Track Coach, 1C MG and Athletic Dept. Bldg
r 1017 Centinela av, SM. EX 4-2113
- †Drury, Joseph N., Cricket Coach, Athletic Dept. Bldg
r 1429 Comstock av, LA24. CR 5-3457
- †Felker, Joseph W., Manager, Receiving Dept., Warehouse, KH
r 1894 Greenfield av, LA25. GR 9-5189
- †Hamilton, Royce L., Principal Accountant, 101 KH
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- †Hunt, M. Briggs, Wrestling and Boxing Coach, Athletic Dept. Bldg
r 4837 Gloria av, Encino. ST 4-1215
- †Johns, Wilbur C., Director of Athletics, Athletic Dept. Bldg
r 559 Euclid av, SM. EX 5-7510
- Johnson, John L., Freshman Football Coach, Athletic Dept. Bldg
r 976 S Westgate, LA49. GR 7-3353
- †Kelley, Victor M., Director, News Bureau, 210 KH
r 15009 Encanto st, Sherman Oaks. ST 4-3865
- †Morgan, J. D., Tennis Coach, Athletic Dept. Bldg
r 2051 W Ninety-ninth st, LA47. PL 4-0640
- †Morris, Harry E., Director of Publications, 201 KH
r 1053 Stone Canyon, LA24. GR 2-8987
- †Myers, James A., Line Coach, Football, Athletic Dept. Bldg
r 3274 Sawtelle blvd, LA34. EX 7-9936
- †Nagel, Ray, Asst. Football Coach, Athletic Dept. Bldg
r 350 S Gramercy pl, LA. DU 3-8782
- †Padgett, Norman C., Rugby Coach, and Asst. to General Manager, 301 KH
r 10807¼ Wilkins, LA. GR 8-8190
- †Putnam, William C., Asst. Director of Athletics, Athletic Dept. Bldg
r 5050 Gaynor av, Encino. ST 9-1023
- †Reel, Stanley A., Purchasing Agent, 206 KH
r 676 Via de la Paz, Pac Pal. GL 4-2263
- †Reichle, Arthur E., Head Baseball Coach, Athletic Dept. Bldg
r 6638 Bothwell rd, Reseda. DI 3-5859
- †Sanders, Henry R., Head Football Coach, Athletic Dept. Bldg
r 10948½ Roebbling av, LA24. GR 8-6911
- †Stanford, T. D., Internal Auditor, 229 KH
r 826 Kenmore, LA. DU 4-5304
- †Stewart, Frank G., Asst. Director of News Bureau and Publications, 210 KH
r 11905 Dorothy, LA49. GR 8-7603
- †Stilwell, Ralph A., Manager, Students' Store, 1 KH
r 434 N Laurel av, LA48. WE 5-4585
- †Troutman, Stanley M., Director of Photography, 203 KH
r 2270 Pelham av, LA24. GR 8-5109
- †Wooden, John R., Head Basketball Coach, Athletic Dept. Bldg
r 160 Beverly Court pl, LA49. GR 3-2536

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r 4336 Modoc rd, SB. WO 2-5437
- Fong, Miss Mary Florence, Bookkeeper, 102, Bldg 477
r 4674 Hollister av, SB. WO 8-3242
- †McCrary, Helen E. (Mrs. Jack E.), Cashier, 102, Bldg 477
r 4515 Auhay dr, SB. WO 5-8294
- †Begg, Margaret (Mrs. Charles W.), Cashier, 102, Bldg 477
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DAVIS

- †Hunt, Laureene (Mrs. Burchard), Manager, Student Store (D), Student Store
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- †King, Burton A., Business Manager, Student Body Office (D), 159-A MU
r 426 A st, D. SK 3-2194
- †Morse, Marie G. (Mrs. Jack W.), Senior Typist-Clerk, (D), Memorial Union
r 721 E Eleventh st, D. SK 3-2179
- †Stuart, Joan R. (Mrs. Edward E.), Secretary, Student Body Office
r Apt D-9, Aggie Villa, D

ALUMNI ASSOCIATIONS

CALIFORNIA ALUMNI ASSOCIATION

OFFICERS

- | | |
|---|--|
| <p>Edwin Harbach, 1925
President
609 S Grand, LA17</p> <p>O. Cort Majors, 1921
Vice-President
% Fibreboard Products, Inc.
1789 Montgomery st, SF</p> <p>Thomas J. MacBride, 1936
Vice-President at Large
519 Forum bldg, Sacramento</p> <p>Mrs. John Mock, 1931
Vice-President at Large
10807 Bellagio rd, LA24</p> <p>Mortimer Smith, 1921
Vice-President at Large
Oakland Title Company
Fifteenth and Franklin, O</p> <p>James H. Corley, 1926
Treasurer
250 Administration bldg, B</p> <p>Stanley E. McCaffrey, 1938
Executive Manager; Editor, California
Monthly, Alumni House
r 172 Alvarado rd, B5. AS 3-3100</p> <p>Mrs. Harriet Albright
Bookkeeper, Alumni House
r 1037 Page st, B. LAnd 5-4932</p> <p>Mrs. Viola Birchland
Administrative Asst., Alumni House
r 1810 Highland pl, B9. AS 3-8263</p> <p>Mrs. Martha Chapman
Receptionist, Alumni House
r 512 Merritt av, apt. 4, O. TW 3-7485</p> | <p>Mrs. Cecilia Christenson
Asst. Accountant, Alumni House
r 1811 Sixth av, O</p> <p>Clifford L. Dochterman, 1950
Field Secretary and Scholarship Director,
Alumni House
r 2158 Stuart st, B. TH 5-4310</p> <p>Mrs. Bernice Irwin
Office Secretary, Alumni House
r 5873 Morpeth st, O18. OL 3-2880</p> <p>Mike J. Koll, 1941
Director of Camping Operations,
Alumni House
r 2626 Claremont av, B5. TH 3-0088</p> <p>Mrs. Jean McNeill
Asst. Accountant, Alumni House
r 863 Portal av, O. TW 3-9881</p> <p>Miss Freda McVeigh
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r 1524 Walnut st, B. AS 3-0593</p> <p>Robert K. Rupert, 1934
Membership Director, Alumni House
r 2836 Ashby av, B5. BE 7-3449W</p> <p>Verne A. Stadtman, 1950
Managing Editor, California Monthly,
Alumni House
r 638 Peralta av, B7. LAnd 5-9645</p> <p>O. D. Watt, 1929
Office Manager, Alumni House
r 125 Kenyon av, B8. LAnd 6-8645</p> <p>Mrs. Joyce West
Secretary, Alumni House
r 1739 Oxford st, apt 7, B9. TH 1-2749</p> |
|---|--|

COUNCIL MEMBERS

- | | |
|--|--|
| <p>William T. Bagley, 1949
245 Market st, SF</p> <p>Mrs. Russell W. Bell, 1918
808 California st, SB</p> <p>Mrs. Joseph Bertino, Jr., 1951
5911 Buena Vista av, O</p> <p>Dr. Henry D. Brainerd, 1936
University of California Medical Center,
SF22</p> <p>Judge A. F. Bray, 1910
422 State bldg, SF2</p> <p>Miss Barbara Brugge, 1943
1322 E Thirty-eighth st, O</p> <p>Mrs. Edward Collins, 1934
2629 Brooks av, Richmond</p> <p>Emery J. Curtice, 1929
Thousand Oaks School, B</p> <p>Louis R. Deadrich, 1924
560 Haberfelde bldg, Bakersfield</p> | <p>Walter C. Dean, 1915
2323 Hearst av, B9</p> <p>Ivor de Kirby, 1938
Pearson Motor Co.
Broadway at Twelfth, San Diego 2</p> <p>Hugo Del Pero, 1930
417 Third st, Marysville</p> <p>Robert H. Gerdes, 1926
245 Market st, SF</p> <p>Wilbur H. Halsey, 1931
PO box 187, Colusa</p> <p>Robert Hamilton, 1956
President, ASUC
Stephens Union, B4</p> <p>Dr. Frederick W. Hebbard, 1949
School of Optometry, B4</p> <p>Mervin F. LaFaille, 1946
100 Hermosa av, O</p> <p>John R. Mage, 1921
609 S Grand av, LA17</p> |
|--|--|

William Meux, 1935
605 Security Bank bldg, Fresno

Harvey C. Miller, 1929
First National Bank bldg, San Jose

Kendric B. Morrish, 1928
American Trust Company
1401 Broadway, O

Ralph Moss, 1929
Box 51, Dixon

Albert D. Nelson, 1942
479 La Prenda Road, Los Altos

Justice Raymond E. Peters, 1925
State bldg, SF

William L. Rawn, Jr., 1942
238 S Mission rd, LA23

J. Harold Robinson, 1926
PO box 63, Willits

Harold S. Rose, 1930
26 Danbury st, O

Mrs. Van W. Rosendahl, 1931
68 Lincoln av, P

Henry Schacht, 1936
871 Keeler av, B

Herman F. Selvin, 1924
610 Pacific Mutual bldg, LA14

Judge Daniel R. Shoemaker, 1928
City Hall, SF2

Paul R. Snyder, 1940
730 Cherry st, Paso Robles

Judge Redmond C. Staats, Jr., 1933
City Hall, B4

Dr. George E. Steninger, 1925
490 Post st, SF

Richard L. Swing, 1937
414 Court st, San Bernardino

John P. Symes, 1921
490 California st, SF4

George C. Tenney, 1920
68 Post st, SF

Albert G. Volz, 1929
PO box 1411, Modesto

Edwin D. Witter, 1922
Rt 3, box 1162, Sacramento

UCLA ALUMNI ASSOCIATION

OFFICERS

Cyril C. Nigg, 1927
President
r 500 S Muirfield rd, LA5. WE 6-7456

Mrs. Virginia W. Molony, 1931
Vice-President
r 1314 Comstock av, LA24. CR 6-8872

Ralph A. Stilwell, 1928
Treasurer
r 434 N Laurel av, LA48. WA 5-4585

Harry J. Longway, 1949
Executive-Secretary
308 Kerckhoff Hall
r 1252 S Beverly Glen blvd, LA24.
CR 4-1491

William H. Durkee, 1952
Field Secretary and Managing Editor,
UCLA Alumni Magazine
308 Kerckhoff Hall
r 2762 Woodshire dr, LA28. HO 9-4564

Miss Zella Marie von Boenigk, 1948
Financial Secretary
308 Kerckhoff Hall
r 449½ S Rexford dr, BH. CR 5-6506

Mrs. Patricia Carr, 1955
Stenographer
308 Kerckhoff Hall
r 500 Beloit av, LA49. GR 2-1534

Mrs. Phyllis Kauffman, 1955
Secretarial Asst.
308 Kerckhoff Hall
r 1554 Woodruff av, LA24

Mrs. Jacque Bustetter
Secretarial Asst.
308 Kerckhoff Hall
r 1938 Holmby av, LA25. GR 9-5521

Mrs. Renée Stanton
Secretarial Asst.
308 Kerckhoff Hall
r 1542½ Greenfield av, LA25. GR 9-8729

EXECUTIVE COUNCIL

David Alpert, 1948
r 12537 Cantara st, N Hollywood.
POplar 5-0431

Robert E. Alshuler, 1942
r 4242 Saugus, Sherman Oaks. ST 4-0669

William Brainerd, 1935
r 1250 Kenilworth, San Marino.
RY 1-9815

Mrs. Mabel Ross Crosby, 1930
r 328 S Craig st, Pas. SY 6-7021

James P. Devere, 1941
r 1938 W Twenty-fifth st, LA18.
RE 2-1154

Irv Drasnin, 1956
r 1027 S Crescent Heights, LA35.
WY 8583

Leo L. Epstein, 1934
r 2635 Veteran av, LA64. GR 3-3435

Mrs. Jacqueline Harker, 1946
r 5035 Odessa av, Encino. ST 9-0163

Joseph Kaplan
r 1732 Kelton av, LA24. GR 3-8839

Robert B. Landis, 1939
r 110 S Norton av, LA4. HO 3-9336

Lionel LeBel, Jr., 1947
r 3267 Sepulveda, apt 1, LA34.
EX 8-4076

Charles McLaughlin, 1947
r 1434 Graynold, Glen2. CL 1-8729

Miss Margie Morrison, 1943
r 129 N st, Andrew's pl, LA4. HO 3-0548

Joe O'Connor, 1935
r 6942 Firmament, Van N. ST 5-9946

Averill Pasarow, 1937
r 11149 Valley Spring lane, N Holly.
ST 7-8504

Mrs. Andrita S. Wescott, 1936
r 441 N Kenter av, LA49. GR 2-1823

Lewis J. Whitney, Jr., 1932
r 155 S Plymouth, LA4. WE 5-1972

Mrs. Dorothy Winans, 1947
r 17742 Rayen st, Northridge

CALIFORNIA AGGIE ALUMNI ASSOCIATION, DAVIS

OFFICERS

Ralph H. Moss, 1927
President
PO box 51, Dixon
Therold W. Fielder, 1939
Vice-President
PO box 656, Dixon

Howard B. Shontz, 1941
Secretary
41 Parkside dr, Davis
Joseph M. Ogawa, 1950
Treasurer
418 J st, Davis

DIRECTORS AT LARGE—1955—1956

James H. Balsdon, 1952
PO box 4, Grimes
John G. Kelley, 1932
1221 Spring, Santa Rosa
Robert J. Emerson, 1939
PO box 388, Willows
Frederick L. Griffin
215 Rice lane, Davis

Lindsay M. Jewett, 1932
6511 E Seventh st, Long Beach
Carl W. Muller, 1925
Rt 1, box 196, Denair
Robert W. Munyon, 1940
120 W Belle Vue, San Mateo
John D. Prato, 1952
PO box 352, Colusa

DIRECTORS AT LARGE—1955—1957

Ben V. Lundburg, 1951
5718 Yearling av, Lake Wood 11
Karl E. Schneider, 1938
1014 Josephine av, Corcoran
G. Allan Sherman, 1942
1040 Spring Meadow, Covina

Frank E. Spafford, 1953
605 E Tenth st, Davis
Clark Swanson, 1938
Rt 2, box 907, Escalon
Marshall R. Wanzer, 1951
Edgewood Orchards, Farmersville

EX OFFICIO

George E. Murphy, 1925
Rt 1, box 184, Denair
William J. Clawson
President, Senior Class

Kendal P. Svedeen
President, ASUCD, Davis

UCR ALUMNI ASSOCIATION

OFFICERS

James St. Clair, 1955
Acting Secretary

r 583 Colusa av, B

COUNCIL MEMBERS

Walter Charles Barton, 1955
r 3852 Locust st, R

Eugene A. Cardiff, 1955
r 2736 Court st, Rialto

Miss Lorraine Eyer, 1955
r 772 N Third av, Upland

Ernest F. Garcia, 1955
r 10371 Magnolia, Bloomington

Eugene F. Garner, 1955
r 3849 Oakley av, R

David G. Halliburton, 1955
r 4075 Lemon st, R

Miss Beverly J. Heidanus, 1955
r 248 W First st, Perris

Miss Mary Holt, 1955
r 245 E Thirty-fourth st, S Bern

William C. Kassell, 1955
r 810 Church st, Redlands

Miss Betty McIntosh, 1955
r 1527 W Ninth st, Pomona

- Mrs. Mary Melansen, 1955
r 1339 Fifteenth st, S Bern
- Mrs. Barbara Montroy, 1955
r 368 East B st, Colton
- Miss Marcia Melburg, 1955
r 4300 Glenwood dr, R
- Byron Patterson, 1955
r 1040 Belleview, S Bern
- Mrs. Sharon Patteson, 1955
r 1533 Noble st, Fairbanks, Alaska
- Miss Janet Ranger, 1955
r % H. Avery, Harper Star rt,
Kerrville, Tex.
- Miss Fern Thomson, 1955
r 4207 Seventh st, R
- Mrs. Shirley Wright, 1955
r 3140 Harrison st, S Bern
- Charles Young, 1955
r 584 East F st, Colton



UNIVERSITY OF CALIFORNIA

STATISTICAL ADDENDA

1955-1956

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

1955-56

SUMMARY OF STUDENTS

SUMMARY OF OFFICERS

SUMMARY OF DEGREES CONFERRED

Compiled by

THE REGISTRAR

BERKELEY

NOTE.—In the enumeration of students, each student who was registered at any time during the period covered by the report is counted as one student and is classified according to his latest status.

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, 1955-56

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:	27		68							95
Prebusiness Administration	0	27	1	69						1
Precriminology	4		6							10
Precriminology	0	4	2	8						2
Predentistry	4		31							35
Predentistry	2	6	2	33						4
Premedicine	22		110							132
Premedicine	5	27	23	133						28
Prenursing	0		0							0
Prenursing	3	3	7	7						10
Preoptometry	1		11							12
Preoptometry	0	1	0	11						0
Prepublic Health	0		1							1
Prepublic Health	0	0	0	1						0
School of Medicine*	40									40
School of Medicine*	6	46								6
Others	1,117		1,027		1,445		1,067		150	4,806
Others	915	2,032	1,013	2,040	1,238	2,683	1,312	2,379	44	194
Others	1,215		1,254		1,445		1,067		150	5,131
Totals, Letters and Science	931	2,146	1,048	2,302	1,238	2,683	1,312	2,379	44	194
Totals, Letters and Science	56		46		52		40		8	202
Agriculture	41	97	47	93	46	98	39	79	3	11
Agriculture	126		118		115		109		10	478
Architecture†	6	132	14	132	10	125	4	113	2	12
Architecture†	411		376							787
Business Administration†	30	441	40	416						70
Business Administration†	90		94		65		125		2	376
Chemistry	6	96	2	96	9	74	7	132	0	2
Chemistry	63		55							118
Criminology†	18	81	9	64						27
Criminology†	3		4		1		1		1	10
Engineering:	0	3	0	4	0	1	0	1	0	1
Agricultural	143		127		78		60		5	413
Civil	1	144	0	127	1	79	1	61	0	5
Civil	201		254		143		187		9	774
Electrical	2	203	0	254	1	144	2	169	0	9
Electrical	13		17		13		24		1	68
Engineering Physics	0	13	0	17	0	13	1	25	0	1
Engineering Physics	3		3		1		1			8
Geological	0	3	0	3	0	1	0	1		0
Geological										0

* Candidates both for professional and academic degrees.

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, 1955-56

TABLE I—Continued

A: Registered at Berkeley—Continued

UNDERGRADUATE STUDENTS

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Specials		Total Undergrad.	
	28		36		19		9		1		93	
Industrial.....	0	28	0	36	0	19	0	9	0	1	0	93
	140		173		93		84		5		495	
Mechanical.....	0	140	0	173	0	93	1	85	0	5	1	496
	13		12		3		3		...		31	
Metallurgy.....	1	14	0	12	0	3	0	3	...		1	32
	8		5		5		7		2		27	
Mining.....	0	8	0	5	0	5	1	8	0	2	1	28
	13		14		5		6		...		38	
Petroleum.....	0	13	0	14	0	5	0	6	...		0	38
	5		3		1		1		...		10	
Process.....	1	6	0	3	0	1	0	1	...		1	11
	570		648		382		383		24		1,967	
Totals, Engineering.....	5	575	0	648	2	364	6	369	0	24	13	1,980
	30		36						...		66	
Forestry†.....	0	30	0	36					...		0	66
	0		0						...		0	
Nursing†.....	47	47	22	22					...		69	69
	25		23						...		48	
Optometry†.....	1	26	1	24					...		2	50
	4		21		46		4		...		75	
Pharmacy†.....	1	5	2	23	8	54	1	5	...		12	87
	22		23						...		45	
Public Health†.....	24	46	31	54					...		55	100
	2,612		2,694		2,085		1,708		194		9,293	
TOTALS	1,110	3,722	1,216	3,910	1,313	3,398	1,369	3,077	49	243	5,057	14,350

The above total, 14,350 (9,293M + 5,057W) does not include 103 (68M + 35W) graduate students who received their degrees as undergraduates during the year 1955-56.

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, deducting 514 (478M + 36W) students in the College of Architecture, 857 (787M + 70W) in the School of Business Administration, 145 (118M + 27W) in the School of Criminology, 66 M in the School of Forestry, 69W in the School of Nursing, 50 (48M + 2W) in the School of Optometry, 87 (75M + 12W) in the College of Pharmacy, and 100 (45M + 55W) in the School of Public Health..... 4,786 12,462

GRADUATE STUDENTS

Graduate students, academic departments (see also Table V-A)..... 2,833
TOTAL GRADUATES AND UNDERGRADUATES in the regular sessions at Berkeley† (academic departments only)..... 5,435 15,744

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

‡ Including graduate students in attendance at other points. (See Table V-A)

SUMMARY OF STUDENTS, 1955-56

TABLE I—Continued

B: Registered at Davis

UNDERGRADUATE STUDENTS

School or College	4th year		3d year		2d year		1st year		Specials		Total Undergrad.	
	163		177		149		239		21		749	
Agriculture	31	194	30	207	55	204	138	377	3	24	257	1,006
	23		28		21		46		3		121	
Letters and Science	26	49	39	67	57	78	99	145	3	6	224	345
	58		163		...		...		...		221	
2-Year Curricula	3		61		24		187		...		27	
	38		32		...		...		...		68	
Veterinary Medicine†	2	38	1	33	...		...		...		3	71
	222		237		228		448		24		1,159	
TOTALS	59	281	70	307	115	343	281	709	6	30	511	1,670

TOTAL UNDERGRADUATE STUDENTS, deducting 9 (7M + 2W) for graduate students who received their degrees as undergraduates during the year 1955-56. 1,152
509 1,861

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Davis, deducting 71 (68M + 3W) students in the School of Veterinary Medicine. 1,084
506 1,590

GRADUATE STUDENTS

291

Graduate students, academic departments at Davis (see also Table V-B)..... 37 329

TOTAL GRADUATES AND UNDERGRADUATES in the regular sessions at Davis (academic departments only). 1,375
543 1,918

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, 1955-56

TABLE I—Continued
C: Registered at Los Angeles
UNDERGRADUATE STUDENTS

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Total Undergrad.	
Applied Arts	299		311		196		110		916	
	364	663	447	758	444	640	452	562	1,707	2,623
	1,041		1,293		1,125		1,039		4,498	
Letters and Science	797	1,838	875	2,168	740	1,865	858	1,897	3,270	7,768
	8		11		16		10		45	
Agriculture	0	8	2	13	2	18	2	12	6	51
	484		599						1,083	
Business Administration†	15	499	25	624					40	1,123
	279		446		190		237		1,152	
Engineering	2	281	4	450	2	192	1	238	9	1,161
	13								13	
Medicine†	4	17							4	17
	0		0						0	
Nursing†	61	61	70	70					131	131
	3		6		9		0		18	
Pharmacy†	0	3	0	6	3	12	0	0	3	21
	16		14						30	
Public Health†	0	16	2	16					2	32
	2,143		2,680		1,538		1,396		7,755	
TOTALS	1,243	3,369	1,425	4,105	1,191	2,727	1,313	2,709	5,172	12,927

Special Students	243		18	261
TOTAL UNDERGRADUATE STUDENTS, deducting 140 (99M + 41W) for graduates who received their degrees as undergraduates during the year 1955-56	7,899		5,149	13,048
TOTAL UNDERGRADUATE STUDENTS in the academic departments at Los Angeles deducting 1,123 (1,083M + 40W) in the School of Business Administration, 17 (13M + 4W) in the School of Medicine, 131W in the School of Nursing, 21 (18M + 3W) in the College of Pharmacy, and 32 (30M + 2W) in the School of Public Health	6,755		4,969	11,724

GRADUATE STUDENTS

Regular Graduate Students, academic departments (see also Table V-C)	1,947		496	2,443
Unclassified Graduate Students	641		285	926
Total Graduate Students, academic departments	2,588		781	3,369
TOTAL GRADUATES AND UNDERGRADUATES in the regular sessions at Los Angeles* (academic departments only)	9,343		5,750	15,093

* Including graduate students in attendance at other points. (See Table V-C)

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, 1955-56

**TABLE I—Concluded
D: Registered at Riverside
UNDERGRADUATE STUDENTS**

College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Specials		Total Undergrad.	
Letters and Science.....	77		137		119		151		15		499	
	37	114	50	187	80	199	81	234	5	20	253	752

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Riverside..... 499
253 752

GRADUATE STUDENTS

Graduate students, academic departments (see also Tables V-A and V-C)..... 6
2 8

TOTAL GRADUATES AND UNDERGRADUATES at Riverside, academic departments only..... 505
255 760

E: Registered at Santa Barbara

	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Specials		Total Undergrad.	
Undergraduates*.....	281		294		205		251		2		1,013	
	187	448	201	495	225	430	527	778	3	5	1,143	2,156

TOTAL UNDERGRADUATE STUDENTS* in the academic departments at Santa Barbara, deducting 18
(16M + 2W) for graduate students who received their degrees as undergraduates during the year 1955-56 997
1,141 2,138

Graduate students, academic departments (see also Table V-E)..... 77
41 118

TOTAL GRADUATES AND UNDERGRADUATES at Santa Barbara, academic departments only..... 1,074
1,182 2,256

NET TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, deducting 2M
undergraduates registered at Berkeley but in attendance at Davis and 8 (6M + 2W) graduates registered 22,596
at Berkeley and Los Angeles but in attendance at Riverside..... 13,163 35,761

* Including certain students who are candidates both for academic degrees and teaching credentials. (See Table III)

SUMMARY OF STUDENTS, 1955-56

TABLE II
STUDENTS REGISTERED IN 1955 SUMMER SESSIONS

Berkeley

	3,858	
First Summer Session	2,075	5,933
	26	
Eight-Week Summer Session	0	26
	2,335	
Second Summer Session	685	3,020
	4,881	
NET TOTAL, deducting 1,710 (1,358M + 352W) students registered in more than one Summer Session ..	2,408	7,269

Davis

	38	
First Summer Session	0	38
	75	
Special Summer Session	30	105
	35	
Second Summer Session	1	36
	121	
NET TOTAL, deducting 28 (27M + 1W) students registered in more than one Summer Session	30	151

Los Angeles

	(Included in Six-Week)	
Special Engineering, First Session	2,055	
Six-Week Summer Session	1,625	3,680
	1,193	
Eight-Week Summer Session	925	2,118
	162	
Special Engineering, Second Session	0	162
	3,290	
NET TOTAL, deducting 120M students registered in more than one Summer Session	2,550	5,840

San Francisco

Hastings College of the Law:	28	
Summer Session	3	31
Medical Center:	143	
First Summer Session	5	148
	202	
Summer Term	179	381
	12	
Second Summer Session	3	15
NET TOTAL, Medical Center, deducting 43 (37M + 6W) students registered in more than one Summer Session	348	
	184	532
	376	
NET TOTAL, San Francisco	187	563

Santa Barbara

	246	
Summer Session	338	582
	8,894	
NET TOTAL STUDENTS IN 1955 SUMMER SESSIONS	5,511	14,405

SUMMARY OF STUDENTS
STUDENTS IN PROFESSIONAL

Regular

School or College	5th year	
ARCHITECTURE, College of	31	
Berkeley	3	34
BUSINESS ADMINISTRATION, Schools of		
Berkeley		
Los Angeles		
BUSINESS ADMINISTRATION, Graduate Schools of		
Berkeley		
Los Angeles		
CRIMINOLOGY, School of		
Berkeley		
DENTISTRY, College of		
Berkeley		
San Francisco:		
D.D.S. Curriculum		
M.D.S. Curriculum		
Curriculum in Dental Hygiene		
Postgraduates		
Totals, San Francisco		
EDUCATION		
Berkeley, School of		
Davis, School of		
Los Angeles, School of		
Santa Barbara:		
Teacher Training Curricula		
FORESTRY, School of		
Berkeley		
LAW		
Berkeley, School of	2	
Los Angeles, School of	0	2
San Francisco		
Hastings College of the Law		
LIBRARIANSHIP, School of		
Berkeley		
MEDICINE		
Berkeley, M.D. Curriculum		
Los Angeles, M.D. Curriculum		
San Francisco		
M.D. Curriculum		

1955-56—TABLE III
SCHOOLS AND COLLEGES

Sessions

4th year		3d year		2d year		1st year		Specials		Totals	
128		118		115		109		10		509	
8	132	14	132	10	125	4	113	2	12	39	548
				445		341		...	...	787	
				37	482	33	374	...	...	70	857
				484		599		...	...	1,063	
				15	499	25	624	...	...	40	1,123
						186		...	...	186	
						13	199	...	...	13	199
						141		...	...	141	
						11	152	...	...	11	152
		19		66		52		...	...	137	
		2	21	19	85	8	60	...	...	29	168
								...	...	1	
								...	...	0	1
53		59		86		78		...	...	256	
1	54	0	59	0	66	0	78	...	...	1	257
								...	...	3	
								...	...	0	3
				0		0		...	...	0	
				16	16	19	19	...	...	35	35
								...	...	7	
								...	...	2	9
								...	...	266	
								...	...	38	304
								...	...	355	
								...	...	323	678
								...	...	1	
								...	...	0	1
								...	...	85	
								...	...	25	110*
110		131		67		43		22		373	
143	283	153	284	135	202	282	325	16	38	729	1,102
		4		34		32		...	...	70	
		0	4	0	34	0	32	...	...	0	70
5		75		86		138		...	...	306	
0	5	7	82	3	89	5	143	...	...	15	321
		...		...		...		...	...	365	
		...		...		...		...	...	17	382
2		66		113		228		1		409	
0	2	4	70	6	119	11	239	0	1	22	431
		2		9		21		...	...	32	
		0	2	7	16	36	57	...	...	43	75
						67		...	...	67	
						9	76	...	...	9	76
...		...		...		...		...	...	154	
...		...		...		...		...	...	12	166
78		72		77		...		...	...	225	
3	79	4	78	3	80	...		...	...	10	235

* Candidates for M.Ed. and Ed.D. Figures for candidates for credentials only are not available.

SUMMARY OF STUDENTS

School or College	5th year
Curriculum in Exfoliative Cytology	
Curriculum in Medical Technology	
Curriculum in Physical Therapy	
Curriculum in X-Ray Technique	
Curriculum in Medical Illustration	
Postdoctoral Training	
Totals, MEDICINE, San Francisco	
NURSING, Schools of	
Berkeley	
Los Angeles	
San Francisco:	
Curriculum in Nursing	
Curriculum in Nursing Education	
Curriculum in Public Health Nursing	
Totals, San Francisco	
OPTOMETRY, School of	
Berkeley	
PHARMACY, College of	
Berkeley	
Los Angeles	
San Francisco	
PHARMACY, School of	
San Francisco	
PUBLIC HEALTH, Schools of	
Berkeley	
Los Angeles	
SOCIAL WELFARE, Schools of	
Berkeley	
Los Angeles	
VETERINARY MEDICINE, School of	
Davis	

TOTAL STUDENTS IN THE PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY

1955-56—TABLE III—Concluded

4th year		3d year		2d year		1st year		Speciale		Totale	
						3		0		3	
						3	6	1	1	4	7
						3		...		3	
						8	11	...	...	8	11
						5		...		5	
						23	28	...	...	23	28
						0		...		0	
						5	5	...	...	5	5
						0		...		0	
						1	1	...	...	1	1
								205		205	
								14	219	14	219
								...	...	441	
								...	...	65	606
0		0		0		0		...		0	
11	11	47	47	11	11	1	1	...	...	70	70
...		...		...		...		...		0	
...	...	...	...	...	...	...	...	...	...	162	162
		0		0		0		...		0	
		44	44	82	82	87	87	...	...	213	213
0								...		0	
5	5							...	...	5	5
0								...		0	
9	9							...	...	9	9
								...		0	
								...	...	227	227
		17		19		29		...		65	
		1	18	0	19	2	31	...	...	3	68
						75		...		75	
						12	87	...	...	12	87
						18		...		18	
						3	21	...	...	3	21
75		45		61		2		0		183	
4	79	9	54	8	69	0	2	1	1	22	205
11		3		5		12		...		31	
0	11	0	3	1	6	0	12	...	...	1	32
7		78		19		28		...		128	
4	11	24	100	25	44	30	56	...	...	83	211
		...		...		...		...		32	
		...	...	...	...	...	...	...	...	3	35
				26		27		...		53	
				67	93	66	93	...	...	133	186
				...		...		...		16	
				...	...	...	...	...	...	28	44
51		41		48		50		...		190	
0	51	2	43	3	51	2	52	...	...	7	197

6,559
2,244 8,803

SUMMARY OF STUDENTS, 1955-56

TABLE IV

SUMMARY OF STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS

Regular Sessions

TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY.....	22,588	
	13,163	35,761
TOTAL STUDENTS IN THE PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY.....	6,559	
	2,244	8,803
Deduct:		
Undergraduate students in the academic departments at Berkeley (College of Letters and Science) registered also in the:		
School of Medicine (See Tables I-A and III).....	40	
	6	46
Graduate students in the academic departments at Berkeley registered also in the:		
Graduate School of Business Administration*.....	1	
	0	1
	71	
School of Education*.....	26	97
	3	
College of Dentistry*.....	0	3
	2	
School of Law*.....	0	2
	1	
School of Librarianship*.....	1	2
Graduate students who are enrolled in the College of Architecture (professional) and the academic major in Architecture.....	30	
	3	33
Students in the academic departments at Santa Barbara registered also in the:		
Teacher Training Curricula (See Tables I-E and III).....	373	
	729	1,102
		521
Total deductions.....	765	1,286
NET TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY, regular sessions only.....	28,636	
	14,642	43,278

* See Tables III and V-A.

SUMMARY OF STUDENTS, 1955-56

TABLE V

GRADUATE STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS REGISTERED IN REGULAR SESSIONS

A: Registered at Berkeley

Note: All students were in residence at Berkeley unless otherwise indicated.

Agriculture:	8				1
Agricultural Chemistry.....	0	8	Bioradiology.....	0	1
	23			25	
Agricultural Economics.....	2	25	Botany.....	6	31
	48		Business Administration,	185	
Entomology.....	1	49	Graduate School of.....	13	198
	7			29	
Food Science.....	2	9	Chemical Engineering.....	0	29
	8			120	
Forestry (academic).....	0	8	Chemistry.....	15	135
	0			2	
Home Economics.....	17	17	Child Development.....	10	12
	5			32	
Landscape Architecture.....	1	6	City and Regional Planning.....	5	37
	9			9	
Parasitology.....	2	11	Classics.....	2	11
Plant Pathology:	13			6	
Berkeley.....	1	14	Comparative Biochemistry.....	0	6
	3			2	
Riverside.....	0	3	Comparative Literature.....	3	5
	8		Comparative Pharmacology and Toxicology:	1	
Plant Physiology.....	1	9	Berkeley.....	1	2
	23			3	
Soil Science.....	2	25	San Francisco, Medical Departments...	1	4
	155			1	
Totals, Agriculture.....	29	184	Comparative Physiology.....	1	2
	7			2	
Anatomy.....	3	10	Criminology.....	1	3
	33			19	
Anthropology.....	16	49	Criminology, School of.....	2	21
	7			2	
Applied Mathematics.....	0	7	Decorative Art.....	6	8
	30			1	
Architecture.....	3	33	Dentistry, College of, Berkeley.....	0	1
	31			3	
Architecture, College of.....	3	34	Dentistry, San Francisco.....	0	3
	24			3	
Art.....	18	42	East Asiatic Studies.....	1	4
	21			110	
Astronomy.....	0	21	Economics.....	15	125
	16			130	
Bacteriology.....	4	20	Education.....	95	225
	46			355	
Biochemistry.....	12	58	Education, School of.....	323	678
	23			3	
Biophysics.....	1	24	Endocrinology.....	1	4

SUMMARY OF STUDENTS, 1955-56

TABLE V-A—Continued

Engineering:	8			13	
Ceramic.....	0	5	International Relations.....	1	14
	63			3	
Civil.....	0	63	Italian.....	4	7
	93			16	
Electrical.....	0	93	Journalism.....	7	23
	4			304	
Industrial.....	0	4	Law, School of.....	15	319
	8			2	
Irrigation.....	0	8	Librarianship.....	3	5
	55			31	
Mechanical.....	0	55	Librarianship, School of.....	42	73
	11			13	
Metallurgy.....	0	11	Linguistics.....	5	15
	3			82	
Mining.....	0	3	Mathematics.....	9	91
	5			2	
Petroleum.....	0	5	Medical Physics.....	0	2
	1			27	
Process.....	0	1	Medicine, School of (1st year).....	3	30
	18			3	
Sanitary.....	1	19	Microbiology.....	4	7
	25			32	
Transportation.....	0	25	Music.....	15	47
	291			0	
Totals, Engineering.....	1	292	Nursing.....	11	11
	23			0	
Engineering Science.....	0	23	Nursing, School of.....	1	1
	129			5	
English.....	55	184	Nutrition.....	12	17
	4			17	
Forestry, School of.....	0	4	Optometry, School of.....	1	15
	13			11	
French.....	15	28	Oriental Languages.....	2	13
	16			30	
Genetics.....	2	18	Paleontology.....	2	33
	19			1	
Geography.....	3	22	Pathology.....	0	1
	44		Pharmaceutical Chemistry:	2	
Geology.....	3	47	Berkeley.....	0	2
	9			11	
Geophysics.....	0	9	San Francisco, College of Pharmacy.....	1	13
	21		Pharmacology:	2	
German.....	8	29	San Francisco, Medical Departments.....	0	3
	1			0	
Greek.....	0	1	San Francisco, College of Pharmacy.....	1	1
	192			42	
History.....	34	228	Philosophy.....	9	51
	6			8	
History of Art.....	8	14	Physical Education.....	5	13
	0			213	
Hospital Dietetics, Curriculum In.....	1	1	Physics.....	8	221

SUMMARY OF STUDENTS, 1955-56

TABLE V-A—Continued

	13				2	
Physiological Chemistry	3	16	Romance Philology	1	3	
	3			2		
Physiological Optics	0	3	Scandinavian	1	3	
	23			14		
Physiology	4	27	Slavic Languages and Literature	6	20	
	150			6		
Political Science	20	170	Slavic Studies	1	7	
	2			2		
Predentistry	0	2	Social Welfare	1	3	
	23			53		
Premedicine	5	28	Social Welfare, School of	133	186	
	0			58		
Prepharmacy	1	1	Sociology and Social Institutions	31	89	
	76			11		
Psychology	36	112	Spanish	8	19	
	0			0		
Public Health	1	1	Speech	1	1	
	83			26		
Public Health, School of	28	111	Statistics	6	32	
	2			1		
Range Management	0	2	Vegetable Crops	0	1	
	3			79		
Romance Languages and Literature	0	3	Zoology	26	105	
	22					
Romance Literature	15	37				

DOUBLE MAJORS

	1				1	
Anthropology, Librarianship, School of	0	1	Law, School of, Political Science	0	1	
	1			1		
Biophysics, Zoology	0	1	Mathematics, Chemistry	0	1	
Business Administration, Grad.	1			3		
School of, Mathematics	0	1	Philosophy, Political Science	0	3	
	0			1		
Child Development, Psychology	1	1	Premedicine, Education	0	1	
	1			1		
Economics, Law, School of	0	1	Psychology, Philosophy	0	1	
	0			1		
Geography, City and Regional Planning	1	1	Slavic Studies, Electrical Engineering	0	1	
Home Economics, Hospital Dietetics,	0			1		
Curriculum in	1	1	Statistics, Genetics	0	1	
	0			1		
Librarianship, School of, Economics	1	1	Zoology, Entomology	0	1	

TOTAL GRADUATE STUDENTS REGISTERED AT BERKELEY (including students in attendance at other points) deducting 97 (71M + 26W) students who are shown both in a professional school or college and in an academic major, and 33 (30M + 3W) who are shown in the College of Architecture and the major in Architecture. 3,642
1,184 4,826

SUMMARY OF STUDENTS, 1955-56

TABLE V-A—Concluded

The students enumerated above were in residence as follows:

	3,620			11	
Berkeley.....	1,181	4,801	College of Pharmacy.....	2	13
	3			5	
Riverside.....	0	3	Medical Departments.....	1	6
San Francisco:	3			3,642	
College of Dentistry.....	0	3	TOTALS.....	1,184	4,826

B: Registered at Davis

	16			15	
Agricultural Chemistry.....	1	17	Genetics.....	1	16
	0			0	
Agricultural Economics.....	1	1	Home Economics.....	1	1
	1			8	
Agricultural Education.....	0	1	Horticulture.....	0	8
	8			4	
Agricultural Engineering.....	0	8	Irrigation.....	1	5
	10			1	
Agronomy.....	0	10	Landscape Management.....	0	1
	11			3	
Animal Husbandry.....	0	11	Mathematics.....	0	3
	1			21	
Biophysics.....	0	1	Microbiology.....	3	24
	5			7	
Botany.....	1	6	Nutrition.....	0	7
	9			19	
Chemistry.....	0	9	Plant Pathology.....	2	21
	0			28	
Comparative Biochemistry.....	1	1	Plant Physiology.....	0	28
	12			1	
Comparative Pathology.....	0	12	Pre dentistry.....	0	1
	10			4	
Comparative Physiology.....	0	10	Poultry Science.....	1	5
	26			7	
Education.....	18	44	Preveterinary Medicine.....	0	7
	1			7	
Education, School of.....	0	1	Soil Science.....	0	7
	1			5	
Endocrinology.....	0	1	Vegetable Crops.....	0	5
	0			122	
English.....	1	1	Veterinary Medicine, School of.....	4	126
	19			9	
Entomology.....	0	19	Zoology.....	2	11
	23				
Food Science.....	3	26			
TOTAL GRADUATE STUDENTS REGISTERED AT DAVIS.....				414	455
				41	

SUMMARY OF STUDENTS, 1955-56

TABLE V

C: Registered at Los Angeles

	1,947			0	
Regular	496	2,443	School of Nursing	21	21
	141			2	
School of Business Administration	11	152	School of Public Health	1	3
	85			18	
School of Education	25	110	School of Social Welfare	28	44
	365			841	
School of Law	17	382	Unclassified	285	926
	141				
School of Medicine	8	149			
TOTAL GRADUATE STUDENTS REGISTERED AT LOS ANGELES (including students in attendance at other points)				3,338	4,230
				892	

The students enumerated above were in residence as follows:

	3,303			3	
Los Angeles	889	4,192	Riverside	2	5
	32			3,338	
La Jolla	1	33	TOTALS	892	4,230

D: Registered at Riverside

	1			0	
Botanical Science	0	1	Mathematics	1	1
	2			3	
Horticulture	1	3	Plant Pathology	0	3
				6	
TOTAL GRADUATE STUDENTS REGISTERED AT RIVERSIDE				2	8

SUMMARY OF STUDENTS, 1955-56

TABLE VI

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

Regular Sessions

(Students enumerated in Tables I, III, IV, and V)

At Berkeley:		9,293	
Undergraduate Students*	5,057		14,350
	3,642		
Graduate Students	1,184		4,828
	12,935		
TOTAL GRADUATES AND UNDERGRADUATES, BERKELEY	6,241		19,178
At Davis:		1,152	
Undergraduate Students*	509		1,661
	414		
Graduate Students	41		455
	1,566		
TOTAL GRADUATES AND UNDERGRADUATES, DAVIS	550		2,116
At La Jolla:		32	
Scripps Institute of Oceanography	1		33
At Los Angeles:		7,899	
Undergraduate Students*	5,149		13,048
	3,338		
Graduate Students	892		4,230
	11,237		
TOTAL GRADUATES AND UNDERGRADUATES, LOS ANGELES	6,041		17,278
At Mount Hamilton:		0	
Lick Astronomical Department	0		0
At Riverside:		499	
Undergraduate Students*	253		752
	6		
Graduate Students	2		8
	505		
TOTAL GRADUATES AND UNDERGRADUATES, RIVERSIDE	255		760
At San Francisco:		409	
Hastings College of the Law	22		431
Medical Center:			
College of Dentistry:		3	
Academic Curricula	0		3
	258		
Professional Curricula	38		292
	7		
Postgraduates	2		9
	268		
Totals, College of Dentistry	38		304

* Not including graduate (or postgraduate) students who received their degrees as undergraduates during the year 1955-56. The number of such students was as follows: Berkeley, 103 (68M + 35W); Davis, 9 (7M + 2W); Los Angeles, 140 (99M + 41W); Santa Barbara, 18 (16M + 2W).

SUMMARY OF STUDENTS, 1955-56

TABLE VI—Concluded

	5		
Medical Departments, Academic Curricula	1	6	
	441		
School of Medicine, Professional Curricula	85	506	
	0		
School of Nursing	227	227	
College of Pharmacy:	11		
Academic Curricula	2	13	
	183		
Professional Curricula	22	205	
	194		
Totals, College of Pharmacy	24	218	
	31		
School of Pharmacy	1	32	
	226		
Totals, Pharmacy	25	250	
			937
Totals, Medical Center			356
			1,348
TOTALS, SAN FRANCISCO			378
			1,724
At Santa Barbara:			997
Undergraduate Students*			1,141
			2,138
			77
Graduate Students			41
			118
			1,074
TOTAL GRADUATES AND UNDERGRADUATES, SANTA BARBARA			1,182
			2,256
Deductions:			
	2		
Undergraduate students registered at Berkeley but in attendance at Davis	0	2	
	3		
Graduate students registered at Berkeley but in attendance at Riverside	0	3	
Graduate students registered at Berkeley but in attendance at San Francisco:	3		
College of Dentistry (Academic Curricula)	0	3	
	5		
Medical Departments (Academic Curricula)	1	6	
	11		
College of Pharmacy (Academic Curricula)	2	13	
	32		
Graduate students registered at Los Angeles but in attendance at La Jolla	1	33	
	3		
Graduate students registered at Los Angeles but in attendance at Riverside	2	5	
			59
Total deductions			6
			65
NET TOTAL RESIDENT STUDENTS, REGULAR SESSIONS ONLY			28,636
			14,642
			43,278

* Not including graduate (or postgraduate) students who received their degrees as undergraduates during the year 1955-56. The number of such students was as follows: Berkeley, 103 (68M + 35W); Davis, 9 (7M + 2W); Los Angeles, 140 (99M - 41W); Santa Barbara, 18 (16M + 2W).

SUMMARY OF STUDENTS, 1955-56

TABLE VII

STUDENTS NOT ENUMERATED IN THE FOREGOING TABLES

EXTRASESSION COURSES*

Berkeley:

Entomology and Parasitology 49	5
Forestry 49	46
Geology 118, 118L	29
Landscape Architecture 49	13
Public Health 49, 297	5
Range Management 49	9
Soil Science 105	7
Totals, Berkeley	114

Davis:

Agricultural Engineering 49	5
Dairy Industry 49	1
Entomology and Parasitology 49	6
Pomology 105	10
Veterinary Medicine 249	13
Totals, Davis	35

UNIVERSITY EXTENSION:

Department of Class Instruction: net enrollment	64,588
Department of Correspondence (courses)	15,988
Department of Conferences and Special Activities (net enrollment)	14,109
Lectures (attendance)	16,124

AGRICULTURAL EXTENSION SERVICE:

Farmers' Meetings (attendance)	1,512,490
Agricultural Clubs 4-H (enrollment)	30,479

* Field and practice courses required in various degree curricula, but conducted out of session.

SUMMARY OF OFFICERS
(Exclusive of officers serving

	BERKELEY		DAVIS		LA JOLLA		LOS ANGELES		MOUNT HAMILTON		RIVERSIDE	
Administrative Officers (Including 9 Emeritus).....	40		9		2		18		2		5	
Professors (Including 156 Emeritus).....	3	43	0	9	0	2	1	19	0	2	0	5
Associate Professors (Including 36 Emeritus).....	22	509	3	80	0	11	18	351	0	4	0	19
Assistant Professors (Including 21 Emeritus).....	232		73		5		276				5	
	22	254	4	77	0	5	31	306			0	5
	230		89		4		368		3		43	
	12	242	3	92	0	4	50	418	0	3	4	47
Instructors	47		19				206				21	
	5	52	1	20			38	244			1	22
Lecturers	207		29				97				1	
	47	254	5	34			21	118			0	1
Associates	69		7				32				1	
	30	99	0	7			22	54			2	3
Assistants	4		4				17				2	
	1	5	0	4			3	20			1	3
Teaching Assistants	498		19				280					
	95	593	2	21			88	368				
	20		3				8				1	
Other Officers of Instruction	17	37	0	3			17	25			0	1
Deductions for names counted more than once	39		7		1		20		1		4	
	4	43	0	7	0	1	5	25	0	1	0	4
NET TOTAL TEACHING STAFF	1,795		322		21		1,614		8		94	
	250	2,045	18	340	0	21	284	1,898	0	8	8	102
Librarians	2		1		1		1		1		1	
	0	2	0	1	0	1	0	1	0	1	1	2
Curators of Museums	9						1					
	0	9					0	1				
Other Officers of Research	118		82		18		25		3		1	
	33	151	2	54	0	18	2	27	0	3	0	1
Student Health Service	76		4				11				54	
	13	89	0	4			6	17			5	58
Deductions for names counted more than once	17		1				4		1			
	0	17	0	1			1	5	0	1		
NET TOTALS	1,983		378		40		1,648		11		150	
	296	2,279	20	398	0	40	291	1,939	0	11	14	164

1955-56—TABLE VIII

only during the Summer Sessions)

Hastings College of the Law		College of Dentistry		Hooper Foundation for Medical Research		School of Medicine		School of Nursing		College of Pharmacy		Totals, San Francisco		SANTA BARBARA		Deductions for names counted more than once		NET TOTALS	
SAN FRANCISCO																			
2		1		1		3		0		1		8		5		0		89	
0	2	0	1	0	1	0	3	1	1	0	1	1	9	0	5	1	1	4	93
16		17		2		74				10		119		27		9		1,068	
0	16	0	17	0	2	2	78			0	10	2	121	9	36	1	10	53	1,121
1		10		1		85		0		6		103		36		3		726	
0	1	2	12	1	2	9	94	4	4	0	6	16	119	11	47	3	6	81	807
		26				177		0		9		214		64		2		1,013	
		1	29			26	203	8	8	0	9	35	249	16	80	3	5	117	1,130
		30				322		1		2		355		17		1		664	
		5	35			32	354	13	14	0	2	50	405	3	20	1	2	97	781
0		17				27		2		4		50		2		2		384	
1	1	2	19			4	31	3	5	0	4	10	60	0	2	0	2	83	467
		1				2				1		4		0				113	
		1	2			7	9			0	1	8	12	1	1			63	176
						4						4		5				36	
						1	5					1	5	5	10			11	47
												9						806	
						0						0	9					185	991
						1	1					1	1					32	
						6		0		1		11		4		28		35	67
2		2				6		0		1		11		4		28		115	
0	2	0	2			2	8	1	1	0	1	3	14	0	4	4	32	16	131
17		102		4		688		3		32		855		152		45		4,816	
1	18	11	113	1	5	80	768	28	31	0	32	121	976	45	197	13	58	713	5,529
						1						1		1				9	
						0	1					0	1	0	1			1	10
																		10	
																		0	10
				5		16				2		23		0				240	
				0	5	4	20			1	3	5	28	1	1			43	283
						3								1				149	
						3	6							0	1			27	176
						8						8				7		38	
						3	11					3	11			2	9	6	44
17		102		9		700		3		34		871		154		52		5,186	
1	18	11	113	1	10	84	784	28	31	1	35	126	994	46	200	15	67	778	5,964

SUMMARY OF OFFICERS, 1955-56

TABLE VIII—Concluded

	University Extension		Agricultural Extension Service	
Administrative Officers	50			
	13	63		
	6			
Assistants to Administrative Officers	26	31		
			1	
Associate Professors			0	1
			3	
Assistant Professors			1	4
			1	
Lecturer			0	1
	1,030			
Speakers	35	1,165		
			338	
Agriculturists (including 16 Emeritus)			1	339
			1	
Home Economists (including 9 Emeritus)			107	108
	1,849			
Extension Teachers	280	2,129		
	101			
Extension Readers	27	128		
	3,035		344	
TOTALS	481	3,516	109	453

SUMMARY

	22	
Regents of the University	2	24
	89	
Administrative Officers	4	93
	5,097	
Other Officers	774	5,871
	5,208	
NET TOTALS (exclusive of Extension)	780	5,988
	3,379	
Total Extension	590	3,989
	8,587	
GRAND TOTALS	1,370	9,957

DEGREES CONFERRED, 1955-56

TABLE IX

A: Berkeley

School of Medicine, B.S. in Physical Therapy.....	1	23
	70	
College of Pharmacy, B.S.....	4	74
	2	
College of Dentistry, B.S.....	16	18
	49	
Hastings College of the Law, LL.B.....	4	53
	340	
School of Business Administration, B.S.....	29	369
	7	
School of Criminology, B.S.....	0	7
	38	
A.B.....	14	52
	25	
School of Forestry, B.S.....	0	25
	0	
School of Nursing, B.S.....	92	92
	22	
School of Optometry, B.S.....	1	23
	17	
School of Public Health, B.S.....	20	37
	43	
College of Agriculture, B.S.....	31	74
	74	
College of Architecture, A.B.....	4	78
	67	
College of Chemistry, B.S.....	6	73
	412	
College of Engineering, B.S.....	2	414
	301	
College of Letters and Science, A.A.....	493	794
	832	
A.B.....	772	1,804
	12	
School of Pharmacy, Pharm.D.....	2	14
	47	
College of Dentistry, D.D.S.....	0	47
	74	
School of Law, LL.B.....	7	81
	4	
School of Law, LL.M.....	1	5
	1	
School of Law, J.S.D.....	0	1
	1	
Master of Bioradiology.....	0	1
	56	
School of Business Administration, M.B.A.....	3	59
	15	
Master of City Planning.....	2	17
	1	
College of Dentistry, M.D.S.....	0	1

DEGREES CONFERRED, 1955-56

TABLE IX—Continued

A: Berkeley—Concluded

Master of Engineering	22	
	0	22
	2	
School of Forestry, M.F.	0	2
	2	
Master of Journalism	0	2
	20	
School of Librarianship, M.L.S.	32	52
	14	
School of Optometry, M.Opt.	0	14
	57	
School of Public Health, M.P.H.	16	73
	25	
School of Social Welfare, M.S.W.	65	90
	100	
Master of Science	12	112
	238	
Master of Arts	78	316
	77	
School of Medicine, M.D.	4	81
	12	
School of Education, Ed.D.	3	15
	1	
Degree of Electrical Engineer	0	1
	1	
Degree of Mechanical Engineer	0	1
	261	
Doctor of Philosophy	25	286
	3,343	
TOTAL DEGREES, BERKELEY	1,760	5,103

DEGREES CONFERRED, 1955-56

TABLE IX—Continued

B: Davis

College of Agriculture, B.S.	100	
	28	128
	4	
College of Letters and Science, A.A.	19	23
	18	
A.B.	19	37
	33	
School of Veterinary Medicine, B.S.	1	34
	2	
Master of Arts	1	3
	11	
School of Education, M.Ed.	0	11
	2	
Master of Engineering	0	2
	42	
Master of Science	1	43
	53	
School of Veterinary Medicine, D.V.M.	0	53
	18	
Doctor of Philosophy	1	19
	263	
TOTAL DEGREES, DAVIS	70	353

C: Los Angeles

College of Agriculture, B.S.	9	
	0	9
	70	
College of Applied Arts, A.A.	218	288
	125	
A.B.	105	230
	83	
B.S.	178	281
	398	
School of Business Administration, B.S.	10	408
	210	
College of Engineering, B.S.	1	211
	213	
College of Letters and Science, A.A.	234	447
	867	
A.B.	570	1,237
	57	
B.S.	6	63
	0	
School of Nursing, B.S.	57	57
	12	
School of Public Health, B.S.	0	12
	37	
School of Business Administration, M.B.A.	3	40
	29	
School of Education, M.Ed.	23	52
	1	
Master of Public Administration	0	1

DEGREES CONFERRED, 1955-56

TABLE IX—Concluded

C: Los Angeles—Concluded

School of Social Welfare, M.S.W.....	6	22
	16	
Master of Science.....	106	143
	37	
Master of Arts.....	138	204
	68	
School of Law, LL.B.....	75	79
	4	
School of Education, Ed.D.....	20	25
	5	
School of Medicine, M.D.....	33	36
	3	
Doctor of Philosophy.....	93	106
	12	
TOTAL DEGREES, LOS ANGELES.....	2,380	3,930
	1,560	

D: Riverside

College of Letters and Science, A.A.....	14	21
	7	
A.B.....	45	67
	22	
TOTAL DEGREES, RIVERSIDE.....	59	88
	29	

E: Santa Barbara

Santa Barbara, College, A.B.....	162	338
	178	
Master of Arts.....	2	3
	1	
TOTAL DEGREES, SANTA BARBARA.....	164	341
	177	

F: Honorary Degrees

Master of Arts (Berkeley).....	0	1
	1	
Doctor of Laws (Berkeley).....	4	4
	0	
Doctor of Laws (Los Angeles).....	2	2
	0	
TOTAL HONORARY DEGREES.....	6	7
	1	

TOTAL DEGREES CONFERRED.....	8,236	9,822
	3,587	

SUMMARY OF STUDENTS, 1955-56

TABLE X

SUMMARY OF VETERAN STUDENTS ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

Regular Sessions

At Berkeley:		2,123	
Undergraduate Students		51	2,174
		1,010	
Graduate Students		18	1,028
		3,133	
TOTALS, Berkeley		69	3,202
At Davis:		262	
Undergraduate Students		4	266
		124	
Graduate Students		0	124
		386	
TOTALS, Davis		4	390
At Los Angeles:		2,322	
Undergraduate Students		66	2,388
		1,046	
Graduate Students		31	1,077
		3,368	●
TOTALS, Los Angeles		97	3,465
At Riverside:		122	
Undergraduate Students		0	122
		1	
Graduate Students		0	1
		123	
TOTALS, Riverside		0	123
At San Francisco:	255		
Hastings College of the Law	2	257	
	184		
Medical Center	4	188	
		439	
TOTALS, San Francisco		6	445
At Santa Barbara:		351	
Undergraduate Students		6	357
		36	
Graduate Students		0	36
		387	
TOTALS, Santa Barbara		6	393
NET TOTAL RESIDENT VETERAN STUDENTS, regular sessions only, deducting 1 (M) undergraduate registered at Berkeley but in attendance at Davis and 1 (M) graduate registered at Los Angeles but in attendance at Riverside		7,836	
		182	8,018

SUMMARY OF STUDENTS, 1955-56
TABLE XI
VETERAN STUDENTS REGISTERED IN 1955 SUMMER SESSIONS
Berkeley

First Summer Session	1,004	
	30	1,034
Second Summer Session	471	
	16	487
	1,104	
NET TOTALS, deducting 381 (371M + 10W) veteran students registered in more than one Summer Session	36	1,140

Davis

First Summer Session	13	
	0	13
	32	
Special Summer Session	0	32
	13	
Second Summer Session	0	13
	48	
NET TOTALS, deducting 10 (M) veteran students registered in more than one Summer Session	0	45

Los Angeles

First Session	1,046	
	6	1,052
	14	
Second Session	0	14
	1,053	
NET TOTALS, deducting 7 (M) veteran students registered in more than one Summer Session	6	1,059

San Francisco

Hastings College of the Law	14	
	1	15
Medical Center:	24	
First Summer Session	2	26
	48	
Summer Term	0	48
	1	
Second Summer Session	2	3
	72	
NET TOTALS, Medical Center, deducting 3 (1M + 2W) veteran students registered in more than one Summer Session	2	74
	86	
NET TOTALS, San Francisco	3	89

Santa Barbara

Summer Session	104	
	2	106
	2,395	
NET TOTAL VETERANS IN 1955 SUMMER SESSIONS	47	2,442

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII

STUDENTS IN THE ACADEMIC DEPARTMENTS

A: Registered at Berkeley

UNDERGRADUATE STUDENTS

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Special		Total Undergrad.	
Letters and Science:	35		65		...		...		...		100	
Prebusiness Administration	1	36	4	69	...	...	...	...	...	...	5	105
Precriminology	6		10		...	...	...	...	...	...	16	
Precriminology	0	6	3	13	...	...	...	...	...	...	3	19
Predentistry	4		29		...	...	...	...	...	...	33	
Predentistry	1	5	2	31	...	...	...	...	...	...	3	36
Predental Hygiene	0		1		...	...	...	...	...	...	1	
Predental Hygiene	1	1	1	2	...	...	...	...	...	...	2	3
Premedicine	32		110		...	...	...	...	...	...	142	
Premedicine	5	37	18	128	...	...	...	...	...	...	23	165
Prenursing	0		1		...	...	...	...	...	...	1	
Prenursing	3	3	7	8	...	...	...	...	...	...	10	11
Preoptometry	1		8		...	...	...	...	...	...	9	
Preoptometry	0	1	0	8	...	...	...	...	...	...	0	9
Prepublic Health	0		1		...	...	...	...	...	...	1	
Prepublic Health	2	2	0	1	...	...	...	...	...	...	2	3
School of Medicine*	40		...		...	...	...	...	...	...	40	
School of Medicine*	5	45	...	...	...	...	...	...	...	...	5	45
Other	1,071		786		1,476		918		125		4,376	
Other	895	1,966	828	1,614	1,249	2,725	1,137	2,055	40	165	4,149	8,525
Totals, Letters and Science	1,189		1,011		1,476		918		125		4,719	
Totals, Letters and Science	913	2,102	863	1,874	1,249	2,725	1,137	2,055	40	165	4,202	8,921
Agriculture	44		43		39		28		7		161	
Agriculture	39	83	41	84	38	77	39	67	1	8	158	319
Architecture†	117		114		104		87		11		433	
Architecture†	6	123	12	126	7	111	3	90	1	12	29	462
Business Administration†	379		242		...		...		...		621	
Business Administration†	30	409	29	271	...	...	...	...	...	...	59	680
Chemistry	90		84		77		113		2		366	
Chemistry	6	96	1	85	8	85	7	120	0	2	22	388
Criminology†	59		40		...		...		...		99	
Criminology†	17	76	6	46	...	...	...	...	...	...	23	122
Engineering:	3		4		3		...		1		11	
Agricultural	0	3	0	4	0	3	...	...	0	1	0	11
Civil	135		106		75		59		5		380	
Civil	1	136	0	106	1	76	1	60	0	5	3	383
Electrical	185		227		132		144		10		698	
Electrical	1	186	0	227	1	133	2	146	0	10	4	702
Engineering Physics	13		15		11		23		2		64	
Engineering Physics	0	13	0	15	0	11	1	24	0	2	1	65
Geological	1		1		...		...		...		2	
Geological	0	1	0	1	...	...	...	...	...	...	0	2

* Candidates both for professional and academic degrees.

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII—Continued

A: Registered at Berkeley—Concluded

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Specials		Total Undergrad.	
Industrial.....	28		28		16		7		...		79	
	0	28	0	28	1	17	0	7	...	...	1	80
Mechanical.....	130		166		89		79		6		460	
	0	130	0	166	0	89	1	80	0	6	1	461
Metallurgy.....	12		10		2		3		...		27	
	1	13	0	10	0	2	0	3	...	...	1	28
Mining.....	7		7		5		7		2		28	
	0	7	0	7	0	5	0	7	0	2	0	28
Petroleum.....	13		16		4		6		...		39	
	0	13	0	16	0	4	0	6	...	...	0	39
Process.....	5		3		1		1		...		10	
	1	6	0	3	0	1	0	1	...	...	1	11
Totals, Engineering.....	532		573		338		329		28		1,796	
	4	538	0	573	3	341	5	334	0	28	12	1,810
Forestry†.....	30		41		...		...		...		71	
	0	30	0	41	...	...	...	...	...	...	0	71
Nursing†.....	0		0		...		...		...		0	
	38	38	17	17	...	...	...	...	...	...	55	55
Optometry†.....	25		20		...		...		...		45	
	1	26	1	21	...	...	...	...	...	...	2	47
Pharmacy†.....	3		15		40		4		...		62	
	1	4	2	17	8	48	1	5	...	...	12	74
Public Health†.....	21		8		...		...		...		29	
	22	43	22	30	...	...	...	...	...	...	44	73
TOTALS.....	2,489		2,191		2,074		1,479		171		8,404	
	1,077	3,566	994	3,185	1,313	3,387	1,192	2,671	42	213	4,618	13,022

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Berkeley, deducting 462 (433M + 29W) in the College of Architecture, 680 (621M + 59W) in the School of Business Administration, 122 (99M + 23W) in the School of Criminology, 71 (M) in the School of Forestry, 55 (W) in the School of Nursing, 47 (45M + 2W) in the School of Optometry, 74 (62M + 12W) in the College of Pharmacy, and 73 (29M + 44W) in the School of Public Health..... 4,394 11,438

GRADUATE STUDENTS

	2,253	
Graduate Students, academic departments (see also Table V-A).....	533	2,786
	9,297	
TOTAL GRADUATES AND UNDERGRADUATES at Berkeley†, academic departments only.....	4,827	14,224
(For students in the professional schools at Berkeley see Table III)		

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

‡ Including graduate students in attendance at other points (see Table V-A) and undergraduate students registered at Berkeley but in attendance at Davis.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII—Continued

B: Registered at Davis

UNDERGRADUATE STUDENTS

School or College	4th year		3d year		2d year		1st year		Special		Total Undergrad.	
Agriculture	143		165		131		228		14		681	
	30	173	30	195	54	185	129	357	1	15	244	925
Letters and Science	17		25		19		42		3		106	
	21	38	36	61	54	73	91	133	3	6	205	311
2-Year Curricula					56		136				192	
					3	59	20	156			23	215
Veterinary Medicine†	38		33								69	
	2	38	1	34							3	72
TOTALS	196	249	223	290	206	317	406	646	17	21	1,048	1,523
	53		67		111		240		4		475	1,523

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Davis, deducting 72 (69M + 3W) students in the School of Veterinary Medicine 979
 472 1,451

GRADUATE STUDENTS

Graduate Students, academic departments (see also Table V-B) 249
 31 280
 1,228
TOTAL GRADUATES AND UNDERGRADUATES at Davis, academic departments only 503 1,731

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII—Continued

C: Registered at Los Angeles

UNDERGRADUATE STUDENTS

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Total Undergrad.	
Applied Arts:	0		0		0		0		0	
Prenursing.....	1	1	18	18	71	71	67	67	157	157
Preoccupational Therapy.....					0		0		0	
Preoptometry.....					2	2	3	3	5	5
Prepublic Health.....					3		2		5	
Other.....			2		0	3	0	2	0	5
Totals, Applied Arts.....			2						2	
Prepublic Health.....			0	2					0	2
Other.....	278		262		168		80		784	
Totals, Applied Arts.....	348	624	380	642	319	485	315	395	1,362	2,146
Letters and Science:	278		264		169		82		791	
Medicine†.....	4	17							4	17
Prebusiness Administration.....	17		71		268		154		508	
Precriminology.....	0	17	7	78	23	289	29	183	59	567
Predental.....	0		1		2		2		5	
Prelibrarianship.....	1	1	0	1	0	2	1	3	2	7
Premedical.....	14		36		38		44		132	
Prepharmacy.....	1	15	2	38	0	38	4	48	7	139
Presocial Welfare.....	1		0		0		0		1	
Pretechnological.....	4	5	4	4	3	3	3	3	14	15
Other.....	70		135		122		162		489	
Totals, Letters and Science.....	9	79	15	150	18	140	32	194	74	563
Prepharmacy.....			1		3		10		14	
Prepharmacy.....			0	1	2	5	2	12	4	18
Presocial Welfare.....	3		3		3		1		10	
Pretechnological.....	10	13	15	18	10	13	12	13	47	57
Other.....					6		2		8	
Totals, Letters and Science.....	872		845		524		482		2,703	
Other.....	731	1,803	734	1,579	593	1,117	605	1,067	2,663	5,366
Totals, Letters and Science.....	990		1,092		964		837		3,883	
Totals, Letters and Science.....	780	1,750	777	1,889	649	1,613	688	1,525	2,874	6,757
Agriculture.....	8		10		14		7		39	
Agriculture.....	0	8	2	12	1	15	1	8	4	43
Business Administration†.....	458		473						931	
Engineering:.....	15	473	21	494					36	967
Agricultural.....			1						1	
Civil.....	16		28		10		5		57	
Electrical.....	0	16	0	28	1	11	0	5	1	58
Other.....	60		87		37		39		223	
Electrical.....	0	60	0	87	0	37	0	39	0	223

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII—Continued

C: Registered at Los Angeles

School or College	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Total Undergrad.	
Engineering	126		191		107		132		556	
	2	128	4	195	1	108	0	132	7	563
	48		59		23		21		149	
Mechanical	0	46	0	59	0	23	1	22	1	150
	22		10		5		4		41	
Undecided	0	22	0	10	0	5	0	4	0	41
Totals, Engineering	270		374		182		201		1,027	
	2	272	4	378	2	184	1	202	9	1,036
	0		0		...		...		0	
Nursing†	59	59	58	58	...	...	...	...	117	117
	3		5		8		...		16	
Pharmacy†	0	3	0	5	3	11	...	...	3	19
	15		11		1		0		27	
Public Health†	0	15	1	12	0	1	1	1	2	29
	...		...		...		...		183	
Specials .....	...		...		...		...		11	184

TOTALS	2,020		2,229		1,338		1,127		6,897	
	1,185	3,205	1,261	3,490	1,047	2,385	1,076	2,203	4,580	11,477

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Los Angeles, deducting 967 (931M + 36W) students in the School of Business Administration, 17 (13M + 4W) in the School of Medicine, 117 (W) in the School of Nursing, 19 (16M + 3W) in the College of Pharmacy and 29 (27M + 2W) in the School of Public Health

5,910
4,418 10,328

GRADUATE STUDENTS

1,687

Regular Graduate Students, academic departments (see Table V-C)

416 2,103

469

Unclassified Graduate Students, academic departments

214 683

2,156

TOTAL GRADUATE STUDENTS, academic departments

630 2,786

8,066

TOTAL GRADUATES AND UNDERGRADUATES at Los Angeles‡, academic departments only

5,048 13,114

(For students in the professional schools at Los Angeles see Table III)

† Although professional, these students are tabulated here in order to show all undergraduates in a single table.
‡ Includes 29 (28M + 1W) graduate students in attendance at La Jolla, and 3 (2M + 1W) graduate students in attendance at Riverside.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XII—Concluded

D: Registered at Riverside

UNDERGRADUATE STUDENTS

	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Specials		Total Undergrad.	
College of Letters and Science.	75		124		114		145		13		471	
	35	110	40	164	78	192	76	221	5	18	234	705

TOTAL UNDERGRADUATE STUDENTS in the academic departments at Riverside..... 471
234 705

GRADUATE STUDENTS

Graduate Students, academic departments (see also Tables V-A, V-C and V-D)..... 4
1 5
475
TOTAL GRADUATES AND UNDERGRADUATES at Riverside, academic departments only..... 235 710

E: Registered at Santa Barbara

UNDERGRADUATE STUDENTS

	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Special		Total Undergrad.	
Undergraduates*	241		243		175		227		1		887	
	181	422	182	425	203	378	489	716	3	4	1,058	1,945

TOTAL UNDERGRADUATE STUDENTS* in the academic departments at Santa Barbara..... 887
1,058 1,945

GRADUATE STUDENTS

Graduate Students, academic departments (see also Table V-E)..... 51
25 76
838
TOTAL GRADUATES AND UNDERGRADUATES at Santa Barbara, academic departments only..... 1,083 2,921

NET TOTAL STUDENTS IN THE ACADEMIC DEPARTMENTS OF THE UNIVERSITY, deducting 2 (M) undergraduate students registered at Berkeley but in attendance at Davis, 2 (M) graduate students registered at Berkeley but in attendance at Riverside, and 3 (2M + 1W) graduate students registered at Los Angeles but in attendance at Riverside..... 19,998
11,795 31,793

* Includes certain students who are candidates both for academic degrees and for teaching credentials. (See Table III)

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XIII

STUDENTS IN PROFESSIONAL SCHOOLS AND COLLEGES

School or College	5th year	4th year	2d year	2d year	1st year	Special	Totals
Architecture, School of Berkeley	28	117	114	104	87	11	459
Business Administration, Schools of Berkeley	3 29	6 123	12 126	7 111	3 90	1 12	32 491
Los Angeles				352	267		621
Business Administration, Grad. Schools of Berkeley				31 383	28 297		59 680
Los Angeles				458	473		931
Business Administration, Grad. Schools of Berkeley				15 473	21 494		36 967
Los Angeles					152		152
Los Angeles					12 164		12 164
Criminology, School of Berkeley					105		105
Dentistry, College of San Francisco:					9 114		9 114
D.D.S. Curriculum			15	57	44		116
Curriculum in Dental Hygiene			1 16	15 72	8 52		24 140
Postgraduates		53	59	65	78		255
Totals, San Francisco College of Dentistry		1 54	0 59	0 65	0 78		1 256
Education				0	0		0
Berkeley, School of				16 16	18 18		34 34
Davis, School of						7	7
Los Angeles, School of						2 9	2 9
Santa Barbara, Teacher Training Curricula		53	59	65	78	7	262
Forestry, School of Berkeley		1 54	0 59	16 81	18 96	2 9	37 299
Law							295
Berkeley, School of							269 564
Los Angeles, School of							1
Santa Barbara, Teacher Training Curricula							0 1
Forestry, School of Berkeley			2	27	44		383
Law			0 2	0 27	0 44		0 73
Berkeley, School of	2	4	77	84	139		306
Los Angeles, School of	0 2	0 4	7 84	3 87	6 145		16 322
San Francisco, Hastings College of the Law			72	105	185		362
San Francisco, Hastings College of the Law			4 78	5 110	8 193		17 379
San Francisco, Hastings College of the Law		2	65	112	226	0	405
San Francisco, Hastings College of the Law		0 2	4 69	6 118	11 237	1 1	22 427
San Francisco, Hastings College of the Law				5	57		62
San Francisco, Hastings College of the Law				0 5	12 69		12 74
San Francisco, Hastings College of the Law					63		63
San Francisco, Hastings College of the Law					8 71		8 71
San Francisco, Hastings College of the Law		32	30	47	45		154
San Francisco, Hastings College of the Law		3 35	3 33	2 49	4 49		12 166
San Francisco, Hastings College of the Law		76	72	77			225
San Francisco, Hastings College of the Law		3 79	4 78	3 80			10 235
San Francisco, Hastings College of the Law					3		3
San Francisco, Hastings College of the Law					3 6		3 6
San Francisco, Hastings College of the Law					2		2
San Francisco, Hastings College of the Law					8 10		8 10

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XIII—Concluded

School or College	5th year	4th year	3d year	2d year	1st year	Special	Totals
Curriculum in Physical Therapy					5		5
					23 28		23 28
Course for X-Ray Technicians					0		0
					5 5		5 5
Medical Illustration						0	0
						1 1	1 1
Postdoctoral Training						205	205
						12 217	12 217
Totals, San Francisco	76	72	77	10	205	440	440
	3 79	4 76	3 80	39 49	13 218	62 502	62 502
Nursing, Schools of	0	0	0			0	0
Berkeley	6 6	32 32	18 18			58 96	58 96
						0	0
Los Angeles						132 132	132 132
San Francisco:		0	0	0		0	0
Curriculum in Nursing			44 44	82 82	87 87		213 213
						0	0
Curriculum in Nursing Education						5 5	5 5
						0	0
Curriculum in Public Health Nursing						9 9	9 9
		0	0	0	0	0	0
Totals, San Francisco		44 44	82 82	87 87	14 14	227 227	227 227
		17	20	23		60	60
Optometry, School of Berkeley		1 18	1 21	1 24		3 63	3 63
Pharmacy, Colleges of					62	62	62
Berkeley					12 74		12 74
						16	16
Los Angeles						3 19	3 19
	85	48	70			203	203
San Francisco	4 89	9 57	9 79			23 226	23 226
Pharmacy, School of	9					9	9
San Francisco	0 9					0 9	0 9
Public Health, Schools of	5	68	23	10	1	107	107
Berkeley	3 8	18 86	22 45	24 34	0 1	67 174	67 174
						27	27
Los Angeles						3 30	3 30
Social Welfare, Schools of				25	26	51	51
Berkeley				64 89	58 84	122 173	122 173
						15	15
Los Angeles						28 43	28 43
		120	38	33		189	189
Veterinary Medicine, School of, Davis		4 124	2 38	1 34		7 196	7 196

6,243

TOTAL STUDENTS IN THE PROFESSIONAL DEPARTMENTS OF THE UNIVERSITY..... 2,229 8,472

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XIV

SUMMARY OF STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS

Total students in the Academic Departments	19,998		
	11,795	31,793	
	6,243		
Total students in the Professional Departments	2,229	8,472	
Deduct:			
Undergraduate students in the Academic Departments at Berkeley (College of Letters and Science) registered also in the School of Medicine (See Tables I-A and III)	40	5	45
Graduate Students in the Academic Departments at Berkeley registered also in the Graduate School of Business Administration (See Tables III and V-A)	1	0	1
School of Education (See Tables III and V-A)	46	19	65
School of Law (See Tables III and V-A)	2	0	2
School of Librarianship (See Tables III and V-A)	1	1	2
Graduate students in the Academic Departments at Los Angeles registered in the School of Education	312	233	545
Graduate Students who are enrolled in the College of Architecture (professional) and the academic major in Architecture	28	3	29
Students in the Academic Departments at Santa Barbara registered also in the Teacher Training Curricula (See Tables I-E and III)	314	668	982
			742
Total deductions		929	1,671
			25,499
NET TOTAL RESIDENT STUDENTS IN THE ACADEMIC AND PROFESSIONAL DEPARTMENTS ..	13,095	38,594	

SUMMARY OF STUDENTS, FALL SEMESTER 1955
TABLE XV
GRADUATE STUDENTS IN THE ACADEMIC AND
PROFESSIONAL DEPARTMENTS

A: Registered at Berkeley

Note: All students were in residence at Berkeley unless otherwise indicated.

Agriculture:	7				21
Agricultural Chemistry	0	7		Biophysics	1 22
	22				2
Agricultural Economics	1	23		Bioradiology	0 2
	43				24
Entomology	0	43		Botany	6 30
	5				151
Food Science	2	7		Business Administration, Graduate School of ..	12 163
	9				115
Forestry	0	9		Chemistry	14 129
	0				24
Home Economics	11	11		Chemical Engineering	0 24
	3				2
Landscape Architecture	0	3		Child Development	4 6
	6				24
Parasitology	2	8		City and Regional Planning	4 28
Plant Pathology:	13				6
Berkeley	1	14		Classics	2 8
	1				5
Riverside	0	1		Comparative Biochemistry	0 5
	5				3
Plant Physiology	1	6		Comparative Literature	2 5
	3			Comparative Pharmacology and Toxicology:	1
Range Management	0	3		Berkeley	0 1
	21				3
Soil Science	1	22		San Francisco	1 4
	135				1
Totals, Agriculture	19	154		Comparative Physiology	1 2
	6				1
Anatomy	3	9		Criminology	0 1
	29				17
Anthropology	12	41		Criminology, School of	1 18
	4				2
Applied Mathematics	0	4		Decorative Art	4 8
	26				4
Architecture	3	29		Dentistry, San Francisco, College of	0 4
	26				6
Architecture, College of	3	29		East Asiatic Studies	1 7
	18				99
Art	18	36		Economics	10 109
	20				109
Astronomy	0	20		Education	70 179
	12				295
Bacteriology	5	17		Education, School of	299 584
	41				3
Biochemistry	10	51		Endocrinology	1 4

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XV—Continued

Engineering:	4				3	
Ceramic	0	4		Italian	3	6
	49				9	
Civil	0	49		Journalism	7	16
	79				1	
Electrical	0	79		Latin	0	1
	1				304	
Industrial	0	1		Law, School of	16	320
	7				1	
Irrigation	0	7		Librarianship	1	2
	49				31	
Mechanical	0	49		Librarianship, School of	41	72
	8				11	
Metallurgy	0	8		Linguistics	5	16
	3				75	
Mining	0	3		Mathematics	9	84
	4				2	
Petroleum	0	4		Medical Physics	0	2
	1				23	
Process	0	1		Medicine, School of (1st year)	3	26
	17				3	
Sanitary	1	18		Microbiology	2	5
	22				28	
Transportation and Traffic	0	22		Music	14	42
	244				0	
Totals, Engineering	1	245		Nursing	9	9
	108				0	
English	48	156		Nursing, School of	1	1
	2				5	
Forestry, School of	0	2		Nutrition	11	16
	11				1	
French	14	25		Optometry	0	1
	10				15	
Genetics	2	12		Optometry, School of	1	16
	16				9	
Geography	2	18		Oriental Languages	2	11
	42				21	
Geology	3	45		Paleontology	1	22
	8				1	
Geophysics	0	8		Pathology	0	1
	19			Pharmaceutical Chemistry:	2	
German	8	27		Berkeley	0	2
	1				8	
Greek	0	1		San Francisco, College of Pharmacy	1	9
	171			Pharmacology,	0	
History	31	202		San Francisco, College of Pharmacy	1	1
	6				35	
History of Art	6	12		Philosophy	9	44
	0				7	
Hospital Dietetics, Curriculum in	1	1		Physical Education	2	9
	10				194	
International Relations	1	11		Physics	8	202

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XV—Continued

	7				1
Physiological Chemistry	1	8	Scandinavian	0	1
	1			12	
Physiological Optics	0	1	Slavic Languages and Literatures	5	17
	20			5	
Physiology	4	24	Slavic Studies	1	6
	125			2	
Political Science	13	138	Social Welfare	0	2
	13			51	
Premedicine	4	17	Social Welfare, School of	122	173
	0			48	
Prepharmacy	1	1	Sociology and Social Institutions	23	71
	70			8	
Psychology	33	103	Spanish	6	14
	78			0	
Public Health, School of	23	101	Speech	1	1
	2			19	
Romance Languages and Literature	0	2	Statistics	6	25
	22			75	
Romance Literature	14	38	Zoology	22	97
	1				
Romance Philology	1	2			

DOUBLE MAJORS

	1				1
Anthropology, Librarianship, School of	0	1	Law, School of, Political Science	0	1
	1			0	
Biophysics, Zoology	0	1	Librarianship, School of, Economics	1	1
Business Administration, Graduate School of, Mathematics	1			1	
	0	1	Mathematics, Chemistry	0	1
	0			2	
Child Development, Psychology	1	1	Philosophy, Political Science	0	2
	1			1	
Economics, Law, School of	0	1	Psychology, Statistics	0	1
	0			1	
Geography, City and Regional Planning	1	1	Psychology, Philosophy	0	1
	0			1	
History of Art, Anthropology	1	1	Slavic Studies, Electrical Engineering	0	1
Home Economics, Hospital Dietetics, Curriculum in	0				
	1	1			

TOTAL GRADUATE STUDENTS REGISTERED AT BERKELEY (including students in attendance at other points), deducting 65 (46M + 19W) students who are shown both in a professional school or college and in an academic major and 29 (26M + 3W) who are shown in the College of Architecture and the major in Architecture

3,174
1,003 4,177

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XV—Continued

The students enumerated above were in residence as follows:

	3,157				9
Berkeley	1,000	4,157	College of Pharmacy	2	11
	0			2	
Mt. Hamilton	0	0	Medical Departments	1	3
	2			15	
Riverside	0	2	Totals, San Francisco	3	18
San Francisco:	4			3,174	
College of Dentistry	0	4	TOTALS	1,003	4,177

B: Registered at Davis

	16				7
Agricultural Chemistry	1	17	Horticulture	0	7
	1			3	
Agricultural Education	0	1	Irrigation	1	4
	5			1	
Agricultural Engineering	0	5	Land Management	0	1
	9			2	
Agronomy	0	9	Mathematics	0	2
	11			21	
Animal Husbandry	0	11	Microbiology	3	24
	5			6	
Botany	1	6	Nutrition	0	6
	8			18	
Chemistry	0	8	Plant Pathology	2	20
	0			23	
Comparative Biochemistry	1	1	Plant Physiology	0	23
	11			3	
Comparative Pathology	0	11	Poultry Science	0	3
	6			1	
Comparative Physiology	0	6	Predental	0	1
	20			5	
Education	16	36	Preveterinary Medicine	0	5
	1			4	
Education, School of	0	1	Soil Science	0	4
	0			4	
English	1	1	Vegetable Crops	0	4
	14			120	
Entomology	0	14	Veterinary Medicine	4	124
	19			6	
Food Science	2	21	Zoology	2	8
	10			10	
Genetics	1	11	Unclassified	0	10

TOTAL GRADUATE STUDENTS REGISTERED AT DAVIS..... 370 35 405

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XV—Concluded

	41				16
Political Science	14	55	Spanish	15	31
	111			4	
Psychology	30	141	Speech	6	10
	7			44	
Public Administration	0	7	Theater Arts	18	62
	0			67	
Public Health, School of	1	1	Zoology	15	82
	6		Unclassified:	469	
Romance Languages and Literature	4	10	Los Angeles	213	682
	16			0	
Sociology	3	19	Riverside	1	1
	15			469	
Social Welfare, School of	28	43	Totals, Unclassified	214	683

TOTAL GRADUATE STUDENTS REGISTERED AT LOS ANGELES, (including students in attendance at other points)	2,850	726	3,576
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The students enumerated above were in residence as follows:

	2,820				2
Los Angeles	724	3,544	Riverside	1	3
	28			2,850	
La Jolla	1	29	TOTALS	726	3,576

**D: Registered at Riverside
GRADUATE STUDENTS**

	1				2
Botanical Science	0	1	Plant Pathology	0	2
	1				
Horticulture	1	2			

TOTAL GRADUATE STUDENTS REGISTERED AT RIVERSIDE	4	1	5
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**E: Registered at Santa Barbara
GRADUATE STUDENTS**

	2				2
Economics	0	2	Political Science	0	2
	0			47	
History	2	2	Undeclared	23	70

TOTAL GRADUATE STUDENTS REGISTERED AT SANTA BARBARA	51	25	76
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SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVI

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

(Students enumerated in Tables XII, XIII, XIV and XV)

Berkeley:			8,404	
Undergraduate			4,618	13,022
			3,174	
Graduate			1,003	4,177
			11,578	
Total			5,621	17,199
Davis:			1,048	
Undergraduate			475	1,523
			370	
Graduate			35	405
			1,418	
Total			510	1,825
La Jolla:			28	
Scripps Institute of Oceanography			1	29
Los Angeles:			6,897	
Undergraduate			4,580	11,477
			2,850	
Graduate			726	3,576
			9,747	
Total			5,306	15,053
Mt. Hamilton:			0	
Lick Astronomical Department			0	0
Riverside:			471	
Undergraduate			234	785
			4	
Graduate			1	5
			475	
Total			235	719
San Francisco:			405	
Hastings College of the Law			22	427
Medical Center:				
College of Dentistry		4		
Academic Curricula		0	4	
		262		
Professional Curricula		37	299	
			266	
Totals, College of Dentistry		37	303	
			2	
Medical Departments, Academic Curricula		1	3	
			440	
School of Medicine, Professional Curricula		62	502	
			0	
School of Nursing		227	227	

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVI—Concluded

College of Pharmacy:	9			
Academic Curricula	2	11		
	212			
Professional Curriculum	23	235		
			221	
Totals, College of Pharmacy			25	246
				929
Totals, Medical Center				352
				1,281
				1,334
Total				374
				1,708
 Santa Barbara:				887
Undergraduate				1,058
				1,945
				51
Graduate				25
				76
				938
Total				1,083
				2,021
 Deductions:				
			2	
Undergraduate students registered at Berkeley but in attendance at Davis	0	2		
			2	
Graduate students registered at Berkeley but in attendance at Riverside	0	2		
Graduate students registered at Berkeley but in attendance at San Francisco:			4	
College of Dentistry (academic curricula)	0	4		
			2	
Medical Departments (academic curricula)	1	3		
			9	
College of Pharmacy (academic curricula)	2	11		
			28	
Graduate students registered at Los Angeles but in attendance at La Jolla	1	29		
			2	
Graduate students registered at Los Angeles but in attendance at Riverside	1	3		
				49
Total deductions				5
				54
				25,469
NET TOTAL RESIDENT STUDENTS				13,125
				38,594

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVII

GEOGRAPHIC DISTRIBUTION OF STUDENTS

Distribution by Point of Origin and Campus

Origin	Berkeley	Davis	Los Angeles	Riverside	San Francisco	Santa Barbara	Net Total*
California	14,729	1,728	13,633	704	1,439	1,900	34,112
Continental U.S.†	1,666	77	900	6	201	87	2,935
U.S. Possessions	91	9	44	...	16	9	169
Foreign Countries	713	114	476	...	52	25	1,378
TOTAL	17,199	1,928	15,053	710	1,708	2,021	38,594

Distribution by California County and Campus

County	Berkeley	Davis	Los Angeles	Riverside	San Francisco	Santa Barbara	Net Total*
Alameda	4,324	132	78	4	247	20	4,799
Alpine .....	...	...	...	...	...	...	...
Amador	28	9	1	...	1	...	39
Butte	81	24	5	...	5	3	118
Calaveras	13	4	...	...	...	...	17
Colusa	24	24	2	...	1	1	52
Contra Costa	1,132	81	18	2	55	18	1,308
Del Norte	8	...	1	...	...	1	10
Eldorado	18	12	2	...	...	...	32
Fresno	246	18	80	1	75	14	433
Glenn	18	10	1	...	...	...	29
Humboldt	57	12	1	...	14	...	84
Imperial	17	6	23	6	1	5	58
Inyo	12	4	8	...	1	1	26
Kern	138	21	129	2	14	45	348
Kings	53	6	9	...	8	6	82
Lake	22	7	2	...	3	...	34
Lassen	20	8	6	...	1	...	35
Los Angeles	1,970	252	11,815	88	199	841	15,163
Madera	13	6	4	...	6	4	33
Marin	263	22	9	...	27	9	329
Mariposa	7	...	1	...	1	...	9
Mendocino	43	10	1	...	3	4	61
Merced	68	18	12	...	11	...	109
Modoc	3	...	...	...	...	2	5

* Duplicates deducted.

† Excluding California.

SUMMARY OF STUDENTS, FALL SEMESTER 1955
TABLE XVII—Continued
Distribution by California County and Campus—Concluded

County	Berkeley	Davis	Los Angeles	Riverside	San Francisco	Santa Barbara	Net Total*
Alameda	1	...	...	...	...	2	3
Alameda	195	16	21	1	15	15	263
Alameda	81	13	8	...	4	1	107
Alameda	34	6	...	...	3	1	44
Alameda	206	31	245	8	14	46	550
Alameda	55	18	11	1	6	2	93
Alameda	8	5	...	...	3	1	17
Alameda	110	17	133	316	9	53	635
Alameda	480	159	39	1	55	7	739
Alameda	18	6	4	...	2	1	31
Alameda	141	24	204	227	20	74	689
Alameda	339	36	313	37	33	37	795
Alameda	2,094	57	56	1	307	18	2,530
Alameda	255	60	16	1	35	5	372
Alameda	43	7	18	...	6	37	111
Alameda	547	40	37	...	64	36	724
Alameda	100	10	63	2	20	439	634
Alameda	389	67	50	...	62	18	586
Alameda	110	11	10	1	6	3	141
Alameda	44	14	6	...	6	...	70
Alameda	6	1	1	...	1	...	9
Alameda	41	11	2	...	3	4	61
Alameda	160	47	8	...	14	...	229
Alameda	182	48	17	1	17	10	275
Alameda	146	41	17	1	21	5	231
Alameda	39	21	3	...	3	1	66
Alameda	26	17	...	...	1	1	45
Alameda	1	1	...	...	...	...	2
Alameda	92	24	31	1	17	18	183
Alameda	29	2	...	...	...	...	31
Alameda	79	7	102	2	6	87	263
Alameda	74	218	7	...	4	4	307
Alameda	26	7	3	...	9	...	45
TOTAL	14,729	1,728	13,633	704	1,439	1,900	34,112

* Duplicates deducted.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVII—Concluded

Distribution by State and Campus

State	Berkeley	Davis	Los Angeles	Riverside	San Francisco	Santa Barbara	Net Total*
Alabama	14	...	7	...	...	1	22
Arizona	64	1	27	1	9	4	106
Arkansas	11	...	3	...	3	...	16
Colorado	48	4	16	...	1	4	73
Connecticut	27	1	19	...	1	3	51
Delaware	4	...	1	...	...	...	5
District of Columbia	27	1	6	...	2	...	36
Florida	34	...	13	...	2	2	51
Georgia	11	2	2	...	2	1	18
Idaho	28	4	8	...	4	...	44
Illinois	90	4	79	...	10	10	193
Indiana	28	...	26	...	5	...	59
Iowa	27	1	25	...	8	1	62
Kansas	26	3	13	...	4	1	47
Kentucky	14	...	3	...	1	...	18
Louisiana	12	...	8	...	3	...	23
Maine	11	...	3	...	...	1	15
Maryland	20	1	10	...	...	...	31
Massachusetts	60	...	28	...	6	5	99
Michigan	53	2	40	...	1	2	98
Minnesota	47	2	17	...	6	2	74
Mississippi	6	...	4	...	...	...	10
Missouri	41	...	28	...	7	1	77
Montana	24	2	3	...	2	3	34
Nebraska	19	...	15	...	4	2	40
Nevada	23	7	8	...	4	3	45
New Hampshire	10	1	3	...	1	1	16
New Jersey	58	...	31	...	7	2	98
New Mexico	25	2	9	...	3	...	39
New York	238	9	143	2	18	5	414
North Carolina	9	2	5	...	...	1	17
North Dakota	9	1	6	...	4	...	20
Ohio	66	1	45	...	9	2	123
Oklahoma	29	1	15	...	4	3	52
Oregon	94	4	25	2	10	3	138
Pennsylvania	53	3	44	1	7	6	114
Rhode Island	6	2	3	...	1	1	13
South Carolina	1	...	1	...	...	...	2
South Dakota	11	2	8	...	5	1	27
Tennessee	17	1	13	...	5	...	36
Texas	60	4	30	...	4	2	100
Utah	60	3	25	...	16	...	104
Vermont	1	...	6	...	...	...	7
Virginia	16	...	7	...	...	...	23
Washington	93	4	32	...	15	7	151
West Virginia	7	...	9	...	1	1	18
Wisconsin	26	2	22	...	4	5	59
Wyoming	8	...	6	...	2	1	17
TOTAL	1,666	77	900	6	201	87	2,935

* Duplicates deducted.

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII

UNDERGRADUATE STUDENTS BY COLLEGE AND MAJOR

A: Juniors and Seniors in the College of Letters and Science at Berkeley

Major	Seniors		Juniors		Totals	
Advertising.....	1		0		1	
	0	1	0	0	0	1
American Civilization.....	0	0	1	2	1	2
	9		9		18	
Anthropology.....	5	14	10	19	15	33
	9		9		18	
Art.....	27	36	24	33	51	69
	3		2		5	
Astronomy.....	0	3	0	2	0	5
	11		8		19	
Bacteriology.....	12	23	5	13	17	36
	19		13		32	
Biochemistry.....	3	22	2	15	5	37
	1		1		2	
Biological Sciences.....	0	1	0	1	0	2
	0		2		2	
Botany.....	0	0	0	2	0	2
	10		21		31	
Chemistry.....	3	13	2	23	5	36
	2		0		2	
Child Development.....	34	38	23	23	57	59
	2		2		4	
Classics.....	0	2	1	3	1	5
	10		3		13	
Communications and Public Policy.....	1	11	4	7	5	18
	1		3		4	
Decorative Art.....	21	22	26	29	47	51
	0		0		0	
Design and Merchandising.....	1	1	0	0	1	1
	5		1		6	
Dramatic Art.....	6	11	3	4	9	15
	1		0		1	
East Asiatic Studies.....	1	2	0	0	1	2
	53		34		87	
Economics.....	7	60	2	36	9	96
	2		5		7	
Education.....	6	8	20	25	26	33
	59		35		94	
English.....	79	138	80	115	159	253
	8		2		10	
French.....	15	23	15	17	30	40
	258		159		417	
General Curriculum.....	314	572	269	428	583	1,000
	5		2		7	
Geography.....	1	6	2	4	3	10

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

Major	Seniors		Juniors		Totals	
	35		39		74	
Geological Sciences	1	36	2	41	3	77
	3		4		7	
Geophysics	0	3	0	4	0	7
	4		4		8	
German	6	10	4	8	10	18
	58		60		116	
History	58	114	55	115	113	229
	7		10		17	
International Relations	8	15	17	27	25	42
	1		0		1	
Italian	0	1	3	3	3	4
	18		15		33	
Journalism	14	32	9	24	23	56
	2		1		3	
Labor and Industrial Relations	1	3	1	2	2	5
	1		0		1	
Latin	0	1	0	0	0	1
	0		0		0	
Linguistics	0	0	3	3	3	3
	38		35		71	
Mathematics	14	50	10	45	24	95
	3		1		4	
Mathematics-Statistics	1	4	0	1	1	5
	0		1		1	
Mathematics-Physics	1	1	0	1	1	2
	40		0		40	
Medical Science	5	45	0	0	5	45
	14		8		22	
Music	12	26	15	23	27	49
	1		1		2	
Near Eastern Languages	0	1	0	1	0	2
	0		0		0	
Occupational Therapy	0	0	3	3	3	3
	2		2		4	
Oriental Languages	0	2	0	2	0	4
	8		4		12	
Paleontology	0	8	0	4	0	12
	16		12		28	
Philosophy	6	22	6	18	12	40
	30		26		56	
Physical Education	14	44	18	44	32	86
	78		67		145	
Physics	5	83	4	71	9	154
	16		1		17	
Physiology	1	17	1	2	2	19
	98		80		178	
Political Science	43	141	29	109	72	250
	35		65		100	
Prebusiness Administration	1	36	4	69	5	105

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

Major	Seniors		Juniors		Totals	
	6		10		16	
Precriminology	0	6	3	13	3	19
	4		29		33	
Preidentriety	1	5	2	31	3	38
	0		1		1	
Preidental Hygiene	1	1	1	2	2	3
	32		110		142	
Premedicine	5	37	18	128	23	165
	0		1		1	
Prenursing	3	3	7	8	10	11
	1		8		9	
Preoptometry	0	1	0	8	0	9
	0		1		1	
Prepublic Health	2	2	0	1	2	3
	1		0		1	
Preventive Criminology	0	1	0	0	0	1
	50		33		83	
Psychology	40	90	31	64	71	154
	0		0		0	
Public Communications	0	0	1	1	1	1
	2		1		3	
Public Relations	0	2	0	1	0	3
	1		1		2	
Recreation	5	6	4	5	9	11
Regional Group Major on:	1		0		1	
France and French Colonies	0	1	1	1	1	2
	4		3		7	
Hispanic America	3	7	3	6	6	13
	2		0		2	
Japan	0	2	0	0	0	2
	3		2		5	
Russia and Eastern Europe	2	5	1	3	3	8
	10		5		15	
Totals, Regional Group Major on	5	15	5	10	10	25
	2		1		3	
Religion	0	2	0	1	0	3
	0		0		0	
Renaissance	0	0	1	1	1	1
	0		0		0	
Scandinavian	2	2	1	1	3	3
	1		0		1	
Sculpture	1	2	0	0	1	2
	5		3		8	
Slavic Languages and Literature	1	6	2	5	3	11
	14		7		21	
Social Welfare	52	66	44	51	96	117
	20		6		26	
Sociology and Social Institutions	21	41	30	38	51	77
	3		9		12	
Spanish	8	11	9	18	17	29

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

Major	Seniors		Juniors		Totals	
Speech	8		6		14	
	23	31	22	28	45	59
	0		2		2	
Statistics	1	1	0	2	1	3
	5		3		8	
Wildlife Conservation	0	5	0	3	0	8
	51		26		77	
Zoology	15	68	9	35	24	101
	1,189		1,011		2,200	
TOTALS	913	2,102	863	1,874	1,776	3,976

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

B: Juniors and Seniors in the College of Letters and Science at Davis

Major	Seniors		Juniors		Totals	
American Civilization	1		4		5	
	4	5	4	8	8	13
Botany	0	0	0	1	1	1
	3		3		6	
Chemistry	0	3	2	5	2	8
	2		4		6	
Economics	0	2	0	4	0	6
	1		1		2	
English	2	3	7	8	9	11
	0		0		0	
French	0	0	4	4	4	4
	0		0		0	
General	1	1	0	0	1	1
	0		1		1	
German	0	0	0	1	0	1
	0		2		2	
History	4	4	3	5	7	9
	1		2		3	
Individual Group Majors	2	3	6	8	8	11
	0		1		1	
Mathematics	0	0	2	3	2	3
	2		1		3	
Microbiology	2	4	0	1	2	5
	1		0		1	
Physical Sciences	0	1	0	0	0	1
	1		2		3	
Political Science	0	1	0	2	0	3
	0		1		1	
Pre dental	0	0	0	1	0	1
	1		1		2	
Pre medical	1	2	0	1	1	3
	0		0		0	
Sociology	2	2	1	1	3	3
	0		0		0	
Sociology and Economics	1	1	0	0	1	1
	0		0		0	
Spanish	1	1	4	4	5	5
	4		2		6	
Zoology	1	5	2	4	3	9
TOTAL	17		25		42	
	21	38	36	61	57	99

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

C: Juniors and Seniors in the College of Letters and Science at Los Angeles

Major	Seniors		Juniors		Totals	
	12		8		20	
Anthropology	10	22	15	23	25	45
	10		15		25	
Applied Physics	0	10	0	15	0	25
	1		0		1	
Art History	2	3	1	1	3	4
	1		0		1	
Astronomy	0	1	1	1	1	2
	2		0		2	
Astronomy Mathematics	0	2	0	0	0	2
	1		0		1	
Astronomy Physics	0	1	0	0	0	1
	13		10		23	
Bacteriology	24	37	24	34	48	71
	0		1		1	
Biophysics	0	0	0	1	0	1
	1		3		4	
Botany	2	3	3	6	5	9
	71		62		133	
Chemistry	13	84	6	68	19	152
	0		0		0	
Dental Hygiene	1	1	3	3	4	4
	4		7		11	
Earth Physics and Exploration Geophysics	0	4	0	7	0	11
	29		32		61	
Economics	8	35	2	34	8	69
	24		14		38	
Elementary and Kindergarten-Primary Teaching	323	347	298	312	621	659
	60		64		124	
English	85	145	88	152	173	297
	4		5		9	
English-Speech	10	14	6	11	16	25
	4		5		9	
French	11	15	21	26	32	41
	19		10		29	
Geography	2	21	4	14	6	35
	58		54		110	
Geology	1	57	2	56	3	113
	1		4		5	
German	5	6	5	9	10	15
	68		58		124	
History	38	104	32	90	70	194
	16		13		29	
International Relations	7	23	6	19	13	42
	0		1		1	
Italian	0	0	2	3	2	3
	1		1		2	
Latin	1	2	1	2	2	4
	4		2		6	
Latin American Studies	1	5	2	4	3	9

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

Major	Seniors		Juniors		Totals	
	38		41		79	
Mathematics	11	49	11	52	22	101
	15		12		27	
Meteorology	0	15	2	14	2	29
	8		4		10	
Music	5	11	5	9	10	20
	0		1		1	
Oriental Languages	1	1	0	1	1	2
	13		16		29	
Philosophy	3	16	6	22	9	38
	50		58		108	
Physics	2	52	2	58	4	110
	121		130		251	
Political Science	27	148	26	156	53	304
	17		71		88	
Prebusiness Administration	0	17	7	78	7	95
	0		1		1	
Precriminology	1	1	0	1	1	2
	14		36		50	
Preidental	1	15	2	38	3	53
	1		0		1	
Prelibrarianship	4	5	4	4	8	9
	70		135		205	
Premedical	9	79	15	150	24	229
	0		1		1	
Prepharmacy	0	0	0	1	0	1
	3		3		6	
Presocial Welfare	10	13	15	18	25	31
	75		75		150	
Psychology	52	127	50	125	102	252
	4		2		6	
Public Service	2	6	3	5	5	11
	4		4		8	
Religion	0	4	1	5	1	9
	5		3		8	
Slavic Languages	1	6	0	3	1	9
	28		17		45	
Sociology	27	55	30	47	57	102
	11		12		23	
Spanish	8	19	22	34	30	53
	2		6		8	
Speech	10	12	4	10	14	22
	4		3		7	
Speech-English	6	10	3	6	9	16
	49		38		87	
Zoology	5	54	10	48	15	102
	47		56		103	
Undecided	29	76	37	93	66	169
	977		1,092		2,069	
TOTALS	756	1,733	777	1,869	1,533	3,602

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

D: Juniors and Seniors in the College of Applied Arts at Los Angeles

Major	Seniors		Juniors		Totals	
	0		0		0	
Apparel Design.....	17	17	14	14	31	31
	2		0		2	
Apparel Merchandising.....	20	22	29	29	49	51
	82		66		148	
Art.....	91	173	91	157	182	339
	15		18		33	
Business Education.....	48	63	60	78	108	141
	0		0		0	
Dance.....	1	1	0	0	1	1
	0		0		0	
Home Economics.....	60	60	60	60	120	120
	33		32		65	
Music.....	26	59	35	67	61	126
	80		73		153	
Physical Education.....	52	132	64	137	116	299
	0		0		0	
Prenursing.....	1	1	18	18	19	19
	0		2		2	
Prepublic Health.....	0	0	0	2	0	2
	62		69		131	
Theater Arts.....	33	95	27	96	60	191
	2		4		6	
Undecided.....	0	2	0	4	0	6
TOTALS.....	276	625	264	662	540	1,267
	349		398		747	

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVII—Continued

E: Juniors and Seniors in the College of Letters and Science at Riverside

Major	Seniors		Juniors		Totals	
Major Programs	1		2		3	
Bacteriology	0	1	0	2	0	3
Botany	0	0	3	3	0	3
Chemistry	9		10		19	
Economics	0	9	1	11	1	20
English	3		7		10	
Geology	0	3	0	7	0	10
German	7	14	9	16	16	30
History	2		5		7	
Mathematics	0	2	0	5	0	7
Philosophy	0	1	0	0	1	1
Physics	7		12		19	
Political Science	5	12	3	15	8	27
Psychology	4		8		12	
Romance Languages	4	8	0	8	4	16
Sociology	0	0	2	2	2	2
Zoology	6		13		19	
TOTAL MAJORS	0	6	0	13	0	19
Divisional Programs	4	5	1	10	2	15
Biology	3		6		9	
Biology-Chemistry	3	6	3	9	6	15
Social Sciences	2		3		5	
TOTAL DIVISIONAL	0	2	2	5	2	7
TOTAL JUNIORS AND SENIORS	3	6	2	7	5	13
	11		21		32	
	0	11	0	21	0	32
	62		113		175	
	24	86	21	134	45	220
	4		3		7	
	2	6	3	6	5	12
	1		2		3	
	0	1	2	4	2	5
	8		6		14	
	9	17	14	20	23	37
	13		11		24	
	11	24	19	30	30	54
	75		124		199	
	35	110	40	164	75	274

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Continued

F: Undergraduate Students at Santa Barbara College

Major	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Total Undergrad.	
Art	8		8		4		5		25	
	11	19	9	17	12	16	26	31	58	83
Biology	2		3		0		10		15	
	2	4	1	4	3	3	10	20	16	31
Botany	0		1		0		0		1	
	1	1	0	1	0	0	0	0	1	2
Chemistry	5		3		4		8		20	
	0	5	0	3	3	7	4	12	7	27
Divisional Majors	1		5		5		2		13	
	1	2	3	8	7	12	7	9	18	31
Economics	19		28		20		19		86	
	0	19	1	29	0	20	5	24	6	82
Education:	15		10		2		2		29	
Elementary	63	78	73	83	68	70	103	105	307	336
Junior High	12		9		5		3		29	
Kindergarten Primary	6	18	9	18	6	11	13	16	34	63
Totals, Education	0		0		0		0		0	
	19	19	17	17	15	15	48	48	99	99
Education (academic major)	27		19		7		5		58	
	1	1	0	0	2	2	0	1	3	4
English	2		7		2		3		14	
	5	7	6	13	7	9	22	25	40	54
French	0		0		0		0		0	
	1	1	3	3	1	1	6	6	11	11
Geology	6		8		4		9		27	
	0	6	0	8	0	4	1	10	1	25
History	14		10		7		10		41	
	1	15	1	11	7	14	6	16	15	56
Home Economics	0		0		0		0		0	
	30	30	18	18	17	17	56	56	121	121
Industrial Arts	58		48		44		21		171	
	1	59	1	49	0	44	2	23	4	175
Mathematics	3		4		3		9		19	
	1	4	0	4	2	5	6	15	9	28
Music	11		11		6		6		34	
	3	14	9	20	3	9	13	19	28	62
Philosophy	0		3		1		0		4	
	0	0	0	3	1	2	0	0	1	5
Physical Education	22		28		21		12		81	
	13	35	16	42	12	33	41	53	82	163
Physical Science	1		2		0		4		7	
	0	1	0	2	0	0	1	5	1	8
Physics	3		3		4		17		27	
	0	3	0	3	0	4	1	18	1	28

SUMMARY OF STUDENTS, FALL SEMESTER 1955

TABLE XVIII—Concluded

Major	Seniors 4th year		Juniors 3d year		Sophomores 2d year		Freshmen 1st year		Total Undergrad.	
Political Science	9		16		13		22		60	
	3	12	3	19	4	17	4	28	14	74
Psychology	13		7		3		4		27	
	5	18	0	7	9	12	17	21	31	58
Social Science	7		7		6		3		23	
	1	8	1	8	3	9	9	12	14	37
Sociology	4		5		3		2		14	
	2	6	5	10	3	6	10	12	20	34
Spanish	4		6		0		4		14	
	0	4	2	8	1	1	3	7	6	20
Speech	7		4		3		6		20	
	3	10	3	7	6	9	8	14	20	40
Zoology	15		9		15		15		54	
	8	23	1	10	7	22	25	40	41	95
Specials	0		0		0		0		1	
	0	0	0	0	0	0	0	0	3	4
Undeclared	0		0		0		30		30	
	0	0	0	0	4	4	42	72	46	76
TOTALS	241		243		175		227		887	
	181	442	182	425	203	378	489	716	1,058	1,945

SUMMARY OF STUDENTS, SPRING SEMESTER 1956

TABLE XIX

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

Berkeley:	7,901	
Undergraduate.....	4,325	12,228
	3,144	
Graduate.....	906	4,049
	11,045	
Total.....	5,230	16,275
Davis:	986	
Undergraduate.....	448	1,444
	362	
Graduate.....	29	381
	1,368	
Total.....	477	1,835
La Jolla:	32	
Scripps Institute of Oceanography.....	1	33
Los Angeles:	8,833	
Undergraduate.....	4,417	11,250
	2,823	
Graduate.....	721	3,544
	9,666	
Total.....	5,138	14,794
Mt. Hamilton:	0	
Lick Astronomical Department.....	0	0
Riverside:	449	
Undergraduate.....	193	642
	4	
Graduate.....	2	6
	453	
Total.....	195	642
San Francisco:	377	
Hastings College of the Law.....	19	396
Medical Center:		
College of Dentistry	3	
Academic Curricula.....	0	3
	263	
Professional Curricula.....	36	269
	5	
Postgraduates.....	1	6
	281	
Totals, College of Dentistry.....	37	298
	5	
Medical Departments, Academic Curricula.....	1	6
	435	
School of Medicine, Professional Curricula.....	62	497
	0	
School of Nursing.....	191	191

SUMMARY OF STUDENTS, SPRING SEMESTER 1956

TABLE XIX—Concluded

College of Pharmacy:	11		
Academic Curricula	1	12	
	178		
Professional Curriculum	22	198	
			187
Totals, College of Pharmacy			23 210
			31
School of Pharmacy			1 32
			218
Totals, Pharmacy			24 242
			919
Totals, Medical Center			315 1,234
			1,296
Total			334 1,830
Santa Barbara:			887
Undergraduate			967 1,834
			57
Graduate			20 77
			924
Total			987 1,911
Deductions:			
			2
Graduate students registered at Berkeley but in attendance at Riverside	0	2	
Graduate students registered at Berkeley but in attendance at San Francisco:	3		
College of Dentistry (academic curricula)	0	3	
			5
Medical Departments (academic curricula)	1	6	
			11
College of Pharmacy (academic curricula)	1	12	
			32
Graduate students registered at Los Angeles but in attendance at La Jolla	1	33	
			2
Graduate students registered at Los Angeles but in attendance at Riverside	2	4	
			55
Total deductions			5 60
			24,709
NET TOTAL RESIDENT STUDENTS			12,357 37,068

