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INFORMATION	January
SUMMER QUARTER	February
HOPKINS MARINE STATION	March
GRADUATE SCHOOL OF BUSINESS	April
SCHOOL OF LAW	May
ANNOUNCEMENT OF COURSES	May
SCHOOL OF NURSING	June
SCHOOL OF MEDICINE	August
LET'S TALK ABOUT STANFORD	October

Address:

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STANFORD UNIVERSITY, STANFORD, CALIFORNIA

STANFORD ENGINEERING NEWS. Published in January, April, and October. [Registrar's Office. No charge.]

STANFORD TODAY. Published in February, May, August, and November. [Registrar's Office. No charge.]

UNIVERSITY DIRECTORY. Published in October (50 cents); with supplements in January and April (10 cents each). [On sale at the Cashier's Office.]

TIME SCHEDULE OF LECTURES AND LABORATORY WORK. Printed in September, December, March, and May, for the next succeeding quarter. [Registrar's Office. No charge.]

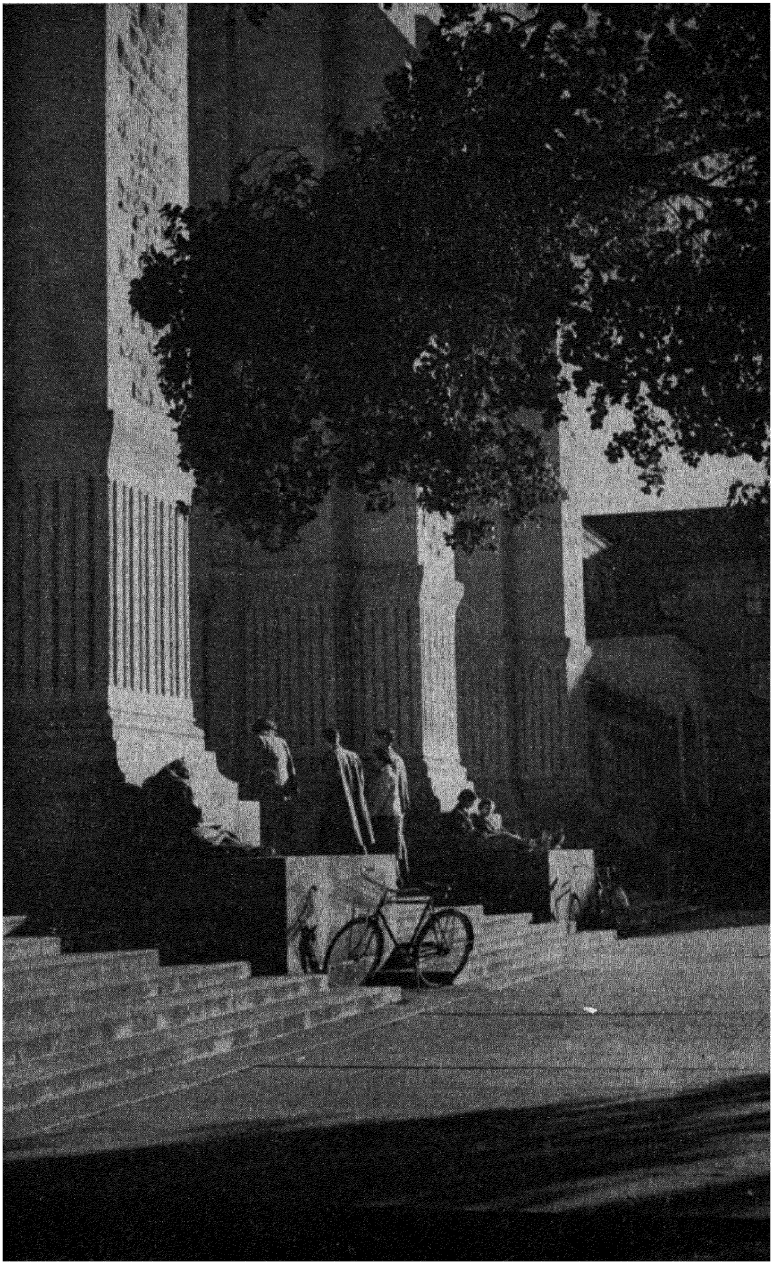
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STANFORD UNIVERSITY PRESS

STANFORD, CALIFORNIA



STANFORD UNIVERSITY

INFORMATION

Admission, Expenses, Aid Funds
General Regulations, Degrees

STANFORD, CALIFORNIA
PUBLISHED BY THE UNIVERSITY

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1954

January

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University Calendar

1954

Winter Quarter

Jan.	2	Saturday, 1:30 P.M.	English Matriculation Test
Jan.	4	Monday	Registration for Winter Quarter
Jan.	5	Tuesday	Instruction begins
Jan.	8	Friday	Conferring of Degrees
Feb.	22	Monday	Holiday for Washington's Birthday
Mar.	9	Tuesday	Founders' Day
Mar.	15–19	Monday–Friday	End-Quarter Examinations

Spring Quarter

Mar.	27	Saturday, 1:30 P.M.	English Matriculation Test
Mar.	29	Monday	Registration for Spring Quarter
Mar.	30	Tuesday	Instruction begins
April	2	Friday	Conferring of Degrees
June	4–9	Friday–Wednesday	End-Quarter Examinations
June	12	Saturday	Senior Class Day
June	13	Sunday	Baccalaureate Sunday
June	13	Sunday	Commencement

Summer Quarter

June	19	Saturday, 1:30 P.M.	English Matriculation Test
June	21	Monday	Registration for Summer Quarter
June	22	Tuesday	Instruction begins
July	5	Monday	Independence Day (Holiday)
Aug.	13–17	Friday–Tuesday	Eight-Week Term Examinations
Aug.	17	Tuesday	Eight-Week Term closes
Aug.	31	Tuesday	Quarter closes

Autumn Quarter

Sept.	24	Friday, 8:00 P.M.	English Matriculation Test
Sept.	24	Friday, 2:00 P.M.	Language Placement Tests
Sept.	27–28	Monday–Tuesday	Registration for Autumn Quarter
Sept.	29	Wednesday	Instruction begins
Oct.	1	Friday	Conferring of Degrees
Oct.	3	Sunday	Matriculation Sunday
Nov.	25–28	Thursday–Sunday	Thanksgiving Recess
Dec.	13–17	Monday–Friday	End-Quarter Examinations

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The University

Stanford University was established under an Enabling Act passed by the California Legislature on March 9, 1885, and the Founding Grant establishing the University trust was executed by Leland and Jane Lathrop Stanford on November 11 of the same year. Cornerstone of the institution was laid May 14, 1887, and instruction began October 1, 1891.

The University is a memorial to Leland Stanford Junior, only child of the Stanfords. Its full title is The Leland Stanford Junior University, but the shorter name is more commonly used. It is independent, both economically and politically, and is also nondenominational, coeducational, and residential. Virtually all women students and a considerable proportion of the men students live in University residences.

Leland and Jane Stanford were pioneers in the development of the West, and particularly California. Although he was trained in law in New York State and had practiced in Wisconsin, Mr. Stanford began his career in California as a merchant with his brothers. He came to California in 1852, after the discovery of gold had made the state the center of world attention.

His business success in the gold fields led him to establish, with his brothers, large scale operations in Sacramento, the new capital. He rapidly became one of the foremost leaders in both business and politics, played a major part in the construction of the first transcontinental railroad, and was elected Governor of California and later United States Senator. One of the founders of the Republican party in California, he was an ardent follower of Abraham Lincoln and is credited with keeping California in the Union while Governor during the Civil War.

Leland Junior was born to Mrs. Stanford after eighteen years of childless marriage, and as their only heir was the center of his parents' hopes and ambitions. He was a promising youngster, but he died tragically of typhoid fever in the Grand Hotel, Florence, Italy, during a European trip with his parents. This was on March 13, 1884, two months before his 16th birthday.

Tremendously shaken by the loss, the Stanfords determined to devote their immense wealth to a memorial to him which would provide for other children the advantages they had intended for their son. The establishment of a university was a natural development of Senator Stanford's career-long interest in education; as a businessman he had discerned a need for liberal education among the young men he had hired, and as a member of the Senate he was author of a bill which would have provided for federal aid to education.

The Stanford gift was the greatest in the history of education, something over $20,000,000. Columbia University, second in assets among American universities at the time, had a total worth approaching $6,000,000.

Prior to his son's death Senator Stanford had started the Palo Alto Stock Farm, where he bred and trained world champion trotting and pacing horses. Later chosen as the site for the memorial University, it was about 30 miles south of San Francisco, beside the main line of the Southern Pacific railroad. The Senator began with a 650-acre farm and eventually purchased well over 8,000 acres. The magnitude of the farm was typical of his large planning; he produced, through his own selection, breeding, and training methods, world record-holding trotters in every age classification. The farm was the largest of its kind in the world.

Name of the farm came from the Palo Alto, the towering redwood tree (*Sequoia sempervirens*) near the northwest corner of the property. It had been named by the early Spanish explorers, to whom it was a major landmark. Literally

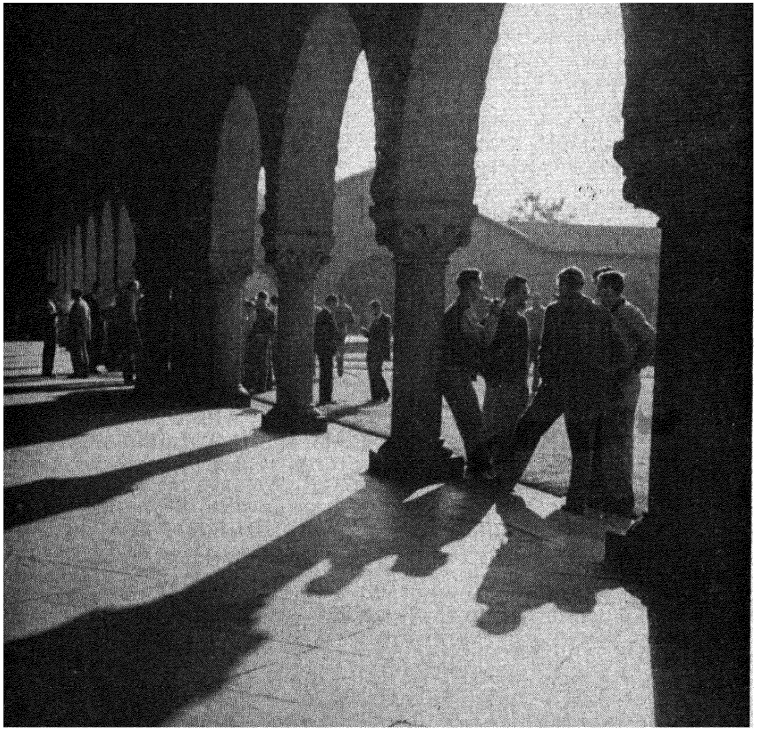
translated, the name means *tall stick.* The city of Palo Alto, which came into being after the establishment of the University, also is named for the tree. The University has adopted the tree as its official symbol.

The Stanfords felt the Palo Alto Farm was the logical place for the University because of the climate and proximity to a major city, San Francisco. The Founding Grant provides that the lands, which now approximate 8,800 acres, may never be alienated from the University trust. About a third of the holdings has been reserved by the Board of Trustees for University purposes, and the remainder is being developed under leases for residential, commercial, and other uses.

In addition to the campus at Palo Alto, the University maintains a School of Medicine in San Francisco and the Hopkins Marine Station at Pacific Grove on Monterey Bay.

Palo Alto temperatures average about 60 degrees midday in winter and 74 degrees midday in summer. Humidity is low, nights are cool, and rainfall is exceedingly rare from May through September. Average precipitation is 15½ inches annually, the bulk of it occurring in December, January, and February. Freezing temperatures and frosts are infrequent, and there is no snow.

Prior to World War II the slowly rising enrollment had reached a peak of slightly more than 4,000. After the war the influx of veterans boosted the enrollment rapidly to nearly 9,000, but it has now tapered off to around 7,000.



Admission to the University

GENERAL REQUIREMENTS

At Stanford University the number of students that can be admitted is limited by the academic and residential facilities that are available. For this reason admissions are competitive and only those applicants with the better qualifications can be accepted.

Admission to the University may be granted with Lower Division, Upper Division, University, or Graduate standing. Candidates for admission must present satisfactory recommendations and credentials as required by the division concerned. In general, all candidates must present evidence of high scholastic achievement, aptitude for university work, and recommendations as to character and personal qualifications in order to be considered by the University Committee on Admissions. A health examination is required of all students prior to completion of matriculation.

Additional information and application blanks will be furnished by the Office of Admissions on request. The use of official blanks is required. In requesting such materials address: Office of Admissions, Stanford University, Stanford, California.

FOREIGN STUDENTS

Candidates from foreign countries who present credentials equivalent to the requirements for admission to the University, and whose command of written and spoken English shall be deemed adequate for purposes of college study, may be admitted.

Students from non-English speaking countries are required to take tests of oral and written English upon arrival. If their command of English is found to be insufficient, admission may be withheld or they may be required to take special courses in English for Foreign Students.

ADMISSION TO THE LOWER DIVISION

General Information

Admission to the Lower Division may be granted (A) to candidates from preparatory schools and (B) to candidates from other colleges and universities. The University Committee on Admissions will consider those applicants who meet the minimum requirements, based upon academic record, aptitude for college work, and personal qualifications.

Application for admission to the Lower Division by candidates from preparatory schools must be made upon the official blanks furnished by the Office of Admissions, and all credentials must be filed with the Office of Admissions on or before the following dates:

April 15 for the Autumn Quarter
December 15 for the Spring Quarter
April 15 for the Summer Quarter

Selection will be made after the closing dates, but actual matriculation in the University will be permitted only when all requirements have been fulfilled prior to the first day of the quarter for which the candidate has been admitted.

Applications from outstanding candidates who file after the final date for a particular quarter may be considered by the Committee on Admissions if facilities are available. Freshmen and candidates with less than one full year of college work are not admitted for the Winter Quarter.

The total number of candidates admitted is limited by the capacities of the academic and residential facilities. As a general rule, approximately seven hundred men and three hundred fifty women are admitted to the freshman class for the Autumn Quarter. Admission for subsequent quarters varies in accordance with the accommodations available.

(A) Candidates from Preparatory Schools

The credentials required from candidates seeking admission to the Lower Division from preparatory schools are: (1) the completed application blank with the application fee of five dollars; (2) transcript of all academic work in all preparatory schools attended; (3) completed personal recommendation blanks filled out by the principal or counselor and by a teacher; and (4) the report of the score on the College Board Scholastic Aptitude Test. The closing dates for the filing of these credentials are given on page 13. Detailed information on the Scholastic Aptitude Test may be found on pages 20 22.

ACADEMIC REQUIREMENTS

Candidates may fulfill the academic requirements, as explained below, either (1) by completion of a regular four-year high-school course, or its equivalent, in an accredited preparatory school; or (2) in certain unusual circumstances *by passing the examination* of the College Entrance Examination Board.

The academic requirements for admission by certification from preparatory schools include a certified record of a regular four-year preparatory course, including evidence of graduation; and, in addition, adequate evidence of ability demonstrated during the last three years of a four-year preparatory school or in a senior high school.

The credentials must show:

1. Graduation from an accredited preparatory school.
2. An acceptable recommendation as to academic promise from the preparatory school principal.
3. A satisfactory score on the Scholastic Aptitude Test offered by the College Entrance Examination Board.
4. The completion of fifteen units with passing grades.
5. The completion, after the ninth grade, of two units of English with passing grade.
6. The fulfillment of one of the following requirements concerning the quality of the school work:
   a) The completion, after the ninth grade, of *eleven* units, each with recommending or certificate grade.
   b) The completion, after the ninth grade, of *nine* units, each with recommending or certificate grade, *provided* the score obtained on the Scholastic Aptitude Test is above the Stanford median.
   c) The completion after the ninth grade, of *nine* units, each with recommending or certificate grade, *provided* that the average of the total record after the ninth grade and the average of the work of the last two years is not less than B on the basis that A, B, C, and D are the passing grades.

A *unit* represents a year's study of one subject in a preparatory school, normally in a class meeting five times a week for forty-minute recitation periods, or the equivalent. In assigning credit values, two periods of laboratory, shop, drawing, typing, or practice periods, not requiring additional study or preparation, are regarded as the equivalent of one recitation period. The length of the school year is assumed to be from thirty-six to forty weeks.

One unit only will be accepted for typing; not more than three for music (only one of which may be in vocal or instrumental technique or both); and none will be accepted for physical education, military training, penmanship, or spelling.

Recommending or *certificate grades* are established by the accredited secondary school. The final grade in the year course determines whether the work is college recommending; in the case of half-year courses with recommending or certificate grades, appropriate credit will be given.

Units first completed with less than recommending grades may be raised to the recommending standard, either by repetition in a regular school term or by passing the examination of the College Entrance Examination Board in that subject.

In certain unusual circumstances the academic requirements for admission to the Lower Division may be met by passing three of the subject examinations of the College Entrance Examination Board, as well as the Scholastic Aptitude Test. This method of qualifying is not an alternative for the usual preparatory school candidate, but is for mature individuals or persons with unusual academic backgrounds, and may be used only with the approval of the Director of Admissions.

APPROVED PREPARATORY SCHOOLS

Approved preparatory schools are schools maintaining full four-year high-school courses, or full three-year senior high-school courses, and accredited (1) by the New England College Entrance Certificate Board, by the North Central Association of Colleges and Secondary Schools, by the Association of Colleges and Secondary Schools of the Southern States, by the Association of Colleges and Secondary Schools of the Middle States and Maryland, by the Northwest Association of Secondary and Higher Schools, by colleges and universities of recognized standing, or (2) upon inspection undertaken or authorized by the University.

The University records of first-year students will be considered as additional evidence of the standing of preparatory schools.

HIGH SCHOOL PREPARATION

The standard of preparation is the four-year high-school course. The proper co-ordination of high-school subjects for the individual pupil is regarded as primarily a problem for the secondary school; the University is prepared to recognize for entrance credit any subject having an established place in the secondary school curriculum, in which adequate instruction is given and which is pursued to satisfactory results.

The only subject required for admission with freshman standing is English (minimum of two years after the ninth grade). Students will find it helpful when they come to Stanford, however, to have had in high school American and European history, at least one year of laboratory science (preferably biology, botany, physiology, or zoology), and as much of one foreign language as possible. Completion of these subjects in high school will permit students to devote more of their time during the first two years at Stanford to elective subjects in their probable major field.

Students who will major in the School of Engineering at Stanford need not take a foreign language in high school. They should, however, if possible, take high-school mathematics through trigonometry.

Most of the science departments in the University, including the School of Medicine, require a reading knowledge of French or German for graduation, and German is required for all advanced degrees in the Chemistry Department. It is advantageous to begin these languages before matriculation.

LOWER DIVISION GENERAL EDUCATION SUBJECTS

The Lower Division consists of the first and second years of the University curriculum and, during this period, the completion of certain subjects is required of all students. These subjects are arranged in three groups and full explanation concerning the requirements in each group will be found on pages 84–86.

English Matriculation Test.—All entering Lower Division students (except transfer students with credits in English composition that have been accepted by Stanford University) must take the English Matriculation Test. This will be given each quarter just before Registration Day at a time to be announced in the University calendar. The examination will test the candidate's knowledge of spelling, grammar, punctuation, and sentence structure. A student who does not pass will be required to complete English A before enrolling for English 2*a*.

(B) CANDIDATES FROM OTHER COLLEGES AND UNIVERSITIES

Application for admission to the Lower Division with advanced standing will be received from candidates from other colleges and universities who have completed work which is satisfactory in quality but less in quantity than the amount required for admission to the Upper Division. A candidate who has completed less than 39 quarter units, or 26 semester units, must also meet the requirements for entrance from preparatory schools.

The credentials required from candidates seeking admission to the Lower Division with advanced standing are: (1) the completed application blank with the application fee of five dollars; (2) complete official transcript of work from *each* college attended; (3) completed personal recommendation forms filled out by faculty members at the institution last attended; and (4) the report of the score on the College Transfer Test given by the College Entrance Examination Board. Detailed information on the College Transfer Test may be found on pages 20–22. The closing dates for the filing of these credentials are:

June 1 for the Autumn Quarter
December 1 for the Winter Quarter
January 15 for the Spring Quarter
June 1 for the Summer Quarter

Selection will be made after the closing dates, but actual matriculation in the University will be permitted only when all requirements have been fulfilled prior to the first day of the quarter for which the candidate has been admitted.

The *quality of the work* will be considered satisfactory if the average grade of the entire previous record, including the last quarter or semester, is at least equivalent to the quality represented by the average grade of C at Stanford, where the grading scale includes A, B, C, and D as passing grades. The determination of the equivalence of the average grades of any institution is based upon the Stanford records of students who have transferred to this University.

Candidates admitted to the Lower Division with advanced standing should expect to complete the Lower Division General Education program before being admitted to the Upper Division. The requirements of this program may be found on pages 84–86.

ADMISSION TO THE UPPER DIVISION

Application for admission to the Upper Division will be received from candidates from other colleges and universities who have completed collegiate work which is satisfactory in quantity and quality.

The credentials required from candidates seeking admission to the Upper Division are: (1) the completed application blank with the application fee of

five dollars; (2) complete official transcript of all collegiate work from *each* college attended. Graduates of approved junior colleges are expected to submit evidence of having received the Associate of Arts or Associate of Science degree; (3) completed personal recommendation forms filled out by members of the faculty at the institution last attended; and (4) the report of the score on the College Transfer Test given by the College Entrance Examination Board. Detailed information on the College Transfer Test may be found on pages 20–22. The closing dates for the filing of these credentials are:

June 1 for the Autumn Quarter
December 1 for the Winter Quarter
January 15 for the Spring Quarter
June 1 for the Summer Quarter

Selection will be made after the closing dates, but actual matriculation in the University will be permitted only when all requirements have been fulfilled prior to the first day of the quarter for which the candidate has been admitted.

Applications from outstanding candidates who file after the final date for a particular quarter may be considered by the Committee on Admissions if facilities are available.

The *quantity requirement* is met by those who have completed at least 87 transferable quarter units or 58 transferable semester units (two years) at an institution of recognized standing. Courses parallel to Stanford courses are transferable, and credit for physical or military training will not be counted as part of this required number of units. In addition, candidates for admission to the Upper Division must have completed substantially the equivalent of the Stanford Lower Division General Education program. For detailed information on this requirement, see pages 84–86.

Those admitted from other recognized four-year institutions having a lower division general education program will have satisfied Stanford's Lower Division requirements if they have completed that program.

Those admitted from accredited junior colleges will have met Stanford's Lower Division requirements if they have completed the lower division general education program required for admission to a college or school of their state university. This program, however, must be that necessary for the college or school parallel to the one to which admission is sought at Stanford.

The *quality* of the work will be considered satisfactory if the average grade of the entire previous collegiate record, including the last quarter or semester, is at least equivalent to the quality represented by the average grade of C at Stanford, where the grading scale includes A, B, C, and D as passing grades. The determination of any other institution's equivalence of a Stanford C is based upon the Stanford records of students who have transferred from that institution.

The number of men and women admitted to the Upper Division in any particular quarter is limited by the academic and residential facilities available. Therefore, only those applicants with the better qualifications will be admitted.

Special restrictions are in force in the School of Medicine, the School of Nursing, and at the Hopkins Marine Station. In these divisions of the University, applicants must first satisfy the general admission requirements and then meet special requirements which are ordinarily on a competitive basis. Special requirements for these divisions will be found in the appropriate bulletin. Special requirements for the School of Law are listed on page 19 of this publication.

ADMISSION TO THE UNIVERSITY DIVISION

The University Division has been organized to permit students to proceed directly toward the degree of Master of Arts, or other advanced degrees, with-

out obtaining the Bachelor's degree. Admission to the University Division does not usually result in any reduction in time necessary to earn an advanced degree; residence requirements are not reduced for students in the University Division. The plan involves the preparation of an individual program of study through careful, personal consultation with members of the faculty in the major field; petition to the University Committee on Graduate Study for admission to the University Division; and application for admission to candidacy for an advanced degree as outlined in this publication under "Advanced Degrees" (pages 87–93).

In order that these degrees may represent breadth as well as depth, it is the policy of the University that a substantial portion (ordinarily not less than one-third) of the work must be done in fields outside the student's major department. Students are advised to see the Graduate Study Secretary (Room 111M) for further information.

Three classes of students may be admitted to the University Division:

1. *Stanford Upper Division Students.*—To be eligible for transfer to the University Division, a student must have earned an average of B or better on his work at Stanford, and also on any work completed at colleges or universities other than Stanford.

2. *Stanford Lower Division Students.*—The grade requirement is the same as for Stanford Upper Division students given above. The transfer of Lower Division students must be approved by the Committee on Lower Division Administration before it will be considered by the Committee on Graduate Study. This approval is not granted as a means of circumventing Lower Division requirements.

3. *New Students.*—To be eligible for admission to the University Division, new students must have completed at least 87 quarter units at an educational institution of recognized standing, with a grade average no lower than the equivalent of a B average at Stanford.

They must apply for admission to Stanford University on blanks which may be obtained from the Office of Admissions. All credentials must be filed with the Office of Admissions on or before the following dates:

June 1 for the Autumn Quarter, December 1 for the Winter Quarter, January 15 for the Spring Quarter, and June 1 for the Summer Quarter. (Candidates who have outstanding qualifications and who file credentials after June 1 may be admitted for the Autumn Quarter, provided facilities are available.)

Selection will be made after these dates, but actual matriculation in the University will be permitted only when all requirements have been fulfilled prior to the first day of the quarter for which the selection has been made.

The credentials required are: (1) Personal application for admission with University Division standing, including application fee of five dollars; (2) official transcript from *each* college attended, including statement of honorable dismissal from the institution last attended; (3) two statements of personal qualifications on blanks furnished by the University, at least one of which shall be filled out by an instructor in the institution last attended; (4) official report of the College Transfer Test of the College Entrance Examination Board.

ADMISSION TO THE GRADUATE DIVISION

Applicants for admission to the Graduate Division may become candidates either for advanced degrees or for teaching or administrative credentials; or they may pursue regular advanced, professional, or research courses. They must be graduates of colleges and universities of recognized standing, and their credentials must evidence ability and promise.

Admission to the University with graduate standing does not necessarily

imply immediate admission to candidacy for an advanced degree. (For details concerning the requirements for advanced degrees consult pages 87–93.)

The total number of men and women admitted to the Graduate Division, although not fixed, is limited by the facilities that can be provided in the various schools and departments of the University. Applicants must first satisfy the general admission regulations, and then meet special requirements of a specific school or department. Admission is ordinarily on a competitive basis, preference being given to applicants with superior preparation and fitness for the work to be undertaken.

Application and Credentials.—Application for admission must be made on the blank furnished by the University, and the candidate must designate on this blank his selection of a major field of study. All credentials should be filed with the Office of Admissions on or before the following dates: August 15 (February 15 for Physics) for the Autumn Quarter, December 1 for the Winter Quarter, March 1 for the Spring Quarter, and June 1 for the Summer Quarter.

The credentials required are: (1) Personal application for admission with graduate standing, including application fee of five dollars; (2) *official* transcript from *each* college attended, including certificate of degrees received; (3) three statements of personal qualifications on blanks furnished by the University.

Any graduate applicant who has taken the Graduate Record Examination should file his test results.

Special Requirements for Professional Programs

Graduate School of Business.—In addition to the regular University application materials, all applicants are required to file the special application of the Graduate School of Business. The necessary blanks will be supplied by the School upon request. Complete credentials must be on file in the Office of Admissions and in the Office of the Graduate School of Business before June 1 for consideration for admission to the class entering in the Autumn Quarter.

School of Law.—In addition to the regular University application materials, all applicants are required to file the special application of the School of Law. The necessary blanks will be supplied by the School upon request. They must also file duplicate, official transcripts and must take the Law School Admission Test. For an application blank and bulletin of information which will give complete details about the administration of the Law School Admission Test, the applicant should write to the Educational Testing Service, P.O. Box 592, Princeton, New Jersey.

The completed application blank, accompanied by the examination fee of ten dollars, must be in the Princeton office of the Educational Testing Service not later than the dates specified in the following schedule:

Date of Test	Closing Date at Princeton
February 20, 1954	February 6, 1954
April 10, 1954	March 27, 1954
August 7, 1954	July 24, 1954

Each candidate is urged to apply early for the particular date on which he expects to be examined. It is not necessary that formal application for admission to the Stanford School of Law be made prior to taking the Admission Test.

School of Medicine.—The special application dates for students desiring to register in Medicine will be found in the *Announcement of the School of Medicine.*

School of Mineral Sciences.—All applicants are required to take the Aptitude Test and one Advanced Test of the Graduate Record Examination. Candidates expecting to take this examination at scheduled centers in Arizona, California,

Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Australia, Canada (Alberta and British Columbia), Hawaii, Mexico, and all Pacific Islands should write to the Educational Testing Service, P.O. Box 9896, Los Feliz Station, Los Angeles 27, California.

Candidates who plan to take the Graduate Record Examination at a center in any state or place *not* listed above should write to the Educational Testing Service, P.O. Box 592, Princeton, New Jersey.

Every candidate is required to file with the Educational Testing Service a formal application for examination and to pay an examination fee. All applications and fees must reach the Princeton or Los Angeles office of Educational Testing Service not later than the dates specified in the following schedule:

Date of Test	Closing Date at Princeton and Los Angeles
January 30, 1954	January 15, 1954
May 1, 1954	April 16, 1954
July 10, 1954	June 25, 1954

Division of Physical Therapy.—Candidates for admission should write to the Director, Division of Physical Therapy, Stanford University, Stanford, California.

EXAMINATIONS OF THE COLLEGE ENTRANCE EXAMINATION BOARD

All candidates for admission to the Lower Division, the Upper Division, and the University Division are expected to take the appropriate examination of the College Entrance Examination Board. Candidates for admission to the freshman class are expected to take the Scholastic Aptitude Test; candidates for advanced undergraduate standing are expected to take the College Transfer Test prior to action on their applications for admission to the University. The two examinations are given at the same time and place at numerous testing centers throughout the United States and in certain foreign countries. Arrangements to take these examinations should be made directly with the office of the College Entrance Examination Board.

In 1954 the College Entrance Examination Board will conduct the Scholastic Aptitude Test and the College Transfer Test, as well as a complete program of Achievement Tests, on each of the following dates at the various testing centers:

Saturday, January 9, 1954	Saturday, May 22, 1954
Saturday, March 13, 1954	Wednesday, August 11, 1954

On each of the dates, the schedule of tests will be as follows:

8:30 A.M. Scholastic Aptitude Test (Verbal and Mathematical Sections)
8:30 A.M. College Transfer Test
1:45 P.M. Achievement Tests (Candidates may not take more than three)

Achievement Tests are administered in the following subjects:

English Composition	Biology
Social Studies	Chemistry
French Reading	Intermediate Mathematics
German Reading	Advanced Mathematics
Latin Reading	Physics
Spanish Reading	

In addition, at the March 1954 series only, achievement tests in Greek and Italian Reading will be offered, but only to candidates who register in advance specifically for such tests.

Copies of the College Entrance Examination's *Bulletin of Information* for the appropriate test may be secured from the office of the Board. The bulletin contains rules and regulations concerning applications, fees, reports, rules concerning conduct of the tests, advice to candidates, descriptions of the tests, sample questions, and lists of examination centers.

Candidates expecting to take the appropriate examinations at testing centers in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Hawaii, Alberta, British Columbia, Mexico, Australia, the Pacific Islands, and Japan and Formosa should make application to:

College Entrance Examination Board
P.O. Box 9896
Los Feliz Station
Los Angeles 27, California

Candidates expecting to take the examination at testing centers in any state or foreign area not listed above should make application to:

College Entrance Examination Board
P.O. Box 592
Princeton, New Jersey

Application forms will be sent to any teacher or candidate upon request. When ordering forms, candidates should state whether they wish applications for the January, March, May, or August tests. Application forms for the January tests will be ready for distribution about December 1; those for the March series on January 11; the May series on March 15; and the August series on May 17, 1954. A copy of the *Bulletin of Information* is sent routinely to every candidate requesting an application blank for the tests.

Each application for registration for one of the tests of the College Entrance Examination Board must be accompanied by the examination fee. A schedule of fees follows:

Scholastic Aptitude Test only	$ 6.00
Scholastic Aptitude Test, and one, two, or three achievement tests	12.00
College Transfer Test	6.00
One, two, or three achievement tests	8.00

All applications and fees should reach the appropriate office of the Board not later than the dates listed below:

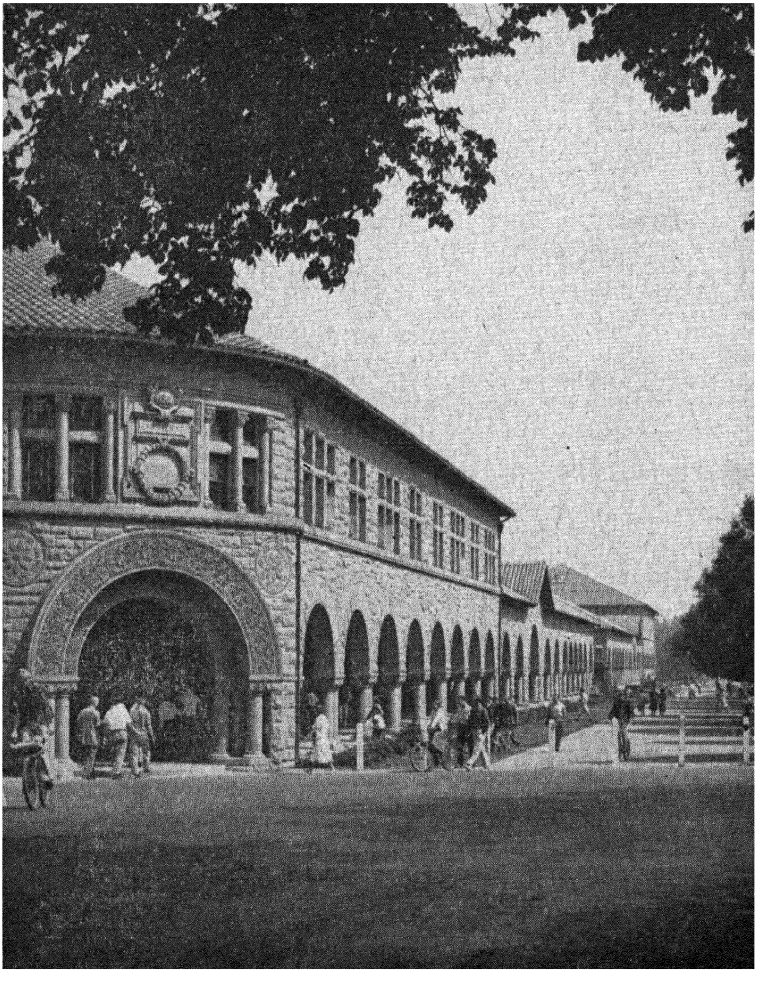
	For Examination Centers Located	
Date of Tests	In United States, Canada, Canal Zone, Mexico, or West Indies	Outside United States, Canada, Canal Zone, Mexico, or West Indies
January 9, 1954	December 19, 1953	November 21, 1953
March 13, 1954	February 20, 1954	January 23, 1954
May 22, 1954	May 1, 1954	March 27, 1954
August 11, 1954	July 21, 1954	June 23, 1954

Applications received later than these closing dates will be subject to a penalty fee of three dollars in addition to the regular fee.

Candidates are urged to send in their applications and fees as early as possible, preferably at least several weeks before the closing date, since early registration allows time to clear up possible irregularities which might otherwise delay the issuance of reports. Under no circumstances will an application be accepted if it is received at the Board office later than one week prior to the date of the examination. No candidate will be permitted to register with the supervisor of an

examination center at any time. Only properly registered candidates, holding tickets of admission to the centers at which they present themselves, will be admitted to the tests. Requests for transfer of examination center cannot be considered unless these reach the Board office at least one week prior to the date of the examination.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.



Fees, Expenses, and Aid Funds

FEES

The Application Fee for all candidates for admission to the University, and for all registered students applying for admission to the Graduate Division, is $5, payable at the time of application. (This fee, once paid, is not returnable, but may be transferred to any subsequent quarter.)

The Tuition and Required Fees are payable at the time of registration. Board and room charges are payable during the first ten days following registration. When necessary, arrangements may be made to pay fees and other charges in installments (see below).

The Total Tuition and Fees payable each quarter are as follows:

	To September 1, 1954	After September 1, 1954
Graduate School of Business	$235.00	$265.00
School of Medicine	260.00	290.00
All other Schools and Departments	220.00	250.00
Graduate Students* (half-time rate)	125.00	140.00

Women's Residences

Room and board	$250.00
Club dues (maximum)	4.00

Men's Residences

Room	$ 37.50–100.00
Board	165.00
Club dues	2.00

Miscellaneous

Chemistry deposit (see laboratory charges below)	$ 5.00– 20.00
Books	10.00– 20.00
Dissertation fee (see pages 89–92)	40.00

Estimated Total Expenses for Quarter.—Based upon the charges listed above, the cost per quarter will range between $425 and $485 ($30 additional after September 1, 1954). These amounts do not take into account charges for laundry, clothing, railway fares, entertainment, and the like, which are personal concerns and vary with the individual student. Substantial reductions in expenses may be realized by students who desire to work for partial self-support.

[Note.—The University reserves the right to change at any time, without prior notice, the tuition and fees, room rentals or cost of board in any of its residences or dining halls, and other charges.]

Laboratory Charges.—In laboratory courses a deposit ranging from $5 to $20 per quarter is required to cover breakage or loss of apparatus and materials, such deposits being returnable, less charge for breakage, loss, or wear and tear of apparatus.

* A special arrangement has been made for graduate students to register for a maximum of nine units of credit, with the approval of the major department, upon payment of the total fee of $125 ($140 after September 1, 1954). (This rate does not apply to students in the Graduate School of Business.) This arrangement is intended primarily for graduate students who do not wish to undertake a full program of academic work, and will count only as a half quarter of residence toward meeting the requirements for advanced degrees. Tuition reductions from regular to half time cannot be made after the first two weeks of the quarter.

Payment of Fees

Tuition.—Tuition is payable in full on registration day. For the student who finds it impossible to pay tuition in full on that day, a plan for deferred payments within the quarter may be arranged. Under this plan, at least $70 ($80 after September 1, 1954) must be paid upon registration. The unpaid balance will be divided into two equal payments due on the dates shown in the schedule printed at the end of this section.

Veterans' Tuition.—All students who plan to attend Stanford under the provisions of a veterans' educational program are urged to apply to the appropriate agency for necessary authorization well in advance of their registration date. The proper authorization should be presented at time of registration, or fees must be paid personally by the veteran student. Refunds may be made later and will be based upon the effective date of the authorization. Tuition will be automatically defrayed for P.L. 346 (G.I. Bill), P.L. 16 (Rehabilitation Program), and CVEI (California Veterans' Program). Veterans enrolling under P.L. 550 (Korean G.I. Bill) should be prepared to pay all expenses inasmuch as tuition payments are made directly to the veteran by the Veterans Administration. Veterans who are unable to pay tuition in full at time of registration may secure a partial deferment in the manner described on this page. Veterans attending the University under P.L. 346 who do not wish the Veterans Administration to pay the entire tuition amount, and have not therefore signed authorization for excess charges, must pay the excess tuition charges personally on registration day. All veterans are advised to anticipate a delay of approximately two months before receiving the first payment from the sponsoring agency.

Board and Room.—Board and room charges are payable in full during the first ten days of the quarter. For the student who finds it impossible to pay board and room charges in full during that period, a plan for deferred payments within the quarter may be arranged. Under this plan, at least $50 must be paid during the ten-day period. The unpaid balance will be divided into two equal payments due on the dates shown in the schedule printed at the end of this section.

General.—A student should come to the University prepared to pay upon registration of at least $120 ($130 after September 1, 1954).

Schedule of Dates for Payment of Deferred Balances.—When less than the full amount of tuition or board and room is paid at the beginning of the quarter, the unpaid balance is payable in two equal installments on the following dates:

	First Payment	*Final Payment*
Autumn Quarter	November 5	December 5
Winter Quarter	February 5	March 5
Spring Quarter	May 5	June 5
Summer Quarter	July 15	August 15

Refund of Fees

Students who withdraw from the University before the end of a quarter may receive refunds of portions of their fees provided written requests are filed within two months of the time of withdrawal from the University. Refunds will be made according to the circumstances of the withdrawal as follows:

1. *Annulled Registration.*—Students who withdraw from the University voluntarily within two days after the day of registration may have their registration annulled. The refund will be the tuition fees in full. Such students will not be included in the office records for the quarter and new students will not secure any privileges for admission for any subsequent quarter as returning students.

2. *Leave of Absence.*—Leave of absence may be requested at any time from the Registration Committee by any student in good standing. When leave of absence is granted, effective within two weeks after the day of registration, the

refund will be the fees paid less $60 ($65 after September 1, 1954). Between two and four weeks after the day of registration, the refund will be the fees paid less $100 ($110 after September 1, 1954). Thereafter no refund will be allowed. Such students will be included in the office records and may enroll in the University for any subsequent quarter with the privileges of a returning student.

3. *Canceled Registrations.*—Students who have their registration canceled, or are suspended from the University, for cause, will receive refunds on the same basis as those receiving a leave of absence, unless otherwise specified in the disciplinary action taken. A student whose registration is canceled within one week after the day of registration, for an offense committed during a preceding quarter, will receive a full refund of tuition fees.

4. *Provisional Registration.*—Students who have received permission to attend the University provisionally, pending the adjustment of their standing, and who are denied registration within one week after payment of fees, will receive a full refund of tuition fees. Such students will not be included in the office records. After one week they will receive refunds on the same scale as for a leave of absence.

LOAN FUNDS

Loans may be granted to qualifying students for tuition, room, board, and books upon application to the Chief Counselor for Men, the Chief Counselor for Women, or the Dean of the School of Medicine, as appropriate in the circumstances.

With few exceptions the following general rules will apply to the granting and repayment of loans:

1. Applications must be made at least ten days prior to the date when the cash is needed to allow for processing and approval of the application.

2. Loans will be granted only for tuition, room, board, and books.

3. Loans will be granted only to undergraduate students having 45 or more units of credit, and an average grade of C or better. To graduate students, loans will be granted on completion of one quarter of graduate work at Stanford.

4. The aggregate of loans shall not exceed $250 a quarter nor $500 in any three consecutive quarters.

5. Written approval from a parent or guardian is required before consideration will be given to loans to students under twenty-one years of age.

6. Short-term loans must be repaid upon maturity which shall be set at the earliest date possible under the circumstances. Interest to be not in excess of 4 per cent per annum from date of note issue.

7. Long-term loans shall mature at the expiration of one year after expected graduation. Subsequent loans shall mature at six-month intervals. Except when granted from restricted loan funds, no interest will be charged until maturity, from which date 4 per cent interest will be charged.

The loans are made from the following funds which have been provided through the generosity of friends of the University:

Nathan Abbott Loan Fund for Law Students
Matt Adler Loan Fund
Associated Students Undergraduate Loan Fund
Gustavus A. Axelson Loan Fund
Elizabeth H. Bailey Memorial Loan Fund
William Burton Barber Loan Fund
Bookstore Loan Fund
Eleanor Boyd Memorial Fund
James F. and Ruby M. Bursch Fund for the School of Education

Business School Loan Fund
Chi Omega Loan Fund
Class of 1906 Loan Fund
Class of 1921 Loan Fund
Class of 1932 Loan Fund
Horace Davis Loan Fund
Dean of Students' Loan Fund
Delta Gamma Memorial Fund
Delta Tau Delta Loan Fund
Emergency Loan Fund (Graduate)
Engineering Loan Fund
Douglass H. Ferry Loan Fund
Richard Friedlander Memorial Loan Fund
John Laurence Frost Loan Fund
Geology Honor Fund
Nellie B. Hammond Loan Fund
Catherine Harker Memorial Loan Fund
Charles A. and Margaret D. Huston Memorial Fund
James Irvine Scholarship Fund
Barbara Larsh Jones Memorial Fund
Juris Doctor Class of 1921 Loan Fund
W. K. Kellogg Foundation, for Physical Therapy
Alice Windsor Kimball Loan Fund
Olive V. Krauthoff Loan Fund
Langille Engineering Loan Fund
Law Students' Loan Fund
Alice M. Marriott Loan Fund
Lillien J. Martin Loan Fund
Medical Faculty Relief Fund
Memorial Loan Fund at Stanford
Louise Wiepking Meyer Loan Fund
Hans Christian Nelson Memorial Loan Fund
John D. Neppert Family Loan Fund for Music Students
Joseph R. Nutt Loan Fund
Palo Alto P.E.O. Loan Fund
James Albert Peckham Law Loan Fund
Pi Lambda Theta Loan Fund
Frederick I. Richman Loan Fund
Roble Club Loan Fund
Rotary Club of Palo Alto Loan Fund
Royden Engineering Loan Fund
San Francisco Panhellenic Loan Fund
Senior Class of 1920 Loan Fund
Sarah Sergis Loan Fund
M. C. Sloss Loan Fund
Carrie M. Smallpage Memorial for Law Students
Alvan C. Smith Loan Fund
Everett W. Smith Memorial Loan Fund
Speech and Drama Loan Fund
Stanford Mothers' Club Memorial Loan Fund
Ruth Stern Loan Fund
Student Aid Loan Fund
John M. Switzer Student Loan Fund
S. Joseph Theisen Memorial Loan Fund for Law Students
Oscar A. Trippet, Sr., Loan Fund for Law Students
United States Government Loan Fund

Weingartner Scholarship and Loan Fund
Mary Wilhelmine Williams Loan Fund
Women's Student Loan Fund
William T. Yeomans Scholarship and Loan Fund
Jacob Yost Loan Fund

The following funds have been established especially for the use of students at the Medical School:

Alpha Omega Alpha Loan Fund
Baker Loan Fund
Hans Barkan Loan Fund
Caroline Becker Loan Fund for Nurses
James G. Boswell Foundation
Dr. Bravo Revolving Fund for the Medical Education of a Student of Mexican Extraction
Dean of Medical School Loan Fund
Charles A. Dukes Loan Fund
John C. Erickson Memorial Loan Fund
Howard Gates Loan Fund
William Richard Giles Memorial Loan Fund
Philip K. Gilman Memorial Scholarship Fund
Joseph Goldstein Memorial Loan Fund
Dr. Lawrence H. Hoffman Memorial Loan Fund
Oliver Peebles Jenkins Memorial Loan Fund
Alumni Jordan Medical Scholarship Fund
W. K. Kellogg Foundation Loan Fund
Eugene S. Kilgore Memorial Loan Fund
Mahlon A. Marshall Memorial Fund for Medical Graduates
Nurses Loan Fund
Lulah Pafflow Memorial Loan Fund
Dr. Robert Patek Memorial Loan Fund
A. V. Pettit Memorial Loan Fund for Nurses
Mrs. George A. Pope, Sr., Loan Fund
San Bruno Community House Medical Student Fund
School of Medicine Loan Fund
Louis Shenson Memorial Fund
Stanford Alumni Association Loan Fund for Medical Graduates
Romaine Josephine Stanley Loan Fund
William Allen Sullivan Memorial Loan Fund
Mrs. Ernest J. Sultan Loan Fund
Dr. Phil H. Weber Loan Fund
Women's Auxiliary of the Alameda County Medical Association Loan Fund
Women's Auxiliary of San Francisco County Medical Association Loan Fund
Women's Auxiliary of the San Mateo County Medical Society Loan Fund

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE STUDENTS

Requests for application blanks for fellowships and graduate scholarships, unless otherwise specified, should be addressed to the Office of the Dean of the Graduate Division, Stanford University, Stanford, California. These applications, when complete, must be received by the Registrar's Office on or before February 15. Students who have not previously attended Stanford University are also required to file with the Committee on Admissions, by February 15, complete credentials, together with application for admission accompanied by the $5 application fee.

Announcement of awards to successful candidates will be made on April 1,

and applicants will be allowed until April 15 to signify their acceptance. A holder of a fellowship or graduate scholarship may register on a half-tuition basis if his award yields a quarterly stipend equal to or less than the fee for such registration.

A holder of a fellowship or graduate scholarship may register on the half-tuition basis for any quarter during which he is a regularly appointed *teaching* assistant.

For a complete description of scholarships, some of which are available to graduate students, see pages 37–68.

Fellowships Administered by Stanford University

American Cyanamid Company Graduate Fellowship in Chemistry.—In 1950 the American Cyanamid Company established a fellowship with an annual stipend of $1,500 plus tuition to be awarded to a graduate student about to enter his final predoctorate year in chemistry. Application should be made to the Executive Head of the Department of Chemistry.

Bank of America-Giannini Foundation Fellowship in Urology.—In 1952 the Bank of America-Giannini Foundation made this fellowship available to the School of Medicine for research in the field of urology. The stipend is $4,800.

Carl H. Beal Memorial Fund in Geology.—Since 1946, Mrs. Carl H. Beal has made available the amount of $2,000 for use as fellowships in geology, or for other purposes which best promote the interests of geology students. Application should be made to the Dean, School of Mineral Sciences.

Carl H. Beal Memorial Fund in Medicine.—Since 1946, Mrs. Carl H. Beal has made available $2,000 for use as fellowships in medicine, or at the discretion of the Dean. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Bristol Myers Fellowship in Biocolloids.—This fellowship was established by the Bristol Myers Company in 1952 to benefit a graduate student in the Department of Chemistry. The fellowship carries a stipend of $1,800, plus tuition and laboratory fees, for the 1953–54 academic year. Application should be made to the Executive Head, Department of Chemistry.

Charlotte Blake Brown Memorial Fellowship.—In 1941 the University received from the estate of Dr. Adelaide Brown the sum of $10,000, the income to be used to establish the Charlotte Blake Brown Memorial Fellowship. The award is to be made to a graduate of the Stanford School of Medicine for research work in medicine, pediatrics, gynecology, or obstetrics. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Consolidated Engineering Corporation Fellowship.—In 1952 a fund was established by the Consolidated Engineering Corporation to be used for fellowships in the fields of electronics, mechanics, and applied physics. The 1953–54 awards amounted to $1,200 each. Application should be made to the Dean, School of Engineering, or the Executive Head, Department of Physics.

E. B. DeGolia Fellowship in Medicine.—In 1948, the University received from Mr. E. B. DeGolia the sum of $25,000, of which $16,200 now remains, for the purpose of establishing a fellowship in the School of Medicine. The award carries an implied obligation for the recipient to pay back the amount of the fellowship when and if he is in a position to do so. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Upsilon Chapter of Delta Gamma Fund.—This fund was established in 1948 by a gift of $41,000 from the Delta Gamma Association of Stanford University. The income (approximately $1,805) is to be used for fellowships for the study of ophthalmology, or, if it seems desirable, for treatment and research in ophthal-

mology or for the furtherance of "the objects and welfare" of the University. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Douglas Aircraft Fellowships.—In 1946 and subsequently, the University received gifts totaling $5,000 from the Douglas Aircraft Company for the purpose of establishing fellowships for students in aeronautical engineering. Application should be made to the Executive Head of the Department of Mechanical Engineering.

Dow Chemical Company Fellowship.—This fellowship was established in 1947 by the Dow Chemical Company, Great Western Division, and for the year 1953-54 carries a stipend of $1,500. Application should be made to the Executive Head of the Department of Chemistry.

Paul Downing Research Fellowship.—This fellowship is made available from the income from the Paul M. and Frances S. Downing Fund and is to further research in engineering. The annual stipend is $1,000. Application should be made to the Executive Head of the Department of Electrical Engineering.

Du Pont Fellowship.—Since 1937 the University has received from E. I. du Pont de Nemours & Company an annual gift for a fellowship to be awarded to a student who has done meritorious undergraduate or graduate work and who has qualifications for success in research work. For the year 1953-54 this fellowship amounts to $1,400 for a single man, or $2,100 for a married man, plus tuition and laboratory fees. Selection is made by the University with the approval of the Fellowship Committee of the du Pont Company. Application should be made to the Executive Head of the Department of Chemistry.

Eitel-McCullough Heat Transfer Fellowship.—This fellowship was established in 1952 by Eitel-McCullough, Inc., for the benefit of a graduate student in mechanical engineering. At present, the stipend is $1,200. Application should be made to the Dean, School of Engineering.

Ferrotherm Company Fellowship.—This fellowship was established in 1952 to promote basic research in the field of convection heat transfer and heat exchange design. The particular problem to be selected is to be of mutual interest to the student, the School, and the donor. A stipend of $1,500 per student per academic year is to be awarded to a graduate student working for an advanced degree. Application should be made to the Executive Head of the Department of Mechanical Engineering.

Fisher Research Fund Fellowship.—In 1950 the Fisher Research Institute established a fellowship carrying an annual stipend of $1,000 for a student in the School of Mineral Sciences. Application should be made to the Dean, School of Mineral Sciences.

Edward Curtis Franklin Fellowship in Chemistry.—This fellowship was established in 1929 from the Edward Curtis Franklin Testimonial Fund, presented to the University by the students, associates, and other friends of Professor Franklin upon his retirement from active service in the University. The annual amount available is approximately $470, and the fellowship is open to any properly qualified candidate in the Department of Chemistry upon nomination to the Dean of the Graduate Division by the Department Faculty. Application should be made to the Executive Head of the Department of Chemistry.

Graduate Honors Fellowships in Humanities.—This program consists of five fellowships at $2,000 each, leading to the Ph.D. in Humanities. The participating departments are: Classics, English, Germanic and Romanic Languages, Philosophy, and Speech and Drama. Application should be made to F. W. Strothmann, Director, Graduate Honors Program in Humanities, Stanford University, Stanford, California.

Marie Luise Graham Fellowship.—This fund, amounting to approximately $333,000, was established in 1950 with gifts from Mr. and Mrs. Chalmers G. Graham and the estate of George T. Williams to provide fellowships for advanced training in research or clinical medicine, with preference being given to graduate fellowships in the study of cancer of the brain and brain tumors. Application should be made to the Dean, Stanford University School of Medicine, San Francisco 15.

James D. Haile Memorial Fellowship.—In 1930 and subsequently, the University received from the estate of Mrs. Sara Anne Haile approximately $21,655 for the establishment of the James D. Haile Memorial Fellowship. This fellowship is awarded annually to a needy and worthy student, graduate or undergraduate, in the School of Law. The amount available annually is approximately $952. Application should be made to the Dean, School of Law.

Heart Association Fellowship.—In 1948 the San Francisco Tuberculosis Association established a fellowship with an annual stipend of $2,500 for the benefit of a student in the Stanford School of Medicine interested in heart diseases. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Mrs. E. S. Heller Foreign Exchange Fellowship in Surgery.—Mrs. E. S. Heller established this $3,000 fellowship in 1952 to be used for awards to young South American surgeons who want to come to Stanford University for part of their surgical training or for research. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15, California.

Hewlett-Packard Fellowship in Electrical Engineering.—Since 1945 the University has received from the Hewlett-Packard Company the sum of $1,200 annually to aid graduate students in carrying on specific research in the field of electronic measuring equipment. Application should be made to the Executive Head of the Department of Electrical Engineering.

Clarence J. Hicks Memorial Fellowship in Industrial Relations.—In 1946 the University received from the Industrial Relations Counselors, Inc., the sum of $20,000 to establish a fellowship in memory of the late Clarence J. Hicks. The income of approximately $880 is awarded annually to a qualified student for the purpose of study and research in industrial relations. Application should be made to the Dean, Graduate School of Business.

Harold P. Hill Memorial Fund.—In 1947 the University received from a group of friends of Dr. Harold P. Hill a gift to establish an endowment fund. The income is to provide an opportunity for additional graduate training for young physicians who have received the M.D. degree and who have demonstrated an unusual ability in internal medicine, particularly in the field of hematology. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

International Business Machines Corporation Fellowships.—The International Business Machines Corporation has made available to Stanford two graduate student fellowships in the fields of electronics and applied physics; these fellowships to be in the amount of $2,000 per year each. Application should be made to the Executive Head of the Department of Electrical Engineering or the Department of Physics.

Irving Graduate Fellowship.—In 1948 and subsequently Dr. Harry A. Irving has made gifts of $2,500 to provide a fellowship in the Medical School. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Charles Samuel Jackson, Jr., Fellowship.—In 1950 Mrs. Charles Samuel Jackson established a fellowship with a stipend of $1,800 in memory of her

grandson, Charles Samuel Jackson, Jr., to be awarded to a worthy graduate student in the Institute for Journalistic Studies. Application should be made to the Director of the Institute for Journalistic Studies.

Donald Porter Jacobs Research Fellowship.—In 1928 a gift of $5,000 was made by Mr. and Mrs. Albert P. Jacobs to establish a research fellowship fund in memory of their son, Donald Porter Jacobs. The income of this fund is awarded annually to a worthy graduate student in whatever field of study may seem most desirable at the time. The annual amount available is approximately $200.

Melville Jacoby Fellowship.—In 1942 friends and relatives of Melville Jacoby ('38) established in his memory a fellowship in journalism, to be awarded to a graduate student who is a candidate for the Master of Arts degree in journalism, and who also intends to specialize in Oriental studies with the view to doing journalistic work in the Orient. The stipend is $1,400 annually. Appointment is made by the Director of the Institute for Journalistic Studies to whom application should be addressed.

Eric Knight Jordan Research Fellowship in Geology.—In 1926 Dr. and Mrs. David Starr Jordan established a fellowship fund in memory of their son, Eric Knight Jordan, to be awarded annually. The amount available is approximately $380 each year. Appointment is made on the recommendation of the School of Mineral Sciences.

Junior Artists-in-Residence Fellowships.—During the academic year 1954–55 some awards of $500 each are available for graduate students in speech and drama. Application should be made to the Executive Head of the Department of Speech and Drama.

James R. Kelly Memorial Fellowship.—In 1946 and subsequently, a gift of $3,000 was made by Mr. and Mrs. James L. Kelly to establish a fellowship fund in memory of their son, James R. Kelly. The income of this fund is awarded annually to a student pursuing a program of study leading to the degree of Doctor of Philosophy in economics. At present the stipend is $132. Application should be made to the Executive Head of the Department of Economics.

Landon Blue Lakes Pools, Incorporated, Fellowship.—This fellowship was established in 1952 to be awarded to students in the School of Education who are interested in the school plant planning programs, and particularly in the construction, equipment, and safety regulations of high-school swimming pools. Application should be made to the Dean, School of Education.

Lane Publishing Company Fellowship.—This fund was established in 1952 to be used for fellowships or scholarships in the Graduate School of Business. The total awards to be distributed amount to $9,000. Application should be made to the Dean of the Graduate School of Business.

Eli Lilly and Company Fellowship in Biology.—This fund was established in 1953 for a period of three years. The award is to be made to students in graduate biological research. The amount available per year is $4,000. Application should be made to the Executive Head, Department of Biological Sciences.

Eli Lilly and Company Fellowship in Chemistry.—This fund was established in 1953 for a period of three years. The awards are to be made to students in graduate chemical research. The amount available per year is $4,000. Application should be made to the Executive Head of the Department of Chemistry.

George Loomis Fellowship in American Literature.—In 1929 Mrs. Kate Felton Elkins established a fellowship to be awarded to a graduate student deemed best fitted to carry on advanced study "within the scope of the Charlotte Ashley Felton Memorial Library." The annual amount available is approximately

$880. This fellowship is awarded by the Committee on Graduate Study, meeting jointly with the Director of University Libraries. Application should be made to the Committee on Graduate Study.

Francis J. McCoy Fellowship.—In 1951 the University received from the estate of Mr. Francis Joseph McCoy a gift of $20,000, the income to be used for the establishment of fellowships in the School of Medicine. The fellowships, which carry an annual stipend of $850 each, are awarded to recent graduates in medicine who show unusual promise and ability for graduate training either in medical research, teaching of medicine, or medical practice. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Monsanto Chemical Company Fellowship.—In 1952 the Monsanto Chemical Company established a fellowship to be used for the benefit of a graduate student in organic chemistry in his last year of doctoral study. At present, this fellowship carries a stipend of $1,500 plus tuition and fees. Application should be made to the Executive Head of the Department of Chemistry.

Russell Albert Moyse Fellowship.—In 1941 a gift of $5,000 was received from Mr. and Mrs. Joseph Moyse, the income to be used to establish a fellowship in memory of their son, Russell Albert Moyse. The annual amount available is approximately $220.

Nutrition Foundation Fellowships.—In 1949 the Nutrition Foundation established two fellowships, one in biological sciences and one in chemistry. The annual stipend for each fellowship is $2,400. Application should be made to the Executive Head of the Department of Biological Sciences or the Department of Chemistry.

Owens-Illinois Glass Company Fellowship in Chemistry.—In 1951 the Owens-Illinois Glass Company established a graduate fellowship in the field of inorganic silicon compounds. At present this fellowship carries an annual stipend of $1,800 plus tuition and fees for a single man, or $2,500 plus tuition and fees for a married man. Application should be made to the Executive Head of the Department of Chemistry.

Milton Reynolds–Bill Odom Aeronautical Fellowship.—In 1949 Mr. Milton Reynolds established a fellowship in honor of Bill Odom to be awarded to a student in the field of aeronautical engineering. Application should be made to the Executive Head of the Department of Mechanical Engineering.

Walter Hall Robinson Fellowship in Economics.—In 1952 Mr. Walter Hall Robinson established a fellowship to be awarded to worthy students in the Department of Economics. Application for the fellowship should be made to the Executive Head of the Department of Economics.

Austin Flint Rogers Fellowship in Mineralogy.—Upon the action of the Geology faculty of the School of Mineral Sciences, this fellowship was founded in 1952 in honor of Dr. Austin Flint Rogers, Professor of Mineralogy, Emeritus. At present, the yearly stipend amounts to $2,000. Application for this fellowship should be made to the Dean of the School of Mineral Sciences.

Abraham Rosenberg Fellowships.—In 1935 the University received from the estate of Abraham Rosenberg a gift of $100,000, the income to be used for the establishment of research fellowships for qualified graduate students. Four fellowships of the annual value of approximately $1,000 each have been established.

Alice J. Rosenberg Fellowships.—In 1944 the University received from the estate of Mrs. Alice J. Rosenberg a gift of $25,000, the income to be used for the establishment of one or more graduate research fellowships. For the present, one fellowship with the annual value of approximately $1,000 has been established.

Harris J. Ryan High-Voltage Laboratory Research Fellowship.—In 1926 a fellowship carrying an annual stipend of $500 was established in the Electrical Engineering Department by Dr. and Mrs. Harris J. Ryan. The department promulgates high-voltage laboratory research in two categories:

I. Research undertakings as a department, in some or all of which the hearty co-operation of the holder of this fellowship will be desired.

II. Research undertakings with the approval, support, and guidance of the department to permit the definition and solution of a problem of particular interest to the individual student and of promise of helpfulness in education and practice.

Application should be made to the Executive Head of the Department of Electrical Engineering.

Schilling Memorial Fellowship.—In 1947 Miss Else Schilling established a fund, of which the present balance is $7,000 for medical fellowships. The donor has suggested that some of the individuals receiving fellowship awards may later wish to make voluntary contributions to this fund so as to make available to others the same financial assistance they enjoyed. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Shell Fellowship in Geology.—In 1949 the Shell Fellowship Committee made available an annual stipend of $1,500 plus tuition to a student in the School of Mineral Sciences. Application should be made to the Dean, School of Mineral Sciences.

Sperry Graduate Fellowships in Electronics.—The Sperry Gyroscope Company has established three fellowships of $1,800 each for graduate students carrying on research related to microwaves. Two awards are made for work in electrical engineering and one in physics. Application should be made to the Executive Head of the Department of Electrical Engineering or the Director of the Microwave Laboratory.

Standard Brands Fellowship in Microbiology.—In 1950 Standard Brands, Inc., established a fellowship in microbiology with an annual stipend of $1,400. Application should be made to the Director of the Hopkins Marine Station, Pacific Grove, California.

Standard Oil Company of California Fellowships.—In 1938 the Standard Oil Company of California established fellowships to be awarded to qualified students. At present there are three fellowships for graduate students, one in mineral sciences, one in mechanical engineering, and one in business, as follows: $1,250 each, for awards to ex-servicemen; $1,250 plus tuition for awards to nonservicemen. Application should be made to the Dean of the School of Mineral Sciences, the Executive Head of the Department of Mechanical Engineering, or the Dean of the Graduate School of Business.

Standard Oil Company of Indiana Fellowship.—This fellowship fund was established in 1949 to be awarded for a two-year period to a student in the Department of Mechanical Engineering who is doing postgraduate work. The stipend is $1,500 per year. Application should be made to the Executive Head of the Department of Electrical Engineering.

Stanford Fellowships in Creative Writing.—In 1947 the University received from Dr. Edward H. Jones $15,000 of a $75,000 fund for the establishment of six annual fellowships of $2,000 each and four annual prizes of $500 each. If in any year there are not six qualified applicants, part of the funds available may be used for graduate scholarships. Application should be made to the Executive Head of the Department of English.

Stanford Futures Fellowships.—In 1942 various donors established an endowment fund, the income of which is to be used for a worthy student. At present the annual income is $1,000.

Thomas Welton Stanford Fellowship in Psychic Research.—From the "Psychic Fund," created by Mr. Thomas Welton Stanford, in 1913, the Trustees have established this fellowship for research in psychic phenomena.

Doris Clayburgh Steiner Fellowship.—In 1940 Mr. and Mrs. Herbert E. Clayburgh established a fellowship in English in memory of their daughter. Application should be made to the Executive Head of the Department of English.

Benjamin H. Swig Research Fellowships.—In 1949 Mr. Benjamin H. Swig established three research fellowships in honor of Dr. Sterling Bunnell, Dr. Arthur L. Bloomfield, and Dr. Emile F. Holman. The fellowships in honor of Dr. Bunnell and Dr. Bloomfield carry an annual stipend of $1,000 each; that in honor of Dr. Holman is $1,250 annually. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Sylvania Electric Products Fellowship.—Since 1945 the Sylvania Electric Products, Inc., has made available to the University the annual amount of $1,000 to establish a fellowship for a graduate student in electrical engineering, the selection of a subject of research to be mutually satisfactory to the Sylvania Company and to the Department of Electrical Engineering. Application should be made to the Executive Head of the Department of Electrical Engineering.

The Trane Company Heat Transfer Fellowship.—The Trane Company established in 1952 a fund to support a fellowship program to promote basic research in the field of convection heat transfer and heat exchangers. The stipend to be awarded is $1,200. Application should be made to the Executive Head of the Department of Mechanical Engineering.

University Fellowships.—The Trustees of the University have established from time to time since 1917 a number of University Fellowships of varying amounts, to be awarded annually by the Committee on Graduate Study for the purpose of fostering advanced study and research in the University. Honors stipends will range from $2,400 to $1,800. Each of the Ph.D.-granting departments will be given preference for one of these fellowships.

Royall Victor Fellowships.—In 1927, under the will of Charles F. Brooker, approximately $134,250 was bequeathed to the University to establish the "Royall Victor Fund" in memory of Royall Charles Victor of the Class of 1900. The annual income of this fund (approximately $5,900) is used in providing fellowships and scholarships for students of ability, character, and moderate means, preference being given to candidates, if any, of the requisite qualifications who reside or have resided in the state of Connecticut. Application for fellowships should be made to the Dean of the Graduate Division; for undergraduate scholarships, to the Scholarship Secretary, Registrar's Office.

Wesix Research Fellowships.—In 1937, and subsequently, the Wesix Electric Heater Company has made available to the University an annual amount for the establishment of two fellowships, one in electrical engineering and one in biophysics. The fellowship in electrical engineering is for the benefit of a student doing research in electric space heating and carries an annual stipend of $1,250. The fellowship in biophysics amounts to $1,500. Application should be made to the Executive Head of the Department of Electrical Engineering or the Department of Biological Sciences.

Westinghouse Fellowship.—Since 1940 the Westinghouse Educational Foundation has made available to the University an annual amount for the establishment of one or more fellowships. At present there are two fellowships of $1,200

each, one for a student in electrical engineering and one in mechanical engineering. Application should be made to the Executive Head of the Department of Electrical Engineering or the Department of Mechanical Engineering.

Frederick P. Whitaker Fellowship in Chemistry.—In 1942 and subsequently, the University received gifts amounting to $16,000 from Mr. Frederick P. Whitaker to establish a fellowship for students specializing in the field of industrial chemistry. The annual stipend is approximately $700.

Ray Lyman Wilbur Fund.—For information concerning this fund and the Ray Lyman Wilbur Fellowship, see page 66.

Fellowships Administered by Other Institutions

American Association of University Women Fellowships.—Twenty-five fellowships are offered by the American Association of University Women to American women for advanced study or research. The fellowship stipends range from $1,500 to $3,000. For detailed information concerning the awards, address the Secretary, Committee on Fellowship Awards, American Association of University Women, 1634 Eye Street, N.W., Washington 6, D.C.

Charles A. Coffin Fellowships.—These fellowships, administered by the General Electric Educational Fund, are awarded in the fields of electricity, physics, and physical chemistry. The amount of each fellowship granted will not exceed $1,500 per year. All applications must first be sent to the Dean or Executive Head of the department in which the student is doing research before being submitted to the Secretary, General Electric Educational Fund, Schenectady, N.Y., by January 1.

Commission for Relief in Belgium Graduate Fellowships.—These awards are administered by the Belgian American Educational Foundation, Inc., and were established to promote close relations and the exchange of intellectual ideas between Belgium and the Belgian Congo and the United States. Address communications to the Belgian American Educational Foundation, Inc., 420 Lexington Avenue, New York 17, N.Y.

Commonwealth Fund Fellowships.—These fellowships were established in 1918 for study in the fields of education, mental health, rural hospitals, and health service. For information, address the Commonwealth Fund, 41 East 57th Street, New York 22, N.Y.

John Simon Guggenheim Memorial Foundation Fellowships.—In 1925 Senator and Mrs. Simon Guggenheim announced a preliminary gift of $3,000,000, which has since been considerably augmented, for the endowment of the John Simon Guggenheim Memorial Foundation Fellowships, in memory of their son. The purposes of the Foundation are "to improve the quality of education and the practice of the arts and professions in the United States, to foster research, and to provide for the cause of better international understanding."

The fellowships are open to both men and women, ordinarily between the ages of twenty-five and forty, who have demonstrated unusual capacity for original research or creative work.

The annual value of each fellowship is normally $3,000. Application should be made before October 15 of each year to Henry Allen Moe, Secretary, John Simon Guggenheim Memorial Foundation, 551 Fifth Avenue, New York 17, N.Y.

John Randolph Haynes and Dora Haynes Foundation Research Fellowships.—These grants, carrying a stipend of $2,500 per year, are for scholars who are planning leaves of absence for research in the fields of anthropology, business administration, economics, geography, history, political science, psychology, public law, and sociology. Applications must be filed with the Foundation by March 1. Address communications to The John Randolph Haynes

and Dora Haynes Foundation, 2324 South Figueroa Street, Los Angeles 7, California.

Institute of International Education Fellowships.—The Institute of International Education, Inc., administers several fellowships which are available to American graduate students for study abroad in various countries. For complete information about these awards, address the Institute of International Education, Inc., 2 West 45th Street, New York 19, N.Y.

National Foundation for Infantile Paralysis Fellowships.—These postdoctoral fellowships were established in 1938 for the purpose of supporting the fight on every phase of infantile paralysis. Annual stipends range from $3,600 to $7,000. Applications are accepted at any time during the year. Communications may be addressed to Division of Professional Education, The National Foundation for Infantile Paralysis, 120 Broadway, New York 5, N.Y.

National Research Council Fellowships.—Postdoctoral fellowships in the natural sciences (mathematics, astronomy, physics, chemistry, geology, geophysics, paleontology, physical geography, botany, zoology, biochemistry, biophysics, agriculture, forestry, anthropology, and psychology); one predoctoral fellowship in electronics, sponsored by the Radio Corporation of America. Open to citizens of the United States and Canada under thirty-five years of age. Basic stipend is $3,000 per year with additional allowances. For information, address the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington 25, D.C.

National Science Foundation Fellowships.—Several fellowships are offered by the National Science Foundation to students in the biological, engineering, mathematical, medical, and physical sciences: first-year graduate fellowships carry a stipend of $1,400; intermediate fellowships, $1,600; advanced fellowships, $1,800; and postdoctoral fellowships, $3,400. All fellowships provide payment of tuition and fees, dependency allowances for married Fellows and limited travel allowances, in addition to the above-mentioned stipends. Applicants must be citizens of the United States and are chosen solely on the basis of ability. Application should be made to The Fellowship Office, National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D.C.

Radio Corporation of America Fellowships.—In 1945 the Radio Corporation of America established these predoctoral awards for study in the general fields of electronics. The fellowships carry an annual grant of $1,600 to $2,100. Inquires concerning RCA Fellowships should be addressed to the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington 25, D.C.

Rockefeller Foundation Fellowships.—In 1913 Mr. John D. Rockefeller established these fellowships for research in the fields of public health, the medical sciences, the natural sciences, the social sciences, and the humanities. Information and application blanks may be obtained from the Rockefeller Foundation, 49 West 49th Street, New York 20, N.Y.

Gerard Swope Fellowships.—These fellowships are administered by the General Electric Educational Fund and are awarded in the fields of industrial management, engineering, the physical sciences, and any other scientific or industrial field. The amount of each fellowship does not exceed $1,500 per year. All applications must first be sent to the Dean or Executive Head of the department in which the student is doing research before being submitted to the Secretary, General Electric Educational Fund, Schenectady, N.Y., by January 1.

U.S. Public Health Service Research Fellowships.—The Surgeon General of the U.S. Public Health Service has established a series of research fellowships to encourage promising students interested in becoming proficient in research in medical and related sciences, with funds appropriated by the Con-

gress. Basic stipends for predoctoral candidates are $1,200 a year for those with a Bachelor's degree and $1,600 a year for those with a Master's degree; for postdoctoral candidates, $3,000 a year. Additional allowances are available for those with dependents. Application should be made to the Stanford Committee on U.S. Public Health Fellowships (Professors E. L. Tatum, *chairman*, Donald J. Gray, and J. Murray Luck).

[NOTE.—Additional information on fellowships not administered by Stanford University may be obtained from the Office of the Dean of the Graduate Division, Building 1, Room 1H, on the Inner Quadrangle.]

SCHOLARSHIPS

APPLICATION

The scholarships described on pages 39–69 are of two types, those awarded upon recommendation of the Committee on Financial Awards, and those awarded upon the nomination of other agencies. Applicants are advised to consult the "Description of Scholarships" and to make application in accordance with the instructions given in paragraphs 1 and 2, page 38. Application blanks will be forwarded upon request. To insure receiving appropriate blanks, the candidate should state whether he is applying for admission to the Lower Division (first or second undergraduate years), Upper Division (third or fourth undergraduate years), or Graduate Division.

1. ***Scholarships awarded upon nomination of an individual, committee, club, department, or other agency.***—These scholarships are usually restricted in some respect, such as department of study, geographical location of applicant, academic status, etc. Application should be made to the source given in the description of the specific scholarship under consideration. Where no source is indicated, applications should be addressed in accordance with instructions given under 2, below.

2. ***Scholarships awarded upon nomination of the University Committee on Financial Awards.***—These scholarships may or may not be restricted. Candidates will be considered for any and all awards for which they are found eligible. It is not necessary to indicate a specific scholarship unless the candidate is eligible for some restricted award (see pages 39–42). In such cases, the candidate should indicate clearly the basis for his eligibility.

A. ***Undergraduate Students***: Address applications to the Scholarship Secretary, Registrar's Office, Stanford University, Stanford, California, in accordance with instructions given under *a* or *b*, below.

a) ***Entering Undergraduates.***—Formal application blanks for a scholarship and for admission, complete credentials, and the five-dollar fee charged applicants for admission must be on file not later than March 15. (See pages 13–22 for admission requirements and details concerning the Scholastic Aptitude Test. Scholarship applicants should take the test in December or January, and must take it not later than March.)

b) ***Matriculated Undergraduates.***—Formal scholarship application blanks must be filed not later than April 15. Matriculated undergraduates who are applying for scholarships for graduate work must comply with instructions given for graduate students.

B. ***Graduate Students***: Apply to the Office of the Dean of the Graduate Division in accordance with the following instructions. Formal scholarship application blanks, letters of recommendation, and (in the case of students who have not previously attended Stanford University) applica-

tion for admission, accompanied by the five-dollar fee and complete credentials, must be on file not later than February 15.

Basis for Award

In general, scholarships will be awarded on the basis of scholastic excellence as demonstrated by previous records, promise of success as judged by recommendations and aptitude test score, and financial need.

General Regulations

Scholarships are awarded during the spring for the succeeding academic year. A scholarship may be terminated at any time for misconduct or unsatisfactory scholarship. Students who find it necessary to add to their resources through part-time work may apply to the Office of Student Employment or to their major department executives for work (see page 76). However, the maximum receivable from University sources including wages and scholarship stipend is subject to approval by the University. Holders of undergraduate scholarships are not eligible to register on a part-time basis. They are expected to register for a normal program and are required to pay full tuition and required fees, laboratory expenses, and all similar charges laid upon other registered undergraduate students.

Eligibility

Eligibility for specific scholarships may be determined by reading the terms under "Description of Scholarships." A minimum average of B or better (3.00 or above) is required for eligibility for Honors Scholarships. Many scholarships are open without restriction to students from any locality and in any of the divisions and departments of the University. Some scholarships, however, give preference to students from specified areas, to majors in designated departments, or to students meeting other qualifications. A list of such scholarships follows. Details will be found under the appropriate heading in the general "Description of Scholarships."

Scholarships for Designated Areas

Alameda County, California
- Stanford Mothers of the East Bay
- Stanford Women's Club of the East Bay

Ashland, Ohio
- Bowman

Citrus Union High School District, California
- Robina A. Bidwell

Connecticut
- Stanford Club of New York, New Jersey, and Connecticut
- Victor

Contra Costa County, California
- Stanford Mothers of the East Bay
- Stanford Women's Club of the East Bay

Foreign Countries
- ASSU
- Cap and Gown
- Gard
- Tarver

Fresno County, California
- Dickey

Kern County, California
- Stanford Club of Kern County
- Stanford Club of Taft

Los Angeles, California
- Kistler
- Los Angeles Regional
- Mayr
- Richards
- Stanford Club of Los Angeles
- Stanford Women's Club of Los Angeles

Maryland
Stewart

Monterey Peninsula, California
Stanford Club of the Monterey Peninsula

New Jersey
Stanford Club of New York, New Jersey, and Connecticut

New York
Stanford Club of New York, New Jersey, and Connecticut

Orange County, California
Irvine

Pennsylvania
Stewart

Pomona Valley, California
Stanford Club of Pomona Valley

Portland, Oregon
Stanford Club of Portland

Sacramento, California
Briggs

Salinas Valley, California
Stanford Club of Salinas

San Diego, California
Ellis
Stanford Club of San Diego

San Francisco, California
San Francisco Polytechnic
San Francisco Regional
Stephens
Stanford Women's Club of San Francisco

San Joaquin County, California
Salmon

Santa Rosa, California
Stanford Club of the North Bay

Seattle, Washington
Stanford Club of Seattle

Sonora, California
Stanford Club of the Mother Lode

South America
Gard

Southern California
Cass

Taft, California
Stanford Club of Taft

Texas: Counties of Archer, Baylor, Clay, Wichita, Wilbarger
Texas Counties

Utah
Newell

Ventura County, California
Kimball

West Virginia
Stewart

Departmentally Designated Scholarships

Applied Physics
Consolidated Engineering

Art and Architecture
A. B. Clark
Earl
Weeks

Audiology
J. D. Zellerbach

Biology
Muellhaupt
Peterson
San Francisco Tyee

Business
Bechtel
Cooley
Dowrie
Faville
Morse
Pacific Intermountain Express
Western Highway Institute

Chemistry
Dunn
Gard
Loeser
Mayr
Sloan

Stanford Club of Saudi Arabia
Stillman
Windt

Education
Newhouse
Osborn

Engineering
AiResearch
American Brake Shoe
Baldwin
Bechtel
Berner
Braun
Consolidated Engineering
Dunn
Elliott
Esbergs'
Freshman Engineering
Garland
Gilfillan
Hanrahan
Jones
Low
Mayr
Morgan
Newhouse
San Francisco Bridge Co.
Socony-Vacuum
Square D
Stanford Club of Saudi Arabia
West Coast Electronics
Wilbur-Ellis
Wing

Geology
Dunn
E. G. Martin
R. H. Palmer
Socony-Vacuum
Tolman
Weaver

History
Cory
Pischel
Riotte
Summer History
Weter

Humanities
Kendrick

Journalism
Beaubaire

Law
Beardsley
R. B. Bidwell
Crothers
Cushing
Duniway
Foster
Goodman
Graham
Haffner
Harris
Huston
Kirkwood
Landels and Weigel
Michaels
Newhouse
Ortega
F. Price
Sharp
Stanford Law
Stanford Law Veterans
Whittier

Mathematics
Swain

Medicine
Blair
W. R. P. Clark
DeGolyer
Dernham
Dunn
Eyre
Florence Fries
William Fries
Hassler
Langford
Lyle
E. G. Martin
Neizer
Neppert
Newhouse
Pfizer
Ryder
Walker

Middle East
Stanford Club of Saudi Arabia

Mineral Sciences
American Brake Shoe
Berner
Detert
Hornkohl
Pearson-Sibert
Socony-Vacuum

Stanford Club of Saudi Arabia
Weaver
Western Die Casting

Music
Evans
Music Guild
Neppert

Natural Sciences
Esbergs'

Nursing
Robina M. Bidwell
Blair
Hindes
Newhouse
Swig
Willard

Petroleum Engineering
Socony-Vacuum
Stanford Club of Saudi Arabia
Weaver

Physical Education for Women
Women's Athletic Association

Physical Sciences
American Brake Shoe

Physical Therapy
Kellogg

Political Science
Hollingsworth
Pischel
Webster

Religious Education
Berry

Shipping and Commerce
Levi Stevens

Social Service
Hanson

Speech and Drama
Field-Hotaling
Ram's Head

Scholarships Designating Other Special Conditions

California Scholarship Federation: life members from California high schools

Dofflemyer: Eagle Scouts in California, entering undergraduate

Fraternity Scholarships:
Chi Psi: Sandwick
Delta Kappa Epsilon: Munroe
Phi Delta Theta: Bowman
Sigma Alpha Epsilon: Birchard
Sigma Nu: Taylor
Theta Chi: DeGolyer

Lewis: students having interest and proficiency in baseball

Lions Club: spastically disabled students

R. A. Moore: orphans

Mu of Gamma Phi Beta: descendants of members of Mu of Gamma Phi Beta

Munroe: graduates of Flintridge School, or members of Delta Kappa Epsilon fraternity

L. and M. Price: long-distance runners

Residence Club Scholarships:
Branner
Encina
Lagunita
Roble
Row

Stanford Gold Star: children of Stanford men and women who lost lives in World War II

Stanford University Mathematics Examination: winners of highest score in mathematics examination given by Stanford in Pacific Coast high schools

Summer History: teachers of American History enrolled as graduate students during the summer quarter

Tarver: exchange students from a foreign country and from a Stanford fraternity

Leadership Scholarships: outstanding high school leaders

Women's Row: residents of one of the Stanford women's residence halls on Lasuen Row

R. Zellerbach: deaf and hard-of-hearing students

DESCRIPTION OF SCHOLARSHIPS

AiResearch Manufacturing Company Honors Scholarships.—In 1953 the University received from the AiResearch Manufacturing Company a gift of $12,000 to establish six scholarships for seniors in mechanical engineering and three fellowships for graduate research in the fields of heat transfer, thermodynamics, instrumentation and controls, or turbomachinery.

American Brake Shoe Scholarship Grant.—This scholarship, covering tuition, was established by the American Brake Shoe Company in 1952. It is available to students with junior standing in engineering, mineral sciences, or physical sciences who have been active in student affairs and who are in need of financial assistance.

American Society for Metals Foundation for Education and Research Scholarship.—This scholarship was made available for the year 1953–54 through a gift of $400 from the Society for the benefit of an undergraduate student in metallurgy. The award is made on the nomination of the Director of the Division of Mineral Technology.

Anonymous Scholarships.—From time to time scholarships in varying amounts have been established by donors whose desire it is to remain anonymous. Such scholarships are awarded as they become available.

ASSU Foreign Scholarships.—In 1948 and subsequently the Associated Students of Stanford University established a number of scholarships for students from foreign countries who are majoring in the social sciences. The scholarships cover tuition and living expenses. Applications should be addressed to the Foreign Scholarship Committee, Associated Students of Stanford University, in ample time to allow for the filing of complete credentials by March 1, preceding the autumn when the student expects to enter the University.

Eliza Shaw Baker Honors Scholarships.—In 1949 the University received from the estate of Mr. Shirley Baker ('95) a bequest of $29,000 with which to endow the Eliza Shaw Baker Scholarships in memory of the donor's mother, to be awarded to worthy students.

George Porter Baldwin Honors Scholarships.—In 1941 the University received the sum of $25,000 under the will of Mrs. Florence E. Baldwin, to endow the George Porter Baldwin Foundation in memory of her husband. At present the income from the fund is being used for scholarships, preference being given to students in the School of Engineering.

Beach Thompson Memorial Honors Scholarships.—In 1945 the University received a bequest of $50,000 from the estate of Mrs. Augusta V. Beach Thompson. Of the annual income, $900 is to be set aside for three Beach Thompson Scholarships.

Charles A. Beardsley Scholarship in Law.—Mrs. Charles A. Beardsley established this scholarship in 1950 to cover tuition for a worthy student in the School of Law. Application should be made to the Dean of the School of Law.

Stanley Stemmer Beaubaire Scholarship.—Mr. and Mrs. Samuel M. Beaubaire established this scholarship in 1949 in memory of their son, Stanley Stemmer Beaubaire ('35). The scholarship is intended for Upper Division or graduate students with a major in journalism, and application should be made to the Director of the Institute for Journalistic Studies. At present the sum of $1,200 is available annually.

Bechtel Corporation Honors Scholarships.—Since 1950 the University has received two annual scholarships from the Bechtel Corporation, one in the Graduate School of Business and one in the School of Engineering.

Emma Hayes Benedict/Lida A. Hayes Honors Scholarship.—In 1949 the University received from the estate of Miss Lida A. Hayes a bequest of $15,000 to establish a permanent endowment fund. The income is to be used for a scholarship to be awarded each year to an undergraduate student.

August Berner Honors Scholarships.—In 1945 the University received a bequest from the estate of Miss Bertha Berner to endow these scholarships in her brother's memory. Two scholarships of approximately $300 each are provided for men students in mechanical engineering and in mining engineering.

Lowell Berry Scholarships.—In 1952 the University received from Mr. Lowell W. Berry ('26) the sum of $4,300 to establish two scholarships, a scholarship grant for students interested in religious education, and an Honors scholarship for sophomore, junior, or senior students who have demonstrated high moral standards and character, scholastic and athletic ability, and who are in need of financial aid.

Bidwell Memorial Fund.—In 1946 and subsequently, the University received gifts totaling over $35,000 from Mr. Rolfe B. Bidwell ('00) to endow two scholarships in memory of his wife. The Robina A. Bidwell Honors Scholarship is available to graduates of Citrus Union High School on the basis of financial need, scholarship, character, reliability, good citizenship traits in high school, and qualities of potential leadership. The Robina Munro Bidwell Scholarship in Nursing is available to a student in the Stanford School of Nursing. Preference will be given, in so far as practicable, to students interested in pediatric nursing. Application for the latter scholarship should be made to the Director of the School of Nursing, 2340 Clay Street, San Francisco 15, California.

Lillian Bidwell Honors Scholarship.—In 1951 the University received from Mr. Rolfe B. Bidwell ('00) securities totaling over $25,000 to endow a scholarship in memory of his daughter, Lillian ('25). This scholarship is awarded annually to a worthy woman student in need of financial assistance.

Rolfe B. Bidwell Scholarship in Law.—This scholarship was endowed by Mr. Rolfe B. Bidwell ('00) in 1952 with a gift of $15,000 for the benefit of deserving students in the School of Law. Application should be made to the Dean of the School of Law.

Captain Quentin R. Birchard Memorial Scholarship Grant.—This scholarship was endowed in 1945 by Mr. and Mrs. Ralph Birchard in memory of their son, Quentin Birchard ('39). Preference is to be given to members of the Sigma Alpha Epsilon fraternity on the basis of need, character, and determination.

The Blair Scholarships in Medicine and Nursing.—From the estate of Miss Jennie M. Blair the University received, in 1947, bequests with which to endow two scholarship funds. The Blair Medical Scholarship Fund of $21,218 provides an annual income for scholarships to students of outstanding medical attainment. The income from the Blair Nursing Scholarship Fund of $13,640 supports scholarships for students in good standing in the last two years of the Stanford School of Nursing. Application for the Blair Scholarships should be made to the Dean, Stanford School of Medicine, San Francisco.

Guy C. Bowman Honors Scholarship.—In 1936 the University received from the late Mr. Guy C. Bowman ('02) of Columbus, Ohio, securities valued at $10,000 to endow the Guy C. Bowman Scholarship in honor of J. E. McDowell ('00). In awarding the scholarship preference is given to a graduate of the Ashland, Ohio, High School on the basis of character, high scholastic standing, and financial need. A student once appointed may continue to hold the scholarship during successful undergraduate registration. The award is made on the nomination of a committee consisting of two Stanford students in Ashland together with the Superintendent of Schools. In any year when there is no candidate from Ashland, the scholarship is available to other worthy students at Stanford, with preference to members of the Phi Delta Theta fraternity. The annual amount of the scholarship is approximately $440.

Branner Club Scholarship Grant.—This scholarship was first given to the University by Branner Club for the year 1947–48. Additional gifts have been made, from time to time, for the purpose of maintaining a scholarship for the benefit of women students who are members of the club. The amount of the scholarship varies.

C. F. Braun and Company Honors Scholarships.—These scholarships were established in 1953 by C. F. Braun and Company for the benefit of deserving freshman students who intend to major in the field of engineering.

Ella P. Briggs and Evelyn Fannie Briggs Honors Scholarships.—In 1934 two scholarships of the annual value of approximately $260 each were made available from trust funds of the estate of Wallace A. Briggs. Worthy and needy graduates of a Sacramento high school are given preference so far as practicable.

Alice Meyer Buck Honors Scholarship.—Mrs. Frank E. Buck established this scholarship in 1953 with a gift covering tuition for a deserving student.

Margaret Byrne Honors Scholarship.—In 1931 the University received from the estate of James William Byrne the sum of $25,000, the income to be used for the maintenance and education of needy women students in the entering class who plan to complete the course for the Bachelor's degree.

California Scholarship Federation Honors Scholarships.—In 1952 the University established two tuition scholarships for California Scholarship Federation Gold Seal Bearers. The scholarships are available to one boy and one girl entering as freshmen and are open for study in any field.

Gail H. Calmerton Honors Scholarships.—In 1951 the University received from the Calmerton Educational Foundation the sum of $86,000 to found the Calmerton Scholarships for the benefit of needy and worthy students.

Cap and Gown Honors Scholarships.—In 1924 the Cap and Gown Society established a scholarship to be awarded annually to a woman student. The amount available is usually sufficient to cover the cost of tuition. Since 1948–49 the society has maintained a second scholarship for a foreign woman student, available in alternate years.

William W. Carson Honors Scholarships.—In 1938 the University received from the estate of William W. Carson the sum of $50,000 to endow five scholarships. The annual value of the scholarships is approximately $440 each.

Cass Scholarship Fund.—In 1945 and subsequently the University received from Mr. Louis Cass, Sr., over $48,000 with which to endow three scholarships: the Buddy Cass Honors Scholarship, the Virginia N. Cass Honors Scholarship, and the Louis Cass, Sr., Leadership Scholarship. Preference is given to students residing in Southern California, and nominations are made by Mr. Cass from a list of eligible applicants submitted by the University's Committee on Financial Awards.

Arthur Bridgman Clark Memorial Scholarship Grant.—In 1952 the University received from Mrs. Arthur B. Clark the sum of $10,000 to endow a scholarship or fellowship in memory of her husband, who was for many years professor of graphic art at Stanford. Preference is given to students majoring in art or architecture. Candidates should send a portfolio of original work and requests for applications to the Executive Head, Department of Art and Architecture, Stanford University, before April 15.

L. W. Clark Scholarship Grant.—In 1930 the University received from the estate of L. W. Clark the sum of $5,000, the income to be used for the tuition of worthy students. The annual amount available is approximately $220. At present the award is being made on the nomination of Miss Clark.

William Redwood Price Clark Honors Scholarship.—In 1951 the University received from the estate of Dr. William R. P. Clark, who served for many years on the faculty of the School of Medicine, the sum of $6,000 to endow a scholarship for deserving and needy medical students.

Cleaveland Honors Scholarship.—In 1944 the University received $10,614 from Mr. Newton Cleaveland ('99) to endow a scholarship for third- and fourth-year men and women at Stanford. Awards are restricted to students who are American born, of American parentage, and who, without mental reservation, declare allegiance to the Constitution of the United States of America.

Bernard Theodore Coleman Memorial Scholarship.—In 1951 and subsequently the University received from family and friends of Bernard Coleman, a Stanford student from 1948 until his death in 1951, gifts to endow a scholarship in his memory. At present, income and additional gifts are being added to the endowment. When sufficient income is available, awards will be made to medical students who, in time, might become interested in cancer research.

Consolidated Engineering Corporation Scholarships and Fellowships.—From the Consolidated Engineering Corporation the University received $3,500 in 1951 to establish a fund for scholarships and fellowships in the general fields of electronics, mechanics, and applied physics.

E. C. Converse Honors Scholarships.—In 1921 the University received a bequest of $50,000 from the estate of Mr. Edmund C. Converse to endow the E. C. Converse Scholarships for needy and deserving students. The maximum award is $500 annually for each student.

Frederick Bronson Cooley Memorial Scholarship.—This scholarship was endowed from gifts of $7,500 received from Mr. and Mrs. E. C. Cooley in 1946, and subsequently, for the benefit of men registered in the Graduate School of Business. The basis for award is need, character, poise, and determination. Application should be made to the Dean of the Graduate School of Business.

Mabel Hyde Cory Honors Scholarship.—In 1921 Miss Emma L. Martin ('97) and her sister, Mrs. Alfred Ayers, established a scholarship in memory of Mabel Hyde Cory ('96). In 1940 they perpetuated the scholarship with an endowment of $10,100. This scholarship is awarded preferably to a needy young woman, graduate or undergraduate, majoring in history, upon recommendation of the History Department faculty. The annual amount is approximately $440.

George E. Crothers Honors Scholarship in Law.—In 1912 Judge George E. Crothers ('95) established a scholarship of $250 to be awarded annually to a graduate or undergraduate student in the School of Law. Application should be made to the Dean of the School of Law. At present the endowment is $4,538 and the annual scholarship, approximately $400.

George Bliss Culver, Jr., Memorial Honors Scholarship.—In 1944 Emeritus Dean of Men and Mrs. G. B. Culver endowed this scholarship in memory of their son, and friends subsequently added to the endowment, which now amounts to

$11,700. Since gifts are still being received, the income has not yet been fixed at a definite sum.

Oscar K. Cushing Memorial Scholarship.—In 1952 Mrs. Ina G. Cushing endowed this scholarship in memory of her husband by means of a gift of over $15,000. The income is to be used for scholarships for worthy students in the School of Law. Requests for applications should be addressed to the Dean of the School of Law.

J. B. DeGolyer, Jr., Honors Scholarship.—This scholarship was endowed with gifts of $10,000 made to the University by Mr. DeGolyer ('21) in 1946 and subsequently. Preference is given to members of Theta Chi fraternity and to students who are in the School of Medicine or the pre-medical curriculum.

Harry Stuart Derby and Alice Urquhart Derby Honors Scholarship.—In 1943 the University received through a bequest of Alice Urquhart Derby the sum of $18,410 to endow the Harry Stuart Derby and Alice Urquhart Derby Scholarship. The income is to be used for scholarships for deserving men or women.

Irene B. Dernham Honors Scholarship.—This scholarship was endowed from a bequest of $25,000 received from the estate of Miss Irene B. Dernham in 1947. The annual income is to be used for a scholarship or scholarships for worthy Jewish students registered in Medicine. Application should be made to the Dean, Stanford School of Medicine, San Francisco.

W. F. Detert Honors Scholarship.—This scholarship was endowed in 1944 from the estate of W. F. Detert by the latter's nephew and executor, Mr. Richard Detert. A fund of $20,000 has been set up to support scholarships for worthy and needy students, preference to be given to those preparing to make the development of the earth's mineral and petroleum resources their life's work. Nominations are made through the School of Mineral Sciences, to whom applications should be made. The amount of each scholarship is left to the discretion of the University.

W. J. Dickey Honors Scholarship.—In 1914 the Trustees of the University received from the estate of W. J. Dickey, of Fresno, the sum of $10,000 for the endowment of the W. J. Dickey Scholarship Fund "to aid young men from Fresno County, preferably from Fresno City, to make their way through Stanford University." No one may be appointed to a Dickey Scholarship unless he shall have been a resident of Fresno County, preferably Fresno City, for at least two years prior to his appointment; and no scholarship may be held or shared by one person for more than four years. The fund provides an annual income of approximately $425.

Henry G. Dodds Honors Scholarship.—In 1921 Mr. Henry G. Dodds endowed a scholarship fund of $3,000, which in 1925 was increased to $5,000. In 1931, the University received $5,000 additional as a legacy from the estate of Mr. Dodds. The income from this fund (approximately $440) is awarded annually to deserving young men preferably from the Pacific Coast.

Dofflemyer Honors Scholarships for Eagle Scouts.—In 1944 and subsequently the University received securities valued at approximately $117,100 from Mr. and Mrs. W. Todd Dofflemyer, to endow these scholarships for the benefit of Eagle Scouts residing in California, and applying for admission as entering undergraduate students. In making awards the Committee will consider the candidate's school record, financial need, and qualities of character such as determination, integrity, and similar traits. Applicants should ask a scout executive to write a letter of recommendation direct to the Scholarship Secretary, Stanford University. The stipends cover tuition or more, depending upon the need of the applicant.

George W. Dowrie Honors Scholarship.—In 1946, upon the occasion of Professor George W. Dowrie's retirement from active service, the alumni and faculty of the Graduate School of Business endowed this scholarship in his honor. Since

additional gifts are still being received the income has not yet been fixed at a definite sum. At present it is approximately $660. Award is made upon the nomination of the faculty of the Graduate School of Business to second-year students, or to candidates for the degreee of Doctor of Philosophy in banking or finance. Application should be made to the Dean of the Graduate School of Business.

John Cushing Duniway Fund.—In 1945 the University received from Mr. Clyde Duniway a gift of $3,000 to endow this fund in memory of his son. The annual income is to be used at the discretion of the Law faculty for a scholarship or prize for a deserving law student.

Orrin W. Dunn Honors Scholarship.—In 1923 Mrs. Harriet L. H. Dunn founded a scholarship, in memory of her husband, to be awarded by the President to an unmarried man registered at the University in engineering, chemistry, geology, or medicine, with sufficient credit to entitle him to junior standing. The annual value of the scholarship is approximately $245.

Dworzek Memorial Honors Scholarships.—In 1944 the University received $40,000 from the estate of Pauline A. Dworzek to endow the Dworzek Memorial Fund. The income from this fund is divided into four equal parts as follows: Eva Dworzek Scholarship, Gustave H. Dworzek Scholarship, Margaret F. Dworzek Scholarship, and Bertha E. Dworzek Scholarship.

Harley J. Earl Scholarship Grants in Industrial Design.—In 1952 the University received from Mr. Harley J. Earl over $10,000 to establish a number of scholarships for students majoring in art and architecture whose primary interest is in industrial design. Candidates should send a portfolio of original work and requests for applications to the Executive Head, Department of Art and Architecture, Stanford University, before April 15.

H. F. Elliott Scholarship.—This scholarship was established in 1942 by Mr. Harold F. Elliott ('16) when he presented $250 to the University to be used as a scholarship for students whose major subject is electrical engineering. Holders of the scholarship are requested, but not required, to repay the amount of the scholarship within five years after leaving the University. Application should be made to the Executive Head of the Department of Electrical Engineering.

Leonard Daniels Ellis Memorial Scholarship Grants.—In memory of their son, Leonard Daniels Ellis ('34), Mr. and Mrs. Leonard A. Ellis endowed these scholarships in 1944 with a gift of over $29,000. Two scholarships of approximately $600 are awarded annually, preference being given to needy students from San Diego interested in journalism and science. Forthrightness, determination, personality, and other similar qualities of character are given especial consideration.

Encina Club Scholarship Grant.—This scholarship was first awarded in 1927. Since that time, additional awards have been made from time to time to members of the club. Basis for award is financial need and participation in school activities. The amount of the scholarship usually equals tuition for one quarter.

The Alfred Esbergs' Honors Scholarship.—Mr. A. I. Esberg founded this scholarship in 1945 with an initial gift of $15,000 for the benefit of Upper Division students in engineering or the natural sciences.

Helen Evans Scholarship in Music.—This scholarship, covering tuition, was established in 1951 by an anonymous donor for the benefit of a student majoring in music. Application should be made to the Executive Head of the Music Department.

Anna B. Eyre Honors Scholarship.—This scholarship was endowed from a bequest of $7,000 received from the estate of Miss Mary Brooks Eyre in 1947. The annual income, amounting to approximately $300, provides a scholarship for a

woman student registered in the Stanford School of Medicine or in the pre-medical curriculum.

William B. Faville Honors Scholarship.—In 1949 the University received from the estate of William B. Faville a scholarship fund of $27,750, the income to be awarded annually to a student in the Graduate School of Business, with preference to be given to students interested primarily in the field of distribution. Application should be made to the Dean, Graduate School of Business.

Field-Hotaling Honors Scholarships.—In 1948 the University received from the estate of Mr. Charles K. Field ('95) a bequest of $30,000 with which to endow the Field-Hotaling Scholarships or Fellowships to be awarded to students in the Department of Speech and Drama. In making awards, emphasis shall be placed upon character, initiative; originality, instinct for service and leadership, and appreciation of the American system of government and a reverence for its institutions. Application should be made to the Department of Speech and Drama.

Hiram C. Fisk Honors Scholarship.—In 1920 Mr. W. D. Fisk endowed a scholarship in memory of his son, Hiram C. Fisk ('10), who lost his life in World War I. The amount available is approximately $224 per annum.

Hugh Foster Honors Scholarship.—(See Robert M. Loeser and Katherine F. Loeser Scholarship Fund.)

Freshman Engineering Scholarships.—Since 1951, five or more scholarships of $1,000 each have been made available to entering freshman men whose major subject will be in any of the departments of the School of Engineering. The scholarships are renewable for four years, depending upon the recipient's Stanford record and his continued need of assistance.

Florence Hecht Fries Honors Scholarship in Medicine.—In 1925 Mrs. Dorothy Fries Lilienthal endowed a scholarship fund of $5,000 in memory of her mother, Mrs. Florence Hecht Fries. The income of this fund (approximately $220) is awarded annually to a worthy and needy student, graduate or undergraduate, preparing for the profession of medicine.

William Fries Honors Scholarship.—In 1951 Mr. William Fries established a permanent endowment fund of $10,000, the income of which is to be used for scholarships and fellowships for graduate or undergraduate students in the School of Medicine. Awards will be made on the basis of need, character, scholastic achievement, and promise of success.

Fuller Foundation Honors Scholarship.—In 1953 the University received from the Fuller Foundation an initial gift of $1,000 to establish one or more annual scholarships for deserving students.

George E. Gamble Honors Scholarships.—In 1934 and subsequently the University received from Mr. George E. Gamble gifts totaling more than $197,500 to endow scholarships covering tuition or more. These are awarded to native-born resident or entering undergraduate men students on the basis of character, high scholastic standing, and personal need.

Frank Gard Memorial Scholarship.—Mrs. Mary Gard Jameson ('15) endowed this scholarship in 1945 in memory of her brother, Frank J. Gard ('14), with a gift of $11,000. Preference is given to entering students planning to major in chemistry, on the basis of interest in the University, research in chemistry, and participation in student activities. The scholarship is renewable for a period of four years provided the holder maintains a satisfactory record. The annual income is approximately $480. Every fourth year preference is given to students from South America.

Gertrude Gardiner Honors Scholarship.—In 1920 Miss Gertrude Gardiner established a scholarship of the annual value of $200 to be awarded to an under-

graduate nonsorority woman who has been a student in the University for at least two quarters and who is a resident of one of the University dormitories.

William Garland Memorial Honors Scholarship.—This scholarship was endowed from a gift of $16,000 received in 1944, and subsequently, from Mr. Grover T. Garland. The income is to be used for a scholarship to be awarded to worthy students specializing in civil engineering.

A. P. Giannini Honors Scholarships.—In 1952 and subsequently the University received from the A. P. Giannini Scholarship Foundation $8,000 to establish scholarships for deserving students.

Gilfillan Fund.—Since 1948 Gilfillan Brothers, Inc., have contributed funds annually to be used for engineering students at the discretion of the Dean of the School of Engineering. At the present time the fund is being used to maintain scholarships for electrical engineering students.

Justitia Jane Campbell Glennie Honors Scholarship.—In 1939 the University received from the estate of Mrs. Justitia Jane Campbell Glennie a scholarship endowment of $7,520, the income of which is to be awarded annually to a deserving student. The amount of the scholarship is approximately $330.

Daniel L. Goodman Scholarship.—In 1950 the University received from the estate of Mrs. Jennie Goodman an endowment of $24,000 for the School of Law in memory of her son, Daniel ('22). At present the income is being used for scholarships in law. Application should be made to the Dean of the School of Law.

Chalmers G. Graham Scholarship in Law.—This scholarship, supported by an endowment of $33,000, was made possible through the generosity of Mr. Chalmers G. Graham, whose desire it is to assist worthy students in the School of Law.

Nathaniel Greene Guiberson, Jr., Scholarship.—This scholarship was established in 1946 by Mr. and Mrs. N. G. Guiberson in memory of their son, Nathaniel Greene Guiberson, Jr. ('39), who lost his life in World War II while serving as first pilot and first lieutenant in the United States Army Air Corps. The scholarship, covering tuition, is intended for men students on the basis of financial need, scholarship, character, and physical fitness.

William Haas Honors Scholarship.—In 1943 the University received a bequest of $20,000 from the estate of William Haas ('37) to endow one or more scholarships. The annual income is approximately $880.

John M. Haffner Scholarship.—In 1944 the University received from Mr. and Mrs. J. B. Haffner the sum of $10,000 to endow a scholarship in memory of their son, Major John M. Haffner, A.B. ('38), LL.B. ('41). The scholarship is to be awarded to worthy students in the Stanford School of Law. Application for this award should be made through the Dean of the School of Law.

Theodore Eugene Halsey Memorial Honors Scholarships.—In 1953 the University received from the estate of Mrs. Carrie Dam Halsey a gift of $10,000 to found the Halsey Scholarships for the benefit of worthy and promising young men.

William F. Hanrahan Scholarship.—In 1946 the University received from the estate of Mr. William F. Hanrahan a bequest of approximately $2,000 with which to establish a scholarship to assist a worthy student through the engineering course.

Raymond O. Hanson Memorial Honors Scholarship.—Friends of Mr. Hanson endowed this scholarship in his memory in 1945, with an initial gift of $3,000. Additional contributions have increased the principal to $5,100 at the present time. The income (and, if needed, a portion of the principal) is to be awarded to worthy students in the Upper Division who intend to enter the field of social service as a career, with particular emphasis upon youth guidance.

Blanche Harris Scholarship in Law.—In 1934 the University received from the estate of Miss Blanche Harris the sum of $3,000 to endow a scholarship of the annual value of approximately $132, to be awarded to a student in the School of Law. Application should be made to the Dean of the School of Law.

Elston Mills Harrison Memorial Honors Scholarship.—This scholarship was endowed in 1942 by Mrs. Nicholas M. Harrison in memory of her son. It is the founder's intention to add to the endowment from time to time. At present the annual income is approximately $440. The scholarship is intended for students beyond the freshman year who are partially or wholly self-supporting, and whose scholastic standing is superior.

Carrie Hassler Honors Scholarship.—In 1934 the University received from the estate of Mrs. Carrie Hassler a scholarship fund of $6,300, the income, approximately $275, to be awarded annually to a worthy and needy student preparing for the medical profession. Application should be made to the Dean, Stanford School of Medicine, San Francisco.

Lloyd Henley, Jr., Memorial Honors Scholarship.—This scholarship was endowed in 1947, for the benefit of worthy students, by the family and friends of Lloyd Henley, Jr. ('42), who lost his life while serving his country in the Pacific war area during World War II. The initial endowment of $1,857 has been increased by the receipt of additional gifts. At the present time the fund amounts to more than $3,000, but since gifts are still being received, the annual income has not yet been fixed at a definite sum.

William F. Herrin Honors Scholarship.—In 1925 the University received from Mr. William F. Herrin, of San Francisco, a gift of $4,500 to endow a scholarship for deserving students. The annual income is approximately $195.

Brodie G. Higley Honors Scholarship.—In 1915 Mr. Brodie G. Higley ('99) established, through the Alumni Association, an annual scholarship which he endowed in 1919 with a gift of $3,000. The scholarship is open to men and women undergraduates who have matriculated at Stanford University and who are in good and regular standing. Awards are made on the basis of character, scholarship, intellectual promise, and financial need. The annual amount of the scholarship is approximately $130.

Edward M. and Grace M. Hinch Memorial Honors Scholarship.—In 1950 the University received from the estate of Mrs. Grace M. Hinch a bequest of $2,800 to endow a scholarship for worthy American students.

Marie Crismon Hindes Scholarship in Nursing.—Mr. and Mrs. Stetson G. Hindes endowed this scholarship in 1945 with a gift of approximately $10,000. The income is to be awarded to students in the Stanford School of Nursing, or its graduates, upon nomination of the Director of the Nursing School and the Physician Superintendent of Stanford University Hospitals. The basis for award is merit and professional promise. Application should be made to the Director of the School of Nursing.

Charles Holbrook Honors Scholarship.—(See Olive and Silas Palmer Honors Scholarship Fund.)

Mildred and James E. Hollingsworth Scholarship in Political Science.—In 1946 Mr. and Mrs. James E. Hollingsworth established a scholarship for the benefit of a student in political science who expects to teach courses in government or work in the field of government as a career. At present the annual stipend is approximately $500. Application should be made to the Executive Head of the Department of Political Science.

E. W. Hopkins Honors Scholarships.—In 1923 the University received from Mr. E. W. Hopkins a gift of $30,000, the income to be used for paying the tuition of needy students.

William O. Horabin Honors Scholarship.—In 1950 the University received from the estate of Mrs. Elizabeth Horabin a bequest of $10,000, the annual income to be used to maintain a number of scholarships. Individual awards may not exceed $440, and only students supporting themselves in whole or in part from their own earnings are eligible.

Gladys E. Horner Honors Scholarships.—In 1937 the University received a bequest from the estate of Mrs. Gladys E. Horner in the amount of $18,000, to endow scholarships for worthy and needy students.

Mr. and Mrs. Frank Hornkohl Honors Scholarship.—In 1948 Mr. Frank Hornkohl ('27) and Mrs. Hornkohl established an annual scholarship of $300 for a needy and deserving student in mineral sciences. Application should be made to the Dean of the School of Mineral Sciences.

Charles A. and Margaret D. Huston Memorial Scholarship.—In 1936 friends of Mrs. Margaret Davidson Huston, for fourteen years Scholarship Secretary at Stanford University, established a scholarship in her memory. Two awards have been made, and additional gifts are being allowed to accumulate for future award. Meanwhile the fund is available on a loan basis to students registered in the School of Law. With the addition of a gift in 1937 from Mrs. Isabel Charles Jones and Mr. Allan Charles, the memorial was extended to include the name of the late Charles Andrews Huston, formerly Dean of the Stanford School of Law.

The Irvine Scholarship Fund.—This scholarship was endowed in 1953 by the James Irvine Foundation for students residing in the state of California, with preference to those residing in Orange County. Income from the endowment of $60,000 is to be administered for the maximum number of eligible applicants.

Edward Francis Jones Memorial Scholarship.—In 1951 Mr. W. F. Jones founded this scholarship in memory of his son, Edward, who earned his B.S. at Stanford in 1950 and his M.S. in 1951. The scholarship is for the benefit of students in the Department of Civil Engineering.

W. K. Kellogg Foundation Scholarship.—In 1944 the W. K. Kellogg Foundation established a scholarship in physical therapy. Application should be made to the Executive Head, Department of Physical Therapy, Stanford University.

Charles Warren Kendrick Memorial Honors Scholarships.—In 1946 and subsequently, Mr. and Mrs. Charles Kendrick endowed a fund in memory of their son, Charles Warren Kendrick ('39). At present the income is being used to support scholarships for undergraduate men students whose major field is in the humanities.

Gordon Kimball Memorial Honors Scholarship.—This scholarship was founded in 1945 in memory of Gordon Eugene Kimball ('44) by his family and friends. At present the endowment amounts to approximately $13,000, but, inasmuch as gifts are still being received, the income has not yet been fixed at a definite sum. To qualify for this scholarship the applicant must be a male graduate of a Ventura County secondary school, of American parentage, and the parents or guardians must be residents of Ventura County. The award is based on financial need, scholarship, character, reliability, good citizenship traits in high school, participation in extracurricular activities, and qualities of potential leadership. The scholarship is renewable throughout the holder's undergraduate registration provided he continues to be deserving and qualified. It is requested, but not required, that after graduation the recipient make gifts to the fund which will eventually be equivalent to the scholarship which he received. Selection of the scholar will be made by the University Committee on Financial Awards from students recommended by a committee composed of a Ventura County school official and two representatives of the Stanford alumni of Ventura County.

Marion Rice Kirkwood Fund.—In 1952 the University received from various donors gifts to found the Marion Rice Kirkwood Professorship in Law. Until such time as the endowment is sufficient to support a professorship, the income is to be used for law scholarships or such other purposes as the School of Law may designate.

Jessie R. Kistler Honors Scholarship.—Miss Jessie R. Kistler ('11) established this scholarship in 1949 for the benefit of students who have attended Los Angeles city schools. The annual award is $500; it is the donor's hope that students receiving this award will at some time after their graduation contribute to the fund in order that others may receive similar assistance.

Lagunita Junior Class Scholarship.—In 1938 and subsequently, the junior women residing in Lagunita Court established a scholarship to be awarded to a member of their group subject to approval by the Committee on Financial Awards. The annual amount is approximately $150.

James F. Lanagan Memorial Honors Scholarship.—In 1941 and subsequently, the University received contributions from friends of Mr. James F. Lanagan ('00) amounting to $16,200, to endow a scholarship in his memory. The endowment provides an annual income of approximately $640, which is available on a competitive basis to undergraduate men students at Stanford and at the University of California. The qualities which characterized Mr. Lanagan—leadership, seriousness of purpose, athletic interest, balance, and common sense—are to be taken into consideration in making the award.

Landels and Weigel Honors Scohlarship.—In 1948 Mr. Edward D. Landels and Mr. Stanley A. Weigel established an annual scholarship of $500 for a student in the School of Law, who has at least some financial need and for whom the award may inspire self-development and useful achievement. Application should be made to the Dean of the School of Law.

Dr. Jessie C. Langford Scholarship.—In 1942 Dr. Dorothy Hewitt established this scholarship in memory of her mother, for the benefit of women students in the Stanford School of Medicine. At present, the award covers tuition. Application should be made to the Dean of the Stanford School of Medicine, San Francisco.

Harry G. Lasher and Alma M. Lasher Honors Scholarship.—In 1949 the University received from the estate of Mr. Harry G. Lasher a bequest of $34,400 with which to establish an endowment fund, the income of which is to be used for scholarships.

Olive Stevens Lathrop Memorial Honors Scholarships.—(See Amelia E. S. Wilson Estate.)

Leadership Scholarships.—In 1951 and subsequently, funds were appropriated by the President to provide a number of tuition scholarships for qualified freshman men. In making awards primary emphasis is placed on the student's character and leadership and on the contributions he has made to his school and his community. However, applicants must also demonstrate scholastic proficiency and financial need.

Abe Lewis, Jr., Honors Scholarship.—In 1941 and subsequently, Mr. Abe Lewis, Jr., gave to the University approximately $15,000 to endow this scholarship. Preference in awarding the income will be given to deserving men students who possess a high degree of academic proficiency and who are interested and proficient in baseball as a health-giving college sport.

Lions Club Scholarship Grant.—This scholarship was founded by the Lions Club of Palo Alto for the benefit of worthy students who have physical disabilities, with preference to be given those with significant spastic disability. Lions Clubs in other localities have been invited to contribute to the fund.

Juliet Lee Knopp Lockwood Memorial Honors Scholarship.—In 1944 Mr. and Mrs. Gideon D. Knopp gave to the University $5,000 to endow this scholarship in memory of their daughter, who received the degree of Master of Arts at Stanford in 1919. In awarding the scholarship, preference is given to women applicants. The annual income is approximately $220.

Robert M. Loeser and Katherine F. Loeser Scholarship Fund.—In 1947 Mrs. Robert M. Loeser gave to the University $20,000 with which to endow three scholarships. The Robert M. Loeser and Katherine F. Loeser Honors Scholarship, amounting to approximately $440 annually, is for a student in chemistry. The Mary Foster Riotte Honors Scholarship, of approximately $220, is for a woman student in history. The Hugh Foster Honors Scholarship, of approximately $220, is for a student in law. Application for the latter scholarship should be made to the Dean of the School of Law.

Los Angeles Regional Honors Scholarship.—In 1927 the University received from the Board of Athletic Control the sum of $2,260, covering the refund of Stadium subscriptions for which the donors had indicated that the final disposition was the creation of a scholarship endowment. Since that time the annual income has been added to the principal so that the fund now amounts to $5,000. The sum of $220 per year is available annually for a student from the Los Angeles area.

Ernest A. Love Honors Scholarship.—From the estate of Mrs. Louetta G. Love the University received a bequest of $5,000 in 1947, with which to endow this scholarship in memory of her son, Ernest A. Love ('18), who lost his life in World War I. The annual amount of the scholarship is approximately $220.

John Stewart Low Scholarships.—In 1939 Mrs. Mary Low gave the University $2,500 in memory of her son, John Stewart Low ('28) to establish scholarships for students in the Department of Electrical Engineering. Ordinarily each scholarship is in the amount of $300 and is tenable for two years. The holder is requested but not required to repay the sum awarded to him within five years after graduation. Application should be made to the Executive Head of the Department of Electrical Engineering.

Annie G. Lyle Honors Scholarship.—In 1949 the University received from the estate of Miss Annie G. Lyle a bequest of $2,500 with which to establish a fund to aid a medical student to complete his or her course of study. The recipient should be worthy and in need of financial assistance.

Ernest Gale Martin Memorial Honors Scholarship.—This scholarship was endowed in 1944 in memory of Professor Ernest Gale Martin, for eighteen years professor of physiology at Stanford and head of the Department of Physiology, by his widow, Ruby Ticknor Martin, and his daughter, Lois Ticknor Martin. The income supports a scholarship for students registered in medicine or graduate students in geology. The scholarship is renewable so long as the recipient maintains a record satisfactory to the Committee on Financial Awards. Awards are to be made alternately to students in medicine and in geology, subject to the discretion of the Committee.

Julius H. Martin Honors Scholarship.—In 1945 the University received a bequest of over $28,800 from the estate of Julius H. Martin to endow this scholarship for worthy men students of high scholastic standing.

George H. Mayr Honors Scholarships.—Since 1950 funds have been made available annually through the George H. Mayr Educational Foundation for scholarships for worthy young men and women who are residents of California. Preference is given to students pursuing courses in useful trades, occupations, and professions, with particular emphasis on chemistry, chemical engineering, electrical engineering, mechanics, and dentistry, and excluding medicine.

Dorothy Metz Honors Scholarship.—In 1920 Mrs. Lillian C. Metz established an annual scholarship in memory of her daughter, Dorothy Amanda Metz ('17), to be awarded "to a worthy and ambitious student of limited means." In 1925 an endowment of $4,775 was left in trust by Mrs. Metz in her will, making the annual value of the scholarship approximately $200.

Julian J. and Adele H. Meyer Honors Scholarship.—This fund, originally designated as a loan fund in 1943, was established as a scholarship, with an endowment of $5,000, in 1950 by Mr. Julian J. Meyer. The income and part of the principal provides scholarships annually for worthy women students who have completed their Lower Division requirements.

Frederick Dewey Michaels Scholarship.—In 1939 the University received a gift of $10,000 from Mrs. Mary Louise Darling, Mr. Alan J. Michaels, and Mr. Henry Michaels to endow a scholarship in memory of their brother, Frederick Dewey Michaels ('35, LL.B., '38). The income from the gift, approximately $440 per year, is to be used as a scholarship in the School of Law, the recipient to be selected upon recommendation of the Dean and faculty of the School of Law, to whom application should be made.

John Pearce Mitchell Honors Scholarship.—In 1945, upon the occasion of Registrar J. P. Mitchell's retirement from active service, the Associated Students of Stanford University made him a gift of $5,000 with which to endow the John Pearce Mitchell Scholarship Fund. They increased the fund to $6,000 in 1947. Additional contributions have been made by friends of Mr. Mitchell and the principal at present amounts to more than $9,714.

Nevada Moore Scholarship Fund.—Miss Nevada Moore provided for this fund through a bequest of over $42,000 received by the University in 1952. It was Miss Moore's desire that scholarships be awarded from the income to girls of Caucasian ancestry.

R. Albert Moore Scholarship Grants for Orphan Children.—These scholarships were established in 1951 through a bequest of $12,500 from the estate of R. Albert Moore. They are for the benefit of students under the age of twenty-one who are unmarried and who have neither a living father nor mother.

Robert S. and Florence Moore Honors Scholarship.—In 1925 the University received from Mr. and Mrs. Robert S. Moore a fund of $3,000, the income to be applied to the support of some worthy student. The annual value of the scholarship is approximately $120.

Nathaniel Richard Morgan Honors Scholarship in Electrical Engineering.—In 1942 and subsequently, Mr. and Mrs. Frederick E. Morgan gave to the University the sum of $6,000 to endow a scholarship, originally established for the year 1931–32, in memory of their son, Nathaniel Richard Morgan ('28, Engineer, '29). The scholarship is for Upper Division or graduate students specializing in electrical engineering who are at least partially self-supporting, of especial scholastic promise, and of high moral character. The annual income is approximately $255.

Lester L. Morse Scholarship.—This scholarship was endowed by Mr. Morse in 1949 and subsequently with gifts totaling $2,000. At present the annual income is available for the purchase of books or supplies by students in the Graduate School of Business. Application should be made to the Dean of the Graduate School of Business.

Mothers' Club of Stanford University Scholarships.—An honors scholarship covering tuition for two years was established by the Mothers' Club of Stanford University in 1950. In addition, Mothers' Club offers a number of scholarship grants to needy students who would not otherwise qualify for scholarships under the general requirements.

Mu of Gamma Phi Beta Scholarship.—This scholarship was established in 1952 by Mu Chapter of Gamma Phi Beta, to be awarded annually to one or more

qualified men or women applicants for graduate or undergraduate study at Stanford University. Preference shall always be given to applicants who are descendants of alumnae of Mu Chapter of Gamma Phi Beta. Application should be made to the University Committee on Financial Awards.

Oscar W. T. Muellhaupt and Mary Strowbridge Muellhaupt Memorial Honors Scholarship.—In 1937 the University received a bequest from the estate of Mrs. Mary S. Muellhaupt in the amount of $5,000 to endow a scholarship for worthy graduate students in biological sciences. The annual amount of the scholarship is approximately $220. Application should be made to the Executive Head of the Department of Biological Sciences.

The Dick Munroe Memorial Scholarship Grant.—In 1946 and subsequently, the University received gifts of $15,000 from Mr. and Mrs. Edward Munroe for the purpose of endowing a scholarship in memory of their son, Richard P. Munroe ('45), who was killed in action while serving as a lieutenant in the United States Marine Corps Reserve during World War II. The annual income is to be used as a scholarship for men of the Caucasian race, and awarded on the basis of financial need and general qualifications. Preference is given to applicants from Flintridge Preparatory School for Boys, or to members of the Stanford chapter of Delta Kappa Epsilon fraternity in their junior or senior year.

Music Guild Scholarships.—Since 1951 the University has received over $4,000 from the Music Guild to establish scholarships for music students, to be nominated by the executive head of the Department of Music.

Evelyn L. Neizer Honors Scholarships.—In 1951 the University received from the estate of Mrs. Evelyn L. Neizer the sum of $200,000 to endow a number of scholarships in the School of Medicine for students engaged in the study of the heart.

John D. Neppert Family Honors Scholarships.—In 1950 the University received from Miss Julia M. Neppert and Miss Florence E. Neppert $20,000 to endow a scholarship for pre-medical or medical students. It is the wish of the donors that this scholarship be used to help one student through his entire period of training. In the event that there are no applicants in medicine, the award may be made to students in other fields. An additional gift of $18,000 was received in 1951, the income to be awarded as a scholarship or fellowship for students in music, as long as there are qualified applicants, whose character and scholastic achievement indicate the probability of considerable success in their musical advancement.

Henry Newell Honors Scholarships.—In 1932, under the will of Henry Newell, the University received a fund of approximately $230,000 to endow scholarships for young men and women, preferably from the state of Utah, who have shown excellence in their school or college work and who are in need of financial aid to secure or complete their courses of study. Applications are considered both from entering students, graduate or undergraduate, and from students already registered in the University. The annual income is approximately $10,000.

Arthur A. Newhouse Honors Scholarships.—In 1950 and subsequently, the University received from the Arthur A. Newhouse Foundation substantial scholarship funds to assist worthy Upper Division or graduate students enrolled in courses leading to professions in medicine, dentistry, law, engineering, teaching, or nursing. Awards are limited to $500 annually and recipients may not be members of social fraternities or sororities.

Douglass E. Newton Honors Scholarship.—In 1937 Mary Fisk Newton ('13) (Mrs. Edwin Simpson) established a scholarship in memory of her husband. The annual amount of the scholarship is $240.

Dr. Francis J. Nicholson Scholarship Grant.—In 1935 the University received from Dr. Francis J. Nicholson, through the Stanford Associates, approximately $1,500, the income to be used as a grant for needy students.

Paul Ortega Scholarship in Law.—Mr. Ortega established this scholarship in 1950 with a gift of $750 for the benefit of a law student. Scholarships are awarded upon the nomination of the Dean of the Law School on the basis of need, character, scholastic standing, and promise of contributing toward the furthering of the principles of free enterprise and true Americanism. Application should be made to the Dean of the Law School.

Eleanor Osborn Honors Scholarship.—This scholarship, endowed in 1950 by a bequest of $1,000 from the estate of Miss Eleanor Osborn, is used for worthy students in the School of Education. The income yields an annual scholarship of approximately $44. Application should be made to the Dean of the School of Education.

Olive and Silas Palmer Honors Scholarship Fund.—In 1946 the University received a gift of approximately $50,000 from Mr. and Mrs. Silas H. Palmer with which to endow three scholarships to be known as the Charles Holbrook Scholarship, the Olive H. Palmer Scholarship, and the Silas H. Palmer Scholarship. The income from these scholarship funds is to be used for the benefit of worthy students who need financial assistance.

Robert H. Palmer Scholarships.—These scholarships were made possible through a bequest of $60,000 received in 1951 from the estate of Robert H. Palmer. Income from the endowment is to be used for scholarships in the School of Mineral Sciences, Department of Geology. Application should be made to the Dean of the School of Mineral Sciences.

Pearson-Sibert Oil Company of Texas Honors Scholarship.—This scholarship was established in 1951 by the Pearson-Sibert Company and provides $660 per year. Preference is given to a student in the School of Mineral Sciences, to which application should be made.

Margaret Rogers Peterson Memorial Fund.—In 1945 the University received a bequest of approximately $7,500 from the estate of Oliver W. Peterson, the income of which is to be used as prizes or rewards to students proficient in biology. At the present time an annual scholarship of approximately $330 is awarded upon the nomination of the faculty of the Department of Biological Sciences, to whom application should be made.

Charles Pfizer and Company Scholarship.—This scholarship, established by the company in 1952 with a gift of $1,000, is for the benefit of worthy students in the School of Medicine.

John Pressley Phillips, Jr., Memorial Honors Scholarship.—In 1942 friends of John P. Phillips, Jr., who was a student at Stanford from 1940 until his death in 1941, endowed a scholarship in his memory. Inasmuch as contributions are still being received, the annual income has not yet been fixed at a definite sum. At present the income is approximately $220.

P. I. E. Scholarship in Highway Transportation.—This scholarship was established in 1951 through a gift of $250 from the Pacific Intermountain Express Company. It is awarded to a second-year student in the Graduate School of Business who is interested in advanced study in the field of motor freight carrier operation, and who will register in selected courses in industrial management, highway transportation, traffic management, and independent research.

William Pischel Memorial Honors Scholarship.—In 1948 the University received from the estate of Miss Emma Pischel a bequest of $10,000 with which to endow the William Pischel Memorial Peace Scholarship Fund, the income of which is to be used for a student majoring in history or political science and who

is sincerely interested in promoting peaceful settlements of all controversial problems, industrial or social, that arise within our nation; or in our national, industrial, commercial, or social relations with other nations throughout the world.

George J. Presley Honors Scholarship.—In 1935 friends of George J. Presley ('07) established in his honor a memorial fund amounting to $11,612, the annual income of which amounts to approximately $510. The basis for selection of candidates is scholastic attainment, fondness for and success in many outdoor sports, character, leadership, and financial need. Nominations are made by a committee composed of the President of the Alumni Association, and the Chairman of the Stanford Athletic Board.

Francis Price Law Scholarship.—This scholarship was established in 1947 through the generosity of Mr. Francis Price, Sr., who presented the University with $500 for the benefit of deserving law students. It is available on an annual basis. Application should be made to the Dean of the School of Law.

Longueville and Marjorie Price Scholarship Grant.—In 1949 and subsequently, the University received from Mr. Longueville Price ('13) and Mrs. Price ('21) $26,400, the annual income to be used for a scholarship for needy students. The award is intended for students whose participation in extracurricular activities, such as athletics, reduces the time available to them for part-time work; preference is given to mile or two-mile runners.

Ram's Head Scholarship Grant.—In 1952 the University received from Ram's Head, the student drama society, a gift of $16,500 to endow a scholarship for the benefit of students majoring in speech and drama, with preference to those interested in theater and drama, or radio and television, who have in the past taken an active part in theatrical productions at Stanford or elsewhere.

Mabel Wilson Richards Honors Scholarships.—These scholarships were founded through a bequest made possible by the generosity of Mrs. Mabel Wilson Richards. It was her desire to aid women who have been residents of the Los Angeles metropolitan area for at least two years, who are in need of financial assistance, and who are planning a course calculated to qualify them for a profession or means of livelihood in which they may reasonably expect to become self-supporting. The number of scholarships and the amount available to each recipient vary from year to year.

Mary Foster Riotte Honors Scholarship.—(See Robert M. Loeser and Katherine F. Loeser Scholarship Fund.)

Roble Club Scholarship Grant.—This scholarship was first given to the University by Roble Club for the year 1932 33. Additional gifts have been made from time to time, for the purpose of maintaining a scholarship for the benefit of women students who are members of the club. The amount of the scholarship varies.

John J. Rogers Scholarship.—This scholarship was endowed with a gift of $10,000 in 1952, through the generosity of Mr. Ralph H. Bollard in honor of his son-in-law. Income from the endowment is to be used for aiding deserving students. Special preference is to be given to the donor's descendants.

Claude Clifford Ryder Scholarship.—In 1944 the University received from the estate of Mr. Claude Clifford Ryder the sum of $68,000 to endow a scholarship fund for the benefit of medical students. Application should be made to the Dean, Stanford School of Medicine, San Francisco 15.

Mary V. Salmon Honors Scholarship.—In 1950 the University received from the estate of Mrs. Mary V. Salmon a bequest of over $8,000 to endow a scholarship for worthy Stanford students. Preference is given to those students who have resided for a period of two years or more immediately preceding selection within the boundaries of the Manteca Union High School District or of San Joaquin

County. Income from the endowment yields an annual scholarship of approximately $350.

Richard F. Sandwick Memorial Scholarship Grant.—In 1940 Mr. and Mrs. Richard L. Sandwick presented the University with securities valued at $6,600 to endow a scholarship in memory of their son, Richard F. Sandwick ('27). The recipient is nominated by an alumni committee of the local chapter of the Chi Psi fraternity.

San Francisco Bridge Company Scholarship Grant in Construction Engineering.—In 1953 the University received from the San Francisco Bridge Company the sum of $700 to establish a scholarship for the benefit of a junior or senior student in engineering who is interested in the construction field.

San Francisco Polytechnic High School Honors Scholarship.—In 1928 the Polytechnic High School of San Francisco established a fund of $3,000, the income to be devoted to an annual scholarship, preferably for a graduate of the Polytechnic High School. The amount available annually is approximately $132. Application should be addressed to the Principal, Polytechnic High School, San Francisco.

San Francisco Regional Honors Scholarship.—In 1928 the sum of $3,835, which represented over-subscription to Stadium building costs, was given to the University to endow the San Francisco Regional Scholarship and the interest on the sum was allowed to accumulate until the total fund amounted to $5,000. This provides an annual scholarship of approximately $220.

San Francisco Tyee Club Scholarship.—In 1953 the San Francisco Tyee Club established a scholarship of $1,200 to support the work of a graduate student doing research on some phase of the life history of the Pacific salmon. The student may be enrolled at either the University of California or Stanford University.

Henry W. Seale and Jessie D. Carr Seale Honors Scholarships.—In 1932, and subsequently, the Trustees of the University received a bequest of $6,773 from the estate of Mrs. Jessie D. Carr Seale to endow a fund for the maintenance of two scholarships, one of which was a memorial to her husband. The scholarships are to be awarded to native-born, needy, deserving, capable women desiring a collegiate education. The total annual amount of each scholarship is approximately $150.

Senior Class Honors Scholarship.—In 1941 the Class of 1940 initiated the Senior Class Scholarship Fund with a gift to the University of $1,489. The terms of establishment permit any individual or organization to add to the principal, and subsequent senior classes have done so. At present the endowment amounts to $7,448. It is the hope of the founders that future senior classes will add to the fund, so that a substantial annual income may soon be realized. At present the income is approximately $316. The terms provide for scholarships to be awarded to superior students who show intellectual maturity and achievement and who have a need for financial assistance.

Sequoia Eating Club Scholarship.—This scholarship was endowed in 1951 from funds made available by the Sequoia Eating Club. The endowment amounts to approximately $5,000 accrued from assets placed in trust in 1942 when the club discontinued operation. The scholarship is intended for men students living in residence halls on the campus who are not members of social fraternities. Unexpended income is being added to the principal until such time as the endowment is sufficient to support a full tuition scholarship.

Jane A. Sharp Scholarship in Law. — This scholarship was endowed from gifts of $7,000 received in 1947, and subsequently, from Mr. and Mrs. Sydney J. W. Sharp. The annual income, of approximately $250, is for the benefit of needy students in the Stanford School of Law.

Ella Moore Shiel Scholarship Grant.—This scholarship was endowed in 1951 for the benefit of deserving and needy students through a bequest of over $25,000 from the estate of Mrs. Ella Moore Shiel.

Sigmund Silberman Foundation Honors Scholarship.—Mr. David Silberman ('41) and Mrs. Silberman established this scholarship in 1945. The annual amount is $750.

David L. and Lavinia E. Sloan Memorial Honors Scholarship in Chemistry.—This scholarship was established in 1945 and subsequently endowed by Professor W. H. Sloan of the Department of Chemistry. The scholarship is restricted to first-year men graduate students in chemistry who have spent their last two undergraduate years as majors in chemistry at Stanford. During this period their grades must have averaged B or above in chemistry, physics, and mathematics. At present the annual income is approximately $347. Application should be made to the Executive Head of the Department of Chemistry.

Leon Sloss Honors Scholarship.—In 1922 Mrs. Bertha G. Sloss established a fund of $5,000 in memory of her husband, Mr. Leon Sloss, one of the original trustees of the University. In 1943 Mr. Louis Sloss contributed $1,000 to the endowment. The income at present is being administered as a scholarship and is awarded annually to a needy student. The annual amount available is approximately $264.

Louis Sloss Scholarship.—In 1952 friends of Louis Sloss endowed this scholarship through gifts totaling over $2,500. Income from the endowment is to be used for scholarships for needy students.

Louis and Sarah Sloss Honors Scholarship.—In 1934 the sum of $7,500 was presented to the University by the family of Louis and Sarah Sloss, the income to be used for scholarships or for such other educational purposes as the proper authorities may decide. The annual amount available is approximately $330.

Socony-Vacuum Oil Company, General Petroleum Corporation Scholarship.—Since 1949 the Socony-Vacuum Oil Company, General Petroleum Corporation has supported scholarships for the benefit of Upper Division and graduate students in engineering and mineral sciences.

Square D Company Scholarship.—The Square D Company established this scholarship in 1953 with an initial gift covering tuition. The award is for the benefit of students in electrical, mechanical, industrial, or general engineering, who are entering their junior year, who show above-average potentialities for success in their chosen field of work, and who have a record of leadership and diversified interests.

Stanford Honors Scholarships.—Gifts from friends and alumni of the University, made through the Stanford Fund and designated for scholarships, are awarded upon recommendation of the Committee on Financial Awards, or, in cases where the gift is designated for a certain department, upon recommendation of the department head. A number of scholarships and fellowships have been made possible by contributions ranging in amount from one dollar to one hundred dollars, received in response to the annual appeals of the Stanford Fund.

Stanford Bookstore Honors Scholarships.—From time to time, the Board of Directors of the Stanford Bookstore have made gifts to the University for the purpose of establishing scholarships for students in the Graduate, Upper, and Lower Divisions of the University. For the academic year 1953–54 the sum of $7,500 was received for such scholarships.

Leland Stanford, Jr., Memorial Honors Scholarship.—The trusts establishing this scholarship provide a fund of $12,000 bearing an annual income of approximately $525, which is used "to pay the living expenses, cost of books, fees, and other necessary expenses of the holder." In addition, the scholar may occupy

a room, rent-free, in Encina Hall. Other things being equal, a student who has held the scholarship satisfactorily for one year has preference for the next. The scholarship is restricted to men students.

Stanford Club of Kern County Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1949–50, when the club made available a scholarship of $600 for a student from Kern County.

Stanford Club of Los Angeles Honors Scholarships.—In 1953 the Stanford Club of Los Angeles established two scholarships for students from the Los Angeles area, one for the benefit of an entering freshman and one for a student with sophomore standing.

Stanford Club of Monterey Peninsula Honors Scholarship.—In 1949 the members of the Monterey Peninsula Stanford Club established a scholarship of $150 to be awarded to a student residing in Monterey County.

Stanford Club of the Mother Lode Honors Scholarship.—Stanford Alumni of the Mother Lode made this scholarship possible for the first time in 1952 when the club offered a full tuition scholarship to Stanford for a graduating senior from Sonora High School.

Stanford Club of New York, New Jersey, and Connecticut Honors Scholarship.—The Stanford Club of New York, New Jersey, and Connecticut established this scholarship in 1945 to provide funds for tuition for a man or woman entering Stanford from one of the three states mentioned.

Stanford Club of the North Bay Scholarship.—This scholarship was made possible for the first time for the year 1952–53, when the Club provided tuition for a student from Santa Rosa.

Stanford Club of Palo Alto Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1951–52, when the club gave $600 to the University. Awards are open to students without geographical restriction, on the basis of scholastic achievement, promise of success, useful citizenship, and financial need, as determined by the University Committee on Financial Awards.

Stanford Club of Pomona Valley Honors Scholarship.—In 1949 the Valley Stanford Club established a scholarship covering half tuition to be awarded annually to a student entering Stanford from one of the secondary schools in the area represented by the club. The award is made on the basis of scholarship, leadership, and financial need, and the club reserves the right to nominate recipients, subject to the approval of the University Committee on Financial Awards.

Stanford Club of Portland Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1948–49, when the club made available a scholarship covering tuition for a student from Portland, Oregon.

Stanford Club of Salinas Valley Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1950–51, when the club provided a scholarship for a resident of the Salinas Valley area, having attended either King City, Gonzales, or Salinas Union High School.

Stanford Club of San Diego Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1948–49, when the club made available a scholarship of $800 for a student from San Diego.

Stanford Club of Saudi Arabia Honors Scholarship.—The Stanford Club of Saudi Arabia established this scholarship in 1950 to provide a tuition scholarship for worthy men students in the Upper Division or Graduate Division. Preference is given to those who are majoring in mineral sciences or engineering, including chemical engineering and petroleum engineering, or who are engaged in research on the Middle East at the Hoover Institute.

Stanford Club of Seattle Honors Scholarship.—This scholarship was made possible for the first time for the academic year 1947–48, when the club gave to the University $500 to be awarded to a student entering the University from the state of Washington. Preference is now limited to the Seattle area.

Stanford Club of Taft Honors Scholarship.—The club established this scholarship in 1952 with a gift of $440 to cover two scholarships for students entering Stanford from Taft.

Stanford Futures Honors Scholarships.—In 1942, according to a plan formulated by the Honorable Herbert Hoover, contributions were made by former Stanford students who wished to repay to some extent the many benefits they had received from their Stanford education. In 1947, a permanent endowment was established, the annual income to be used to maintain scholarships or fellowships for deserving students. At present the endowment amounts to about $62,350.

Stanford Gold Star Scholarship Grants.—These scholarships were established by the Board of Trustees in 1947 and became available for the first time during the academic year 1947–48. They are open to children of men or women who attended Stanford University in regular standing for three or more quarters, and who died in the military service of the United States between September 1, 1939, and December 31, 1946. The scholarships are available for undergraduate or graduate students, and are renewable for a total of four years, provided the holder maintains an average grade of C or better and follows a normal program. The amount of each scholarship is sufficient to cover tuition and fees.

Stanford Law Scholarship.—Since 1938, contributions from alumni and friends have made possible the award of scholarships to students in the Stanford School of Law, upon recommendation of the Dean of the School of Law, to whom application should be made. Many of these gifts have been made through the Stanford Fund in response to its annual appeals.

Stanford Law Veterans Memorial Scholarship.—This fund was started in 1944 with a gift from Professor and Mrs. Lowell Turrentine, Professor George E. Osborne, and Dean and Mrs. M. R. Kirkwood of the Stanford School of Law. A scholarship for Law students has been founded as a tribute of honor, affection, and respect to those students and graduates of the Stanford School of Law who gave their lives in the service of the nation during World War II. Additional gifts have been made to the fund and the endowment at present is $4,200. Application should be made to the Dean of the Stanford School of Law.

Stanford Mothers of the East Bay Honors Scholarship.—This scholarship was established in 1951 when the Stanford Mothers of the East Bay provided funds for a tuition scholarship. The award is intended for a male freshman, outstanding in leadership, from a school in Alameda or Contra Costa Counties.

Stanford University Mathematics Examination Honors Scholarship.—Each spring the Department of Mathematics offers to high schools in Arizona, California, Oregon, and Washington the opportunity of administering a mathematics examination for graduating seniors who are interested in applying for admission to Stanford University. A scholarship covering tuition for one year is given to the student who makes the highest score on the examination and who qualifies unconditionally for admission.

Stanford Women's Club of the East Bay Honors Scholarship.—This scholarship was established in 1938 by the club and subsequently endowed in 1952 to provide tuition for one quarter, perference to be given women residents of Alameda and Contra Costa Counties who have attended Stanford for one or more quarters.

Stanford Women's Club of Los Angeles Honors Scholarship.—The club maintains a scholarship covering tuition for women students registered at Stan-

ford from the vicinity of Los Angeles. At present the recipients are nominated by the club.

Stanford Women's Club of Pasadena Honors Scholarship.—In 1952 the University received from the Stanford Women's Club of Pasadena the sum of $2,000 to endow a scholarship for the benefit of undergraduate women in regular attendance at the University residing in the area represented by the club. Awards are to be made on the basis of need, scholastic proficiency, promise of success, and good character and citizenship. At present, income from the fund is being added to the principal until such time as the annual income is sufficient to cover one or more quarters of tuition.

Stanford Women's Club of San Francisco Honors Scholarship.—In 1924 the Stanford Women's Club of San Francisco established, and has continuously maintained since then, an annual scholarship for the benefit of women students from San Francisco. At present the scholarship covers full tuition.

Leroy Stephens Honors Scholarship.—In memory of the long and effective service of Mr. Leroy H. Stephens ('02) to the Lowell High School, his friends and colleagues endowed this scholarship in 1949 with a gift of $4,060. The income from the fund is to be used as a scholarship for Stanford students who are graduates of Lowell High School.

Rosie Sternheim Memorial Honors Scholarships.—These scholarships for needy students were made possible by a bequest of $56,986, received from the estate of Mr. Ben F. Sternheim in 1948.

Levi Stevens Memorial Honors Scholarships.—(See Amelia E. S. Wilson Estate.)

Olive R. Stevens Memorial Honors Scholarships.—(See Amelia E. S. Wilson Estate.)

Arthur B. Stewart Honors Scholarship.—This scholarship was endowed by Mr. Arthur B. Stewart ('01) in 1945 for the benefit of men students. Preference will be given to those from Maryland, West Virginia, and Pennsylvania. The income from the fund at present is about $65.

John Maxson Stillman Honors Scholarship in Chemistry.—This scholarship was endowed from the Stillman Testimonial Fund of $7,163, presented to Professor John Maxson Stillman by graduates and former students in chemistry, and by others, on the occasion of his retirement from active service in the University, in May 1917. The amount available is approximately $150 per year, and the scholarship is open to undergraduate or graduate students in the Department of Chemistry upon nomination by the department faculty and approval of the President. Application should be made to the Executive Head of the Department of Chemistry.

Parnie Hamilton Storey Room Scholarship.—In 1945 the Delta Gamma Alumnae of Palo Alto and many other friends of Parnie Hamilton Storey ('98) gave to the University a sum of over $5,560 with which to endow this scholarship in her memory. The income from the endowment is used to pay the room rent of a woman student. Award is made on the basis of the student's need for financial assistance and her record.

Summer History Honors Scholarships.—This fund, established in 1948, provides scholarships of $220 each for teachers of American history enrolled in the Graduate Division at Stanford during the summer quarters.

Frances Morgan Swain Honors Scholarship.—In 1947 the University received over $10,000 from the estate of Mrs. Frances Morgan Miller, with which to endow this scholarship. The income, amounting to approximately $440 annually, is to be used as a scholarship for a senior student specializing in mathematics.

Awards are to be made on the basis of character, health, and scholastic excellence. Application should be made to the Executive Head of the Department of Mathematics.

John M. Switzer Honors Scholarships.—This fund was endowed in 1937 through a bequest of $189,502 from the estate of John M. Switzer, the income to be used for scholarships for needy and deserving students.

Catherine Whalley Sykes Honors Scholarship.—This scholarship was endowed in 1944 from a gift of $5,000 received from Miss Anne Sykes and Miss Mary E. Sykes, in memory of their mother. The income of approximately $220 is to be used for an annual scholarship for worthy students.

Tarver Interfraternity Exchange Scholarship.—In 1938 the Interfraternity Council of Stanford University established the Tarver Interfraternity Exchange Scholarship to be awarded annually upon nomination by the Interfraternity Board of Control. This scholarship takes the place of the Bruce Macon Tarver Memorial Scholarship which was formerly given to the fraternity showing the greatest improvement in grades during one academic year. Each fraternity is entitled to one nominee, but no house may receive the award more than once in four years. The award consists of tuition, room, and board for one year at a foreign institution, while the exchange scholar receives the same at Stanford. The basis for selection is all-around merit.

Palmer Wilkinson Taylor Scholarship Grant.—In 1927 and subsequently the Trustees of the University received from the friends and family of Palmer Wilkinson Taylor ('19) a fund of $4,025, the income (approximately $165) to be used for a scholarship in his memory. The scholarship is awarded to a worthy student of the University nominated by the President of the Stanford Chapter of the Sigma Nu fraternity.

Texas Counties Honors Scholarship.—This scholarship was established in 1951 by an anonymous donor for the benefit of worthy male graduates of the high schools of Wichita County, Texas. In the event that there are no qualified applicants from this area, the fund may be used for men graduating from high schools in the counties of Archer, Baylor, Clay, and Wilbarger in Texas. Awards will be made on the basis of financial need, scholastic proficiency, character and citizenship, and promise of active participation in the extracurricular activities of the University.

Mrs. Myron I. Thomas Honors Scholarships.—In 1952 the University received from Mrs. Myron I. Thomas a gift of $5,000 to establish a number of scholarships.

John van Steen Tolman Memorial Honors Scholarship in Economic Geology.—To honor Professor Cyrus Fisher Tolman upon his retirement from active service in the University in 1938, a group of his former students and friends established the Tolman Fund. From this fund was endowed a scholarship in memory of John van Steen Tolman, son of Professor and Mrs. Tolman. Award of the scholarship amounting to approximately $500 is made in alternate years upon recommendation of the trustees of the fund. The fund at present totals approximately $8,000 and is being increased by contributions designated for this purpose through the Stanford Fund. Application should be made to the Dean of the School of Mineral Sciences.

Harry A. True Memorial Honors Scholarship.—In 1927 Miss Helen E. True established a scholarship in memory of her father, Harry A. True. This scholarship, amounting to $450 annually, is awarded to a needy and worthy student of the University.

University Honors Scholarships and Grants-in-Aid.—In 1919, and subsequently, the Trustees of the University established a number of scholarships and

grants-in-aid for graduate and undergraduate students. The annual amount of these awards is flexible.

Stanley Wilson Vanderburgh Memorial Honors Scholarship.—In 1941 and subsequently, Dr. and Mrs. Chester M. Vanderburgh, their family, and friends presented to the University gifts amounting to $5,000 to endow a scholarship in memory of Stanley Wilson Vanderburgh, who attended the University from 1938 to 1941. The scholarship is open for award to any Stanford man or woman student of good health and moral character, with satisfactory grades or credentials, who is required of necessity to work part time for his or her maintenance as a student at Stanford. At present the annual income is approximately $220.

Royall Victor Honors Scholarships.—Several scholarships covering tuition are at present available from the Royall Victor Fund, bequeathed to the University in 1927 under the will of Charles F. Brooker. Preference is given to properly qualified candidates who reside or have resided in the state of Connecticut.

Suzanne Vinetz Memorial Scholarship.—In 1952 and subsequently, the University received from the friends and family of Suzanne Vinetz gifts to establish a permanent endowment fund, the income to be used for scholarships for needy young women. At present, the income is being added to the principal.

Helen Bennett Voorhees Memorial Honors Scholarship.—In 1943 Mr. and Mrs. Willard R. Voorhees endowed this memorial to their daughter, Helen B. Voorhees ('31). The scholarship is intended for women students registered at Stanford University. The income at present is approximately $550.

Agnes Walker Honors Scholarship.—In 1934 the University received from the estate of Dr. Agnes Walker the sum of $12,827, the income to be used as an annual scholarship for a worthy woman student in the School of Medicine. The annual amount available is approximately $564. Application should be made to the Dean, Stanford School of Medicine, San Francisco.

Walter Pernau Walsh Memorial Honors Scholarships.—These scholarships were founded in 1953 through a bequest of over $34,000 from the estate of Marie Pernau Walsh. The income and part of the principal of the fund are to be used for scholarships for needy and deserving students.

Etta Marion Warren Honors Scholarship.—In 1950 the University received from the estate of Miss Etta Marion Warren a bequest of $25,000 to endow a fund, the income of which is to be used for scholarships.

Donald K. Weaver Memorial Honors Scholarship.—Mrs. Donald K. Weaver and her children endowed this scholarship in 1951 for the benefit of students in the School of Mineral Sciences, with first preference to those in petroleum engineering and second to those in geology.

Mr. and Mrs. E. S. Webster, Jr., Scholarships.—In 1951 the University received from Mr. and Mrs. E. S. Webster, Jr., the sum of $1,000 to establish two $500 awards to students in the Department of Political Science who intend to go into public service.

Charles Peters Weeks Scholarship Grant.—In 1948 the University received from the estate of Mrs. Beatrice W. Weeks a bequest to endow a scholarship for a native-born student pursuing a course in architecture. Income from the fund provides a partial scholarship. Application should be made to the Executive Head of the Department of Art and Architecture. A portfolio of original work and requests for applications should be sent to the Executive Head of the Department of Art and Architecture by April 15.

West Coast Electronics Manufacturers' Association Honors Scholarships.—These scholarships were established by the Association in 1953 with a gift of $1,860. The awards are for the benefit of entering freshmen students who plan to major in electrical engineering.

Western Die Casting Honors Scholarship.—The Western Die Casting Company established this scholarship in 1951 with a gift of $1,000 to stimulate interest in the study of practical applications for the improvement and advancement of the die casting process. The award is to be made to a senior student in metallurgical engineering, and is renewable for two years of graduate study.

Western Highway Institute Scholarship.—In 1953 the University received from the Western Highway Institute the sum of $250 to establish a scholarship for a student in the Graduate School of Business who is interested in highway transportation.

James Birdsall Weter Memorial Honors Scholarships.—In 1939 Mr. and Mrs. James P. Weter of Seattle, Washington, and their daughter, Winifred, endowed a scholarship to be awarded annually in memory of James Birdsall Weter ('37), whose death occurred just prior to Commencement. Additional gifts to the fund by the Weter family have made possible the annual award of two scholarships covering tuition. The scholarships are awarded, upon the recommendation of the Department of History, to students who have been distinguished for superior work and who in their senior year will carry on a portion of their studies under the department plan of independent study in the Department of History.

Clarke Butler Whittier Scholarship.—In 1944 Mrs. Clarke Butler Whittier and her daughter, Mrs. Florence Whittier Cary, endowed this scholarship in memory of Professor Whittier, who was for many years professor of law at Stanford, and chairman of the University Committee on Scholarship. The income, at present approximately $305, is for the benefit of needy and deserving students in the School of Law. Application should be made to the Dean of the School of Law.

Ray Lyman Wilbur Fund.—This fund was initiated in 1943 by a gift of $1,000 from the Associated Students of Stanford University in acknowledgment of Chancellor Wilbur's twenty-five years of service to the University. The Associated Students added $1,000 in 1944, and it is their intention to make further contributions to this fund from time to time. Additional gifts from friends, alumni, and students of Stanford have increased the fund to approximately $31,108. In 1944 an endowment was established, the income to be used for the Ray Lyman Wilbur Honors Scholarship and the Ray Lyman Wilbur Fellowship. Each award covers tuition.

Wilbur-Ellis Company Honors Scholarship.—In 1944 the University received a gift from the Hurley Marine Works, through its vice-president, Mr. Brayton Wilbur, the income from which is to be used to supplement other scholarships, or to establish a scholarship for worthy engineering students. At present the endowment amounts to $10,000, and the annual income approximately $440.

Charles W. Willard Scholarship.—In 1925 the University received from the partners and family of the late Charles W. Willard a gift of $6,010, the income to be used to establish a graduate scholarship for advanced study in administrative, public health, or social service work. This scholarship is awarded to a student of the graduating class of the Stanford School of Nursing who has demonstrated excellence in scholarship and outstanding ability in nursing. The money awarded will be held by the School and claimed by the student at any time during the succeeding four years that she may be ready to do advanced study in preparation for one of the three stipulated fields of work. The annual amount available is approximately $264. Application should be made to the Director of Nursing Service, Stanford School of Nursing, San Francisco.

Amelia E. S. Wilson Estate.—From the estate of Mrs. Amelia E. Stevens Wilson, the University received over $225,800 in 1948 to endow three scholarship funds. The Olive Stevens Lathrop Memorial Honors Scholarships, in memory of Mrs. Wilson's sister, and the Olive R. Stevens Memorial Honors Scholarships, in memory of her mother, are to be awarded, as far as practicable, to women students. One or more of the Levi Stevens Memorial Honors Scholarships, in memory of Mrs. Wilson's father, shall be awarded to students who take courses that will fit them for shipping and commercial pursuits. All of the scholarships are intended for needy students of good moral character who profess a belief in God.

Henry Windt, Jr., Memorial Honors Scholarship in Chemical Engineering.—In 1927 the University received from Henry and Viola Windt a gift of $8,500 to endow a scholarship fund in memory of their son, Henry Windt, Jr. The income (approximately $374) is awarded annually to a worthy male student, either graduate or undergraduate, engaged in the study of chemical engineering. Application should be made to the Executive Head of the Department of Chemistry.

Charles B. Wing Civil Engineering Scholarship Grant.—In 1925 the Stanford Student Chapter of the American Society of Civil Engineers founded the American Society of Civil Engineers Scholarship. The name of the scholarship was changed in 1945, upon the recommendation of the Chapter, to honor the memory of Professor C. B. Wing, for many years a member of the Stanford Civil Engineering faculty. With the change in name additional gifts are being made by alumni and friends of the University, and at present the annual income is approximately $636. Awards are made to students in the Department of Civil Engineering upon application to the President of the Stanford Student Chapter of the American Society of Civil Engineers.

Women's Athletic Association Honors Scholarship.—This scholarship was established by the Women's Athletic Association in 1943. It is restricted to women students, entering or matriculated, whose major subject is physical education. The annual amount covers tuition.

Women's Residence Summer Club Scholarship.—The club established this scholarship in 1953 for the benefit of women students who have attended Stanford for one quarter or more. The scholarship provides half-tuition during the summer quarter for a woman living in one of the University summer residences.

Women's Row Honors Scholarship.—The Women's Row Executive Committee established this scholarship in 1949 with a gift to the University of $300. The scholarship is awarded by the University Committee on Financial Awards to a resident of one of the Women's Row houses on the basis of scholastic excellence and financial need. Two awards have been made available since the academic year 1951–52.

Mary Yost Honors Scholarship.—In 1946, upon the occasion of Dean Mary Yost's retirement from active service, the Associated Students of Stanford University endowed this scholarship in her honor with an initial gift of $3,000. Students, faculty, alumni, and friends have since added to the gift, and the endowment at the present time is over $11,200. Since gifts are still being received, the annual income has not yet been fixed at a definite sum. In making awards from this fund, preference will be given to women students.

J. D. Zellerbach Scholarship in Audiology.—In 1952 the University received from Mrs. Jennie B. Zellerbach the sum of $10,000 to endow a scholarship honoring her son's sixtieth birthday. Income from the fund is to be used primarily for students in audiology who give promise of making significant contributions as professional workers in the field.

Richard C. Zellerbach Scholarship Grant.—This scholarship was established in 1951 by Mr. Richard C. Zellerbach for the benefit of deaf and hard-of-hearing students. The number and amount of the awards vary according to the needs of the individual.

SCHOLARSHIPS FOR STUDY AT OTHER INSTITUTIONS

Rhodes Scholarships.—Under the will of the late Cecil Rhodes thirty-two scholarships each year are assigned to the United States. Each scholarship has a yearly value of £400 (plus, at present, a supplementary grant of £100), and is tenable at any college in the University of Oxford for two successive academic years with permission to apply for a third. Further information may be obtained from Professor Philip W. Buck, Political Science Department, Stanford University, or from the Registrar's Office.

AWARDS AND PRIZES

Borden Undergraduate Research Award in Medicine.—In 1945 the University received from the Borden Company Foundation, Inc., the sum of $2,500 to establish this award in the School of Medicine. An annual award of $500 is to be made, on recommendation by the Committee on Medical Research of the School of Medicine, to the senior student in medicine whose undergraduate research is deemed to be the most meritorious. If, in the opinion of the Committee, no student has done research work worthy of an award, no recommendation will be made for that academic year.

Colonial Dames Scholarship.—This scholarship was established in 1923 by the National Society of the Colonial Dames of America. It is awarded, either upon the recommendation of the Department of History or by competition, to the student submitting the best paper on a subject in the field of colonial history. The amount of each award is $100.

William Roberts Eckart Prize in Mechanical Engineering.—In 1923 Professor W. R. Eckart and his family established a research fund as a memorial to his father, William Roberts Eckart. The annual income (approximately $120) is at present awarded to a student in Mechanical Engineering who, in the judgment of the Committee, presents the best thesis for the Engineer's degree during the year. In judging the merits of the various theses submitted, the following points are considered: conception, originality, analysis of problems, method of attack, experimental work, presentation of data, and results and conclusions drawn from same. No award is to be made in any year in which no thesis of sufficient merit, in the judgment of the Committee, is presented.

Davis B. Gray Memorial Award.—This award was established in 1940 by the Purchasing Agents' Association of Northern California, Inc., in memory of Mr. Davis B. Gray, who was an organizer and early president of the Association. It is presented each spring to the second-year student in the Graduate School of Business believed to be best qualified for a career in purchasing. In addition, the name of each recipient of the award is engraved on a permanent plaque presented by the Association to the Graduate School of Business.

Irene Hardy Poetry Prize.—In 1925 the friends of Irene Hardy, formerly an instructor in the English Department at the University, established in her memory a biennial poetry prize of approximately $20 to be awarded, through the agency of the English Department, for the best poem written by an undergraduate student registered at the University.

Irving H. Hellman, Jr., Prize.—This prize was established in 1949 by the family and friends of Irving H. Hellman, Jr., to perpetuate his memory and to

promote the high ideals for which he stood. Second- and third-year law students may submit papers in competition for the prize, the proposed field to be announced each year by the Law Faculty. The amount and number of awards are determined each year by the Law Faculty.

Mary A. Earl McKinney Prize.—This prize was established in 1947 by Samuel P. McKinney, M.D., of Los Angeles, a graduate in Civil Engineering of Rensselaer Polytechnic Institute, class of 1884, and consists of the annual income from $3,500. It is awarded at Commencement in the form of a first and second prize, each consisting of a trophy and a sum of money, to the two undergraduate students in School of Engineering who show the greatest proficiency and improvement in English, as demonstrated by an essay and oral discussion based upon the reading of a group of books prescribed for the purpose by the English Department.

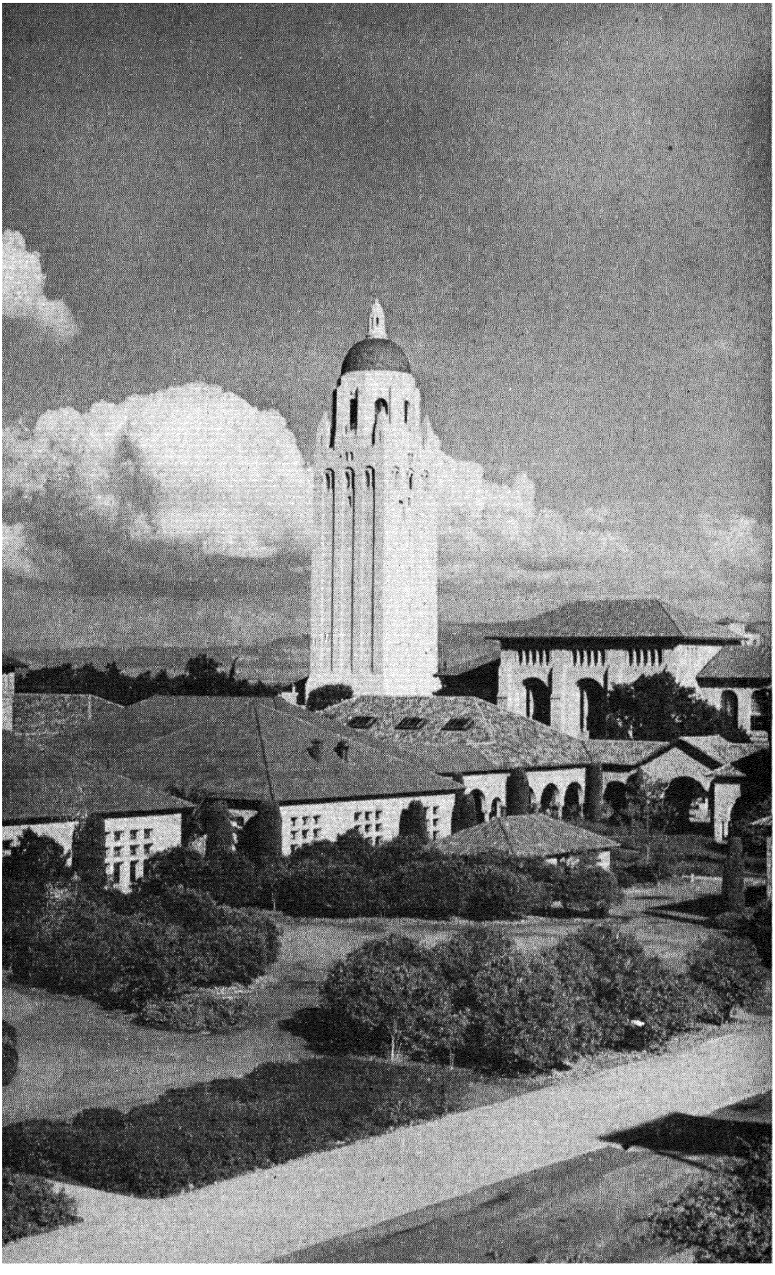
Hilmer Oehlmann, Jr., Memorial Fund.—In 1951 several friends of Hilmer Oehlmann, Jr., established an endowment fund. The income of this fund is to be used for awards in the first year Moot Court competition in the School of Law, which competition will be designated the Hilmer Oehlmann, Jr., Competition.

Lindsay Peters, Jr., Memorial Fund.—This fund was established in 1946 by Miss Agnes D. Peters in memory of her brother, Lindsay Peters, Jr., who died while serving his country. It provides an annual award of $50 for the most outstanding student in an elementary course in government or history of government.

Clarence Urmy Award.—In 1930 the University received from relatives and friends of Clarence Urmy the sum of $1,000 for the establishment of an award, its purpose being to perpetuate the spirit of this poet, teacher, and critic. The award consists of a cash prize of approximately $40 each year, to be awarded to the student submitting the best original poem to the English Department of the University.

Nancy Catherine and Edgar Vertrees Spanish Prize.—In 1946 this prize of $100 was established, in memory of Nancy C. and Edgar Vertrees, by Miss May Vertrees, for the purpose of stimulating the interest of Stanford students in the study of Spanish language and literature.

Julian Wolfsohn Prize.—This prize was established in 1945 from the income of the Julian Wolfsohn Memorial Fund and is to be awarded annually to the intern at Stanford University Hospitals, or in the Stanford service of the San Francisco Hospital, who, during the year, has done the best work in internal medicine and neurology. The prize consists of a certificate of award and a stipend of $100.



Student Services and Student Affairs

Most services for students, outside of the academic program, are organized within the Office of the Dean of Students. These services are described in this chapter, along with certain others which are not a part of the functions of the Dean of Students.

The Office of the Registrar and the Office of the Director of Admissions are divisions of the Office of the Dean of Students. Academic regulations administered by the Registrar are described elsewhere in this *Bulletin.* When students wish to petition for individual relief from any of these regulations, this should be done through the Registrar's Office. An Information Service for all students is provided by the Registrar in Room 111A.

Similarly, admissions requirements are described in a separate section in this book. Students desiring additional information concerning admissions on behalf of friends may obtain this at the Admissions Office, Room 112A.

The Chief Counselor for Men and Chief Counselor for Women are also members of the staff of the Dean of Students. They have charge of the residence program, and they are ready to help students with any special problems which may arise. Their offices are in Rooms 101F and 101G.

Described in this section are the services offered by the Counseling and Testing Center, Room 102A; Veterans Records Office, Room 102H; Foreign Student Adviser, Room 102G; Housing Office, Room 101A; Placement Service, Room 2H; Stanford Health Service, Women's Gymnasium; and affairs of the Associated Students, Stanford Union.

THE RESIDENCE PROGRAM

Since its beginning in 1891 Stanford has been a residential University. The Founders, Leland and Jane Stanford, felt that group living was a significant part of training for good citizenship.

Within the living groups, which range from large halls to small, home-like units, students elect their own officers and formulate their rules of conduct to a large degree. They are aided in solving day-to-day problems by members of the staff of the Dean of Students, the hall directors and resident advisers who live with them. These directors and resident advisers are supervised by the Chief Counselor for Men and the Chief Counselor for Women.

As a result of the rapid increase in enrollment after World War II, the University has found it impossible to house all undergraduate men students on the campus. All undergraduate, single women students except those living with their families in near-by communities are housed on the campus. It is the aim of the University, as circumstances permit, to construct sufficient residence halls on campus to enable every undergraduate student to live within the University community.

LIVING ACCOMMODATIONS FOR MEN

Encina Hall, Toyon Hall, Crothers Hall, and Stern Hall are University residences for men situated on the campus. At Stanford Village near the campus there are 16 houses which can accommodate 800 single men students. Freshmen are required to room and board in one of these residences, unless exempted by the Dean of Students. In addition to freshmen, students who room in Stern Hall and undergraduates who live in the Village are required to take their board at a University dining hall.

Room assignments for students are made by the Office of the Dean of Students. New Lower Division students are assigned to Encina Hall and Stanford Village. In general, Upper Division transfer students, returning students, and graduate students are assigned to Stanford Village. Assignment to the Village is made to houses according to the student's major department. Law students are assigned to Crothers Hall up to the capacity of the hall. All Crothers assignments are made to men chosen by the Law School.

Rooms in Encina Hall are predominantly triples, and in Toyon Hall, quadruples. In Crothers Hall and Stern Hall there are doubles and a limited number of singles. In the Village, rooms for undergraduates may be triples or doubles. Singles, when available, are usually assigned to graduate students. For each student in a University residence the following articles are furnished: single or double-deck bed, mattress, chest of drawers, wardrobe or clothes closet or locker, study table and chair, bed linen, and towels.* The student should bring couch covers, blankets, small rugs, reading lamps, and other furnishings with which he may desire to make his quarters comfortable and pleasant.

Prospective freshmen will be sent specific instructions for making application for room assignment. In other cases, a room application card will be sent to each admitted student. The card must be returned with a $25 deposit to the Cashier, Stanford University, for application for room assignment. This card is to be signed by the student and, in case he is under 21, also by his parent or guardian. Checks should be made payable to Stanford University.

The application does not guarantee that space will be provided in University housing, although, in accordance with a policy established by the Board of Trustees in 1923, all freshmen are assured University housing. All other applicants for University housing will be accommodated up to the capacity of men's housing facilities. Those who finally cannot be accommodated are invited to make use of the list of private residences available to them through the housing information office maintained by the Office of the Dean of Students. To engage a room through this means requires an application in person at the householder's residence, preferably some weeks before the new quarter opens.

The $25 deposit is refundable only under the following circumstances: Newly admitted freshmen students who do not plan to attend the University must notify the University Housing Office (Room 101A) before August 1 for the Autumn Quarter; December 15 for the Winter Quarter; March 15 for the Spring Quarter; and June 1 for the Summer Quarter. Transfer students and students in attendance who do not intend to return must notify the University Housing Office before September 1 for the Autumn Quarter, and before the above dates for the remaining quarters. Thereafter, refund will be made only in the event of unavoidable circumstances over which the student and his parents have no control. In such cases application for refund should be made at the earliest possible date to the Dean of Students and must be accompanied by the original receipt and a satisfactory explanation of the circumstances. If a student fails to occupy space for which a deposit was made, the amount deposited will be forfeited unless he is eligible for a refund under the conditions set forth above. If a student withdraws from residence at the end of a quarter, the deposit will be refunded provided all obligations to the University have been met.

Board and room charges are payable during the first ten days following registration, or on a deferred plan after consultation with the Office of the Dean of Students.

The University Housing Office keeps on file a list of rooms in private homes on the campus and in Palo Alto which are available to men students. The

* Towels are not provided at Stanford Village.

University reserves the right to approve the living quarters of men not rooming in the University residences.

LIVING ACCOMMODATIONS FOR WOMEN

Housing Policy for Undergraduate Women.—Stanford University is a residence campus for all undergraduate single women under twenty-three years of age, and as such its residence policy stipulates that students not living with their parents must live in a University residence located on the campus and operated by the University. The only exception to this policy is that entering undergraduates living between San Jose and Burlingame are required to live with their parents until residence space is available in University residences.

Residences for undergraduate women: Branner Hall, Roble Hall, Lagunita Court, Ventura Hall, Union Unit (including Elm Cottage, Hawthorne Cottage, Madroño Hall, Manzanita Lodge, Mariposa House, The Oaks [Maison Française], and Union Residence), and nine houses each accommodating approximately 35 students. These houses are Durand House, Guthrie House, Hurlburt House, Jordan House, Lathrop House, Roth House, Russell House, Stillman House, and Storey House.

Application for room reservations will not be honored until the student has received formal notification of her admission to the University. Enclosed with the admission notice will be the room application card and complete instructions for its use. To be assured of a room it is important that the student carefully follow the procedures outlined on the card and return it with a $25 deposit. The number of candidates admitted to the University is limited by the capacities of the residences. If a student fails to make a room deposit by the deadline date stated in the Housing Office correspondence, her admission to the University cannot be assured. All questions regarding housing should be directed to the Housing Supervisor. If a student has made a deposit and fails to occupy space, the $25 deposit will be forfeited unless she is eligible for a refund under the following conditions:

1. Newly admitted freshmen students who do not plan to attend the University must notify the University Housing Office (Room 101A) before August 1 for the Autumn Quarter; December 15 for the Winter Quarter; March 15 for the Spring Quarter; and June 1 for the Summer Quarter. Transfer students and students in attendance who do not intend to return must notify the University Housing Office before September 1 for the Autumn Quarter and before the above dates for the remaining quarters.

2. Students who wish to apply for a refund after the above mentioned dates must do so through the Office of the Counselor for Women. Only requests based on circumstances beyond the control of the student or her parents will receive consideration.

3. Students withdrawing from the University at any time during their residence quarter will receive a refund of the deposit, providing all residence obligations have been met. Upon return to the University another $25 deposit will be required for a room reservation.

The cost of room and board in all of the University women's residences is uniform. Detailed information is given on page 23.

Rooms are equipped with cot bed, mattress, chest of drawers, desk, chair, bookcase, and curtains. Students furnish their own couch covers, bed linen, blankets, towels, bureau scarfs, rugs, and draperies if desired. For Summer Quarter students only, a limited supply of rugs, blankets, and linen service (sheets, towels, etc.) is available. By request these will be supplied for a minimum fee.

Graduate Housing.—Graduate women and undergraduate women who have been married or are twenty-three years of age or older may contact the Uni-

versity Housing Office for information regarding rooms in a University residence at Stanford Village, or for housing arrangements in the community.

LIVING ACCOMMODATIONS FOR MARRIED STUDENTS

At present rental property available in the Stanford area is expensive but can be obtained. Married students should not bring their wives and families with them until they have secured accommodations. There are some apartments for veterans and their families at Stanford Village, priority being given to veterans with children.

For further information concerning family housing and for registering on the waiting list for Village apartments, inquiry should be made of the Secretary of the Housing Information Bureau in the Office of the Dean of Students.

STUDENT HEALTH SERVICE

The Student Health Service provides complete medical, surgical, and hospital care, with only minor restrictions, to all students regularly enrolled in the University. The cost of the service is borne by the University.

A health examination, which is part of the regular routine of the Health Service and includes X-ray examination of the chest, is required of all new students during the first two weeks of their first quarter as part of the regular matriculation procedure. The student's registration in the University may be denied if this examination reveals health conditions which would menace the student's progress in the University or be a danger to fellow students. Health examinations are also required of all candidates for credentials in the School of Education and all new students enrolled in the first four quarters of the School of Medicine curriculum. A physical examination is required of all students planning to participate in athletics. This physical inspection takes place at the beginning of each training season before equipment is issued. Students may be required to report to the Health Service at the discretion of the Director of the Student Health Service.

In addition to the physical examination for all entering students, the following benefits are included in the Health Service's program:

a) All medical and surgical care and treatment, including all accepted immunization procedures.
b) Hospitalization or Rest Home care up to 100 days for any one injury or illness. Hospitalization for acute anterior poliomyelitis limited to 21 days. Ambulance service and special or private nursing care are not provided.
c) Laboratory tests, X-ray examinations, dressings, splints, and professional consultation.
d) Necessary house calls within ten miles of the Administration Building.

Medical and surgical treatment does *not* include medicines, dental care, dental X-ray examinations, eye glasses or eye refractions. The treatment of, or conditions that are the result of, pulmonary tuberculosis, insanity, drug addiction, including chronic alcoholism, or attempted suicide is restricted to the time needed for diagnosis. Treatment and hospitalization of patients with acute anterior poliomyelitis is limited to 21 days.

The offices of the Health Service are conveniently located on the campus. The Medical Director of this service and his immediate staff of physicians and nurses are available through the normal working hours at these offices. By special arrangement the physicians and surgeons of the Palo Alto Clinic, including certified specialists in the major fields, are also available to the students. The Health Service gives medical care at any hour, and, when necessary, house calls by physicians are made within a ten-mile radius of the Administration Building of the University.

Except as otherwise provided, the medical and surgical care and treatment, hospitalization, and other benefits described above will be provided only if authorized by the Medical Director of the Health Service, a member of his staff, or by a physician or surgeon of the Palo Alto Clinic.

A student is entitled to these services from the date of his registration to and including the date of his last final examination in the then current quarter. However, if the student is hospitalized prior to the last examination in any quarter, he is entitled to medical care and hospitalization for a period of not over 100 days of continuous hospitalization. Withdrawal from the University during a quarter terminates a student's benefits, except if the student be hospitalized when he withdraws. In this case the student is entitled to medical care and hospitalization for a period not exceeding 100 days of continuous hospitalization.

If a student who is registered for the current quarter remains in the vicinity of the University between quarters with the intention of registering for the next succeeding quarter, he is entitled to medical care and hospitalization until the next quarterly registration date.

Should a student wish to decline the benefits provided by the University's medical services, he may select his own physician from among other local doctors. In such cases the student must, in person, at the time of registration notify the Dean of Students' Office of his wish to select another physician. He will then nominate to the Dean a Doctor of Medicine who practices within ten miles of the Administration Building and who is acceptable to the University. In the event of illness or injury, the student may be treated by the physician he has nominated, and the physician's fee will be paid by the University on a fee schedule which has the approval of the California Medical Association. If the physician's charges exceed this fee schedule, the difference is charged to the student. The student will be entitled to hospitalization on the same basis as other students, if this hospitalization is at the direction of the doctor the student has selected. If the selected doctor should call for the services of another doctor for consultation, diagnosis, care, or treatment, these services and hospitalization, laboratory tests, and other resulting benefits will be allowed only with the prior approval of the Medical Director of the Health Service. Action to decline the Health Service Program or to change physicians must be taken while the student is in good health and within the first ten days of each quarter, preferably at the time of registration. The Director of the Health Service is responsible for the general health of the entire student body and must, therefore, be informed of each case of illness regardless of whether the attending physician is one employed through the University or otherwise.

Athletic Injuries.—Injuries incurred in intramural athletics or in regular physical education classes receive the full benefits of the Health Service Program. Injuries suffered while training for or participating in intercollegiate athletics are not covered by the Health Service Program. While the University is not responsible for accidents or injuries incurred in athletic sports and contests, it is the policy of the University to pay, within reasonable limitations determined by it, the expense of the treatment of injuries received by athletes who are members of freshman or varsity teams while training for or participating in intercollegiate sports.

Employment Injuries.—Injuries covered by the provisions of the State Labor Code relative to workmen's compensation are exempted.

Vaccination.—Not later than four weeks after the day of registration, every new student must file with the Registrar a certificate of vaccination, signed by the vaccinator, who must be a duly licensed physician, giving exact dates of vaccination and showing acceptable vaccination within the past two years.

Noncompliance with these requirements will result in a fine of two dollars after four weeks, and cancellation of registration after five weeks from the day

of registration. Certificates, which are to be filed at the Registrar's Office, will be returned upon request.

It is advisable that candidates comply with this requirement before coming to the University, and that vaccination certificates be sent in advance by mail. Blank certificates may be obtained att the Registrar's Office.

Rest Homes.—Rest Homes are available to students needing bed care but not requiring complete hospital care. Admission is on the order of Health Service or staff physician only.

Medical Students.—Provisions of the Student Health Service do not apply to students enrolled in the School of Medicine in San Francisco. A separate service is maintained for their benefit.

VETERANS' RECORDS OFFICE

The Veterans' Records Office (Room 102H) maintains a liaison between the University and the governmental agencies offering veterans' educational programs, and co-ordinates all veterans affairs on the campus. Veterans who propose to begin or continue their university education under the provisions of Public Law 346 (G.I. Bill), Public Law 16 (Rehabilitation Program), Public Law 550 (Korean G.I. Bill), and the California State Veterans' Program are offered every encouragement possible in their return to civilian life.

The Veterans' Records Office is located in Room 102 in the Inner Quadrangle.

Veterans' Tuition.—All students who plan to attend Stanford under the provisions of a veterans' educational program are urged to apply to the appropriate agency for necessary authorization well in advance of their registration date. The proper authorization should be presented at time of registration, or fees must be paid personally by the veteran student. Refunds may be made later and will be based upon the effective date of the authorization. Tuition will be automatically defrayed for P.L. 346 (G.I. Bill), P.L. 16 (Rehabilitation Program), and CVEI (California Veterans' Program). Veterans enrolling under P.L. 550 (Korean G.I. Bill) should be prepared to pay all expenses inasmuch as tuition payments are made directly to the veteran by the Veterans Administration. Veterans who are unable to pay tuition in full at time of registration may secure a partial deferment in the manner described elsewhere in this *Information Bulletin.* Veterans attending the University under P.L. 346 who do not wish the Veterans Administration to pay the entire tuition amount, and have not therefore signed authorization for excess charges, must pay the excess tuition charges personally on registration day. All veterans are advised to anticipate a delay of approximately two months before receiving the first payment from the sponsoring agency.

FOREIGN STUDENT ADVISER

The Foreign Student Adviser provides assistance to foreign students in problems arising from their foreign student status. He assists Stanford students from abroad in immigration matters such as renewing of their permission to stay in the United States and applying for work permits. Frequently he issues certificates needed by foreign students for their transactions with their own governments.

The Foreign Student Adviser also concerns himself with difficulties arising from the unfamiliarity of foreign students with the academic requirements of the American universities, and with social life on the campus and in the community. He assists student groups such as the International Club and the Host Committee of the Institute of International Relations, and he attempts to strengthen the ties between students and the community. Hospitality arrangements and trips are services provided to accomplish these ends. Much of the

work in these arrangements is carried out by the Host Committee of the Institute of International Relations and by the Community Committee for International Students.

COUNSELING AND TESTING CENTER

Specialized counseling services in the areas of vocational selection, reading and study skills, and personal adjustment are available to all students through the Counseling and Testing Center.

Professionally trained counselors are provided to assist students in selecting a major field of study and in formulating realistic vocational plans. The student is afforded information about himself through a wide selection of interest, aptitude, achievement, and personality tests. Information about job qualifications, preparatory training, and opportunities in thousands of different occupations is available in the vocational library maintained by the Center. The student is aided in combining these facts through a series of interviews, in the course of which he is often able to decide what his college major or his vocational future should be.

Efficient techniques of reading and studying are important aids to success in the University. The Counseling and Testing Center provides instruction and counseling in reading and study skills. Students wishing this service are organized into groups of ten to twelve students which meet three hours weekly throughout the quarter. In addition, each student has private conferences with the study skills specialist. Following diagnostic testing to discover individual difficulties, guidance is directed toward improvement of reading comprehension and speed, vocabulary building, techniques of note taking, outlining, preparing for examinations, and other study skills. Members of the groups come from all classes, freshman through graduate, though students who feel the training will help them are advised to enroll early in their college careers.

The Center staff also includes clinical psychologists to assist students whose social adjustment, personal worries, or emotional problems are interfering with their capacities to function with maximum effectiveness and satisfaction. Counseling is directed toward increasing the student's understanding of himself and improving his ability to assess and cope with his own problems. Premarital and marriage counseling is also available.

All national testing programs conducted at Stanford are administered by the Counseling and Testing Center. These include tests for selective service deferment, for employment in many large companies, and for admission to many colleges and graduate or professional schools.

There is no charge to registered Stanford students for the services available in the Counseling and Testing Center, and all tests and interviews are completely confidential. Students may make appointments in Room 102A.

PLACEMENT SERVICE

The facilities of the Placement Service are available to all students and former students of the University. Its purposes are:

1. To assist students and graduates of the University to obtain permanent employment or promotion in the kind of work for which they have prepared themselves.

2. To assist students in finding suitable part-time work while attending the University, full-time work during vacations, and full-time or part-time employment for their wives or other dependents.

3. To give inquiring students and graduates accurate information regarding the opportunities in different fields of employment.

Placement services are offered to any student from any school or department in the University. They include the placement of business and technically trained students as well as those from education and liberal arts. Special emphasis is given to assistance of graduates and alumni in search of new or better positions. The Student Employment Office, a division of the Placement Service, places students in several thousand part-time and temporary jobs each year.

Many employers visit the Placement Service each year for the purpose of interviewing candidates for positions. Many more notices of openings are received through the mail.

Undergraduate or graduate students who desire to make use of the Placement Service may secure registration forms upon request. When the forms are completed by the applicant, and recommending statements have been received, they are duplicated and presented to employers. Selection of candidates by the office is made according to the specifications stipulated by the employers.

Any person who is enrolled in or has completed at least twelve units of work at Stanford may register with the office. The fiscal year for the Placement Service begins September 1. A fee of one dollar a year is charged for registration or reactivation of papers.

STUDENT GOVERNMENT AND CONDUCT OF STUDENTS

In 1911–12 the President of the University and the faculty Committee on Student Affairs entered into an agreement with the student Men's and Women's Conferences by which responsibility for the government of the students and for maintaining University standards of conduct was assumed by the men and women students. Since then the women have continuously discharged their responsibility, and the making and enforcing of the social regulations which govern women students are in their own hands. The delegation of responsibility for men, temporarily recalled in 1918, was resumed in 1919–20 under an agreement between the President and the men students of the University. The student Men's and Women's Councils are responsible for the enforcement of University regulations regarding conduct as well as of regulations made by the Executive Committee of the Associated Students of Stanford University, the legislative body of the student government. Findings and decisions of these Councils are submitted for approval to the Dean of Students as the representative of the President of the University from whom the Councils ultimately derive their authority.

In 1922–23 responsibility for handling all problems of behavior of the Stanford chapters of the 24 social fraternities was delegated by the President of the University to the Interfraternity Board of Control whose authority is complete and unconditional, subject only to the approval of the President.

In the government of the University, the largest liberty consistent with good work and orderly conduct is allowed. Students are expected to show both on the campus and elsewhere such respect for order, morality, personal honor, and the rights of others as good citizenship demands. Failure to do so constitutes sufficient cause for dismissal from the University. Maintenance of respect for this Fundamental Standard of conduct is one of the primary concerns of the Men's and Women's Councils.

The use or possession by students of intoxicating liquors of any kind on the Stanford campus is prohibited by the University. The University assumes that the act of registering as a student implies full acceptance of this policy.

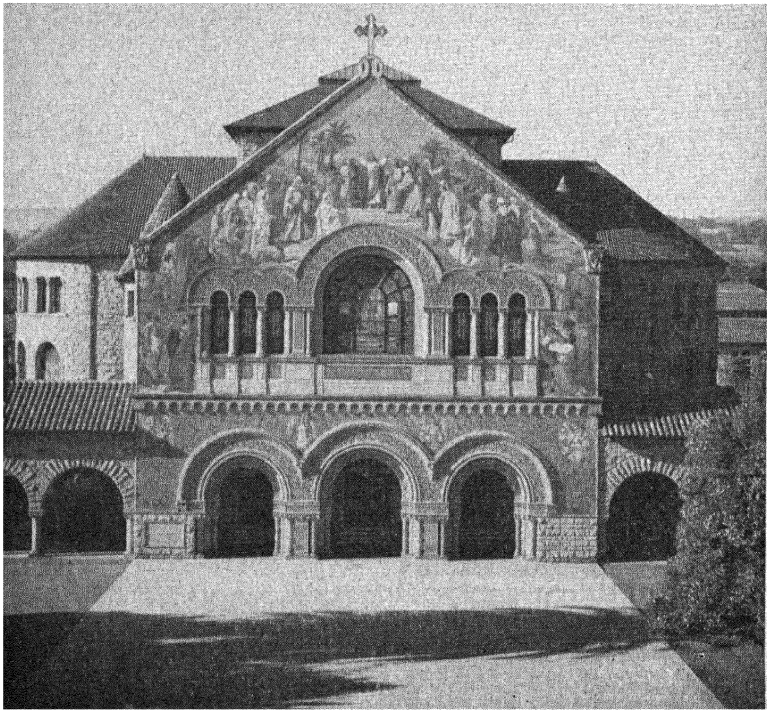
The Dean of Students is the official representative of the President in all matters relating to student activities and conduct, and it is his function to serve as counselor to any student organization or group.

The faculty Committee on Student Affairs is an administrative committee appointed by the President of the University. With the development of student self-government and the delegation of authority to the Associated Students of

Stanford University, to Men's and Women's Councils, and to the Interfraternity Board of Control, the duties of this committee have become primarily advisory in nature. The committee, however, is empowered, if necessary, to exercise the authority of the University over all students individually with respect to conduct, and, with the exception of athletic and debating teams, over student organizations which bear the name of the University, or which represent the University in non-academic activities, and, in general, to assume such measure of authority over nonacademic organizations of students as may be needed to safeguard the good name and well-being of the University community.

HONOR CODE

In 1921 the Honor System was established by the Academic Council of the University. Under this system, responsibility for honesty in the conduct of examinations rests (1) with each individual student, who is pledged not to receive or give aid in examinations, (2) with the major students of each school and department, whose duty it is to conserve and strengthen the system within the departments, and (3) with the student Men's and Women's Councils who have general supervisory control and the power to adopt regulations and deal with infractions of the system in the same manner as other cases of discipline. In 1929 the designation "Honor System" was changed to "Honor Code."



Academic Regulations

THE UNIVERSITY YEAR

The University year begins the last of September, on the Monday falling between September 23 and 29, inclusive, and is continuous throughout four quarters. Autumn, Winter, and Spring Quarters are of approximately eleven weeks duration. Except in certain professional schools, the summer term is eight weeks long. Any three quarters constitute an academic year.

REGISTRATION

On the appointed registration days in September, January, March, and June, each student must obtain a certificate of registration *in person* at the Registrar's office, or at another designated registration station.

Students may register after the appointed registration days, as specified below, upon payment of a special fee: two dollars on the first or second day, five dollars after the second day until the end of the first week, ten dollars thereafter. This fee will be waived only when the delay in registration was for the convenience of the University. Late registration is permitted only with the approval of the adviser and not later than three weeks after registration day each quarter.

STUDY-LIST CARD

At the Registrar's office, the student receives a registration book which includes a card for selection of studies for the quarter. The card properly filled out, and approved for Lower Division students by the Lower Division Adviser, for others by a representative of the school or department in charge of the chosen curriculum, must be filed with the Registrar at the time of registration; but late study cards, one week or less overdue, will be accepted upon payment of a special fee of two dollars. If the book is over a week late, this fee will be ten dollars. The late filing fee will be waived only when the delay is for the convenience of the University. Students registering late are admitted to particular classes only by permission of the instructor concerned. All work for which University credit is desired must be duly registered.

ENROLLMENT IN CLASSES

A student desiring to enroll in any class presents his certificate of registration to the instructor at the beginning of each quarter. (In classes which are limited in size there are special provisions for enrollment.) Whether the student is qualified for enrollment in a particular class is a question to be decided by the instructor in charge. In general the prerequisites for taking any given courses are noted in the *Announcement of Courses.*

CHANGE OF STUDIES

A student desiring to drop a subject once taken up, or to take up a new subject after the study card has been filed, must present to the appropriate committee a petition for such a change, approved by the school or Lower Division and by the instructors whose subjects are to be taken or dropped. In general, petitions so approved, and not involving courses required of Lower Division students, if they do not give the student too many unit-hours, or too few unit-hours, and if pre-

sented within two weeks after the beginning of the quarter, are granted without question. At the end of the first two weeks all study lists are to be considered as fixed. After this period petitions to drop or take up courses are granted only for extraordinary reasons; if otherwise acceptable but presented after the close of the quarter, they will be granted only on payment of a special fee of four dollars for each course. During the last four weeks of the quarter no courses may be officially removed from the student's study list for any reason whatever.

AMOUNT OF WORK

Graduate students are not held to any prescribed number of units, but ordinarily registration will not be permitted unless such students are prepared to devote at least half of their working time to University study.

The normal amount of work to be registered for each quarter by undergraduate students is fifteen units. Registration by undergraduate students for fewer than thirteen units of work is rarely permitted and only for reasons satisfactory to the Committee on Registration. All such programs of study must be approved by the school or department or Lower Division and by the Committee on Registration.

Maximum limits upon the number of registered units which may be counted toward the 180 units required for graduation apply to the following classes of students:

1. A student in his first quarter of residence.—Upper Division student limited to 18 units; Lower Division student, to 16 units.
2. A student whose Stanford record averages below B (grade-point rating of 3).—Limited to 18 units (except as noted below under 3).
3. A student who has completed at least 123 of the 180 units required for graduation, and whose Stanford record averages B—(minimum grade-point rating 2.5); or whose record in the three preceding quarters of residence averages B (grade-point rating of 3).—Upon application to the Committee on Registration may be granted permission to undertake completion of the work for the degree of Bachelor of Arts in three quarters; students who have completed 140 units, under the above conditions, may apply for completion of the work in two quarters; students with 159 units, in one quarter.
4. A student whose Stanford record averages B (grade-point rating of 3).—Not held to 18-unit limitation.

The grade-point rating is obtained by dividing the total number of grade points received by the number of registered units. The total number of registered units is the sum of all units registered for each quarter, less those which have been dropped by permission.

Petitions for irregular registrations are to be presented at the beginning of the quarter.

Every unit for which credit is given is understood to represent approximately, for the average student, three hours of actual work per week, through one quarter. Thus, in lecture or recitation work, for one unit of credit one hour per week may be allotted to the lecture or recitation and two hours for preparation or subsequent reading and study on the part of the student; but if a less amount of time is allotted for preparation or subsequent reading or study, there shall be a proportionate decrease in the amount of credit. Where the time is wholly occupied with drawing, field, or laboratory work, or in the classroom work of conversation classes, three full hours per week through one quarter are expected of the student for each unit of credit; but where such work is supplemented by systematic outside reading or experiment under the direction of the instructor, such a reduction may be made in the actual drawing, field, laboratory, or classroom time as seems just to the department concerned.

SCHOLARSHIP HONORS

High scholastic attainment is recognized by the University in the following ways:

Honors at Entrance.—Entering freshmen are admitted with honors if their high school records average 3.80 or higher, on the basis that 4.00 is equivalent to a grade of A.

Undergraduate Honors.—In September the Committee on Registration and Academic Standing reviews the records of all undergraduates enrolled for the Autumn, Winter, and Spring Quarters of the preceding academic year. Honors are conferred on those attaining a grade-point ratio of 3.50 or higher for the three quarters.

Graduation Honors.—In May the Committee on Registration and Academic Standing examines the records of students completing requirements for the Bachelor's degree during the four quarters ending in June. About five per cent of the graduates are awarded the degree "With Great Distinction" and about ten per cent "With Distinction." In order to be eligible for graduation honors a student's record must show the following qualifications:

1. Minimum grade-point ratio of 3.00 (B average) on entire Stanford record.
2. Minimum grade-point ratio of 3.00 on Upper Division record.
3. Minimum grade-point ratio of 3.00, in Stanford terms, averaging Stanford record with record of collegiate work earned elsewhere.
4. Minimum of 45 units of advanced work (courses numbered 100 or above) during the final six quarters. Only work taken at Stanford is considered in fulfillment of this requirement. Transfer students, therefore, must meet this requirement during their period of residence at Stanford, even though it may amount to only three quarters.

Not included in the calculations for graduation honors are courses graded +, i, or n; courses in shorthand, typing; and one-unit courses in music, physical education, and physical therapy. The recommendation of the candidate's major department adds .10 to the grade-point ratio, or .20 in case he is the department's first choice.

SCHOLARSHIP GRADES AND GRADE POINTS

In reporting the standing of students at the end of each quarter the following grades are used: A, B, C, D, passing grades, corresponding in a general way to the terms, "excellent," "good," "fair," "barely passed"; + passed (without defining grade); ± conditioned; (—) failed. An instructor may use the grade of "incomplete" when a student has completed a substantial part of a course with satisfactory grades, and when valid grounds exist for not completing all of the required work. In grading classes, A is considered as normally applicable to not more than 15 per cent, B and C to 35 per cent each, and D to 15 per cent of the students of passing grade. (This distribution of grades is advisory, and is understood to admit of a certain degree of flexibility in the handling of small or advanced classes.)

Grade points are assigned to units of credit according to the quality of the work done, as follows: Courses passed with a grade of A are given four grade points per unit; with a grade of B, three grade points per unit; with a grade of C, or +, two grade points per unit; with a grade of D, one grade point per unit. For work marked "incomplete," "conditioned," or "failed," no grade points are given. Only one grade point per unit is allowed for a "condition" removed, regardless of what the final passing grade may be. An "incomplete" when made up and a failed course repeated carry the grade points applicable to the final grade earned.

SCHOLASTIC DEFICIENCY

Scholarship requirements assume that standard work amounts to fifteen units per quarter, on which are earned twice as many grade points as registered units. This is the ratio of grade points to registered units required for graduation. Students who fail to meet this requirement may incur scholastic deficiency resulting in such action as probation, suspension, or disqualification. Notices are sent to such students at the end of any quarter during which the deficiency is incurred. Parents or guardians of undergraduate minor students are notified as soon as possible after the close of the quarter.

The effects of scholastic deficiency on a student's record and consequent action by the University are outlined in the pamphlet entitled "Scholarship Regulations."

CONDITIONS AND INCOMPLETES

Subject to the provisions described below, work reported incomplete or conditioned may be made up within one calendar year after the grade is incurred. After one year the making up of an incomplete or condition is "outlawed" and the grade stands permanently on the record.

A condition or incomplete due to failure to take or pass a written final examination is removed by passing a similar test on the same work. This test may be either a regular class examination in the course if repeated in time, or a special written examination to be held at any time after the third week of any quarter. A student is entitled to one examination within the year, either regular or special.

Where conditions or incompletes are due to failure to take or pass an oral examination, the time for holding a new oral examination to remove the condition or incomplete is determined by the instructor concerned. Compliance with the regulations for written examinations, so far as practicable, is required.

Conditions or incompletes due to other causes may be removed by any work or test satisfactory to the department concerned.

Only one examination to remove a condition is permitted. If an examination to remove an incomplete results in a condition, only one examination is allowed to remove it. Instructors will report grades on all such examinations to the Registrar.

Any deviation from these regulations requires the approval of the Committee on Registration and Academic Standing.

ADVANCED CREDIT

Advanced standing is allowed for courses shown on official transcripts received by the Registrar from accredited colleges and universities. The work must be substantially parallel to Stanford courses, though a maximum of six elective quarter units may be allowed.

A maximum of 135 quarter units of transfer credit is allowed. A maximum of 90 quarter units is allowed for junior college work which is recommended by the junior college for credit toward a baccalaureate degree.

Courses with a D grade are credited only when supported by a C average.

LEAVE OF ABSENCE

A student desiring to leave the University while a quarter is in progress should apply to the Committee on Registration and Academic Standing. If leave of absence is desired on account of sickness, the petition must be indorsed by the Director of the University Health Service. A leave of absence is merely a justification of the absence and not a relief from the work that has been missed, and is usually necessary only in case of interrupted work; a student in good standing absent one or more quarters may re-enter at the beginning of any quarter without formal petition.

HONORABLE DISMISSAL

An honorable dismissal means that the student is permitted voluntarily to withdraw from the University and is commended to the favorable consideration of any institution he may wish to enter. An honorable dismissal does not carry any implications as to scholarship and may be granted upon written application to any student not under discipline for misconduct.



Degrees and Credentials

DEGREES

Candidates may be presented for graduation in January, April, June, and October.

No degree will be conferred upon any person who has not spent at least three quarters in resident study at the University. No honorary degrees are given.

LOWER DIVISION REQUIREMENTS

The Lower Division consists normally of the first and second years of the University curriculum. Its object is to introduce the student to fundamental fields of human interest, and to this end it requires the completion of certain studies. To the students enrolled in the Lower Division the Lower Division Advisers stand in the same relation as that occupied by departmental advisers toward their major students.

Under the supervision of the Committee on Lower Division Administration, the work is divided into three major groups; every student must complete a minimum of 15 units in each group.

The normal requirements are as follows:

Group I.—Humanities, including English, foreign languages, art, journalism, speech and drama, lecture courses in music, drawing courses in the engineering departments, and certain courses in geography, philosophy, and religion. This must include the following:

a) English—Requirement to be completed by end of fourth quarter except in case of definite schedule difficulty.
   1. English A during the first year, if the student fails to pass the Matriculation Test in English.
   2. English 2*a* and 2*b*.

b) Foreign Language—The completion *in college* of the third quarter of the second-year reading course or a more advanced course, or demonstration by examination of comparable achievement in French, German, Greek, Italian, Latin, or Spanish. The pattern varies in other languages, such as Chinese, Japanese, and Russian.

[Note.—Mathematics through calculus (Mathematics 23 or 43) may be substituted for this Lower Division requirement, but if this Mathematics option is chosen additional electives must be taken in Group I since Mathematics courses are in Group II.]

c) Electives to make up the required total of 15 units in this group, if the above requirements have not totaled that amount.

Group II.—Natural Sciences and Mathematics, including biology, chemistry, engineering, air, military and naval science, geology, health, mathematics, physics, statistics, certain courses in psychology, physical anthropology, logic, and certain courses in geography.

a) Laboratory Science—Courses determined as follows:
   1. For those who have credit in high school for a year in biological science *and* a year in chemistry *or* physics, any one of the following (A, B, C, D, or E):
      A. Biology 1, 2, 3 (General Biology). Students contemplating a major in biology or premedical science may substitute Biology 20 and 21 (Introduction to Botany and Invertebrate Zoology).

B. Chemistry 1, 2, 3 (General Chemistry).
C. Physics 21, 22, 23, 24, 28, 29 (Mechanics and Heat, Electricity, Elementary Optics, and Atomics).
D. Physical Sciences 1, 2, 3, survey course.
E. Mineral Sciences G1 and G2 (Physical and Historical Geology).

2. Those who have credit in high school for one year of chemistry *or* physics, but not one year of biological science, must take A under 1. Students who complete the Lower Division engineering program may substitute Education H50 or H51 (Constructive or Defensive Hygiene) and Mineral Sciences G1.
3. Those who have credit in high school for one year of biological science, with no chemistry *or* physics, must choose one of the following: B, C, D, or E under 1.
4. Those with none of these specified laboratory sciences in high school must complete *both* A *and* either B, C, D, or E under 1.

b) Electives to make up the required total of 15 units in this group, if the above requirements have not totaled that amount.

Group III.—Social Sciences, including history, political science, economics, sociology and anthropology, and certain courses in philosophy, education, psychology, and geography. Both (*a*) and (*b*), below, must be completed.

a) History 10, 11, 12 (History of Western Civilization), to be taken the first year.

b) Social Sciences, during the second year. This requirement may be fulfilled in one of the following ways:
1. Economics 1 and 2 (Elementary Economics).
2. Political Science 1 and 2 (American Government).
3. Philosophy 1 and 2 (Introduction to Logic and Introduction to Ethics).
4. Sociology 1 and 2 (Introduction to Sociology and Introduction to Social Psychology).
5. Two courses from those approved by the Lower Division Committee as social science options. Approved courses at present are Philosophy 5 (Introduction to Philosophy); Political Science 20 (Contemporary Governments Abroad); Psychology 51 (General Psychology); Sociology 1 (Introduction to Sociology); Anthropology 2 (Cultural Anthropology); Geography 4 (Economic Geography).

Non-lecture courses in music, activity courses in physical education, typing, and shorthand are not counted in any of the three groups.

All Lower Division students are required to take physical education for six quarters. No credit toward graduation will be allowed for this work, even in the case of veterans who have been exempted from the required physical education, as long as the student is registered in the Lower Division or until he has completed six quarters of physical education.

Students transferring from other institutions with advanced standing will be relieved from such of the group requirements of the Lower Division as, in the opinion of the Committee on Lower Division Administration, they have substantially completed elsewhere. Such students should consult the Lower Division office.

In the case of students entering from high school, without advanced standing, the Lower Division requirements may be anticipated to some extent by the proper choice of subjects presented for entrance credit. These may well include credits in a foreign language (preferably German if the student wishes to major in chemistry or mineral sciences; preferably French or German if the student wishes to major in medicine), credit for a year of a biological science *and* a

physical science, and, in the case of those planning an engineering or physical science major, mathematics at least through trigonometry.

CURRICULUM REQUIREMENTS

The selection of a curriculum will be made ordinarily at the end of the second year, upon completion of the requirements of the Lower Division. The Lower Division student may, however, at the beginning of any quarter, designate the particular field in which he expects later to do his major work, and will then be directed to the proper school or department for consultation and advice regarding electives before making up his study list.

At the beginning of the junior year, and upon completion of the Lower Division requirements, the student selects a curriculum offered by some one school or department. This school or department has the authority to prescribe not more than 60 units in the major subject (exclusive of elementary courses which may have been offered for entrance). The school or department shall also recommend such other courses as may be considered desirable, and shall exercise an advisory supervision over the student's curriculum from quarter to quarter. It shall be considered a general principle of University policy, to be departed from only in exceptional cases, that at least 90 of the 180 units required for the degree be taken outside the major field of study.

In applied science the school may prescribe as much of the entire 180 units as it shall deem essential to the technical or professional requirements of the major subject.

Within these limitations the work is elective, and the student may freely choose any course which his previous studies have prepared him to undertake.

(A student in regular undergraduate standing who does not intend to become a candidate for the Bachelor's degree may choose, with the approval of his advisers, any course in the University which his previous training has prepared him to undertake.)

UNIVERSITY DIVISION REQUIREMENTS

The University Division has been organized to permit students to proceed directly toward the degree of Master of Arts, or other advanced degrees, without obtaining the Bachelor's degree, or having necessarily conformed to the requirements for this degree or for the Lower Division. An outline of the plan and its requirements, together with information relative to the transfer of Lower and Upper Division students to the University Division, will be found on pages 17–18.

BACHELOR OF ARTS OR BACHELOR OF SCIENCE

The degree of Bachelor of Arts (A.B.) or the degree of Bachelor of Science (B.S.) is conferred upon candidates recommended by the Committee on Graduation who, in addition to fulfilling the following requirements, have applied in advance for graduation:

1. The completion of 180 (quarter) units of university work, including the required Lower Division courses together with the required physical training.
2. The acquirement of twice as many grade points as there are units registered on the candidate's record card.
3. The completion of the curriculum requirements as prescribed by a school. The recommendation of that school or department is necessary to graduation.

Candidates who fulfill these requirements in the School of Engineering, Nursing, or Mineral Sciences, or Departments of Chemistry, Mathematics, or Physics receive the degree of Bachelor of Science; candidates who fulfill these

requirements in other schools or departments receive the degree of Bachelor of Arts.

Forty-five units constitute a normal year's work; but the ordinary class divisions (freshman, sophomore, junior, senior) are not recognized by the University. The degree is conferred whenever the requirements are met, provided the candidate has spent three quarters in resident study and completed at least 45 units (including the last 15) in this University. In special cases, students who have obtained at least 135 units in resident work, and who have completed all major requirements, may be exempted from completing the last quarter's work in this University and be permitted to complete the required number of units elsewhere. In these cases the approval of the Committee on Graduation is necessary.

If graduates of other universities desire to become candidates for the baccalaureate degree, the question of units required for graduation may be waived, upon approval of the Committee on Admissions, and the degree conferred on the satisfactory completion of not less than 45 units of university work and the fulfillment of all major and minor requirements.

As a recognition of high scholastic attainment the Bachelor's degree may be granted "With Distinction" or "With Great Distinction" (see page 81).

ADVANCED DEGREES

General University requirements for advanced degrees are stated in terms of time devoted to graduate study, or registration for graduate study, rather than in terms of units of credit. In case any of the work done at Stanford is on a part-time registration, its equivalence to full-time study is determined by tuition payments.

For any advanced degree there is a minimum requirement of one academic year (three quarters) of graduate study in residence at Stanford. For successive advanced degrees at Stanford a minimum of one academic year (three quarters) of graduate registration is required between the conferring of two degrees.

All applications or petitions to the University Committee on Graduate Study must be submitted to the school or department concerned for approval before being filed with the Graduate Study Secretary. Communications should be addressed to the Graduate Study Secretary, Registrar's Office, Stanford University, Stanford, California.

Candidacy for A.M., M.S., Engineer, and Ph.D. degrees must be approved by the University Committee on Graduate Study, and when approved is valid for five years from date of approval. Candidacy may be renewed only by submission and approval of a new application.

Master of Arts or Master of Science

The degree of Master of Arts (A.M.) or Master of Science (M.S.) is conferred, on recommendation to the Academic Council by the University Committee on Graduate Study, upon the satisfactory completion of at least one academic year (three quarters) of graduate work at this University, the presentation of an acceptable thesis (unless this requirement is waived), and the fulfillment of such other requirements as may be prescribed by the school or department concerned. In no case will the degree be granted unless the candidate has been registered at Stanford University for three full quarters, or the equivalent, as a graduate student. A longer period of residence will be necessary for students who are inadequately prepared or who devote less than the normal amount of time to their studies.

Admission to candidacy is granted by the University Committee on Graduate Study on the basis of an application, approved in writing by the school or department in which the candidate proposes to take the degree. This applica-

tion should be filed with the Graduate Study Secretary not later than the fourth week of the quarter preceding the final quarter of candidacy. When granted, candidacy is valid for five years, after which it may be renewed only by approval of a new application by the major department and the University Committee.

Three bound copies of the thesis, each bearing the approval of the instructor under whose supervision it was prepared, must be submitted to the Graduate Study Secretary on or before the last day of instruction in the final quarter of candidacy. If this date falls on Saturday, the deadline shall be the following Monday. These copies shall be the original and first two carbon copies, typed on paper of standard size and weight, with title and signature pages of the form prescribed by the University Committee on Graduate Study. Upon acceptance, two copies are placed in the University Library, and the third copy is sent to the major department. Directions for the preparation and submission of theses are available in the office of the Graduate Study Secretary, Registrar's Office.

Master of Business Administration

The degree of Master of Business Administration (M.B.A.) will be conferred, upon the recommendation of the University Committee on Graduate Study, when the student has satisfied the requirements laid down by the faculty of the Graduate School of Business and the University. (Full particulars concerning these requirements will be found in the *Bulletin of the Graduate School of Business.*)

Educational Specialist

The degree of Educational Specialist (Ed.S.) is conferred upon recommendation of the faculty of the School of Education and the University Committee on Graduate Study, on students who complete satisfactorily the program of advanced study in education as outlined by the faculty of the School of Education, and present a written report of some substantial educational project selected in conference with an adviser. This project will be based on some problem of importance in the candidate's area of specialization and it must be read and approved by the adviser of the candidate. This program involves a minimum of two years of graduate study, one of which must be done at Stanford.

This degree will provide an intermediate program of specialized training in education between the Master of Arts degree and the Doctor of Education and Doctor of Philosophy degrees. The degree program will provide school administrators, supervisors, curriculum directors, guidance workers, and others with the opportunity for intensive training within their fields of specialization. When the degree is granted, the diploma will indicate the area of specialization of the candidate. For example, the diploma of a candidate in the field of school administration will read, "Educational Specialist in School Administration."

Encouragement to study for the degree is based upon a preliminary conference with the Committee on Advanced Graduate Degrees of the School of Education. This committee will use all available evidence relative to the candidate's fitness to enter upon the program.

After preliminary admission to candidacy the work of the student progresses under the guidance of an adviser chosen by the student from the representatives of the faculty in the candidate's field of concentration.

(For complete information regarding requirements for the Ed.S. degree, consult the *School of Education Manual on Advanced Graduate Degrees.*)

Engineer

General Regulations.—The degree of Engineer is conferred on recommendation by the University Committee on Graduate Study, upon the satisfactory completion of six quarters of approved graduate work (of which a minimum of three

quarters must be in residence at Stanford), the presentation of an acceptable thesis, and the fulfillment of such other requirements as may be prescribed by the major school or department. A longer period of residence will be necessary for candidates who are inadequately prepared or who devote less than the normal proportion of time to their studies.

Admission to Candidacy.—Admission to candidacy for the degree of Engineer is granted by the University Committee on Graduate Study on the basis of an application formally approved by the student's major department and filed with the Graduate Study Secretary not later than the fourth week of the quarter preceding the final quarter of candidacy. Candidacy, when granted by the University Committee, is valid for five years and may be renewed only by submission and approval of a new application.

Thesis.—Three bound copies of the thesis, bearing the approval of the instructor under whose supervision it was prepared, must be submitted to the Graduate Study Secretary on or before the last day of instruction in the final quarter of candidacy. If this date falls on Saturday, the deadline shall be the following Monday. These copies shall be the original and first two carbon copies, typed on paper of standard size and weight, with a title page of the form prescribed by the University Committee on Graduate Study, and suitably bound. Upon acceptance, two copies are placed in the University Library, and the third copy is sent to the major department. Directions for the preparation and submission of theses are available in the office of the Graduate Study Secretary, Registrar's Office.

Recommendation.—Upon the satisfactory completion of the foregoing requirements and the receipt of the written recommendation of the school or department, the University Committee on Graduate Study will recommend that the University confer upon the candidate the degree of Engineer.

Doctor of Education

The degree of Doctor of Education (Ed.D.) is conferred, upon recommendation of the faculty of the School of Education and the University Committee on Graduate Study, on candidates who complete with high quality of work: (1) a program of advanced study in education approved by the faculty of the School of Education; and (2) a dissertation approved by members of the faculty.

This degree is of two types: (I) the Administrative type, and (II) the Master-Teacher type. A minimum of three years of graduate study is required to complete this program.

Encouragement to study for either type of the degree is based upon a preliminary conference with the Committee on Advanced Graduate Degrees of the School of Education. This committee will use all available evidence on the candidate's fitness to enter upon the program.

After preliminary encouragement for candidacy the work of the student is under the guidance of an adviser chosen by the student from the representatives of the faculty in the candidate's field of concentration. Applications for degree candidacy must be filed with the School of Education by the end of the first four weeks of the quarter preceding the final quarter of candidacy for the degree. In the quarter in which the degree is to be conferred, at the announced time the candidate must deposit with the School of Education three typewritten copies of the dissertation, an approved abstract of the dissertation (600 words or less in length), and a signed publication agreement. The candidate will be charged a $40 fee to cover cost of microfilming the dissertation, binding three copies of the dissertation (including one copy for the candidate), and publishing the abstract. This fee is payable at the Cashier's office on or before the last day of instruction in the last quarter of the candidacy.

(For complete information regarding requirements for the Ed.D. degree, consult the *School of Education Manual on Advanced Graduate Degrees.*)

Bachelor of Laws

The degree of Bachelor of Laws (LL.B.) is conferred upon recommendation of the faculty of the School of Law and the University Committee on Graduate Study on students who have received the degree of Bachelor of Arts, or its equivalent, from the University or from some other institution of recognized collegiate rank, and who have satisfactorily completed courses in law aggregating 124 units after devoting not less than nine full quarters thereto, and who otherwise have satisfied the requirements of the University and of the School of Law.

Master of Laws

The School of Law offers work leading to the degree of Master of Laws (LL.M.) to those wishing additional training. This work is designed to serve the needs of two groups of students: those desiring more complete training for the practice of law and those looking forward to law teaching or other forms of scientific legal research. The work offered is varied and can be adapted to the needs of each student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In addition he must enroll in the course in Directed Research, Law 285. Arrangements have also been made with the Graduate School of Business whereby fourth-year law students will be admitted to such courses in business as are most appropriate for the lawyer. The practice of law today is such that to be efficient the lawyer must be able to understand not only his business client's point of view but also his client's business problems. Such courses as Accounting, Business Finance, Statistics, and Industrial Relations are admirably adapted to this purpose and may be included as a part of the fourth-year program. (For an outline of courses in business see the *Bulletin of the Graduate School of Business.*)

Admission to candidacy for the degree of Master of Laws will be granted only to students who are eligible for admission to the School of Law in regular standing and who have completed, with grades acceptable to this faculty, the work for the first degree in law at this University, or at some other university law school of recognized standing in which the work for the first degree in law covers a period of not less than six years of combined academic and law study, and who otherwise satisfy the requirements of the University and of the School of Law.

The degree of Master of Laws will be conferred upon students so admitted to candidacy upon the successful completion of one year (39 units) of work in this school in accordance with the rules of the University and of the School of Law. Upon his admission to candidacy, each student must present for the approval of the faculty the program which he wishes to pursue for this degree. The major portion of such program shall be in law and shall include not less than six units of independent research devoted to the preparation of an acceptable thesis.

Doctor of the Science of Law

Admission to candidacy for the degree of Doctor of the Science of Law (J.S.D.) will be granted only to those who have received the degree of Master of Laws at this University, and who have completed the work required for such Master's degree with marked excellence and have given clear proof of their ability to do independent research in law of a high order.

The degree of Doctor of the Science of Law will be conferred upon applicants so admitted to candidacy who spend one full academic year in independent legal research and as a result thereof present a thesis which is, in the opinion of the faculty of the School of Law, a contribution to knowledge. Such work and thesis shall conform to the rules and regulations of the University and of the School of Law.

Doctor of Medicine

The degree of Doctor of Medicine (M.D.) is conferred upon recommendation of the University Committee on Graduate Study, on students who complete the required curriculum in medicine (which includes the intern year). (Full information concerning requirements for the M.D. degree will be found in the *Bulletin of the School of Medicine.*)

Doctor of Philosophy

General Regulations.—The degree of Doctor of Philosophy (Ph.D.) is conferred, on recommendation to the Academic Council by the University Committee on Graduate Study, upon evidence of substantial scholarship, high attainment in a particular field of knowledge, and ability to do independent investigation and present the results of such research. A minimum of three years (nine quarters) of graduate study satisfactorily completed is required of each candidate; he must complete at least one of these years (three quarters) and the final course work in fulfillment of degree requirements as a registered student at Stanford University. If the candidate has already been awarded an advanced degree by Stanford University, he must complete at least three more quarters at Stanford before the Ph.D. may be conferred.

Admission to Candidacy.—When a student has completed the major department's required preliminary procedures, and has fulfilled at least one of the two foreign language requirements, the major department certifies him to the University Committee on Graduate Study for admission to candidacy. If the student's program includes a minor, certification by the minor department is also required. If the student offers no minor, his application must show at least three units of graduate work under each of four or more Stanford faculty members. Application for admission to candidacy is made on Form G34, which must be filed with the Graduate Study Secretary not later than the fourth week of the last three quarters of candidacy. Candidacy, when approved by the University Committee, is valid for five years and may be renewed only by submission and approval of a new application.

Foreign Language Requirement. — Prior to application for admission to candidacy a certificate must be filed stating that the student possesses a reading knowledge of at least one of the two required languages in addition to English. (In special cases referred to in the next paragraph, a reading knowledge of only one foreign language will be required.) The two languages shall be selected in individual cases by the mutual assent of the student and the major school or department. The languages selected shall be those most likely to be useful in connection with the individual student's program of study for the degree and his pre-doctoral and postdoctoral research program. The certificates shall be issued by examiners designated by the University Committee on Graduate Study. (Information regarding arrangements for foreign language examinations is published each quarter in the *Time Schedule.*)

A candidate may submit to the University Committee a petition to be allowed to substitute for one of the required languages a program of at least 15 quarter units of courses taken as a graduate student, provided the major department has certified on Form G35 that this program is external to the major and minor departments and an addition to their requirements, that the courses form a coherent group, and that they will contribute more toward the candidate's proficiency in his major field than would a second language. No course completed more than five years before the submission of Form G35, or in which a grade lower than C– was earned, may be included in the substitute program.

University Oral Examination.—When a candidate has been admitted to candidacy, has completed the foreign language requirement, and has shown special ability in his field of study and proved his capacity for independent investigation

to the satisfaction of the schools or departments concerned, he may arrange through the Graduate Study Secretary for the University oral examination. This examination shall be approximately three hours in length and shall be held not later than the fourth week of the last quarter of candidacy. The request for an oral examination must be submitted to the Graduate Study Secretary on Form G21 at least three weeks prior to the date proposed for the examination. The purpose of the examination is to test the candidate's command of his fields of study and to confirm his fitness for scholarly pursuits. The examining committee shall be composed of (1) the Dean of the Graduate Division or his delegate, presiding, (2) four or more professors, appointed by the Dean of the Graduate Division from the major and minor departments, (3) any additional representatives selected by the major and minor departments and the Dean of the Graduate Division, and (4) any members of the Academic Council who may attend. The candidate may be recommended to the University Committee on Graduate Study on the favorable vote of three fourths of the examiners.

Five members present and voting, including representatives of both major and minor departments, shall constitute a quorum.

Dissertation.—Recommendation for the degree shall be made only after the acceptance of a dissertation, which must be a contribution to knowledge and the result of independent work, expressed in satisfactory form. By the close of the fifth week of the final quarter of candidacy, the candidate must submit to the Graduate Study Secretary (1) a minimum of four unbound typewritten copies of the dissertation, including one original copy, each copy bearing at least two department signatures, (2) two copies of an abstract of the dissertation, each copy bearing at least one department signature, and (3) two copies of a publication agreement signed by the candidate. Upon the receipt of the dissertation, the Dean of the Graduate Division shall appoint a special committee of three whose duty it shall be to read the dissertation, conferring with the candidate if it so desires, and to report to the Dean of the Graduate Division whether or not in its opinion the dissertation is of a scope and quality acceptable in fulfillment of this requirement for the degree. After its final acceptance, the dissertation shall be microfilmed and bound at the direction of the Graduate Study Secretary. A negative microfilm copy of the dissertation shall be kept on file by University Microfilms (in Ann Arbor, Michigan), from whom positive microfilm copies may be ordered. When bound, the original copy will be delivered to the author, the first two carbon copies to the Stanford University Library, and the third carbon copy to the major department.

Directions regarding the form of the dissertation, title and signature pages, and the abstract may be obtained from the Graduate Study Secretary. The abstract (600 words or less in length) shall be published in *Dissertation Abstracts* by University Microfilms. The candidate shall be charged a $40 fee to cover the cost of microfilming the dissertation, binding four copies of the dissertation, and publishing the abstract. This fee is payable at the Cashier's office on or before the last day of instruction in the last quarter of candidacy.

ADVANCED DEGREES IN THE SCHOOL OF MEDICINE

The departments of the School of Medicine are considered as equivalent to other departments of the University in respect to candidacy and requirements for the degrees of Master of Arts and Doctor of Philosophy, and all the foregoing regulations apply to these departments and department faculties as to departments and department faculties at the University, with the following modifications and limitations:

1. Candidates for these degrees must have received the degree of Bachelor of Arts at this University, or an equivalent training elsewhere, and must have the approval of the department faculty in which the degree is sought. The degree of

Doctor of Medicine will ordinarily be required as a prerequisite for those wishing to do clinical work.

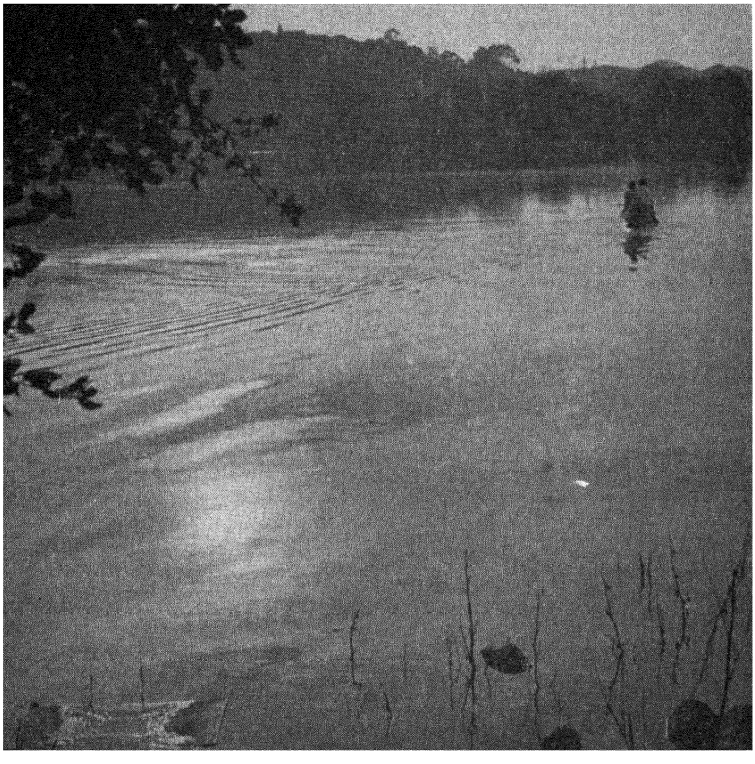
2. Time spent in candidacy for the degree of Master of Arts or Doctor of Philosophy will not be counted toward the degree of Doctor of Medicine.

CREDENTIALS FOR PUBLIC SCHOOL SERVICE

Stanford University acts as agent for the State Department of Education of California in recommending students for credentials for service in California public schools, and also recommends to the proper educational authorities in other states that such credentials be issued.

A complete training program is offered by Stanford University for the following credentials: General Elementary; General Secondary; Junior College; Special Credential in Speech Correction; Administration and Supervision; School Psychologist; and School Psychometrist.

The *Announcement of Courses*, issued annually, gives the requirements for the credentials for which Stanford University is accredited. This bulletin will be mailed upon request to the Registrar's Office. Additional information may be secured upon inquiry to the Office of the Credential Secretary, School of Education.



General Regulations

MANAGEMENT AND CONTROL OF THE UNIVERSITY

The general management and control of the institution is vested in a Board of Trustees, originally numbering twenty-four, and chosen for life. By the Amending Act of May 31, 1899, the number of trustees was reduced to fifteen, with future elections for a term of ten years. The Board of Trustees fills all vacancies.

POWERS AND DUTIES OF THE TRUSTEES

"The Trustees shall have power and it shall be their duty:

"To appoint a President of the University, who shall not be one of their number, and to remove him at will.

"To fix the salaries of the President, professors, and teachers, and to fix them at such rates as will secure to the University the services of men of the very highest attainments.

"To establish and maintain at such University an educational system which will, if followed, fit the graduate for some useful pursuit, and to this end to cause the pupils, as early as may be, to declare the particular calling which in life they may desire to pursue. . . .

"To prohibit sectarian instruction, but to have taught in the University the immortality of the soul, the existence of an all-wise and benevolent Creator, and that obedience to His law is the highest duty of man.

"To have taught in the University the right and advantage of association and co-operation.

"To afford equal facilities and give equal advantages in the University to both sexes.

"The Board of Trustees shall annually report all their proceedings to the person who for the time being shall fill the office of Governor of the State of California, and shall accompany such report with a full account of their financial operation for the preceding year, and with a statement of the financial affairs of the institution."

POWERS AND DUTIES OF THE PRESIDENT

"It shall be the duty of the Trustees to give to the President of the University the following powers:

"To prescribe the duties of the professors and teachers; to remove professors and teachers at will; to prescribe and enforce the course of study and the mode and manner of teaching; such other powers as will enable him to control the educational part of the University to such an extent that he may justly be held responsible for the course of study therein and for the good conduct and capacity of the professors and teachers."

THE UNIVERSITY FACULTY

"The Trustees shall constitute the President and professors the faculty of the University, and shall prescribe their powers and duties as such."

Under the Articles of Organization, the power and authority of the University Faculty is vested in the Academic Council which, in accordance with amendments adopted on June 3, 1948, consists of the President of the University, Professors,

Associate Professors, and Assistant Professors who serve the University on a full-time basis, except those on acting or other temporary appointments.

All general University regulations, statutes, and rules as to matters within the province of the faculty must be initiated in and passed by the Academic Council. The Academic Council has general power and responsibility for the internal administration of the University, subject to express provisions contained in the Articles of Organization respecting the methods of exercising such powers through the President of the University, the Advisory Board, the Standing Committees, and the Department Faculties.

The Advisory Board consists of seven members of the rank of professor, one from each of the seven department groups. All executive acts of general importance, such as recommendations for appointments, promotions, and dismissals, for the creation of new departments or chairs, etc., must be submitted by the President to the Advisory Board. The Advisory Board is also privileged to make such recommendations to the President, regarding policy, as it may decide by vote to be expedient, but no recommendations for appointments, promotions, or dismissals may originate with the Advisory Board.

The Department Faculties consist of the Professors, Associate Professors, Assistant Professors, and Instructors in the several departments, but only members of the Academic Council have the right to vote. A Department Faculty has direction of the work of instruction in the department and of the internal administration of the department, subject only to such control as is vested in the Board of Trustees, the President of the University, and the Academic Council. The Executive Head of the Department Faculty is designated annually by the President with the approval of the Advisory Board and of the Board of Trustees.

ACADEMIC COMMITTEES

As provided in the Articles of Organization, there are eight Standing Academic Committees of the Council.

The Executive Committee of the Council consists of the President, or acting President, Registrar, Academic Secretary, and one member from each department group elected by the Academic Council. It appoints all other academic committees of the Council with the exception of the Graduate Study Committee. The Academic Council may empower the Executive Committee to act in its place, either ad interim or in emergencies, and may authorize it to call for reports from all committees in order to prepare matter to lay before the Council. It is subject to instruction by the Council on matters concerning the general regulations, but its decisions, in special or individual cases, are not subject to revision by the Council. It has the power to recommend the creation of new academic committees but may not create them without the authority of the Council. It also has the power to call meetings of the Council at any time.

The Committee on Admissions consists of not more than twelve members of whom two may be nonmembers of the Academic Council. It administers the regulations of the University regarding admission of students, at all levels, and the allowance of advanced standing upon the basis of transfer work.

The Committee on Graduate Study consists of the Dean of the Graduate Division, the Dean of Students, the Registrar, and two members from each department group elected by the Academic Council. The Dean of the Graduate Division is ex officio chairman of the Committee. The Committee on Graduate Study passes upon the qualifications of applicants for admission to candidacy for advanced degrees and determines, in the case of candidates for all advanced degrees, whether the requirements laid down by the Academic Council have been met.

The Committee on Graduation consists of five members. This Committee determines whether candidates have completed requirements for the degree, Bach-

elor of Arts or Bachelor of Science, and recommends candidates to the Academic Council.

The Committee on the Library consists of nine members. This Committee represents the Council in relation to the administration of the Library.

The Committee on Registration and Academic Standing consists of eight members of whom two may be nonmembers of the Academic Council. The Committee administers the statutes of the University regarding registration, conditions and failures, irregular hours, changes in study lists, the granting of leaves of absence, letters of honorable dismissal, academic honors, and academic deficiencies.

The Committee on Schedule and Examinations consists of five members. It regulates the co-ordination of the schedule of lectures, recitations, and examinations.

The Committee on University Publications consists of five members. This Committee has to do with the publication of all literary or scientific works which may be published by the University.

ADMINISTRATIVE COMMITTEES

As provided in the Articles of Organization, there are eight Standing Administrative Committees of the Council. These Committees are appointed by the President of the University.

The Committee on Athletics consists of five members. This Committee has to do with the supervision of athletic sports within the University and in intercollegiate events.

The Committee on Counseling consists of not more than twelve members of whom three may be nonmembers of the Academic Council. The Committee on Counseling serves as an advisory board to the counseling services of the University and is concerned with the co-ordination of academic departments and personnel services.

The Committee on Financial Awards consists of twelve members of whom three may be nonmembers of the Academic Council. This Committee has to do with recommendations for fellowships, scholarships, grants-in-aid, loans, etc.

The Committee on Lower Division Administration consists of seventeen members. Vested in this Committee is the authority of the University in the administration of the lower division requirements as adopted by the Academic Council. The Committee is responsible for providing, in consultation with the President and the schools and departments concerned, such courses as may be necessary to permit students to fulfill the Lower Division requirements. It also has general supervision over the Lower Division advisory program.

The Committee on Public Exercises consists of eleven members. This Committee has to do with public University exercises, lectures, assemblies, and all other public entertainments given at the University.

The Committee on Public Health consists of eight members. It is responsible for matters pertaining to the health of the University community.

The Committee on Student Affairs consists of five members. This Committee has to do with the conduct of students as members of the University community.

The Committee on Supplementary Research Grants consists of five members. This Committee co-operates with the departments of the University for the general purpose of fostering research in the University and with the special object of giving aid to individual investigators whose needs may not have been provided for in annual departmental appropriations.

Unless otherwise provided by the Academic Council, each Standing Adminis-

trative Committee and each Standing Academic Committee may include one, and only one, nonmember of the Council.

Appeals from the action of Academic Committees, in special and individual cases, may be made to the Executive Committee and its decision is final. Appeals from the action of Administrative Committees, in special and individual cases, may be made to the President and his decision is final.

SPECIAL COMMITTEES

The Academic Council may, from time to time, elect or provide for the appointment of Special Committees and may assign the consideration of any matter, within its jurisdiction, to any such committee. In practice, Special Committees are usually appointed by the President of the University.

THE UNIVERSITY STAFF

In accordance with amendments adopted on June 3, 1948, the University Staff shall consist of the President of the University; the Vice-Presidents; the Dean of Students; the Chaplain; the Director of Health Service; the Registrar; the Director of Admissions; the Chief Counselor for Women; the Chief Counselor for Men; the Business Manager; the Controller; the General Secretary; the Academic Secretary; the Director of University Libraries; all Professors, Associate Professors, Assistant Professors, and Instructors; Lecturers; Research Associates; Directors, Associate Directors, and Assistant Directors in schools, institutes, or other educational divisions of the University; Curators; all holding "acting" appointments or appointments "by courtesy" to any of the foregoing ranks and positions other than that of acting instructor; professional members of the staff of the Library, institutes, or other educational divisions of the University: such members of the President's and Dean of Students' staff and such other University employees as shall be designated from time to time by the Executive Committee of the Academic Council.

SCHOOLS

Departments of instruction in the University are organized into Schools, as follows:

GRADUATE SCHOOL OF BUSINESS.

SCHOOL OF EDUCATION.

SCHOOL OF ENGINEERING (including Civil, Electrical, and Mechanical Engineering).

HUMANITIES AND SCIENCES (including Art and Architecture, Asiatic and Slavic Studies, Biological Sciences, Chemistry, Classics, Economics, English, Geography, Germanic and Romanic Languages, History, Humanities, Journalistic Studies, Mathematics, Music, Philosophy, Physical Sciences, Physics, Political Science, Psychology, Social Sciences, Sociology and Anthropology, Speech and Drama, and Statistics).

SCHOOL OF LAW.

SCHOOL OF MEDICINE (including Anatomy, Bacteriology and Experimental Pathology, Medicine, Obstetrics and Gynecology, Pathology, Pediatrics, Pharmacology and Therapeutics, Physiology, Public Health and Preventive Medicine, Radiology, Surgery, and SCHOOL OF NURSING).

SCHOOL OF MINERAL SCIENCES.

UNAFFILIATED DEPARTMENTS: Air Science and Tactics, Food Research, Hoover Research, Military Science and Tactics, Naval Science, and Physical Education and Athletics.

ELECTIONS

For the purpose of elections to the Advisory Board, the Executive Committee, and the Graduate Study Committee, the members of the University Faculty are divided into groups, as follows:

Group I. Asiatic and Slavic, Classics, English, Germanic and Romanic Languages, Speech and Drama.

Group II. Art and Architecture, Education, Geography, History, Music, Philosophy.

Group III. The President, Graduate School of Business, Economics, Journalistic Studies, School of Law, Librarians, Political Science, Sociology and Anthropology.

Group IV. Chemistry, Mathematics, School of Mineral Sciences, Physical Sciences, Physics, Statistics.

Group V. Air Science and Tactics, School of Engineering, Military Science and Tactics, Naval Science.

Group VI. School of Medicine, including Nursing.

Group VII. Biological Sciences, Food Research, Hygiene, Physical Education, Physical Therapy, Psychology.

UNIVERSITY HEALTH CONTROL

Public Health Service is the public health agency of the University. It acts under the guidance of the Committee on Public Health. All residents of the campus and employees come within its jurisdiction. Its duties are those of any local health department, such as control of communicable diseases, safety of water supplies and sewage disposal, food and milk sanitation, and general sanitation. An additional duty is the inspection of rooming houses on the campus which are recommended by the Office of the Dean of Students to students and faculty. Public Health Service is an official part of the county and state health departments, and is under direction of a physician trained in Public Health and assisted by a qualified public health nurse.

ATHLETICS

Stanford University is a member of the Pacific Coast Intercollegiate Athletic Conference and the National Collegiate Athletic Association, and as such competes with other major universities and colleges in most generally recognized collegiate sports.

It is also a member of the United States Golf Association, the Pacific Association of the Amateur Athletic Union, the Northern California Rugby Union, the Northern California Intercollegiate Soccer Association, the Western Intercollegiate Fencing Conference, the Northern California Tennis Association, the Northern California Golf Association, the California Intercollegiate Baseball Association, the Pacific Coast Intercollegiate Wrestling Association, and the Pacific Coast Intercollegiate Boxing Association.

Major sports, for which the University awards the Block Letter "S," are football, basketball, track and field, baseball, swimming, golf, and tennis.

Minor sports, for which the University awards the Circle "S," are water polo, boxing, fencing, wrestling, gymnastics, rugby, soccer, and cross-country running.

On an informal basis University teams compete with other institutions in skiing, crew, polo, and rifle shooting. By action of the student governing body the competitors in these sports may also be awarded the Circle "S."

In addition to the intercollegiate program, men students participate extensively in an intramural sports program. This program includes six-man touch

football, two-man volleyball, six-man volleyball, bowling, table tennis, horseshoes, handball, boxing, wrestling, basketball, softball, golf, tennis, swimming, and track and field. The University also offers classes in equitation and weight lifting.

There is no organized outside competition in women's athletics, other than joint field days with neighboring institutions. There is a full program for women in physical education, including such activities as swimming, golf, tennis, various types of dancing, archery, equitation, badminton, fencing, basketball, field hockey, volleyball, softball, and gymnastics.

Men's and women's physical education and athletics are administered separately. Both men and women preparing for professional careers in physical education are under the jurisdiction of the School of Education. Activities courses and intercollegiate competition for men are under the jurisdiction of the Department of Physical Education and Athletics, and women's activities are conducted by the Department of Physical Education for Women. Policy governing the University's participation in intercollegiate athletics is determined by the Stanford Athletic Board, composed of student, administration, and alumni members, and by the faculty Committee on Athletics.

Abundant space has been a factor in the development of an extensive athletic plant. Included in the facilities for men are:

The Stadium, seating 90,000 and enclosing a standard American football field encircled by a quarter-mile track with a 220-yard straightaway. It was opened in 1921.

Angell Field, named for Dr. Frank Angell, pioneer member of the University faculty who devoted much time and interest to the development of athletics. It is a specialized facility for track and field, and its quarter-mile track also has a 220-yard straightaway.

Sunken Diamond, a turfed baseball field laid out in the large area from which was taken the fill for the Stadium embankments. Its bleachers seat 3,200.

Harry Maloney Field, a turfed field for soccer, rugby, football practice, and other field sports. It is named for the former director of minor sports at Stanford, an active member of the faculty for 36 years.

Two other turfed fields for football and rugby, an enclosed football practice turf, a polo field, an intramural sports field, and the freshman baseball diamond.

Three varsity tennis courts, hard-surfaced, with stands for spectators, and nine practice tennis courts.

Encina Gymnasium, including a basketball floor, three bleacher-flanked swimming pools, offices, rooms for gymnastics, fencing, and other indoor sports, and an athletics goods store.

The Pavilion, 2,700-seat structure housing the basketball floor used for varsity and freshman intercollegiate competition.

The Department of Athletics, adjoining the Gymnasium and the Pavilion, which contains offices of the Director, his staff, and all coaches, and is also headquarters for the Military, Air, and Naval Science programs.

Facilities for women include:

The Women's Gymnasium, consisting of four main units grouped around a central court.

The Women's Swimming Pool, an outdoor pool west of the gymnasium.

Eight tennis courts, and a large turfed field for hockey, archery, golf practice, and other activities.

Joint facilities include the riding stables and an 18-hole championship golf course on the campus available to students, faculty, and university staff. A limited number of golf-playing privileges are available, with preference to alumni.

Campus and Buildings

The University's architecture is an adaptation of the Romanesque style which originated in the Mediterranean and was first brought to America by the Spaniards. Their Catholic missionaries, notably Father Junipero Serra, used it extensively in constructing the chain of California missions. It features tile-roofed structures of low, long design, flanked by protective arcades, and built on an imposing scale. Basic material for the original buildings is native sandstone, buff in color and rough-hewn in texture. More recent additions have been constructed of steel-reinforced concrete.

Center of the University is the Quadrangle, inner and outer rectangles of buildings separated by courtyards and covering seventeen acres. There are fourteen buildings in the outer rectangle and thirteen, including Memorial Church, in the inner rectangle which rings a court of approximately three acres.

The basic landscape plan was drawn by Frederick Law Olmsted and the architecture was created by the Boston firm of Shepley, Rutan, & Coolidge, with Charles Coolidge as supervising architect.

The approach to the University is from the north, and that view of the Quadrangle is unobstructed from the campus gates a mile distant at Palo Alto. Other academic buildings have been constructed next to the other three sides of the Quadrangle, and outside them are men's residence halls to the east, faculty and fraternity residences to the southeast, and women's residences to the southwest.

INDIVIDUAL BUILDINGS

Memorial Church is at the south center of the Inner Quadrangle, facing the main entrance to the University. It was constructed after Senator Stanford's death and is a memorial to him. The façade and much of the interior bear mosaic murals of Italian design and craftsmanship. The mosaics, the stained glass windows, and the massive organ are notable features. Normal seating capacity of the Church, including galleries, is 1,800. It is open daily.

Hoover Tower, east of the Quadrangle, houses the Hoover Institute and Library on War, Revolution, and Peace. The collections, devoted primarily to international relations bearing upon peace, are the largest in the world on the Communist, Fascist, Nazi, and Socialist Revolutions and their underground oppositions. They are expanding rapidly from the beginnings made by former President Herbert Hoover when he was chairman of the War Relief Administration during and after World War I. On the fourteenth floor of the 235-foot tower is an observation platform for visitors, and also a 35-bell carillon given by the Belgian-American Educational Foundation in appreciation of Mr. Hoover's efforts in behalf of Belgian relief. The Tower is open to visitors daily except Sunday.

The Leland Stanford Junior Museum houses a number of valuable anthropological and archaeological collections, as well as numerous mementos of the Stanford family. One of these is the *Governor Stanford*, first locomotive on the Central Pacific railroad. It is to be re-opened to the public beginning in the spring of 1954 after several years of inactivity. The Museum is a quarter mile north of the Quadrangle, west of the main drive, called Palm Drive.

Memorial Hall is the University theater, erected primarily through student contributions and dedicated to the Stanford men and women who gave their lives in the two wars. It includes an auditorium seating some 1,700 persons, and a little theater, and is the home of the Speech and Drama Department. Full-scale dra-

matic productions, including operas, are regularly scheduled. The Hall faces Hoover Tower, east of the Quadrangle.

Thomas Welton Stanford Art Gallery, adjacent to the northeast corner of the Quadrangle, was given to the University by Senator Stanford's brother. It contains four galleries. On permanent display is the Mortimer Leventritt Collection of oriental and other art, and numerous temporary exhibitions related to the curriculum or to University observances appear each year. The Gallery is open to visitors daily except Monday.

Laurence Frost Amphitheater, north of Memorial Hall, was given to the University by Mr. and Mrs. Howard Frost of Los Angeles in memory of their son, who was a member of the Class of 1935. It is a wooded outdoor theater capable of seating more than 8,000, and is the scene of Commencement exercises as well as other major events each year.

Lou Henry Hoover House, on a hill southeast of the Quadrangle which overlooks the campus and the shorelands of San Francisco Bay, is the home of the president of the University and his family. Its name honors the late wife of Herbert Hoover, former President of the United States, a University Trustee, and an alumnus of the Class of 1895. Mr. and Mrs. Hoover lived in the house for some years, and Mr. Hoover gave it to the University.

The Mausoleum, in the Arboretum north of the Quadrangle and west of Palm Drive, contains the remains of Senator and Mrs. Stanford and their son. It is a shrine visited by every graduating class.

The Library, east of the Quadrangle, is the central unit in the University's system of libraries. Together with the Hoover Library and various departmental libraries, the system includes more than 3,000,000 volumes and documents. The main structure contains, besides the main reading room, reserve book room, periodical room, catalog, stacks, and offices, a number of specialized collections and study areas.

The Harris J. Ryan High Voltage Laboratory, a mile away from the Quadrangle to the southwest, provides the Department of Electrical Engineering with facilities for teaching and research in high voltage transmission and other studies. Its transformers have a capacity of 2,100,000 volts, sufficient to produce man-made lightning. The laboratory is named for a Stanford scientist who made notable contributions in electrical engineering.

At the *School of Medicine* in San Francisco, situated at Clay and Webster streets, there are the Lane teaching hospital and Stanford Hospital for private patients, the Clinical and Laboratory Building, Lane Medical Library, the School of Nursing, Ruth Lucie Stern Research Laboratory, and smaller associated installations. The combined capacity of the two hospitals is 406 beds.

The School of Education, adjoining the Library and connected with it by a covered walk, was given to the University by Dean and Mrs. Ellwood P. Cubberley. He was head of the School of Education from 1898 until his retirement in 1933. The building houses the Department of Psychology, as well, and has both a large library and a 500-seat auditorium.

The Knoll, south of the Quadrangle, is the former residence of the University president which was converted in 1946 to academic uses. Quartered in it are the Department of Music and the Speech and Hearing Clinic.

The Electronics Research Laboratory, one wing of which is the Hewlett Packard Electronics Instruction Laboratory given by two engineering alumni, William R. Hewlett and David Packard, is west of the Quadrangle. It has 20,000 square feet of floor space devoted to instruction and research, notably in the field of vacuum tubes.

The W. W. Hansen Laboratories of Physics are also west of the Quadrangle, and include the Microwave Laboratory and the High Energy Physics Laboratory. The former is devoted to research in microwave physics, and the latter is concerned with the development of and experiments with the linear electron accelerator, an atom-smashing "rifle" more than 200 feet in length. The Laboratories are named for the late William W. Hansen, Stanford alumnus, whose experiments and theories provided much of American knowledge in nuclear physics and whose invention of the cavity resonator was the first step in the development of the accelerator.

Sequoia Hall houses the Applied Mathematics and Statistics Laboratory and the Department of Statistics. It is a one-story building modernized from an earlier three-story structure which had once been the first residence for women students and later served as a residence hall for men.

The Chemistry Department occupies a large sandstone building similar in architectural style to the main University buildings and a smaller Physical Chemistry Laboratory of contemporary design. Both are located just to the northwest of the Quadrangle.

The laboratories of *Anatomy* and *Bacteriology and Experimental Pathology* are situated north of the Chemistry group and immediately west of the Leland Stanford Junior Museum. They are part of the School of Medicine.

The Natural History Museum, a part of the Department of Biological Sciences, occupies the southwest portion of the main Museum. It includes the Dudley Herbarium, the entomological collections, and the zoological collections, the latter being one of the most extensive in the world in the field of ichthyology. Also a part of the Department of Biological Sciences is the *Hopkins Marine Station* at Pacific Grove on Monterey Bay, about 100 miles south of San Francisco. The Station includes the Alexander Agassiz and Jacques Loeb Laboratories, and has its own boat landing and craft used in collecting specimens from the Bay.

Campus residences for men, with the numbers they house given in parentheses, are *Encina Hall* (516), *Lucie Stern Hall* (228), *Crothers Hall* (143), *Toyon Hall* (275), *Tamarack Lodge* (25), and *Chinese Club* (25). Crothers Hall was made possible by gifts from George E. Crothers, member of the first graduating class in 1895 who had much to do as a young lawyer with clarifying the complicated legal structure of the University and who also has served the University as a Trustee. Lucie Stern Hall was built with the aid of gifts from the estate of "Aunt Lucie" Stern, beloved philanthropist whose Palo Alto home was a haven for many Stanford students.

There are also 24 chapters of national fraternities housing men on the campus: Alpha Delta Phi, Alpha Kappa Lambda, Alpha Sigma Phi, Alpha Tau Omega, Beta Theta Pi, Chi Psi, Delta Chi, Delta Kappa Epsilon, Delta Tau Delta, Delta Upsilon, Kappa Alpha, Kappa Sigma, Phi Delta Theta, Phi Gamma Delta, Phi Kappa Psi, Phi Kappa Sigma, Phi Sigma Kappa, Sigma Alpha Epsilon, Sigma Chi, Sigma Nu, Theta Chi, Theta Delta Chi, Theta Xi, and Zeta Psi.

Campus residences for women are *Branner Hall* (187), named for the second president of the University, John C. Branner: *Roble Hall* (268), which houses freshman women; *Lagunita Court* (363); *Union Residence* (200), which includes the main residence and six separated units, Casa Española, Elm Cottage, Madroño Hall, The Oaks, Manzanita Lodge, and Mariposa House; *Ventura Hall* (57); and nine small living groups, *Durand, Guthrie, Hurlburt, Jordan, Lathrop, Roth, Russell, Stillman,* and *Storey* Houses.

Stanford Village, a wartime military hospital installation in Menlo Park three miles from the Quadrangle, also houses a considerable number of students, many of them married couples occupying apartment units. Named halls for men in the Village are Cardinal Hall, Ravenswood Hall, Remele Hall, and Terman

Hall. Women have christened their hall Sterling Hall after the wife of the University President, Mrs. J. E. Wallace Sterling.

Related to the men's living units on the campus are the ***Eating Clubs***, seven organizations of hall and independent students who operate their own kitchens and occupy their own building adjacent to Encina and Toyon Halls. The seven clubs are Los Arcos, Breakers, El Campo, El Capitan, El Cuadro, El Tigre, and El Toro.

Union Court contains, as well as residence facilities for women, the offices of the Associated Students of Stanford University; the Women's Clubhouse and offices of the Young Women's Christian Association; and public dining facilities. These are the main dining room, the Cellar for fountain and short-order service, and an outdoor Snack Bar. The Union also has a barber shop and a store selling candy, magazines, and sundries. The Court is south of the Quadrangle.

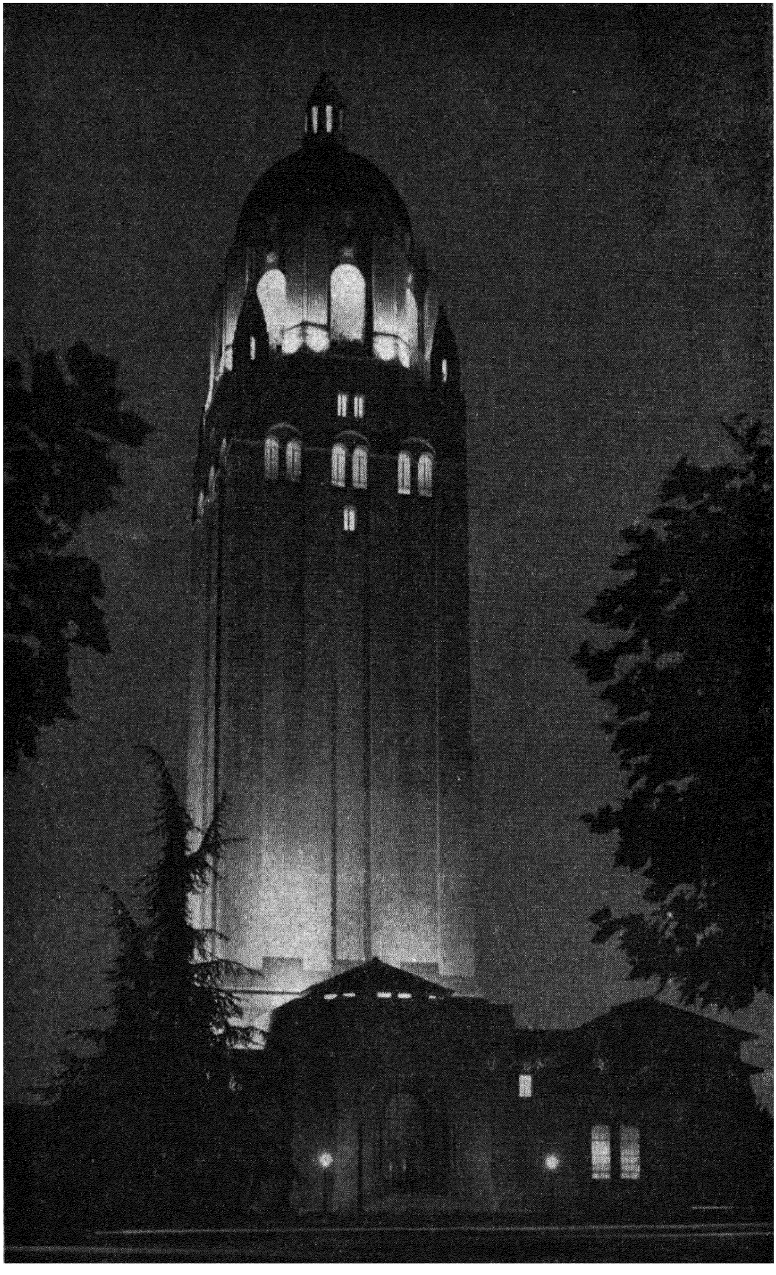
The Stanford Alumni Association has its headquarters in ***Bowman Alumni House***, between the Quadrangle and The Knoll. This building, one of the newest on the campus, is named in honor of Guy C. Bowman, of the Class of 1902. He and Mrs. Bowman were the principal donors in its realization.

The ***Stanford Bookstore***, near the southeast corner of the Quadrangle, pro vides textbooks, instruments, supplies, stationery, and other items for students and faculty.

Stanford University Press, near the southwest corner of the Quadrangle, is a complete printing house and also publishes a number of books under its own imprint each year. It prints a number of student and alumni publications as well as a wide variety of material for the University.

The University has its own post office, a branch of the United States Post Office at Palo Alto, and its official designation in postal records is Stanford, California. There is a grammar school on the campus, serving faculty families, which is a part of the Palo Alto Unified School District. As a separate community the University also has its own fire department, manned in part by paid student firemen.

A prominent recreational feature in spring is Lagunita, a percolation reservoir a short distance from the Quadrangle which is filled every spring by the overflow from larger lakes farther back in the foothills on the campus which provide irrigation water. Lagunita is popular with students during the warm days of Spring Quarter, and is the scene of the annual Junior Water Carnival. A boathouse and sandy beach are the center of canoeing and swimming.



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