Photographs by Ansel Adams commemorating the centennial of the University of California: cover & pages 1-8

Cover: Sather Tower & San Francisco Bay
Right: Sather Gate & Student Union
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How to Use This Catalog

You will find that this catalog like most catalogs represents an attempt to gather into one publication as much information as possible about the academic and administrative programs of the campus.

But even as encyclopedic a volume as this will not necessarily answer all your questions. Therefore, you will find scattered throughout these pages references to other publications which deal with specific subjects and which are available on request. Finally, on page 254 there is a list of major publications showing their titles and prices, and how to obtain them.

As a first step in getting familiar with this book, examine the Table of Contents, and turn to that part of the Courses and Curricula section which deals with the area of your own particular interest. Then you should read carefully the front section to learn what the Berkeley campus has to offer you, both in and out of the classroom. Pay special attention to those sections giving information on the requirements and the procedures related to your admission, registration, and enrollment in the University. Also, read those areas which are of specific interest to you, such as housing, services to students, facilities, etc.

This is not a book to be read in one sitting. Rather, it is one to have close at hand, to go back to again and again as new questions arise in the ever-changing experience of being a student on a large university campus.

All qualified students, regardless of race, sex, color, creed, or national origin, are welcome. (Please see page 255 for further information.)

Price: $1.50; $2.50 by mail (see page 254 for ordering information)

UNIVERSITY OF CALIFORNIA, BERKELEY
Volume 70, Number 15 / September, 1976

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Announcements herein are subject to revision. Changes in the list of Officers of Administration and Instruction may be made subsequent to the date of publication.

Telephone: (415) 642-6000
Cable Address: UNIVCAL
Left: Campus Crossroads
Right: University Art Museum Exhibit
Below: University Professor Melvin Calvin
Introduction

The University of California

History. The promise of a University of California contained in the State’s constitution, drafted at the gold rush year of 1849, California was admitted to the Union the following year, although almost twenty years were to pass before the hope for a public university was realized.

On March 23, 1868—Charter Day—Governor Henry J. Wallis signed the Organic Act, which officially created the University of California. The University’s initial site was the Oakland campus of the College of California, which a year previously had offered its buildings and land to the state on condition that a “complete University” be established for the teaching of the humanities, agriculture, mining, and mechanics. The University moved to its first permanent campus, Berkeley, in 1873.

As the Berkeley campus grew, other campuses were added throughout California: San Francisco in 1873, Davis in 1905, Riverside in 1907, San Diego in 1912, Los Angeles in 1919, Santa Barbara in 1944, and Santa Cruz and Irvine in 1961. Each campus maintains a separate administration, organization, and style of academic life, but all adhere to the same admission regulations and high scholastic standards.

Students. The inaugural enrollment of fewer than 1,000 students at the University of California has now grown to over 128,000. Nearly 88% are residents of California, with the remainder from other states and 94 foreign countries. Nearly one third are studying at the graduate level. Students have considerable freedom in choosing courses, although colleges, schools, and departments provide a broad framework of minimal general requirements and specific major requirements.

Despite the University’s size—the nine campuses offer about 10,000 courses—classes are as small as possible: nearly 70% of instruction is conducted in groups of 25 or less, and large classes are usually supplemented in small study groups. Students are encouraged to confer privately with instructors.

With certain exceptions, admission to the University is limited to graduates of California high schools and the top 12.1% of the graduates of out-of-state high schools in the top 6.1% of their classes; to students transferring from other colleges and universities whose academic records meet University requirements; and to graduate students with distinguished records.

Faculty and Instruction: The faculty of the University is internationally noted for its distinguished academic achievements. The University leads all institutions in the world in the number of Nobel Laureates on its faculty. It also has more than 150 academic staff members who belong to the National Academy of Sciences in the United States and 12.1% of the faculty members were awarded 41 Guggenheim Fellowships out of a national total of 300—more than any other university in the nation. For the twelfth time in the past thirteen years, faculty members at the UC Berkeley campus received more of the prestigious fellowships than scholars at any other single institution.

One of the University’s unique resources is its small roster of University Professors. This title is reserved for distinguished faculty members who are recognized as scholars and teachers of exceptional ability. Each University Professor has a home campus but may hold a joint appointment on another campus. All are available to other UC campuses for limited or extended visits, primarily for teaching or lecturing.

The high quality of the University’s programs was reaffirmed by the American Council of Education in its most recent evaluation of graduate schools in the United States. The ACE ranked Berkeley’s graduate school in the top five in the country for the tenth time. Twenty-six of the thirty-five graduate departments were ranked as the first, second, or third best in the nation. Eight departments were top-ranked.

Research. The distinction of the University’s faculty in the completion and scope of its research facilities. Each campus maintains research units that include laboratories, museums, centers, and institutes. There are approximately 8,000 employees, including faculty and other research facilities in more than 80 locations throughout California. Continuing research is financed by University funds, private endowments, and grants from the federal and state governments. These funds provide research fellowships and assistantships for faculty and outstanding graduate students.

The libraries of the University are a valuable resource for research and instruction. The major collections number more than 4,700,000 volumes, and at the Los Angeles campus, with more than 3,500,000. The other campuses also maintain extensive libraries. To minimize duplication, each campus collection is concentrated in a different area of interest. Interlibrary loans are arranged with ease.

Administration. The organization and administration of the University is entrusted, under the State Constitution, to a corporate body. The Regents are agents of the University of California. The Constitution provides for twenty-six Regents: eighteen to be appointed by the Governor for terms of six years; four to be appointed by the President of the University, to serve ex officio; and, in an experimental program begun in 1975, a Student Regent to be selected each year from a list of names submitted to the Board by the Student Body President’s Council. A constitutional amendment provides that “Regents shall be able persons broadly reflective of the economic, cultural, and social diversity of the state, including ethnic minorities and women.”

The President of the University is the executive head of the University in all its departments and campuses. The Regents appoint the President, who is directly responsible to them. Each of the nine campuses of the University has a Chancellor as its chief administrative officer. The Chancellor is responsible for the organization and operation of the campus, including academic, student, and business affairs.

The Academic Senate participates in the administration of academic affairs and advises the University on such matters as appointments, promotions, and budgets. Membership includes the faculty and a limited number of administrative officers. The Senate determines conditions for admission of students and for granting of certificates and degrees. It authorizes and supervises all courses in the colleges and schools.

University Extension. University Extension is the continuing education arm of the University, and serves as a bridge between the nine campuses and the surrounding communities of the State. It is a major channel for the dissemination of University research to professional groups and the general public. UC Extension ranks among the top university-level extension programs in the United States in size, scope, and quality of instruction.

Each campus provides an Extension program that reflects the educational resources of its campus and community and serves the needs of the public. In addition, the Health Sciences Program, offers continuing education courses in nearly all fields of study represented on the Berkeley campus and provides additional programs that cut across departmental lines. During the past academic year, more than 42,000 men and women ranging in age from the college years through post-retirement were enrolled in UC Berkeley Extension.

Summer Sessions. An extensive offering of regular academic courses and special programs is available each summer through University Summer Sessions. All campuses offer a wide variety of courses for which students may receive University credit. While the University Summer Sessions does not constitute regular admission to the University, it is possible to attend some campuses to complete the equivalent of one or two full semesters of study. Summer Sessions. Students in good standing at any campus of the University or at another collegiate institution are eligible for enrollment. Equally eligible are high school graduates or qualified adult applicants of sufficient maturity and aptitude for the work they plan to undertake, and, in certain cases, high school juniors and seniors.

Courses, schedules, and fees vary among the campuses. While some campuses base their fees on the number of units or courses a student takes, others have a set fee for a given session. At the Berkeley campus the tuition varies with the number of units taken. Fifty de-
new needs and new trends, in an effort to make the experience of higher education one of the most exciting, meaningful, and thorough of human experiences.

Undergraduate Admission, Regulations, & Procedures

This section offers a summary of admission policies and an outline of regulations and procedures for registration, enrollment in classes, and filing of study lists. It also gives a brief explanation of the quarter system, courses and units, grades of scholarship, honors, academic probation, academic disqualification, cancellation of registration, absences, withdrawal, re-entry, and progress toward a degree. The importance of these regulations and procedures cannot be underestimated. Additional information may be found in the Circular for New Undergraduates, published quarterly and sent to all newly admitted students.

ADMISSION

You may obtain application packets containing all necessary forms and instructions from California high school and community college counselors or from the Office of Admissions and Records, 120 Sproul Hall, University of California, Berkeley, California 94720. This office accepts completed applications on or after the opening dates for filing: Winter Quarter 1977—July 1, 1976; Spring Quarter 1977—October 1, 1976; Fall Quarter 1977—November 1, 1976. You must include with your completed application forms a fee of $20 (not refundable).

If you have not registered in regular session in any college-level institution since graduation from high school, you will be applying for admission as a freshman student. You must meet these requirements for admission as a freshman:

(a) History. 1 year. One year of United States history or one-half year of United States history and one-half year of civics or American government.

(b) English. 3 years. Three years of English composition, literature, and oral expression.

(c) Mathematics. 2 years. Two years of subjects such as elementary algebra, intermediate and advanced algebra, geometry, trigonometry, calculus, elementary functions, matrix algebra, probability, statistics, or courses combining these topics. Arithmetic and such nonacademic subjects as shop mathematics and business mathematics are excluded.

(d) Laboratory Science. 1 year. A year course in one laboratory science, taken in the tenth, eleventh, or twelfth grade.

(e) Foreign Language. 2 years. One language. Any foreign language with a written literature is acceptable.

(f) Advanced Courses. 1 (or 2) years. This must be chosen from the following:

Mathematics, a total of one year of second-year algebra, solid geometry, trigonometry, or other certified advanced courses; Foreign language, either one additional year in the same foreign language offered under (e) or two years of another foreign language; Science, a year course in any laboratory science completed subsequent to the laboratory science used for (d) above.

If you are a graduate of a California high school, these courses must appear on a list that your high school principal has certified meet the course descriptions above and that he has placed on file with the Director of Admissions. Additional elective units are also required to complete the minimum of 15 standard entrance units.

You must have at least a B (3.0) average in those courses taken after the ninth year which are used to meet the subject requirements. Subject requirements are satisfied only by courses in which a grade of C (2.0) or higher has been assigned.

If you are applying as a freshman or if you are an advanced standing applicant who has earned less than 12 units of college credit subsequent to high school graduation, you must submit scores from the following examinations of the College Entrance Examination Board: (1) The Scholastic Aptitude Test, and (2) three Achievement Tests, which must include (a) English composition, (b) social studies or foreign language, and (c) mathematics or science. If your scholarship average in the required high school subjects is 3.00 to 3.09 inclusive, you must score a minimum total of 2500 on the examinations.

For detailed information on these requirements, and admission by examination alone, consult the Undergraduate Admissions Circular or the Undergraduate Admissions Packet.

If you do not meet the requirements for admission to freshman standing or if you cannot qualify by examination alone, you can only be admitted to advanced standing.

If you have been registered in a community college, a four-year college, a university, extension classes of college level, or any comparable institution since graduation from high school, you are subject to regulations governing admission to advanced standing. You may not disregard your college record and apply for admission to freshman standing. You must present from the last accredited college or university attended a statement of good standing and an academic record with a grade-point average of C (2.0) or better.

Admission of Nonresident Applicants. The admission requirements for nonresidents differ from those for residents in that the required grade-point average is higher. For freshmen, the average is 3.4 rather than 3.0 and for advanced standing, it is 2.8 rather than 2.0. Admissions procedures and all other requirements are the same as for California residents described above. Consult the Undergraduate Admissions Circular for complete details.

ADMISSION IN ADVANCED STANDING

The requirements for admission to advanced standing vary in accordance with your high school record. Regulations applying to admission in advanced standing are as follows:

Those eligible for admission from high school, but who attended another collegiate institution, must present from that institution a statement of good standing and a grade-point average of 2.0.

Those ineligible for admission from high school because of subject deficiencies may establish eligibility by taking, at an accredited college, the required courses, and by maintaining an average of 2.0.

Those ineligible for admission from high school because of grade-point deficiencies may establish eligibility by taking, at an accredited college, a minimum of 56 acceptable semester units or 84 quarter units, with an average of 2.0 or better.

Admission in Advanced Standing for Nonresidents. Nonresident applicants who met the admission requirements for freshman admission must have a grade-point average of 2.8 or higher in the college courses they have taken that are accepted by the University for transfer credit.

The advanced standing requirements for admission listed here are experimental and will be in effect for applicants beginning through the Spring Quarter 1977.
Nonresident applicants lacking any of the required subjects in high school must complete college courses in those subjects with a grade of C or higher. A nonresident applicant who completed high school must complete two units of the required high school subjects. Nonresident applicants lacking any of the required subjects may be waived. Consult the Undergraduate Admissions Circular for complete details.

Intercampus Transfers. An undergraduate student who is registered on any campus of the University, or who was previously registered in a regular session of the University and has not since been registered in another institution, may apply for transfer to another campus of the University by filing the proper forms on the campus where he last registered. The intercampus transfer application forms and application for transcript of record forms may be obtained from the Office of Admissions and Records and must be filed with that office. There is a fee of $20 at the time of filing. Dates for filing are the same as those listed for new applicants.

Additional Requirements for Admission in Advanced Standing. Refer to the announcement of the individual college or school to which you seek admission for additional requirements.

Educational Opportunity Program. This program (EOP) provides the opportunity for entrance to the University to students of minority and low-income background, who might not be able to attend otherwise. Prospective students who meet the regular admission requirements, as well as those who do not, may apply to the University through the EOP. Prospective EOP students must show a potential to benefit from higher education. Financial aid, counseling, tutoring, and housing aid may be given under the program.

To be admitted to the EOP, you must apply to the Office of Admissions and Records of the campus you have chosen and complete a regular application for admission. If you are interested, you should apply as early as possible.

SPECIAL ADMISSION CIRCUMSTANCES

Certain rules apply for special applicants not included above.

Limited Status. This includes applicants with a bachelor's degree or with a substantial amount of college work completed with a superior scholastic average, whose special attainment may lead them to take certain college courses toward a definite and limited objective. Only applicants of unusual merit are considered. Applicants for admission in limited status will normally have to complete a personal interview with an Admissions Officer, who will determine, from the applicant's record, the applicant's needs, plans, and credentials of admission, subject to approval from the dean of the applicant's college or school.

Admission is for a specified time, determined beforehand, and students must maintain a prescribed scholastic average. There are no "special courses:" students will be admitted only to those courses for which they are able to demonstrate, in the opinion of the instructor, satisfactory preparation.

The applicant must submit transcripts of records from all schools attended since the eighth grade.

Special Status. This includes students of mature years (minimum age 21) who have not had the opportunity to complete a satisfactory high school program or have not completed a substantial amount of college work, whose special attainments may lead them to take certain college courses toward a definite and limited objective. Similar rules apply as for students in limited status, discussed above. Applicants to special status directly from high school are not accepted. One may not be admitted to special status for the purpose of making up requirements for admission to regular status.

Work Toward a Second Bachelor's Degree. Ordinarily this is discouraged by the University, but complete changes in objective occasionally require the attainment of a second bachelor's degree. Applicants for admission to undergraduate work in limited status, discussed above, may indicate, by their previous scholastic record, a strong probability of academic success in such an undertaking. Admission is subject to approval of the Director, Office of Admissions and Records, and of the dean of the college or school in which work is to be undertaken.

STUDENTS FROM OTHER COUNTRIES

An applicant from another country should request the brochure, Information for Prospective Students from Other Countries, designed to answer questions about admission to the University, visas, special examinations, fees and expenses, housing, and travel. Prospective undergraduate students who wish to attend the University through the EOP must complete the necessary procedures for a student of limited status for the purpose of making up requirements for admission to regular status. Prospective students must complete a personal interview with an Admissions Officer, who will determine, from the applicant's record, the applicant's needs, plans, and credentials of admission, subject to approval from the dean of the applicant's college or school.

Eligible students in limited status, discussed above, may indicate, by their previous scholastic record, a strong probability of academic success in such an undertaking. Admission is subject to approval of the Office of Admissions and Records, and of the dean of the college or school in which work is to be undertaken.

REGISTRATION

Registration is the means by which you officially become a student at the University. It includes the payment of fees and the filing of a study list. New and re-entering students receive information and instructions for registering by mail in advance of the first day of classes. These instructions include a mailing deadline which should be carefully observed. The instructions are reprinted in the enclosed publications.

Continuing students may pick up their first set of registration forms at the information desk and complete the enclosed instructions. A second set of registration forms, including the student's validated Registration Card, is mailed to the student prior to the beginning of the quarter. It is your responsibility to complete registration by the deadline indicated in the enclosed instructions. Failure to do so may result in non-enrollment. You may register late (in person) at the beginning of the quarter and pay a late fee of $25. Late registration also increases your difficulties in obtaining a satisfactory program of classes. Your name is not entered on class rolls unless you have completed registration by filing a study list.

You may not register after the third week of classes. You may not plead lateness as an excuse for failing to register—vice versa.
until they have attained the age of majority and have resided in the state the minimum time necessary to become a resident so long as, once enrolled, they maintain continuous attendance at an institution.

2. Nonresident students who are minors of 18 years of age and can evidence that they have been totally self-supporting through employment and actually present within California for the entire year immediately prior to the residence determination date and have evidenced the intent to make California their permanent home may be eligible for resident status.

3. Students shall be entitled to resident classification if immediately prior to the residence determination date they have lived with and been under the continuous direct care and control of any adult or adults other than a parent for not less than two years, provided that the adult or adults having such control have been California residents during the year immediately prior to the residence determination date. This exception continues until the student has attained the age of 18 and has resided in the state the minimum time necessary to become a resident, so long as continuous attendance is maintained at an institution.

4. Exemption from payment of the nonresident tuition fee is available to the natural or adopted child, stepchild, or spouse who is a dependent of a member of the United States military stationed in California on active duty. Such resident classification may be maintained until the student has resided in California the minimum time necessary to become a resident. If a student is enrolled in an institution and the member of the military is transferred on military orders to a place outside of the United States immediately after having been on active duty in California, the student is entitled to residence classification under conditions set forth above.

5. Students who are members of the United States military stationed in California on active duty, except for military service for educational purposes to a state-supported institution of higher education, shall be entitled to resident classification until they have resided in the state the minimum time necessary to become a resident.

6. Students who are adult aliens are entitled to resident classification if they have been lawfully admitted to the United States for permanent residence in accordance with federal regulations. A student who has had residence in California for more than one year immediately prior to the residence determination date may be entitled to resident classification.

7. Students who are minor aliens shall be entitled to resident classification if they and the parent from whom residence is derived have resided in California for more than one year immediately prior to the residence determination date.

8. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties, may be entitled to resident classification.

**PROCEDURES**

New and returning students are required to complete a Statement of Residence. A student's status is determined by the Attorney in Residence Matters' Deputy who is located in the Office of Admissions and Records. Students are cautioned that this summation is not a complete explanation of the law regarding residence. They should also note that changes of program after filing the study list, you must do so by formal petition with the signed approval of the instructor involved and the dean of your college or school.

**THE QUARTER SYSTEM**

The 1976-77 school year will consist of three ten-week quarters and one eight-week summer session. The summer quarter was replaced by Summer Session in 1970. This arrangement will continue until further notice. A student making normal progress toward the bachelor's degree attends three quarters per school year. If delayed, progress may be accelerated by Summer Session attendance. For information about the Summer Session, write to the Office of Summer Sessions, 22 Wheeler Hall.

A student proceeding to the bachelor's degree in four years (twelve quarters) will normally complete a total of 180 units, or 15 units per quarter. This number may be slightly higher in some professional colleges and schools. Students are normally considered to have upper division or junior standing after completion of 90 units.

**COURSES AND UNITS**

Most University courses are assigned a unit value. One unit represents three hours of work per week by the student, including both class attendance and preparation. Laboratory, discussion, quiz, or review sessions may or may not be given unit value.

**GRADES OF SCHOLARSHIP**

The work of all students on the Berkeley campus is reported in terms of the following grades: A (excellent), B (good), C (fair), D (barely passed), F (failure), P (passed at a minimum level of C-), NP (not passed), S (satisfactory or passed at a minimum level of B-), U (unsatisfactory). I (work incomplete, due to circumstances beyond the student's control, but of passing quality), IP (work in progress; final grade to be assigned upon completion of entire course sequence). The grades A, B, C, and D may be modified by plus (+) or minus (-) suffixes. A course in which the grade A, B, C, D, or IP is received is counted toward degree requirements. A course receiving the grade S is similarly counted unless otherwise specified in the course description. A course in which the grade F, NP, and U is received is not counted toward degree requirements. A course in which the grade of I or IP is received is not counted toward degree requirements until such time as the I or IP is replaced by grade A, B, C, D, F, or S.

**GRADE POINTS**

Grade points per unit are assigned as follows:

- A=4, B=3, C=2, D=1, and F=none. When attached to the grades A, B, C, or D, plus (+) grades carry three-tenths of a grade point more per unit, and minus (-) grades three-tenths of a grade point less per unit than unsuffixed grades, except for the A+, which carries 4.0 grade points per unit as does the A.

**GRADE-POINT AVERAGE**

The grade-point average is computed on courses undertaken in the University of California, with the exception of courses undertaken in University Extension. Courses A, B, C, D, and F are used in determining a student's grade-point average; grades IP, P, S, NP, and U carry no grade points and are excluded from all grade-point computations. Grade I, if assigned prior to fall 1973, is included and is computed as an F; an I grade assigned fall 1973 and later is excluded from the computations. For additional information, see "Repetition of Courses."
A student may repeat only those courses in which a grade has been received, may not be repeated on F, NP, U, or I. Courses in which a grade of D+ will be given only once, but the grade assigned accepted in satisfaction of unit requirements for appropriate Dean in all instances. Without this course more than once requires approval by the computing the grade-point average of a student who repeats courses in which a grade of D-F, D, or D+ has been assigned and total units attempted.

CHANGES OF GRADE

All grades except I and IP (see below) are considered final when assigned by an instructor at the end of a term. An instructor may request a change of a grade when a computational or procedural error occurred in the original assignment of a grade, but a grade may not be changed as a result of re-evaluation of a student’s work. No final grade except I may be revised as a result of re-examination or the submission of additional work after the close of the term. A final grade of F may be challenged by the student and the instructor. The filing fee is $5, payable at the Cashier’s Office, regardless of the number of courses listed on the petition. The final grade cannot be requested, and will not be recorded, until this form is filed.

GRADE IP (IN PROGRESS)

For a course extending over more than one term, where evaluation of the student’s performance is deferred until the end of the final term, provisional grades of IP (In Progress) are assigned in the intervening term(s). The provisional grades are replaced by one final grade if the student completes the full sequence. The grade IP is not included in the grade-point average. Effective with an IP assigned fall 1973 and later, if the full sequence is not completed as scheduled, the IP will be replaced by grade I when the instructor has no basis for assigning a grade for the term(s) completed. Further changes in the student’s record will be subject to the rules pertaining to I grades (see above).

PASSED OR NOT PASSED GRADES

A student must be in good standing (i.e., not on academic probation or subject to academic disqualification) in order to enroll in courses on a passed or not passed basis. Credit for courses graded passed may be assigned for no more than one-third of the total units undertaken and passed on the Berkeley campus at the time the degree is awarded. This limitation applies to courses completed for credit after September 1970. Included in this one-third will be half-unit Physical Education and Music 400 series courses, as well as any units completed on another campus by a Berkeley student enrolled in an intercampus visitor program, or in an education Abroad program.

A course which is required in the major or which is prerequisite to the major may be taken on a passed or not passed basis only upon the approval of the faculty of the student’s college or school. A special student or limited-status student may take courses on a passed or not passed basis at the discretion of the Dean of the College or School.

A student’s level of performance must correspond to letter grade C or better if a passed grade is to be assigned. A student may not repeat on a passed or not passed basis a course in which he or she received a D or F, or an Incomplete unless the Incomplete was assigned in a course under the Department of Admissions and Records. The latter should be filed as soon as the date of completion of the course has been established by the student and the instructor. The filing fee is $5, payable at the Cashier’s Office, regardless of the number of courses listed on the petition. The final grade cannot be requested, and will not be recorded, until this form is filed.

GRADE I (INCOMPLETE)

The grade I may be assigned if the student’s work in a course has been of passing quality but is incomplete for reasons beyond his control. Prior arrangements must be made with the instructor, because in assigning the I grade the instructor is required to specify the reasons to the Department Chairperson and to the Office of Admissions and Records.

For undergraduate students, an I grade as well as any units completed on an Intercampus Visitor Program, or in an Education Abroad Program.

A student with one or two terms of I or IP grade(s) in his or her record may not register for courses on a passed or not passed basis except with permission of the faculty of the student’s college or school.

GRADE IP (IN PROGRESS)

For a course extending over more than one term, where evaluation of the student’s performance is deferred until the end of the final term, provisional grades of IP (In Progress) are assigned in the intervening term(s). The provisional grades are replaced by one final grade if the student completes the full sequence. The grade IP is not included in the grade-point average. Effective with an IP assigned fall 1973 and later, if the full sequence is not completed as scheduled, the IP will be replaced by grade I when the instructor has no basis for assigning a grade for the term(s) completed. Further changes in the student’s record will be subject to the rules pertaining to I grades (see above).

PASSED OR NOT PASSED GRADES

A student must be in good standing (i.e., not on academic probation or subject to academic disqualification) in order to enroll in courses on a passed or not passed basis. Credit for courses graded passed may be assigned for no more than one-third of the total units undertaken and passed on the Berkeley campus at the time the degree is awarded. This limitation applies to courses completed for credit after September 1970. Included in this one-third will be half-unit Physical Education and Music 400 series courses, as well as any units completed on another campus by a Berkeley student enrolled in an intercampus visitor program, or in an education Abroad program.

A course which is required in the major or which is prerequisite to the major may be taken on a passed or not passed basis only upon the approval of the faculty of the student’s college or school. A special student or limited-status student may take courses on a passed or not passed basis at the discretion of the Dean of the College or School.

A student’s level of performance must correspond to letter grade C or better if a passed grade is to be assigned. A student may not repeat on a passed or not passed basis a course in which he or she received a D or F, or an Incomplete unless the Incomplete was assigned in a course under taken on a passed or not passed basis.

The option of being graded passed or not passed in a particular course may be withdrawn if the student is found to be ineligible to take the course on that basis. If the course is offered on a passed or not passed basis only, it may be
deleted from the study list at the option of the Dean of the College or School. These rules are subject to such other limitations as may be imposed by the faculties of the various Schools and Colleges.

CREDIT BY EXAMINATION

A student may earn credit by examination by two methods:
1. On recommendation of the Board of Admissions, a new or re-entering student may be allowed credit by examination for knowledge acquired since graduation from high school, either by independent study or in another institution, and for which advanced standing credit has not been allowed. Application for such credit should be made directly to the Office of Admissions and Records.
2. A student in good standing who is currently registered may qualify for course credit by examination. Application for such credit must be presented on the form Petition for Credit by Examination, obtainable from the Office of Admissions and Records, and submitted at the discretion of the dean of the college or school. Credit by examination may be applied for in any course listed in the current General Catalog pertaining to the regular sessions at Berkeley, or in any other subject appropriate for inclusion in a University curriculum. However, the subject in which the student seeks to be examined should be one in which, in the opinion of the instructor in charge and of the department, the student’s knowledge may properly be tested by an examination. A separate petition must be filed for each course; the fee for each is $5. In certain laboratory, field, or practice courses an examination either written or oral may not be a satisfactory test. Credit by examination is not available if such credit would duplicate credit granted by the student for admission to the University; in elementary courses in a foreign language which is the mother tongue of the applicant; or in subjects for which the University has no competent examiner. Further information concerning credit by examination may be obtained from the Office of Admissions and Records.

MIDTERM AND FINAL EXAMINATIONS

The number of midterm examinations varies at the discretion of the instructor. Final examinations, however, are mandatory in undergraduate courses, with the exception of courses listed in the Schedule of Classes as not requiring a final examination, and in the case of a student graduating at the end of the quarter who is being examined in his major by his department and may, at the department’s discretion, be excused from finals in all courses within the department.

Final examinations are normally in written form and may or may not cover the entire course. You may, if you wish, inspect a file of sample examinations, listed by course, in the Reserve Book Room of the Library. Examinations in non-laboratory courses may not exceed three hours. Any infringement of fair examination practice by a student is considered a serious offense subject to discipline.

You may be re-examined only to raise grade to passing, not to raise any other grade.

HONORS

Standards for honors status are set by the colleges and schools, and departments may, in addition, recognize study or at another institution on the Honors List. Honor students are usually accorded special privileges, including eligibility for honors programs. If you have an overall grade-point average of 3.5, you are accorded, through the Committee on Prizes, access to the Main Library loan stacks. For details on honors, please consult the college, school, or department.

MINIMUM SCHOLARSHIP REQUIREMENTS

Failure to maintain a minimum grade-point average prescribed by the college or school will normally result in probation or disqualification. Since scholarship rules are applied only at the close of regular sessions, grade points earned in a University of California summer session or by removing grade I are not taken into consideration until the close of the student’s next quarter of attendance.

MINIMUM SCHOLARSHIP REQUIREMENTS

Failure to maintain a minimum grade-point average prescribed by the college or school will normally result in probation or disqualification. Since scholarship rules are applied only at the close of regular sessions, grade points earned in a University of California summer session or by removing grade I are not taken into consideration until the close of the student’s next quarter of attendance.

ACADEMIC PROBATION

Except in the Colleges of Chemistry and Engineering, students are placed on academic probation if at the end of any term their cumulative grade-point average is less than 2.0 (C average) computed on the total of all courses undertaken in the University.

ACADEMIC DISQUALIFICATION

College of Chemistry and College of Engineering: Students shall be subject to disqualification from the university (a) if during any term they fail to attain at least a C average in all courses for which they are enrolled; or (b) if at the end of any term they have failed to attain at least a C average in all courses undertaken in the University.

College of Environmental Design, College of Letters and Science, College of Natural Resources, and School of Business Administration: Students are subject to disqualification (a) if their grade-point average falls below 1.5 for any term; or (b) if they have completed two consecutive terms on probation they increase their grade-point deficit; or (c) if after two terms on probation they have not achieved a grade-point average of 2.0 (C average) computed on the total of all courses undertaken in the University.

All other Colleges and Schools: Students are subject to disqualification (a) if at the end of any term their grade-point average for that term is less than 1.5; or (b) if they have completed two consecutive terms on academic probation without achieving a cumulative grade-point average of 2.0 (C average) computed on the total of all courses undertaken in the University.

Disqualified students may appeal, by formal petition, to the dean of their college or school, for a hearing, but the action of disqualification is normally considered final. A disqualified student who wishes to transfer to another college or school at Berkeley may petition the dean of the jurisdiction sought.

STUDENT CONDUCT

As a student enrolling in the University, you assume an obligation to conduct yourself in a manner compatible with the University’s function as an educational institution. Rules concerning student conduct, student organizations, use of University facilities, and related matters are set forth in both University policies and campus regulations, copies of which are available upon request at the Office of Student Activities and Programs, 103 Sproul Hall. In the University Policies Applying to Campus Activities, Organizations, and Students, revised October 29, 1973, and to the standard of conduct set forth therein.

CANCELLATION OF REGISTRATION, ABSENCE, WITHDRAWAL, AND RE-ENTRY

Students who have registered by mail and who wish to cancel their registration must give written notice to the Office of Admissions and Records in writing prior to the first day of the quarter. Cancellation of registration may not be accomplished by non-attendance of classes alone. A refund of all but $10 of the registration fees is made on cancellation if the registration card is returned, except for the $50 deposit paid by new undergraduates.

Responsibility for short absences during the semester is left to the student. Permission to withdraw entirely from the session, with scholarship penalty, is generally not granted after the first few weeks of the quarter except under unusual circumstances. If you do find it necessary to discontinue your studies for the remainder of the quarter, you should obtain a Notice of Withdrawal from the Office of Admissions and Records and submit it, together with your registration card, for the first of several required endorsements at the earliest possible date. If the form is submitted prior to the first day of classes, you will be entitled to the same refund as would be made on cancellation of registration. The refund of fees is prorated thereafter.

For further information on refunds, see index, Schedule of Refunds. You should note that the amount of refund, if any, is determined not by the date on which you discontinue your studies, but on the date on which the Notice of Withdrawal is first presented for endorsement. If you are eligible for further registration in the University, you will be entitled to a Statement of Honor Awardable Withdrawal, whether you withdraw from a session in progress or at the close of a session. You must discontinue for the quarter without formal notice. This may result in the assignment of F grades, academic disqualification, and loss of eligibility for readmission to a future quarter.

A student who has been disqualified for academic or disciplinary reasons is generally not eligible for readmission. If you have cancelled your registration, withdrawn, or have been absent for any quarter, you will be required to apply for readmission to the University you wish to attend. The Application for Readmission, which may be obtained from the Office of Admissions and Records, must be accompanied by a nontransferable, nonrefundable Readmission Fee of $20 when first submitted. It will not be considered until the fee has been paid. The final filing dates are given in the Calendar in the back of this publication.

PROGRESS TOWARD THE DEGREE

Declaration and Change of Major. Regulations and procedures for declaring the major vary for each college. You may, at any time up to the last quarter of residence, file a petition for a change of major. You must secure approval for this action from the dean or other authorized person in the college or department to which you are transferring.

Work Toward a Degree. At the close of each quarter, the courses, units, grades, and grade points earned are added onto your cumulative University record. From this record,—you may determine your progress toward a degree. Also, at the end of each quarter, a Grade Report which indicates the grade you received for each course you took is issued to you at a time and place designated by the Office of Admissions and Records.

Transcripts of the records—useful and usually necessary in applying to graduate school and for certain types of employment—are available
from the Office of Admissions and Records. After the last date for final examinations, transcripts of record for registered students must be held for the inclusion of grades for the quarter and, therefore, will not be available for approximately 25 working days. Partial transcripts will not be issued. At times other than the close of the quarter, the normal period required for the processing and issuance of transcripts for both registered and former students is four to five working days. The charge for each transcript of every undergraduate, graduate, or separate summer session record is $2, and $1 for each additional copy of any record requested at the same time. The total amount due must accompany the application.

In working for a degree, you should keep in mind the various levels on which you are to satisfy requirements—University, college or school, and department—as well as the types of requirements you must fulfill: course, unit, grade point, and amount of upper division work. You may receive additional counsel in these matters from your adviser.

College and School Requirements. Every college and school has established a program of requirements for the degree, which may be in addition to those of a field of concentration. These requirements may include: (1) preparatory subject requirements for admission; (2) preparatory college-level courses for your particular field of study—to be completed, if possible, during your early period of residency in the college or school, or in some cases before entrance; (3) breadth requirements, courses outside the field of study, considered essential to a well-rounded curriculum; (4) the credit requirement, which is a total number of units to be completed, with specifications of how these credits are to be distributed; and (5) a minimum scholarship requirement. For detailed information you should obtain a copy of the bulletin of your school or college.

The Major and the Department. Every student must select a field of concentration, and pursue a major or curriculum, normally by taking a minimum number of units in one department or school. Occasionally—as, for example, with Business Administration, Optometry, and others—the school and the department are synonymous. In some cases—as, for example, the humanities field major in the College of Letters and Science—a major may embrace more than one department.

Declaration of Candidacy. You must file an announcement of candidacy for a degree with the study list at the beginning of the quarter in which you expect to complete the work for the degree. The announcement is accepted no earlier than this period. The period for filing announcements ends with the third week of classes (Announcements filed late are subject to a $3 late fee). If for any reason you do not meet the requirements for graduation after announcing your candidacy, you must file a new announcement of candidacy in the period for filing in the subsequent quarter when the degree will be awarded.

Residence Requirement for the Bachelor's Degree. After 135 units toward the bachelor's degree have been completed, at least 36 of the remaining units must be completed in residence in not less than three quarters in the college or school of the University in which the degree is to be taken. These 36 units must be completed in the quarter in which 135 units are exceeded plus not fewer than two additional quarters. At least two of the final quarters must be consecutive. You should consult the announcement of your college or school for details concerning the senior residence requirement as it pertains to the summer sessions.

Preparation for Graduate Study. If you are preparing for study toward higher degrees, you should learn, as early as possible, the entrance and degree requirements of your graduate field, in order to include all prerequisite steps in the undergraduate program.

TWO GENERAL UNIVERSITY REQUIREMENTS

There are two requirements—beyond those set by the college, school, or department—which all undergraduates registered in the University must satisfy in order to graduate. Subject A and American History and Institutions are considered essential to your education, regardless of your academic or professional objectives.

Subject A. All University departments assume that students are proficient in reading and writing English, and understand how to compose an essay on an academic topic. For this reason, students are asked to present proof of their writing ability (by the means shown below) on entering the University.

Any student who cannot meet the requirement must enroll in the Subject A Department's course "Introduction to Language" during his or her first quarter of residence at the University or in a preceding summer session. In this 2-unit course, students are required to study University-level texts and write essays based on them. Instruction is also given in grammar and essay organization.

The Office of Admissions and Records accepts the following proofs of competence in writing English:

1. A score of 600 or above on the English Composition Test of the College Entrance Examination Board (it has been taken before the student enters the University;)
2. A score of 3, 4, or 5 on the College Board Advanced Placement Test in English;)
3. Completion with a grade of C or better of a college-level course in English composition taken at another institution and judged acceptable by the Office of Admissions and Records;
4. A passing grade on an essay test administered by any of the Subject A departments within the University of California system.

All students held for the requirement on the basis of a CEEB score below 600 must take the University's Subject A examination, given by the Subject A department. This examination, which may be taken only once, is administered three times: (a) during May, on a testing date set for students in Bay Area high schools; (b) during summer orientation periods when students may arrange with the Subject A office to take the test on an individual basis; and (c) at the beginning of the pre-enrollment week of each quarter (see Calendar for exact dates). The examination is used as the basis on which the department recommends release from the requirement. It is also designed to reveal the writing problems of each individual student held for the course. The same examination is used to determine the status of transfer students who have not been exempted from the requirement (see paragraphs 3 or 4).

Completion of the Subject A requirement (either by one of the ways above or by passing the Subject A course with a grade of C— or better) is a prerequisite to all freshman reading and composition sequences. Credit for taking these courses will not be granted unless the Subject A requirement has first been fulfilled.

English as a Second Language. Students whose native language is not English and who have had less than two years at an American high school may fulfill the Subject A requirement 1) by receiving a score of 600 or better on the Test of English as a Foreign Language (TOEFL); 2) by demonstrating superior writing ability on the Placement Examination in English as a Second Language; or 3) by taking from one to four composition courses in English as a Second Language (ESL), the number depending on the student's performance on the Placement Examination and on the grades he receives; an A— or better in ESL 28 or a C— or better in ESL 40 fulfills the requirement. (See Index, English as a Second Language) These courses must be taken in successive quarters beginning with the student's first quarter in residence at the University. In addition, it is possible for students who have had two or more years at an American high school but whose writing problems are primarily those of a non-native speaker to fulfill the Subject A requirement by taking one or more,
courses in English as a Second Language. These students must also take the Placement Examination.

American History and Institutions. These requirements are based on the principle that an American student enrolled at an American university should have some acquaintance with (1) the history, and (2) the public institutions of the United States. These requirements may be met in the following six ways:

1. By passing two examinations, one in each of the subjects. If you wish to take either or both examinations, you should obtain details at the American History and Institutions Office, Room 29, Dwinelle Hall.

2. By presenting official evidence of completion of the same two requirements at another college-level institution in California.

3. By completing one quarter (or Summer Session) of a course in one of the two groups given below (or, on approval of the Supervisor of American History and Institutions and dean of the college or school at Berkeley, any comparable courses offered at another college-level institution, or University Extension):


   (2) Institutions Requirement: Political Science 100, 105, 106, 107, 108, 109, 110, 111A, 112, 157A, 157B, 160, 163, 161, 184, 186; Business Administration 170, 111, 117, 154; Economics 1, 20, 121, 123, 131, 133, 151, 155, 157; Forestry 115; Journalism 141; Native American Studies 90, 100; Philosophy 105; Political Economy of Natural Resources 110C; Rhetoric 141; Social Welfare 110B; Sociology 118, 120, 124.

   Additional courses may fulfill the History or Institutions requirement on a quarter-to-quarter basis. Contact the American History and Institutions Office for details.

4. By mixing alternatives 1, 2, or 3 for either requirement. You may choose an examination in either one, or complete a course in either one, or submit evidence of equivalency for either one.

5. By completing the first two quarters of English 33A, 33B, 33C; History 33A, 33B, 33C; or Political Science 33A, 33B, 33C, of the Experimental College Program approved with American Studies.

6. The American History part of the requirement can be fulfilled by passing the Advanced Placement Test in American History with a grade of 3, 4, or 5. No Advanced Placement Test currently exists in American Institutions.

The requirements will be waived for foreign students who, in the course of their registration, have submitted to the Office of Admissions and Records for inspection travel documents certifying that they hold student (F) or exchange visitor (J) visas. Those who wish to verify that the waiver has been granted may call at the Office of Admissions and Records, 120 Sproul Hall, for confirmation, preferably no earlier than the close of their second quarter of attendance.

All students are advised that fulfillment of these requirements is the responsibility of the individual student, and preferably should be completed by the end of the junior year.

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Steps to Becoming a Student at Berkeley

The following is a simplified outline of the steps you will take in becoming a student at Berkeley, either as a freshman or in advanced standing. In many cases, the steps cover a period of approximately one year. The dates for completing each step will be clearly indicated in further information you will receive as you go through the process of admission, registration, enrollment (where necessary), and study list filing.

1. Obtain Undergraduate Admissions Packet from your high school or community college counselor, a California resident, or from the Office of Admissions and Records, 120 Sproul Hall.

2. Return completed forms contained in Admissions Package, plus nonrefundable fee of $20 postmarked no later than the last day of the first month of the filing period for the quarter for which you are applying. Thereafter, applications will be considered depending upon space available.

3. Receive from the Office of Admissions and Records a card acknowledging that your application has been received.

4. Receive from the Office of Admissions and Records, if redirection of applicant is necessary, a letter concerning redirection of the application to an alternate campus.

5. Receive from the Office of Admissions and Records a notification of admission, a statement of your intention to register, and the Circular for New Undergraduates.

6. Receive from the Office of Admissions and Records a notification of admission, a statement of your intention to register, and the Circular for New Undergraduates.

7. Return your statement of intention to register plus nonrefundable fee of $50.

8. Receive from the Office of Admissions and Records a Registration Packet. Applicants admitted too late to register by mail will receive supplementary instructions concerning the registration procedure to follow.

9. Return completed forms and cards contained in the Registration Packet.

10. Receive from the Office of Admissions and Records a Registration Packet. Applicants admitted too late to register by mail will receive supplementary instructions concerning the registration procedure to follow.

11. File your Study List after you have planned your program of study with the aid of this catalog, the Schedule of Classes, and your assigned adviser.
The Graduate Division

Graduate study embraces all study for degrees beyond the bachelor’s degree—principally the master’s and doctor’s degrees—and is administered by the Graduate Division under the policies and regulations established by the Graduate Council of the Berkeley Division, a standing committee of the Academic Senate. Higher degrees fall into two broad categories: (1) Professional—degrees awarded by each of the professional colleges and schools on the Berkeley campus in recognition of a candidate’s command of a comprehensive body of professional knowledge and the ability to organize and carry out investigations of significant problems in the field of study. (2) Academic—degrees awarded by the academic departments, and also some professional schools, in recognition of a candidate’s command of a wide range of related subjects within an academic field, preparation in one or more foreign languages, and ability to pursue original research leading to a contribution of significant ideas to the field of study.

These graduate degree programs have been approved by the Graduate Council and the Coordinating Committee on Graduate Affairs. Others may be instituted only with the consent of these bodies. For a list of graduate degrees offered, see the end of this section.

ADMISSION

Completed applications for admission, as well as all additional documents specified on the application, must be submitted to the Graduate Division by the deadline date in the following circumstances:

- Departments which have set application deadlines before the Graduate Division deadline date if the application is to be considered. Many departments also admit students only for the fall quarter of the year.
- Students who wish to register for a maximum of two years following the first quarter in which they have completed Master’s degrees at other schools. Although current test scores are preferred, reports up to five years old—but not older—will be accepted.

Foreign applicants whose native language is English and those who have studied for one year or more in schools or universities where English is the language of instruction must fulfill Graduate Record Examination requirements as stated above. Students from countries outside the United States need not submit GRE scores, unless their major department so requires. Information as to which departments or groups require the GRE of all their applicants is included in the application packet; prospective applicants should write to their respective department or group for further information.

School of Business Administration applicants take the Graduate Management Admission Test (GMAT) in place of the Graduate Record Examination. Applicants to the School of Law for the J.D. degree take the Law School Admission Test (LSAT). Students applying from schools of medicine, dentistry, or veterinary medicine to the School of Public Health need not submit GRE scores. However, law students applying to any other field of study in the Graduate Division must fulfill the Graduate Record Examination requirements as stated above.

Teaching Credential applicants (multiple and single subject only) are not required to take the GRE. However, applicants for the M.A.T. degree must fulfill the GRE requirement.

Arrangements to take the GRE should be made directly with Educational Testing Service at least three weeks before the desired test date (some weeks, if registering to take the examination at a center outside the United States). Applications for the GRE examination are obtainable from the Educational Testing Service, Box 953, Princeton, N.J. 08540 or from their Western Office at 1947 Center Street, Berkeley, CA 94704. Applications for the GMAT examination are obtainable from the Educational Testing Service, Box 965, Princeton, N.J. 08540 or from their Western Office at 1947 Center Street, Berkeley, CA 94704.

Domestic candidates from families with extremely low incomes may qualify for a waiver of GRE test fees. Such applicants should see their undergraduate financial aid office to determine whether their institution participates in the GRE Fee Waiver Program and whether they qualify. Fee waivers are not available directly from the Educational Testing Service.

Notification of Action on Admission. Only a written notice from the Dean of the Graduate Division, no letter of admission, is valid proof of admission. Admission to graduate study is limited by the number of places available in the various schools, colleges, and departments of the University. Admission committees base recommendations for admission upon careful comparison of applications; thus, there is frequently a considerable but unavoidable delay before final action is taken. Applicants for admission and fellowship consideration will be notified on or about April 1 of the action on their applications. Applicants for admission only will be advised as soon as possible after a decision to admit or deny admission has been reached. Normally, however, acceptance letters for applicants for admission only will not be issued until after March 1 for the fall quarter, and October 1 for the spring quarter.

Reactivation of Application. Applicants who have plans and wish to reactivate their application for consideration for a particular quarter will have all of their materials kept on file for a maximum of two years following the first application. Applicants must reactivate their application within the two-year period by notifying the Graduate Admission/Fellowship Office to reactivate their file prior to the application deadline date for the quarter in question. Applicants who have completed a current application together with records of any academic work completed since application was first made. Students reactivating their files should keep in mind that departments consider applications for the fall quarter only. Reactivating applicants have no priority over other applicants by virtue of their previous application. It is not necessary to pay the $20 application fee a second time if reactivation is made within the two-year period. For application after the two-year limit, a new application form must be filed (with the $20 fee) and a new set of records and supporting materials must be supplied.

Statement of Firm Intent to Register and Failure to Register. The admission notices to all (including reactivating) graduate students contain a statement of firm intent to register which must be filled out and returned to the Graduate Admissions Office by the date indicated. This statement form is part of the Graduate Division Admission Office indicating a firm intent to register will reserve the allocated registration slot for the successful applicant. Applicants wishing to retain a record of the return of their firm intent to register should send it by certified or registered mail. Students who do not wish to accept the offer of admission should return the registration reply card included in the admission notice indicating their declination of admission so that their places can be reallocated to other successful applicants.

Students who fail to return the firm intent to register form and those who do, but do not follow through with registration for the quarter in which they were admitted, no letters from departments or groups concerning their application, as previously described, if they wish to attend any subsequent quarter. They have no priority over other applicants for any subsequent quarter by virtue of their previous admission.

* Not to be confused with readmission. Readmission applies to students who have been registered in graduate standing at Berkeley and are wishing to return after an absence. See page 18, Readmission.

* Fees and conditions of reactivation are subject to change.
General Regulations and Procedures

Graduate Advisers. Graduate advisers are appointed by the Dean of the Graduate Division from nominations sent by each academic department and group and by each professional school. Advisers' names are announced before the opening of each quarter. The responsibilities of the graduate advisers include: (1) assisting graduate students in planning, registering for courses in study toward a degree, (2) reporting to the Dean of the Graduate Division on the acceptability of upper division and graduate courses completed by a candidate at other institutions, (3) endorsing applications for candidacy for higher degrees and for qualifying examinations, (4) acting on petitions by graduate students, (5) maintaining records of all graduate students enrolled under their advisement, (6) supplying information requested by the Dean of the Graduate Division regarding a student's work and progress, and (7) assisting the Dean in the enforcement of all regulations applying to graduate study, particularly those relating to admissions, degree programs, and campus regulations, copies of which are available upon request at the Office of Student Activities and Programs, 103 Sproul Hall. Participants in this program should be aware of University of California Policies Applying to Campus Activities, Organizations and Students, and to the Standard of Conduct set forth therein.

Registration. Every graduate student in good standing, unless granted withdrawal by the Dean of the Graduate Division, will be required to register with the Office of the Advisers to Graduate Students and Records each quarter until the completion of all requirements for the degree. Failure to register or to obtain formal permission to leave the University will constitute presumptive evidence that a student has withdrawn from the Graduate Division. No graduate student may fail to register in any quarter without having first obtained a formal release in the form of a withdrawal. Voluntary withdrawal without formal release constitutes voluntary withdrawal from the University and precludes readmission. The requirement of formal continuous registration for graduate students is satisfied by attendance in the three quarters of an academic year. A student is required to be registered or pay the filing fee, whichever is applicable, for the quarter in which the degree is conferred. All holders of non-immigrant visas must be registered for fall, winter, and spring quarters of each academic year unless special permission has been obtained from the Immigration Service to do otherwise. Consult the Foreign Student Adviser for further information.

Consistent with these principles, graduate students must register in any quarter in which they are enrolled in formal courses of instruction, or making any use of University facilities, including access to the faculty, except those uses that are accorded the general public.

If a student's studies or research require absence from the State of California for the quarter, a petition must be filed with the Berkeley Division of the Academic Senate to obtain such a formal release. Withdrawal requires the endorsement of the student's department, school, or group and of the Dean of the Graduate Division.

Cancellation of Registration by Mail. A student who has withdrawn for one quarter or more must file an Application for Readmission, obtainable from the Office of Admissions and Records, and must pay a non-refundable Readmission Fee of twenty dollars ($20). This fee must accompany the Application for Readmission when first submitted or the application will not be reviewed. Approval of the application is automatic. A formal review of the student's petition and academic record is made by the Graduate Division and the appropriate college, school, group, or department, and the student is notified whether the petition has been approved or denied.

Readmission. A student who was admitted to the University of California or its exchange programs and must follow expeditiously the academic or professional program to which they were admitted or later officially transferred. Expedient pursuit of the degree program implies full-time study unless a lesser program is approved by the Graduate Adviser. Successful completion of requirements is required by the departmental or group program. Passage of the required examinations and other requirements as specified for the program, and advancement to candidacy as specified for various degree programs.

For a course extending over more than one quarter, where evaluation of the student's performance is deferred until the end of the final quarter, provisional grades (P) may be assigned in the intervening quarters. The provisional grades are replaced by the final grade if the student completes the full sequence of the full sequence is not completed, the Berkeley Division of the Academic Senate is authorized to regulate the award of credit.

With the consent of the department involved, graduate students may enroll in courses in the "600-series." Such courses are evaluated by means of the grades satisfactory and unsatisfactory for conduct compatible with the University's function as an educational institution. Rules concerning student conduct, student organizations, use of University facilities, and related matters are set forth in both University policies and campus regulations, copies of which are available upon request at the Office of Student Activities and Programs, 103 Sproul Hall. Participants in this program should be aware of University of California Policies Applying to Campus Activities, Organizations and Students, and to the Standard of Conduct set forth therein.

Foreign Students. Non-immigrant foreign students must check in at the Advisers to Foreign Students and Scholars Office, International House, as soon as possible after arriving in Berkeley.

Student Conduct and Discipline. A student enrolling in the University assumes an obligation for conduct compatible with the University's function as an educational institution. Rules concerning student conduct, student organization, use of University facilities, and related matters are set forth in both University policies and campus regulations, copies of which are available upon request at the Office of Student Activities and Programs, 103 Sproul Hall. Participants in this program should be aware of University of California Policies Applying to Campus Activities, Organizations and Students, and to the Standard of Conduct set forth therein.

Readmission. A student who has withdrawn for one quarter or more must file an Application for Readmission, obtainable from the Office of Admissions and Records, and must pay a non-refundable Readmission Fee of twenty dollars ($20). This fee must accompany the Application for Readmission when first submitted or the application will not be reviewed. Approval of the application is automatic. A formal review of the student's petition and academic record is made by the Graduate Division and the appropriate college, school, group, or department, and the student is notified whether the petition has been approved or denied.

Standards of Scholarship and Dismissal for Academic Deficiencies. Only courses graded A, B, C (with or without plus or minus signs) P, or S are accepted in satisfaction of degree requirements. Courses graded D, F, or I may be assigned in the intervening quarters. The provisional grades are replaced by the final grade if the student completes the full sequence of the full sequence is not completed, the Berkeley Division of the Academic Senate is authorized to regulate the award of credit.

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Standards of Scholarship and Dismissal for Academic Deficiencies. Only courses graded A, B, C (with or without plus or minus signs) P, or S are accepted in satisfaction of degree requirements. Courses graded D, F, or I may be assigned in the intervening quarters. The provisional grades are replaced by the final grade if the student completes the full sequence of the full sequence is not completed, the Berkeley Division of the Academic Senate is authorized to regulate the award of credit.
isfactory (S and U). They prepare students for appropriate master’s or doctoral examinations and do not count toward academic residence or the unit requirements for a higher degree. No credit is allowed for work graded unsatisfactory!

Graduate students are subject to dismissal for academic deficiencies at the discretion of the Dean of the Graduate Division under the policies and practices established by the individual faculties of departments, graduate groups, and professional schools and colleges, and under the policies established by the Graduate Council of the Academic Senate. Dismissal for academic deficiencies is normally effected by the Dean on the recommendation of the Graduate Adviser, but the Dean may initiate dismissal after his own review of the record. Dismissal for academic reasons by the Dean may be appealed to the appropriate committee of the Graduate Council of the Academic Senate.

California Legal Residence. At the time of registration, every entering student is classified as a resident or nonresident for tuition purposes. Only U.S. citizens and holders of immigrant visas can become qualified for resident classification under California law (a student is classified as a resident for tuition purposes if he/she has had residence in the state for more than one year immediately prior to the day instruction begins). The nonresident classification is the general presumption of the campuses to open for a quarter. Residence is the combination of physical presence within the state plus intent to reside in California permanently. Nonresidents must pay a nonresident tuition fee each quarter. The present fee is $635.00 per quarter. For detailed information regarding the establishment of California residence, see page 11, Nonresident Tuition Fee, or write to the Attorney in Residence Matters, 590 University Hall, 2200 University Avenue, Berkeley, CA 94720. For information on waiver of the nonresident tuition fee for graduate students who are nonresidents, see page 24, Waiver of the Nonresident Tuition Fee.

Academic Residence. In order to meet the academic residence requirement for higher degrees—not to be confused with state residency, defined above—every graduate student must enroll in and complete a minimum of 4 units of upper division and/or graduate courses per required quarter of academic residence. Only courses in the 100 or 200 series satisfy this requirement. (Students should also familiarize themselves with the regulations on academic residence for the individual graduate degrees.)

The Study List and Study-List Limitations. Each quarter in which the student enrolls in a study list, entering on it all courses or any other graduate work, including thesis and/or research approved by the graduate adviser, to be undertaken for the quarter. Courses are classified as lower division (numbered from 1 through 99); upper division (100–199); and graduate (200–299). Lower division courses are not counted as part of a full program of study leading to a higher degree. (For information on courses in the “600-series” see page 34.)

Teaching assistants and research assistants must normally carry a minimum of six units of upper division or graduate work. Fellowship holders and foreign students on nonimmigrant visas must carry a full program of study, the minimum range in such cases being from 8 to 12 units in upper division and/or graduate courses, although cognizance is taken of the amount of individual study being pursued in the form of laboratory preparation, comprehensive and qualifying examination preparation, etc., for the Ph.D. degree. In these cases reduced unit loads are accepted as full programs with the consent of the Graduate Adviser and Dean of the Graduate Division. Formal classification of a student’s program as full-time, three-quarter-time, half-time, or quarter-time is determined by the Graduate Adviser and entered on the study list each quarter. For the convenience of advisers and students a suggested maximum schedule is given below.

**Maximum Program**

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**Maximum Program for Teaching Assistant and Research Assistants**

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**Maximum Program for Persons Employed Full Time**

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**Changes in the Study List.** Graduate students may file petitions to add or drop courses entered on their study lists at any time through the twentieth day of instruction. Discontinuance of a course after this time will normally result in a grade of F. After this period, a written statement from the Graduate Adviser must be submitted to the Dean of the Graduate Division for special approval of any changes in study lists. For those who receive approval, a $3.00 fee will be assessed for late changes in the study list.

**The Nature of Graduate Instruction.** A graduate course is a highly advanced course in a field of study already intensively presented in the upper division. Graduate courses demand, on the part of both instructor and student, either a capacity for critical analysis or a specialization of research interests not normally appropriate to an undergraduate major. These courses may be conducted in any of the following ways: (1) as advanced lecture courses, (2) as seminars in which faculty and students present critical studies of selected problems within the subject field, (3) as independent study or reading courses, or (4) as research projects conducted under faculty supervision. The main purpose of graduate study is to inspire independence and originality of thought in the pursuit of knowledge. The graduate student is expected to achieve mastery of the chosen field through advanced course work and—equally important—through independent study and research. Considerable liberty is accorded in the choice of courses, at the discretion of the Graduate Adviser, as long as minimum requirements for academic residence are determined by the Dean of the Graduate Division. Possession of a bachelor’s degree does not in itself entitle a student to enroll in a graduate course. These courses assume adequate preparation at the upper division level in the subject field (a minimum of 15 units in upper division work basic to the subject matter of the graduate course; this basic work may be pursued in more than one department). Graduate students are encouraged, therefore, to take any upper division work that will provide them with the background needed for advanced work; they are not confined to graduate courses.

Graduate courses completed before attainment of the bachelor’s degree are not acceptable for unit credit as part of the program for an academic degree. They may, however, satisfy certain substantive requirements in particular academic programs, such as engagement in teaching activity or particular kinds of research or technical work.

**Course Credit by Examination.** A graduate student in residence may petition to receive a limited amount of course credit toward the degree by passing examinations on material covered in certain courses in lieu of taking those courses. Laboratory and/or graduate seminars or research courses are excluded. The petition is obtainable from the Office of Admissions and Records. Approval to take such examinations must be given by the Dean of the Graduate Division and by the course instructor, or, where no instructor is designated, by the departmental chairperson.

**Duplication of Higher Degrees.** Normally duplication of degrees is not permitted. A student may petition the Dean of the Graduate Division for exception to this policy if the degree desired is in a field of study distinctly different from the field in which the original degree was attained. A professional course taken in a closely allied subject is regarded as duplication of an academic degree.

On the recommendation of the Graduate Adviser, and with the approval of the Dean of the Graduate Division, a student may, however, be permitted to earn a second master’s degree in the same subject (a master’s or in a closely allied subject), if enrolled in a doctoral program at Berkeley in that subject (or allied subject), and if that particular doctoral program requires that a master’s degree be earned at Berkeley.

**Degrees for Members of the Academic Senate.** A voting member of the Academic Senate may be recommended for a higher degree by a Senate Division of which the recommended person is not a member, provided that all the requirements of that Division have been fulfilled. No voting member may be recommended for a higher degree by that person’s own division unless, prior to the date of final action on the appointment to a rank carrying the voting privilege, the Secretary of the Division certifies to the appropriate authority that all the requirements for the degree have been met. Such appointments may be retroactive.

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*For further information see page 12, Grades of Scholarships.*
degree. Concurrent courses are those courses taken on the Berkeley campus under the instruction of a regular member of the faculty.

THE MASTER’S DEGREE

Instruction is offered on the Berkeley campus leading to both academic and professional degrees as listed in this section.

Specific regulations governing the professional master’s degrees are set forth in the individual Announcements of the colleges and schools. The present section will deal primarily with the academic master’s degree, although the rules and procedures described will be of interest to candidates in all fields.

Residence Requirement. A minimum of three quarters of academic residence (as defined earlier under Academic Residence) is required for the master’s degree. Specific subject requirements are set by the schools and departments.

Transfer of Credit from Other Institutions. Up to 6 quarter units (or 4 semester units) of courses taken at other institutions may be applied toward the degree upon approval of the Dean of the Graduate Division. These units are allowed if earned in graduate status at an institution of high standing, but they cannot be used to reduce the minimum residence requirement or minimum number of graduate-level units. Requests for degree credit for such courses are not considered until a student has completed at least one half of the program for the master’s degree, at Berkeley, and until the student has reached agreement on its acceptability, the committee to discuss it. If the committee reaches agreement, the committee will approve the student’s thesis committee two copies are filed with the Dean of the Graduate Division. Further information regarding dates and format of the thesis is available from the Degree Staff, Office of the Dean of the Graduate Division.

The thesis constitutes a report, in as brief a form as possible, of results obtained in an original investigation of a problem. While it is understood that the problem in question need not be one of only limited scope, the thesis should be comparable in style, organization, and depth of understanding to investigations of greater scope, such as the dissertations of doctoral candidates.

The thesis is submitted to a committee of three members of the faculty appointed by the Dean of the Graduate Division, with one member of the committee being chosen from a department other than that of the candidate’s major subject. Thus the student is free to confer, with members of that committee before undertaking the work of a thesis. Since the committee is not appointed until a student is advanced to candidacy, the student, to avoid the possibility of having to make extensive revisions, should not begin thesis work before advancement.

Responsibility for placing the completed thesis in the hands of the committee members rests with the student.

The three members of the committee approve the thesis, they sign the official title page prepared by the Office of the Dean of the Graduate Division, where two copies of the thesis are filed for later deposit in the University Library. If any member of the committee doubts the acceptability of the thesis, the chairperson convenes the committee to discuss it. If the committee then reaches agreement on its acceptability, the thesis is approved as previously indicated. If there is disagreement, the thesis is sent to the Dean of the Graduate Division together with a brief statement of each committee member’s opinion. If the thesis is rejected by all members of the committee, it is sent to the Dean with a statement to that effect by the committee chairperson. In all cases of rejection or split vote, the Administrative Committee of the Graduate Council makes the final decision.

THE DOCTOR’S DEGREE

Instruction is offered on the Berkeley campus leading to both academic and professional degrees as listed on pages 24-25. Graduate Degrees Offered on the Berkeley Campus. Professional degree programs are outlined in the individual Announcements of the colleges and schools offering them. The general procedures given in this section apply primarily to the academic doctor’s degree, though the information will be of interest to candidates in all fields.

The Doctor of Philosophy degree is not granted at the University of California solely for fulfilling technical requirements such as residence and completion of specified courses. The degree is awarded in recognition of a candidate’s knowledge of a broad field of learning and for distinguished accomplishment in that field through an original contribution of significant knowledge and ideas. The candidate’s research must reveal high critical ability and powers of imagination and synthesis.

Residence Requirement. A minimum of two years or six quarters of academic residence (as defined earlier under Academic Residence) is required for the Ph.D. degree. A maximum of five calendar years are allowed if earned in graduate status at an institution of high standing, but they cannot be used to reduce the minimum residence requirement or minimum number of graduate-level units. Requests for degree credit for such courses are not considered until a student has completed at least one half of the program for the master’s degree, at Berkeley, and until the student has reached agreement on its acceptability, the committee to discuss it. If the committee reaches agreement, the committee will approve the student’s thesis committee two copies are filed with the Dean of the Graduate Division. Further information regarding dates and format of the thesis is available from the Degree Staff, Office of the Dean of the Graduate Division.

The thesis constitutes a report, in as brief a form as possible, of results obtained in an original investigation of a problem. While it is understood that the problem in question need not be one of only limited scope, the thesis should be comparable in style, organization, and depth of understanding to investigations of greater scope, such as the dissertations of doctoral candidates.

The thesis is submitted to a committee of three members of the faculty appointed by the Dean of the Graduate Division, with one member of the committee being chosen from a department other than that of the candidate’s major subject. Thus the student is free to confer, with members of that committee before undertaking the work of a thesis. Since the committee is not appointed until a student is advanced to candidacy, the student, to avoid the possibility of having to make extensive revisions, should not begin thesis work before advancement.

Responsibility for placing the completed thesis in the hands of the committee members rests with the student.

If all three members of the committee approve the thesis, they sign the official title page prepared by the Office of the Dean of the Graduate Division, where two copies of the thesis are filed for later deposit in the University Library. If any member of the committee doubts the acceptability of the thesis, the chairperson convenes the committee to discuss it. If the committee then reaches agreement on its acceptability, the thesis is approved as previously indicated. If there is disagreement, the thesis is sent to the Dean of the Graduate Division together with a brief statement of each committee member’s opinion. If the thesis is rejected by all members of the committee, it is sent to the Dean with a statement to that effect by the committee chairperson. In all cases of rejection or split vote, the Administrative Committee of the Graduate Council makes the final decision.

Following is a list of Graduate Groups on the Berkeley campus:

Group in Agricultural Chemistry
Professor Leonard F. Bjeldanes, Chairperson
223 Morgan Hall

Group in Ancient History and Archaeology
Professor Erich Gruen, Chairperson
2312 Dwinnell Hall

Group in Asian Studies
Professor John B. Starr, Chairperson
210 Barrows Hall

Group in Biophysics, Bioradiology, and Medical Physics
Professor Robert M. Glaeser, Chairperson
363 Donner Laboratory

Group in Biostatistics
Professors E. L. Scott and C. L. Chiang, Co-Chairpersons
308 Earl Warren Hall
Group in Buddhist Studies
Professor Lewis R. Lancaster, Chairperson
104 Durant Hall

Group in Comparative Biochemistry
Professor J. A. Bassham, Chairperson
Lawrence Berkeley Laboratory
Laboratory of Chemical Biodynamics

Group in Comparative Pathology
Professor Stewart H. Madin, Chairperson
3510 Life Sciences Building

Group in Endocrinology
Professor Howard A. Benr, Chairperson
2040 Life Sciences Building

Group in Epidemiology
Professor Andrew C. Janos, Chairperson
210 Barrows Hall

Group in Genetics
Professor Seymour Fogel, Chairperson
108 Earl Warren Hall

Group in Immunology
Professor George W. Chang, Chairperson
345 Mulford Hall

Group in Neurobiology
Professor Frank S. Werblin, Chairperson
2224 Piedmont Ave

Group in Physiological Optics
Dean Monroe J. Hirsch, Chairperson
5559 Life Sciences Building

Group in Range Management
Professor John H. R. Polt, Chairperson
4321 Dwinelle Hall

Group in Romance Languages and Literatures
Professor Jerry R. Craddock, Graduate Adviser
4333 Dwinelle Hall

Committee for Certificate in Russian and East European Studies
Professor Andrew C. Janos, Chairperson
210 Barrows Hall

Group in Science/Mathematics Education
Professor Frederick Reil, Chairperson
347 Birge Hall

Group in Soil Science
Professor Warren Waldron, Chairperson
108 Hilgard Hall

Group in Wood Science and Technology
Professor Fred E. Dickinson, Chairperson
478 Richmond Field Station

Individual Doctoral Program. To allow the student an approach to a field that, in its breadth, falls between that of the department and the interdisciplinary group, the Graduate Division has encouraged the informal establishment of ad hoc programs leading to the Ph.D. degree. Only students who have completed some graduate study here and have already been admitted to a doctoral program will be considered for an interdisciplinary doctoral program. In such programs, the student may prepare a proposal for a course of study under the sponsorship of three faculty members. Final approval of every individual graduate program and all admissions of a student to such a program must be granted by the Graduate Council. Degree requirements must be completed in accordance with Graduate Council policies and the degree status must be stipulated by the Council for the individual student.

Foreign Language Requirement. The requirement satisfies (1) to make certain that Ph.D. candidates have the ability to acquire wide knowledge in their field of study, and (2) to enable them to keep up with foreign developments in the field. Students must fulfill the foreign language requirement for the Ph.D. before advancement to candidacy and preferably before admission to the Qualifying Examinations (see next column), even if the policies current in the department or group. Each graduate program may have somewhat different foreign language requirements, not only with respect to the particular languages required but also with respect to the number. Some graduate programs include the satisfaction of the foreign language requirement for the doctorate in their requirements for admission to doctoral programs. Prospective students are advised to inquire about the foreign language requirement as soon as possible and, if they can, to fulfill it while still in undergraduate status. Although the Graduate Council has granted variances to the general legislation of the Academic Senate for some programs, the overall requirement of knowledge of foreign languages may, in general, be satisfied by one of the following options in accordance with the Academic Senate Regulation 2001, June, 1971:

1. Demonstration of a reading knowledge of two languages by passing an examination in each, set by the department(s) concerned. The department(s) determine(s) whether a dictionary may be used; the length of the passage and the time allotted are subject to regulation by the Graduate Council. For one of these examinations, the student may, subject to the approval of the department(s) concerned, substitute a five-quarter (or equivalent) sequence of courses in that language, the University grade passed must be an average of C or better. The Graduate Council establishes general policies respecting such sequences, including time limits beyond which the non-credit courses, and authorizes the Dean, upon recommendation of the department(s) concerned, to accept language courses taken at another institution.

2. Demonstration of an exceptionally thorough reading knowledge and an adequate knowledge of the grammatical structure of a single language. Such command is tested under the direction of the Graduate Council.

In the above options the terms "language" and "languages" refer to any language certified to the Graduate Council by the departments concerned.

Students who by virtue of background have a native speaker's command of a certified language will be considered to have met the language requirement as specified in 2, above. Standards for evidence of background will be established by the Graduate Council.

Noncredit courses for graduate students are offered by the various language departments to prepare students for reading examinations.

Notice of Intended Candidacy. Notice of intention to proceed to candidacy for a doctoral degree must be given by students to the department or group for review and decision by the Graduate Adviser as early as possible in their graduate career, preferably by the end of the second quarter of residence.

Qualifying Examinations. Before admission to candidacy, students must pass a series of qualifying examinations administered by a committee appointed by the Graduate Council. Any previous deficiencies in training must have been removed, including satisfactory resolution of any incomplete grades in courses required by the Graduate Adviser for the individual program. At least a B average in all course work undertaken in graduate status must have been maintained and the language requirement(s) must have been fulfilled.

Advancement to Candidacy. Application is made on a form furnished by the Graduate Division, no later than the quarter following the one in which the qualifying examinations were passed. The completed form, bearing the endorsement of the student's department, is filed with the Dean of the Graduate Division, who determines whether all formal requirements have been met. A fee of $25 must be paid when the application is filed. All requirements for the doctoral degree except the dissertation must be completed before the student may be advanced to candidacy.

The Candidate's Degree. The degree, "Candidate in Philosophy," which gives formal recognition to a definite state of progress toward the doctorate, may be awarded to students who have passed all requirements for the Ph.D. degree. The following departments and groups currently offer this degree:

Ancient History and Archaeology
Anthropology
Applied Mathematics
Architecture
Astronomy
Bacteriology
Biochemistry
Biostatistics
Botany
City and Regional Planning
Classics
Comparative Literature
Computer Science
Demography
Dramatic Art
Economics
Education
Endocrinology
Engineering
English
French
Genetics
Geography
German
History
Immunology
Italian
Latin American Studies
Librarianship
Linguistics
Logic and the Methodology of Science
Mathematics
Molecular Biology
Near Eastern Religions
Near Eastern Studies
Nordic
Oriental Languages
Paleontology
Psychology
Rhetoric
Romance Languages and Literatures
Russian
Secondary Languages and Literatures
Science/Mathematics Education
Slavic Languages and Literatures
Statistics
Wildland Resource Science
Wood Science and Technology
Zoology
Doctoral Dissertation. The format of the doctoral dissertation is similar to that outlined in the last section for the master's thesis. Further information is available from the Dean of the Graduate Division. The dissertation, the product of independent investigation under faculty supervision, must be submitted to the committee in charge (see next page), and must receive both its approval and the approval of the Graduate Council. The dissertation is the most important requirement for the doctoral program; the degree is in no case granted for completion of course work only, no matter how extensive.

The candidate is to work under one of two plans, as adopted by the department or group:

Plan A: the Administrative Committee of the Graduate Council appoints a five-member committee which determines whether the candidate has met the requirements for the degree. Three members of the committee, one of whom must be from a department other than that of the student's major subject, guide the candidate in research and pass judgment on the merits of the dissertation. The whole committee conducts a final oral examination dealing primarily with the relationship between the dissertation and the general field of study in which the subject of the dissertation lies. Admission to the final examinations may be restricted to the members of the committee, members of the Academic Senate, and guests of equivalent rank from other institutions.

Plan B: the Administrative Committee of the Graduate Council appoints a committee of three members, one of whom must be from a department other than that of the student's major subject, to guide the candidate in research and judge the merits of the dissertation. After presentation of the dissertation, the committee may, if deemed necessary, require the candidate to defend the dissertation in a formal oral examination.

After the dissertation has been approved by the candidate's committee, the original and one copy are filed with the Dean of the Graduate Division on a date specified by that office. Along with the dissertation, an abstract of it in triplicate not to exceed 600 words, with one copy signed by the dissertation chairperson, is also filed with the Graduate Division.

All of the procedures and regulations described above, and in the preceding section on master's degrees, constitute the minimum requirements for the higher degrees, as set by the Graduate Division. Each academic department may adopt additional requirements, as approved by the Dean of the Graduate Division and the Graduate Council, according to the demands of a candidate's field of study. Programs using Plan A and Plan B are listed below.

**PLAN A**

- Anatomy
- Architecture
- Asian Studies
- Buddhist Studies
- Comparative Literature
- Environmental Health Sciences
- Italian
- Logic and the Methodology of Science

**PLAN B**

- Agricultural Chemistry
- Agricultural Economics
- Ancient History and Archaeology
- Anthropology
- Applied Mathematics
- Astronomy
- Bacteriology
- Biochemistry
- Biophysics
- Biostatistics
- Botany
- Business Administration
- Chemical Engineering
- Chemistry
- City and Regional Planning
- Classical Archaeology
- Classics
  - Emphases: Greek, Latin
- Comparative
- Biochemistry
- Comparative Pathology
- Computer Science
- Demography
- Dramatic Art
- Economics
- Education
- Endocrinology
- Engineering
- Engineering Science
- English
- Entomology
- Epidemiology
- French
- Genetics
- Geography
- Geology
- Geophysics
- German

**FACILITIES AND SERVICES**

**Foreign Language Training.** When space is available, University graduate students and fac-
ulty may facilitate their research and overseas field work by enrolling in courses for oral proficiency training in any of the languages taught at the Defense Language Institute of the Presidio of Monterey, California. Accommodation of Postdoctoral Fellows and Visiting Scholars. A prospective fellow or scholar should communicate with the chairperson of the department, school, or research unit with which affiliation is desired to determine whether the facilities required are available and whether eligibility requirements can be met for an honorary appointment. With rare exceptions, visiting scholars must hold the doctoral degree or its equivalent. Visiting scholars may not be students enrolled at or on leave from another institution. Higher education candidates, for a graduate degree, or employees of any University of California campus. Foreign Fellows or scholars should communicate with the Advisers to Foreign Students and Scholars Office, International House, to determine that they hold the proper visa to assume an appointment.

Intercampus Exchange Program. A graduate student registered on any campus of the University may go to another campus of the University as an Intercampus Exchange Graduate student with the approval of the adviser, the chairperson of the department in which study is proposed, the Dean of the Graduate Division on the home campus, and the Dean of the Graduate Division on the campus visited. This program will also include those students who wish to take courses on more than one campus of the University in the same quarter. Application forms for the Intercampus Exchange Program for Graduate Students may be obtained from the Graduate Division, Room 1, California Hall, Berkeley. Normally, students are not allowed to take courses at Berkeley. Further information and application forms may be obtained from the Petitions Desk, Office of the Dean of the Graduate Division, Room 1, California Hall.

Graduate Theological Union. The Graduate Theological Union in Berkeley offers graduate programs in religion that consist of Union courses as well as courses offered in the Graduate Division. Students may register for dissertation, and the general scope of the program is under the direction of faculty members representing both the University and the Graduate Theological Union. All applications to this program must be approved by the Dean of the Graduate Division. A formal application must be submitted by the established deadline along with the required supporting materials. Initial information about the program, a catalog, and application forms should be obtained from the Graduate Theological Union, 2465 LeConte Avenue, Berkeley, California 94709.

STUDY ABROAD FOR GRADUATE STUDENTS

Graduate students who have been admitted for study toward a higher degree may, under certain conditions, be granted permission to study abroad. Such study may consist of independent study, research participation in University-sponsored programs. An applicant must have completed at least one year in residence before departure for study abroad, and must demonstrate language proficiency, where required. Graduate students are eligible to apply to all of the study abroad programs of the Council of Graduate Schools in the United States or the Canadian Association of Graduate Schools. Internship/Study Opportunities in Professional Studies Program in India. The Professional Schools at Berkeley conduct a program in New Delhi. Students earn credit for internship work in local government agencies appropriate to their professional interest, and enroll in an Indian University program. For additional information on all the above programs, write to: Office of International Education, 2538 Channing Way, Building D, Room 104, University of California, Berkeley, California 94720.

FINANCIAL AID AND EMPLOYMENT OPPORTUNITIES FOR GRADUATE STUDENTS

Fellowships and Graduate Scholarships. Awards at Berkeley carry varying stipends. Some awards are restricted to beginning graduate students or to specific departments but most are available in open competition. Funds for these awards are made from endowments held in trust by the University and given by interested friends and alumni; others are made available from annual donations from educational, industrial, government, and individual benefactors.

Fellowship Information. Information on awards available each year is issued early in the fall. Students should write for information in the late summer or early fall of the year preceding the proposed enrollment at Berkeley. Requests for information should be addressed to the Graduate Admission/Fellowship Office, Room 1, California Hall, Berkeley, California 94720. As stated below the fellowship application is combined with the application for admission.

Fellowship Application Deadline. The fellowship application deadline for the 1977-78 competition is December 1, 1976. Applications for all fellowships within the Universitywide program mentioned here are considered only once a year, and are for the academic year beginning with the next fall quarter and extending through the spring quarters. No awards are made beginning with the winter (January) or spring (March) quarters.

Fellowship Application Procedure. New graduate students enrolling for the first time at Berkeley in a fall quarter apply for admission and for consideration for a fellowship or a graduate scholarship by completing the combined application for Admission/Fellowship, and filing it by the deadline set for receipt of fellowship applications stated above.

New foreign applicants fill out a separate application for admission only, not the combined form. All applications for admission of new foreign graduate applicants are reviewed, departments may recommend individuals of high academic distinction to the Fellowship Committee for consideration of an appointment. This will be done entirely by means of the recommendation, not by the applicant's request. Those who do receive fellowship awards will be notified by the Graduate Admission/Fellowship Office on or about April 1. For those receiving an award will simply be notified of their admission or denial of admission when action has been taken on their application without reference to the April 1 date. Applicants should not assume that admission carries any assurance of financial support or remission of fees.

Continuing or returning graduate students at Berkeley may obtain the necessary fellowship application materials from the Graduate Admission/Fellowship Office to which the supporting materials must be filed with the department or graduate group by the date established for filing applications for fellowships and graduate scholarships, December 1.

All fellowship applicants are required to file simultaneously the Office of Financial Aid's application form in addition to the fellowship application itself. This will provide the required information on financial need. Although the deadline for the Office of the Financial Aid's application is April 15, fellowship applicants are urged to submit their applications to the Office of Financial Aid as close to the December 1 fellowship application deadline as possible, but in no case later than January 15. The Office of Financial Aid's application is available from that office at 211 Sproul Hall after October 1. A major reason for filing out the Financial Aid forms is to hasten that office's action on subsequent requests for its funds if the applicant fails to receive a fellowship from the Graduate Division.

Announcement of Awards. Awards are announced on or about April 1, and must be accepted or refused, in writing, by April 15. The acceptance of a fellowship or graduate scholarship carries with it the presumption that the incumbent will devote full time to graduate study and research at the University. Institutions which are members of the Council of Graduate Schools in the United States or the Canadian Association of Graduate Schools require that anyone accepting an appointment after April 15 must, in order to become eligible to fill a vacancy in a member institution, receive consent to do so from the university that first made the appointment.

Criteria of Appointment. The number of awards available is limited, and since several
thousand new, continuing, and returning stu-
dents apply each year, the competition is very
keen. In assigning awards the Committee on
Fellowships and Graduate Scholarships con-
siders:

1. The extent and quality of previous academic
work, the evidence of ability to engage in
creative accomplishments, intellectual capacity,
and the promise of productive scholarship.
2. The total resources available to the student as
evidenced in the financial statement, and the
determined need.

Supplementation of a fellowship by employment
or any other means is possible only by the ex-
press consent of the Dean of the Graduate Di-
vision, and the amount of supplementation is
strictly limited. Persons supplementing fel-
lowships without such approval may face loss
of the fellowship and a requirement to repay
the fellowship funds disbursed to them.

Honorary Traveling Fellowships. Honorary
traveling fellowships may be awarded to dis-
tinguished graduate students in any de-
partment. Such awards do not carry any stip-
pend, but entail a financial contribution from
the University which may be of assistance
in pursuit of studies and special inquiries in oth-
er states and foreign lands. Applications for
honorary travel must be submitted by
the same date as for other fellowships, De-
cember 1.

National Defense Education Act Fel-
lowships. A number of National Defense For-
eign Language Graduate Fellowships are avail-
able under Title VI of the National Defense Edu-
cation Act in certain designated modern foreign
languages. These awards are open only to stu-
dents who are (1) U.S. citizens or have perma-
nent resident status, and (2) preparing to teach
selected languages in schools in the United
States or any institution of higher education or
an elementary or secondary school in the United
States, or preparing for employment in a govern-
mental, private professional, or technical capacity which
would contribute to the welfare of the nation.

Students who apply through the regular Univer-
sity fellowship competition will be considered
for these awards without making further applica-
tion.

Waiver of the Nonresident Tuition Fee. A
very limited number of waivers of the nonres-
ident tuition fee is available each academic year.
These are awarded to graduate students with
distinguished academic records or to teaching assistance in
recommendation, until departmental waiver quotas
are filled. Applicants must be enrolled full-time in a
program of study leading to a higher degree
and cannot be the recipients of a fellowship,

Teaching Research Positions. Salary fig-
ures for all positions mentioned in the following
sections are subject to United States income tax
deductions. Figures given are gross, not net,
and do not reflect deductions. Information about
employment schedule, place of residence and other
requirements is available from the Office of Financial
Aid, Second Floor, Sproul Hall, University of Cal-
ifornia, Berkeley, CA 94720, and should be sub-
mitted to that office by the GMP deadline of
February 1, if possible, and in no case no later than the
deadline set by the Office of Financial Aid.

The GMP award is not expected to meet the
student's entire financial need and thus students are urged to apply for financial assistance from
all other available sources.

Teaching Assistantships. Many departments
make teaching assistantships available to out-
standing graduate students. Assistantships may be
full- or part-time. Associates are employed to
provide consent of the Dean of the Graduate Di-
vision. They must possess a master's degree or equivalent training and have had at least one year of teaching experience (including
that of a teaching fellowships or assistantships) in
or outside of the University. Registered stu-
dents, who are limited to half-time service, are
in a monthly salary range of from $771 to $956.

Applications are made to the individual de-
partment chairperson.

Teaching Fellowships. An appointee must be
a registered full-time student who has been ad-
vanced to candidacy for the doctorate, or who
has otherwise achieved appropriate professional
maturity. The appointee is chosen for com-
petence to conduct the entire instruction of a
group of students in a lower division course,
der under general supervision of a regular faculty
member. The stipend is $620 per month for a half-
time annual appointment. Application is made
to the individual departmental chairperson.

Associateships. The title "Associate" is as-
signed to teachers employed temporarily and not under consideration for appointment as in-
structor, or in other departments. As such, they may be either full- or part-time. Associates are employed to give independent instruction in lower division courses. They may or may not be registered graduate students or candidates for degrees at this University. They must possess a master's degree or equivalent training and have had at least one year of teaching experience (including
that of a teaching fellowships or assistantships) in
or outside of the University. Registered stu-
dents, who are limited to half-time service, are
in a monthly salary range of from $771 to $956.

Applications are made to the individual de-
partment chairperson.

GRADUATE DEGREES OFFERED ON THE BERKELEY CAMPUS

Academic degrees are the M.A., M.S., M.F.A.,
and Ph.D. All others are professional degrees.

The J.D. in Law is the basic law degree. It is a
graduate degree and, although application is
made directly to the School of Law, it is under
the jurisdiction of the Graduate Division.

Agricultural Chemistry, Ph.D. t
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Agricultural Chemistry, Ph.D. t
Agricultural Economics, M.S., Ph.D.

Entomology, M.S., Ph.D.

Environmental Health Sciences, M.S., Ph.D. Emphasis for Environmental Planning, Ph.D.

Epidemiology, M.S., Ph.D.

Folklore, M.A. 

Food Science, M.S.

Forestry, M.P.

French, M.A., Ph.D.

Genetics, M.S., Ph.D. Emphasis for Genetics, Ph.D.

Geography, M.A., Ph.D.

Geophysics, M.A., Ph.D.

German, M.A., Ph.D.

Greek, M.A.

Health and Medical Sciences, M.S. Emphasis for Health Sciences, M.S., Ph.D.

Hispanic Literatures, Ph.D.

History, M.A., Ph.D.

History of Art, M.A., Ph.D.

Immunology, M.A., Ph.D.

Italian, M.A., Ph.D.

Journalism, M.J.

Landscape Architecture, M.L.A.

Latin, M.A.

Latin-American Studies, Ph.D.

Law, J.D., LL.M., J.S.D.

Law and Society, M.A.

Librarianship, M.L.S., Ph.D., D.L.S.

Linguistics, M.A., Ph.D.

Logic and the Methodology of Science, Ph.D.

Mathematics, M.A., Ph.D.

Medical Anthropology, Ph.D. Emphasis for Medical Anthropology, Ph.D.

Medical Physics, Ph.D.

Microbiology, M.A., Ph.D.

Molecular Biology, M.A., Ph.D.

Music, M.A., Ph.D.

Near Eastern Religions, Ph.D. Emphasis for Near Eastern Religions, Ph.D.

Near Eastern Studies, M.A., Ph.D.

Neurobiology, M.A., Ph.D.

Nutrition, M.S., Ph.D.

Oriental Languages, M.A., Ph.D.

Paleontology, M.A., Ph.D.

Parasitology, M.S., Ph.D.

Philosophy, M.A., Ph.D.

Physical Education, M.A.

Physics, M.A., Ph.D.

Physiological Optics, M.S., Ph.D.

Physiology, M.A., Ph.D.

Plant Pathology, M.S., Ph.D.

Plant Physiology, M.S., Ph.D.

Political Science, M.A., Ph.D.

Psychology, M.A., Ph.D.

Public Health, M.P.H., Dr.P.H.

Public Policy, M.P.P., Ph.D.

Range Management, M.S.

Rhetoric, M.A., Ph.D.

Roman Languages and Literatures, Ph.D. Emphasis for Roman Languages and Literatures, Ph.D.

Scandinavian Languages and Literatures, M.A., Ph.D.

Science/Mathematics Education, Ph.D.

Slavic Languages and Literatures, M.A., Ph.D.

Social Welfare, M.S.W., D.S.W.

Sociology, M.A., Ph.D.

Soil Science, M.S., Ph.D.

South and Southeast Asian Studies, M.A., Ph.D. Emphasis for South and Southeast Asian Studies, M.A., Ph.D.

Spanish, M.A.

Statistics, M.A., Ph.D.

Wildland Resource Science, M.S., Ph.D.

Wood Science and Technology, M.S., Ph.D.

Zoology, M.A., Ph.D.

Certificate in Russian and East European Studies. Students who have had substantial training in the Russian and East European Area in at least two departments and have had 16 quarter units (or equivalent knowledge) of an East European language can, by taking a required number of additional courses in the area, obtain a Certificate in Russian and East European Studies. The certificate course requirements can be fulfilled either as part of a program leading to a higher degree in the social sciences or humanities or after receipt of such a degree.

Certificates of Completion of Graduate Curricula in the School of Librarianship. Three certificate programs have been established which are designed to meet the need for advanced studies beyond the first professional degree (M.L.S.) and short of the doctoral degrees (Ph.D., D.L.S.). The programs will be in the following fields: Bibliography; Library Automation and Information Science; and Library Management. Inquiries should be directed to the School of Librarianship.


Master of Arts in Teaching. The degree of Master of Arts in Teaching is offered by the School of Education jointly with the Departments of Comparative Literature, English, French, German, and Near Eastern Studies. At the present time, it is limited to the five academic fields of study named above. Candidates must satisfy all requirements to be certified to teach in the State of California in addition to completing academic training in one of the four subject fields. Inquiries should be directed to the appropriate academic department and to the School of Education.
Tropical Biogeography. Registered graduate students interested in doing field research in the tropics may be assisted by the Associates in Tropical Biogeography who among other objectives have that of serving as an advisory committee to the Dean of the Graduate Division.

Teaching Credentials. Work leading to the Multiple Subject or Single Subject Teaching Credentials is given on the Berkeley campus. For details, please consult the Announcement of the School of Education.

Services and Facilities

This section offers a general outline of the services and facilities available at the Berkeley campus. Services include the Student Health Service, Counseling Center, Career Planning and Placement Center, Housing and Child Care Services, Office of Financial Aid, and many others; facilities include libraries, Study Abroad Programs, the Lawrence Hall of Science, the University Art Museum, and many others. Further information may be obtained by writing directly to the appropriate office.

SERVICES

Student Health Service. The Student Health Service offers preventive, educational and treatment services that are designed to support the good health of students. Most of the routine preventive services are provided to fully registered students at no additional cost. These services include doctor and nurse practitioner visits, contraceptive examinations, pregnancy counseling, and the like. Some outpatient services such as allergy shots, travel immunizations, premarital exams, counseling, and prescription drugs are available for a small fee.

Hospitalization, surgery and other non-EMS emergency care require insurance payment. Students should bring appropriate information about any insurance coverage they have when coming to campus. The Student Health Service insures students who are otherwise uninsured. However, the benefits are limited and require prior authorization. Full details about this insurance and optional insurance for students dependents are available in About Health Insurance and from the Appointments and Information Office, Room 104 Cowell Hospital.

The registration fee supported services do not include responsibility for ongoing care for chronic medical problems or for continuing care of problems that developed prior to registration at the University. Injuries sustained in the course of employment may be treated but payment is subject to standard Worker’s Compensation Insurance procedures. Treatment for injuries sustained due to the fault of someone other than the injured student will be treated but will not be covered under the registration fee supported programs and payment arrangements will be made at the time that service is provided.

The Student Health Service is located in Cowell Memorial Hospital on the east edge of the campus. It is open from 9AM to 5PM, Monday through Friday for all services and twenty-four hours every day for urgent care. Appointments may be made by phoning 642-5012 or by dropping by Room 104, Cowell Hospital. Information is available at the same location.

Since services and insurance information may change from year to year, it is important that all students obtain copies of The Well Body Student Health Manual, About Health Insurance, and the Student Health Service's Health and Safety Handbook. Students are encouraged to keep all of them in a file and to make copies as needed.

Summer services and charges may be different. Students who are registered for summer session should consult either the Summer Sessions Bulletin or the Financial Aid Office for details. Continuing students who are not registered for summer session but who wish services should consult the Appointments and Information Office, Room 104, Cowell Hospital or phone 642-5012.

Optometry Clinic. The School of Optometry offers comprehensive eye care services. For details, students should write to: Professor James W. Fristrom, Department of Genetics, 345 Mulford Hall, University of California, Berkeley, CA 94720, or to their Department of Education, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132. Genetics — A joint doctoral program in genetics leading to the Ph.D. degree is offered by the University at Berkeley and San Francisco State University. The program is interdisciplinary, including clinical as well as preparation in depth in the behavioral sciences and in statistics and research methods.

Concurrent Degree Programs. Concurrent degree programs have been established in the disciplines listed below. The aim of these programs is to provide an integrated curriculum of greater breadth between the two disciplines. Inquiries for additional information should be directed to the departments or schools involved.

Business Administration, M.B.A. — Law, J.D. (Berkeley)
Business Administration, M.B.A. — Law, J.D. (Davis)
Business Administration, M.B.A. — Law, J.D. (Hastings)
City and Regional Planning, M.C.P. — Law, J.D.
City and Regional Planning, M.C.P. — Public Health, M.P.H.
Economics, M.A. — Law, J.D.
Librarianship, M.L.S. — Law, J.D.
Librarianship, M.L.S. — Near Eastern Studies, M.A.
Nutrition, M.S. — Public Health, M.P.H.
Public Health, M.H. — M.D. (School of Medicine, San Francisco)
Public Policy, M.P.P. — Law, J.D.
Social Welfare, M.S.W. — Law, J.D.

Medieval Studies. Medieval Studies at Berkeley are currently undertaken in a joint degree program designed to preserve the established standards of training in major subject, while broadening the student's experience in other aspects of the field. The degree granted in recognition of this extra achievement is the Ph.D. with a joint designation, for example "Ph.D. in English and Medieval Studies." Each student is expected to fulfill the Ph.D. requirements of the major department, which administers the program of study. In addition, each student pursues seminar work in two others, at least one of which is History (unless that is the department of the major). The program includes a special examination in Latin, consisting of representative passages from medieval authors. Interested students should apply to the individual department in which they would do their major work.
students in the Educational Opportunity Program and aid students in specific courses and in developing effective general learning skills.

EOP Counseling. During registration week and throughout the school year counselors are available to assist students in their orientation and in other matters of personal and general concern associated with the University. Group programs include the Summer Bridge Program and other special events. For appointments, telephone 642-7224.

Learning Center. Learning Assistants provide individual service in a variety of undergraduate courses. There are also non-credit mini-courses in reading improvement, writing, and study skills. Other group sessions include preparation for graduate and professional school exams.

The Center's Library-Lab contains non-circulating books on study skills and programmed learning materials for a number of courses. Handouts are available on specific study skills in various disciplines. The lab has programs for improving reading, note-taking, and vocabulary.

The Center gives priority for individual assistance to EOP students, athletes, and students on probation. Students unable to make individual appointments with staff will be served on a drop-in basis.

For additional information, or to register for any of the Center's programs, see the receptionist, ground floor, Building T-8. Telephone: 642-7322.

Office of the Ombudsperson. The Ombudspersons Committee also makes recommendations for changes of the usual procedures and agencies. If you have reached a procedural impasse or feel you have been treated unfairly in a matter affecting your academic status, there are two Ombudspersons to help you find a satisfactory solution. They are tenured faculty members who investigate the circumstances of complaints and make recommendations for their resolution.

The Ombudspersons Committee also makes general recommendations for changes of the policies that produce unfavorable or unfair regulations. Located in 328 Stephens Hall, this office may also be reached by telephone at 642-5754.

Office of Student Activities and Programs. Located in 102 Sproul Hall, this office works closely with students and staff in their initiation, planning, and implementation of activities, programs and events to meet the desires and needs of students and the University community. Participation in student activities can assist in the development of leadership ability, responsibility, and personal growth and can give opportunities to develop close friendships and to establish open communication on a large campus. Sponsored groups include honor societies, service organizations, sororities, fraternities, and other student organizations. Resource materials are also available in the office. Telephone: 642-5754.

Advisers to Foreign Students and Scholars. This is the Office that is concerned with all aspects of the foreign student’s and scholar’s experience in Berkeley. It offers a wide range of assistance services to foreigners and their families, including orientation programs for new students, guidance on visa matters, help in solving financial difficulties, health care counseling, and advice on personal problems. Additionally, this Office provides information on almost any topic that would be of special interest to foreign students and scholars. Located in Building T-6, 2299 Piedmont Avenue (642-2818), the Office is open Mondays through Fridays from 9AM to 4PM.

The Program Office, also in International House (642-6480), plans trips to neighboring communities and industries, and places of geographical interest, cultural events, dances, parties, and slide shows, to enrich the extra-curricular life of foreign students and scholars at UC Berkeley, and to introduce them to American institutions, customs, and families.

Career Planning and Placement Center. See Career Planning and Placement Center.

Student Information Center. Located in 102 Sproul Hall, this center provides easy and informal access for students seeking information related to their status as members of the University community. Counseling is also available, and referral for more specialized assistance is made. The Center is the first point of contact for a student unfamiliar with or having problems with the requirements and organization of the University. In addition to its full time staff, two attorneys are available to provide legal advice and referral for representation, as well as two students for general information counseling on a student-to-student basis.

Other services provided: the Student Handbook and general information about student life at the University; special coordination and advocacy for minority and Educational Opportunity students; emergency information concerning students; the handling of student complaints of a non-academic nature; and the maintenance of informal student records.

The Student Information Center is thus a focal point for student information, closely coordinated with the other units, departments, and colleges. It advises the professional and student staff, the Center seeks to provide maximum service to students and the University community.

Living Accommodations. There is a wide selection of housing at the Berkeley campus. Admission to this campus does not guarantee housing reservations. You should acquaint yourself, well in advance of your enrollment, with the various living arrangements. Undergraduate students may apply for off-campus residence halls. An equal number live in University Family Student Housing. Early application is recommended. The remaining students live in rooms and apartments in the community. Students consider their individual wishes and needs and select their own accommodations.

Child Care. The Child Care Program is available to registered students, and provides care for more than 200 children between the ages of three months and five and a half years. Families with the lowest income, or those receiving public assistance, are given the highest priority. Two hours weekly parent participation is required. Application deadline is August 20 for the academic year. Late applicants are placed on a waiting list. Application: 2537 Hast Street, Berkeley; telephone: 642-1827. Address mail inquiries to Housing and Child Care Services, 2401 Bowditch Street, Berkeley, CA 94720.
Financial Aid. The Office of Financial Aid is located at 201 Sproul Hall. By visiting or writing to that office you may obtain information about the various types of student aid offered. Undergraduate students may apply to the Financial Aid Office for undergraduate scholarships (including Regents and Alumni Scholarships with or without stipend) and Supplemental Educational Opportunity Grants (SEOG). Both undergraduate and graduate students may apply for University Grants-in-Aid, Educational Fee Grants, National Direct Student Loans, University Grants, Federally Insured Student Loans, Educational Fee Deferral Loans, Work-Study Program, and other aid programs. Undergraduates may also apply for Educational Fee Grants and undergraduates transferring as juniors from non-UC institutions in California are eligible to apply for Improved Access Grants. Prizes are also offered.

All of these forms of financial aid except honorary scholarships and prizes are granted on the basis of financial need only. Prizes are awarded on the basis of competition or outstanding ability in some area of creative or scholarly achievement. Undergraduate scholarship awards are made on the basis of scholarship and financial need, except Regents and Alumni Honorary Scholarships which are awarded in recognition of outstanding achievement and promise. Complete information concerning all of these programs except prizes is contained in the publication Financial Aid Information which may be obtained from the Office of Financial Aid. A separate booklet describing the various prizes offered is also supplied on request by the Committee on Prizes, 207 Sproul Hall.

Application forms for these financial aids should be available about October 1 for the following year, and must be filed by the dates shown in the Calendar, 1976-77, in this catalog, except those for prizes, University loans, Federally Insured Student Loans, Educational Fee Deferral Loans, Work-Study Program, and other aid programs. Information about graduate application deadline dates for these latter is contained in the Financial Aid Information or Prize booklets.

Information about graduate fellowships and graduate scholarships may be obtained separately from the Graduate Division, 1 California Hall.

Social Security Benefits. If you have questions regarding Social Security benefits, inquire at the Office of Admissions and Records, 120 Sproul Hall.

Aid to Veterans and Dependents of Veterans. If you are a veteran, or a veteran's dependent, you may secure the appropriate forms from the Veterans Affairs Office, Office of Admissions and Records, 120 Sproul Hall, or from the Veteran Administration Regional Office, 211 Main Street, San Francisco, CA 94105. Information about application date deadlines for the Veterans Affairs publications available upon request at 120 Sproul Hall.

Reserve Officers Training Corps. The University of California, as a land-grant institution established by the Morrill Act of 1862, offers courses and programs in military training. This training is voluntary, and affords young people the opportunity to qualify for a commission as an officer in the Army, Marine Corps, Navy, or Air Force while completing their college education. Reserve Officer Training Corps (ROTC) courses are offered by three departments: Aerospace Studies (Air Force), Military Science (Army), and Naval Science (Navy and Marine Corps). The programs carry a monthly stipend in the junior and senior years, and additional educational aids are available to graduates. Individual programs are described under Military Officers' Education Programs.

FACILITIES

Campus Libraries. The University maintains a network of reading and research libraries located on or near the campus. The holdings of the Main Library, the Moffitt Undergraduate Library, the 21 branch libraries, and numerous special libraries total more than 4,700,000 volumes, 96,000 current serial publications, 325,000 maps, 85,000 manuscripts, 155,000 theses and dissertations, 760,000 microform items, 235,000 maps, and 33,000 sound recordings.

The University Library. The Berkeley campus library system consists of the Main Library, the Moffitt Undergraduate Library, 21 branch libraries, and numerous special libraries.

The Main Library houses most of the humanities and social sciences materials, and the central services for acquisition, cataloging, interlibrary loan, serial publications, and photography. In addition, the library contains professional and research offered by the General Reference Service, special service of specialized reference assistance is given by the Documents Department, Art History/Classics, Humanities Graduate Service, Morrison Library, Map Room, Newspaper and Microcopy Room, Periodical Room, and the Bancroft Library, which houses major collections in the history of California, western America, Mexico, and colonial Latin America, as well as rare books of all countries and periods.

The James K. Moffitt Undergraduate Library is an open stack core collection of 155,000 volumes and 475 serial titles, designed to provide a convenient point of entry into the complex library system for Berkeley's 20,000-plus undergraduate students. It provides reserve materials assigned for reading in most undergraduate courses as well as carefully selected materials in all subject fields.

Branch Libraries are located near the departments whose faculty and students use them most. They include the Biochemistry, Biology, Botany, Chemistry, Physics, Forestry, Physics, Computer Science, Statistics/Computer Science, Chemistry, Earth Sciences, Engineering, and Physics libraries; the Anthropology, Religions, Occupational Therapy, Law School, and Social Welfare libraries; and the East Asian, Education/Psychology, Environmental Design, and Music libraries.

Special Libraries are located on or near the campus. Among the most important are those of the Center for Chinese Studies, the Giannini Foundation of Agricultural Economics, the Institute of Governmental Studies, the Institute of Industrial Relations, the Institute of International Studies, the Institute of Transportation Studies, the School of Law, and the Water Resources Center.

A student is entitled to use these libraries, upon presentation of his/her registration card. He may, however, borrowing privileges and access to the collection vary from unit to unit. For more information about the campus library system, please inquire at the General Reference Desk, the Main Library or the Reference Desk, the Moffitt Undergraduate Library.

Language Laboratory. The Language Laboratory is located in the basement of the southernmost wing of Dwinelle Hall. The Laboratory has listening positions for 180 or more students at one time. The tape library has more than 10,000 reels in seventy-five languages. Most are language lessons, but there are foreign literature readings as well. Facilities are normally scheduled for languages with large enrollments, but random listening is offered if facilities permit. Some of the popular language lesson series are available in a lending collection for home study. Copies of some of the Laboratory's materials may also be obtained at cost. Assistance to students wishing to study certain exotic languages is available by application at the Laboratory office.

Sports and Recreation. Harmon Gymnasium and Hearst Gymnasium are equipped with swimming pools, as well as squash, handball, volleyball, and tennis courts, athletic fields, and a variety of indoor facilities. The pool is open throughout the year, free of charge, primarily to students of the University, who may obtain, upon showing a current student registration card, a locker and free use of gym clothing and equipment. Hours during which facilities are available for recreational use are posted in the gymnasium.

A wide variety of instructional, intramural, extramural, and collegiate, and recreational athletic programs and sports clubs are offered by the Department of Physical Education, Department of Intercollegiate Athletics, Department of Women's Intercollegiate Athletics, Department of Intramural Sports and Recreation and the University Physical Education. Strawberry Canyon Recreational Area serves the entire University community with swimming pools, lounging, play, and picnic-barbeque areas. Further information may be obtained by calling Haas Clubhouse.

Dining. The Dining Commons is just north of the Student Union. On Sprout Plaza level: The Terrace provides hot meals, breakfast and lunch; grilled or wrapped sandwiches; hot tasty soup and a selection of hot entrees in addition to fast snacks and hamburgers. The Golden Bear features lots of selections, with table service in a menu offering of Salad Bar, Hof Brau Sandwiches, grilled items and two full-menu Hot Entree selections; plus a variety of desserts. The Fence provides carry-out snack service. On the lower plaza level: The Cafeteria serves a la carte hot lunch items, special low calorie plates, vegetable plates, and a great variety of snack foods. Also in the Cafeteria building is The Deli featuring made-to-order sandwiches from a large display of delicatessen meats and cheeses; delicatessen type sandwiches made from cold beans, hamburgers, and other fresh ground beef before your eyes. For carry-out service call (64) 7314 between 8:30 and 10:30 AM, and your order will be ready to pick up. On the Creamery level, just west of the Deli, the Ice Creamery serves fudges, floats, malts, milkshakes and sundaes to
be enjoyed at tables inside or on the patio, or carry-out. An outside area, adjacent to The Deli, on the south side, has full-line service. Vending with sandwiches, hot and cold beverages and snacks. The Commons also operates a catering service for special functions and student activities on campus. The Os-1 mibile Unit—the snack area specializes in made to order sandwiches, deli salads, and soups is located in Wurster Hall. In addition, coffee shop service is available at 24 University Hall. To arrange for Catering or Office Coffee Service call (64) 2-3620.

Student Union and Student Center. The Student Union, located on Bancroft Way at Telegraph Avenue, is a local point of student activities and recreation. It contains lounges, meeting rooms, Paulbe Ballroom, an art exhibit area, a games room, a meditation room, a check-cashing service, the University Bookstore (a comprehensive book, stationery, special services, University Print Shop, and sundries supply store), an information center, a visitors center, a bowling lanes, billiard tables, a barber shop, a garage, a bicycle shop, a creative arts studio, the Bear's Lair Pub, and facilities for the ASUC musical organizations. Operating costs of the Student Union are largely financed by revenue from enterprises.

Eshleman Hall, the student office building located on Bancroft Way next to the Student Union, houses the elected student officers, the Personnel Office for employment with the ASUC, Humphrey Go-Bart (a shuttle bus service operating between the Bay Area Rapid Transit Station in downtown Berkeley and various campus buildings), Senate Chambers, and many student activities.

Zellerbach Auditorium, the Dining Commons, Ludlow, and the Lower Sprawl Plaza complete the Student Center.

Computer Center. The Computer Center, located in 239 Evans Hall, serves the entire campus by (1) providing and operating a Control Data 6400 system to meet the instructional and research needs of the campus, and (2) the development of both hardware and software.

A program library and a consultation service are maintained to provide information about the operating and programming systems to assist users and to programming consultation. The Center has an applications programming group who will undertake programming tasks for users. The Center also provides a keypunching service for users of the computer.

Lawrence Hall of Science. The Lawrence Hall of Science is both a public science center and a research unit in science education at the Berkeley campus. Its mandate is to increase the public's awareness and understanding of science; its aim is to involve people with scientific concepts in a direct and personal way. Visitors to the Hall operate science demonstrations in astronomy, biology, chemistry, mathematics, or physics. They can use computer terminals for programming and logic games, and observe a publicly viewable "sky window." Planetary shows enable the audience to participate in interdisciplinary approaches to astronomy. Time-shared computer services are provided to 41 educational institutions, from elementary school through college. Workshops and classes introduced technology to scientific investigation and new technology. A school visit program brings over 8,000 children to the Hall during the academic year, and after-school classes are offered in mathematics, physical and life sciences, and computer science. Generalinterest films are offered every weekend and daily during the summer months. A Thursday Evening Lecture series provides speakers from the University and the Bay Area on topics of general scientific interest.

Over fifty percent of the staff and budget are involved in research and development projects in science that emphasize active experimentation. Projects have been developed at the Hall in physical and life sciences, outdoor biology, and chemistry are used in every state in the country and in many institutions abroad. Teachers workshops involve teachers in curriculum development, assisting them to acquire more confidence and competence in science and mathematics teaching.

The Hall is open seven days a week from 10 AM to 4:30 PM, and Thursday evenings until 9 AM. Admission is free to UC students and members of the Lawrence Hall. For others, there is a small admission fee.

University Art Museum. The University Art Museum, located on Bancroft Way at College Avenue, is the major campus art center. Facilities include ten exhibition galleries, the Pacific Film Archive, a bookstore, and the Swallow Restaurant.

In addition to offering over 25 exhibitions annually, the Museum houses a permanent collection of Asian and Western art. One gallery is devoted to the Hans Hofmann Collection, a group of 45 works donated by the artist. Special exhibition programs are available to students and faculty, and exhibitions are prepared for university classes and in conjunction with seminars. A group show by candidates for the Master of Fine Arts degree is displayed each year.

Through its Special Events Program, the Museum continues to produce various programs, including lectures, tours, gallery talks, workshops, classes, and art festivals. A tour program brings approximately 6,000 children to the Museum each year. The Pacific Film Archive, one of the major film exhibition centers in the country, offers over 800 film programs annually, maintains a collection of 3,000 prints, and provides a public and media information service for both film study and research screening. Free film showings for school classes are held twice weekly.

The University Art Museum Council offers membership to UC students at a reduced rate and to the general public at a nominal admission charge. Museum hours are Tuesday through Sunday, 11 AM to 5 PM. Admission is free.

Graduate Assembly. The Graduate Assembly is the student organization that is primarily concerned with matters pertaining to graduate students. Graduate departments send representatives (one per department plus one additional representative for each 100 graduate students) to the Assembly meetings which are held monthly during the academic year. The Assembly elects four administrative officers, and one representative officer each to the ASUC Senate and the Graduate Council of the Academic Senate. The Assembly also sends graduate student representatives to Committees of the ASUC. Affirmative Action Assembly, Academic Senate and advisory to the Chancellor. The Assembly works with the university-wide organization, the Graduate Senate. Graduate students of the Assembly are organized into working committees to concentrate on areas of interest. These committees have been concerned with such matters as affirmative action issues and reports, library facilities, job placement, housing, graduate student orientation, and the quality of M.S., M.A., and Ph.D. programs. The Assembly also encourages individual departmental organizations to submit requests for funds for programs of specific interest. Funding of all Assembly expenditures occurs through the ASUC budgetary process. The Assembly invites graduate students to use the Commons Lounge in 442 Stephens Hall. Assembly offices are located at 239 and 241 Campbell Hall, 642-2175 and 642-2307.
The Community Projects Office (CPO). This office, located in Esthleman Hall, serves as the ASUC clearinghouse for existing volunteer opportunities in the Bay Area and as the resource agency for the development of new projects. If you are interested in doing volunteer work of any type, the CPO provides an orientation program: files and information on the various projects; a library of commentary books, texts, and tutoring aids; and also sponsors numerous workshops in areas such as co-operative buying and reading instruction. The CPO is also working directly with a large number of Bay Area organizations, developing resources and doing research on campus, and has the necessary information and contacts for those interested in starting new projects in any area. The CPO employs a number of part-time student employees and a large number of student volunteers. For these students, the CPO provides a meaningful and relevant link to the community while at the same time allowing the students to work on the campus.

SUPERB. The Student Union Program, Entertainment, and Recreation Board, located in Esthleman Hall, is responsible for developing and supervising an activities program for the ASUC to satisfy the cultural, educational, recreational, and social needs of the campus. Programs and activities planned include speakers, dances, exhibits, coffee hours, recreational exhibitions, cabarets, drama, movies, music and art festivals, and special presentations, including a noon concert on the Student Union Plaza each Monday through Thursday, starting new projects in any area. The CPO employs a number of part-time student employees and a large number of student volunteers. For these students, the CPO provides a meaningful and relevant link to the community while at the same time allowing the students to work on the campus.

Student Publications. Several student publications provide opportunities for activities in all phases of publishing: writing, editing, reporting, art and design, advertising, sales, and general management. Examples are:

*The California Pelican* — a quarterly magazine specializing in articles and features of current interest. Located in Pelican Building.

*California Engineer* — a magazine of engineering and scientific topics, for both technical and general interests. Located at 9 North Gate Hall.

*The Berkeleyan* — a quarterly campus humor magazine. Located in Pelican Building.


*Blue and Gold* — the campus yearbook. Located in Esthleman Hall.

*Via* — a tri-lingual literary magazine (Spanish, Portuguese, and English). Located in Pelican Building.

*Camera Obscura* — a film journal written by students. Located in Pelican Building.

Lectures, Music, Drama, Dance, Debate. The University offers a broad variety of extra-curricular activities in the humanities. These include:

Committee for Arts and Lectures (CAL) — a year-round program of drama, music, dance, films, and lectures. Some events are open to students and to the University community without admission charge. For those events requiring tickets, a reduced rate is usually available for registered students. Brochures announcing Committee events may be obtained at the CAL Box Office, 101 Zellerbach Hall, or the Information Desk of the Student Union. For information, or to make telephone reservations, call 642-2551.

Music — a large selection of student groups, including the Student Concert Chorale, Student Chamber Singers, Octet, decibeltes, Jazz Ensembles, California Marching Band, and other groups in the Music Department, such as University Chorus, which students may join for academic credit. There are also weekly noon concerts, open free of charge to the general public. For information, or to make telephone reservations, call 642-2551.

Debate — Varsity Debate and individual events, open to both veterans and novices, constitute the Forensics Program of the Berkeley campus. For additional information, contact the Office of Student Activities and Programs, 103 Sproul Hall.

For information about other campus events, please consult the Information Desk in the Student Union.

Special Interest Clubs. Besides regular ASUC-sponsored activities, there are more than 250 registered student organizations on campus serving special interests and abilities. In the spring and fall of each year, an Activities Fair is held in Sproul Plaza to acquaint you with many of the organizations and to give you an opportunity to join.

Academic and professional societies, including clubs organized by many of the schools and departments, as well as national professional fraternities, provide students with an opportunity for seminars, discussions, lectures, tutoring services (both giving and receiving), and communication with members of an academic or professional field. Honorary academic societies are open to students of outstanding scholastic ability. These groups include: Honor Students’ Society; Phi Beta Kappa (a national society of historical renown, open by invitation to the top seniors in nonprofessional fields); Tau Beta Pi (a national society of upper division students in the College of Engineering and in Chemical Engineering); and various other groups within the several disciplines. Most of these groups offer tutoring services.

Hobby and recreational groups abound. And while the University, as a State-supported institution, does not offer chapel services or religious activity on campus, there are more than 50 churches and student religious clubs located within a few blocks of the campus. For additional information, contact the Office of Student Activities and Programs, 103 Sproul Hall.

International House. International House is a coeducational residence and program center for American and foreign students, primarily at the graduate level. Cultural and social events, home hospitality, tours and visits around California are designed to promote better understanding and friendship among all nationalities. For application and further information, write or call International House, University of California, Berkeley, CA 94720; telephone number (area code 415) 642-9470 or 642-9480.
RESEARCH AT BERKELEY

The Berkeley campus is renowned for its programs of faculty and graduate student research, which are conducted within teaching departments and organized research units. In some instances, special departmental laboratories have been established to provide essential services to instruction and research projects.

Organized research units are established and administered separately from the teaching departments. These units are designed to be interdisciplinary in nature and organized around the work of a group of faculty and graduate students whose research interests are more general in nature than can be reasonably encompassed in a single discipline. While the organized research unit aims primarily to support the research of faculty and to assist in graduate student training, public service and in some instances a degree of mission orientation may be appropriate.

Organized research units may bear the designation of Institute, Center, Laboratory, Museum, Station, or other titles, depending on the nature of the activities supported and the organization visualized when a particular unit was established. These units are grouped administratively according to the breadth of interest they represent and may be within the Graduate Division, a School, or a College. Specific administrative groupings are as follows:

School of Business Administration
Center for Research in Management Science
College of Engineering
Earthquake Engineering Research Center
Electronics Research Laboratory
Operations Research Center
Sanitary Engineering Research Laboratory
Sea Grant Consortium Laboratory
Institute of Transportation Studies
College of Environmental Design
Center for Planning and Development Research
Graduate Division
Bodega Marine Laboratory
Institute of Business and Economic Research
Center for Research and Development in Higher Education
Institute of Human Development
Institute of Industrial Relations
Institute of International Studies
Center for Chinese Studies
Center for Latin American Studies
Center for Slavic and East European Studies
Center for Soviet and Southeast Asia Studies
Lawrence Hall of Science
Institute of Race and Community Relations
Space Sciences Laboratory
Survey Research Center
Institute of Urban and Regional Development
Center for Real Estate and Urban Economics
White Mountain Research Station
School of Law
Earl Warren Legal Institute
Center for the Study of Law and Society
College of Letters and Science
Archaeological Research Facility
Field Station for Behavioral Research
Cancer Research Laboratory
Institute of Governmental Studies
Jepson Herbarium
Institute of Human Learning

Lowie Museum of Anthropology
Center for Pure and Applied Mathematics
Museum of Paleontology
Institute of Personality Assessment and Research Laboratory of Radio Astronomy
Seismographic Stations
Museum of Vertebrate Zoology
Virus Laboratory
School of Library and Information Studies
Institute of Library Research
College of Natural Resources
Agricultural Experiment Station
Giannini Foundation
Forest Products Laboratory
Wildland Research Center
International Center of Biological Control
School of Public Health
Naval Biosciences Research Laboratory
Lawrence Berkeley Laboratory
Accelerator Division
Biology and Medicine Division (Donner Laboratory)
Chemical and Nuclear Divisions (Division of Chemical and Nuclear Physics, Computer Science and Mathematics Division
Energy and Environment Division
Materials and Molecular Research Division
Nuclear Science Division
In addition to the officially established organized research units, there are numerous special facilities for the support of faculty and student programs.

GENERAL

The University Press. The University of California Press, located at 2223 Fulton Street, is one of the largest university presses in the country. It publishes scholarly books, books of general interest, about twenty monograph series, a line of quality paperbacks, and nine scholarly journals. Books and paperbacks number about one hundred and fifty each year. The press serves all campuses of the University equally; its publishing program carries the work of the faculty beyond the campuses themselves.

The Alumni Association. For more than 65,000 former students of the University, membership in the California Alumni Association is a means of both keeping in contact with Berkeley and working for the continued welfare of the University. The Association also administers the Alumni Scholarship program, which annually awards more than $250,000 to some 600 deserving undergraduates. (The funds are donated by individual alumni and channeled through the UC Berkeley Foundation.) The Association also sponsors a series of career planning and information seminars and the annual Career Fair and Health Sciences Fair, and maintains a file of Career Information Aides who are available for individual consultations with students. It offers free income tax counseling for students, presents orientation programs for new and prospective students and their parents, and develops summer job leads through the Cal Jobs program.

Among the many benefits enjoyed by Association members are the award-winning publication, California Monthly; free UC library and language laboratory privileges; access to Lair of the Bear and Camp Berkeley summer vacation centers; year-round charter flights and tour programs; and discounts on selected University Press books and on memberships in the University Art Museum and Lawrence Hall of Science. Through its awards program the Association recognizes distinct faculty excellence and outstanding service to the University, its alumni, and the community. The Distinguished Teaching Awards for faculty are also sponsored by the Association. The department is the official campus office maintaining address information for former Berkeley students. A statewide network of Alumni Clubs helps members stay in close touch with the University and with one another. Information on all Association activities, including young alumni club programs, alumni events on Charter Day and Commencement, and special activities is available at the Association's campus headquarters, Alumni House, where students and alumni are always welcome.

Study Abroad for Undergraduate Students.

You have a number of opportunities to earn University credit while studying abroad. The university-wide Education Abroad Program has study centers at the following universities:

Africa
University of Ghana, Legon-Accra
University College, Nairobi
Asia
Chinese University of Hong Kong
International Christian University, Tokyo, Japan
Central America
National Autonomous University of Mexico, Mexico City
Europe
Universities in France: Bordeaux, Grenoble, Marseilles, Montpellier, Paris (Film Program), Pau, Paris, Poitiers
Georg-August University, Goettingen, Germany
University of Dublin, Trinity College, Ireland (a part of The University of London and Ireland program)
University Padua, Italy; Academy of Fine Arts, Venice; G.B. Martin Library, Bologna
University of Bergen, Norway
Universities in Spain: Barcelona, Madrid

State University of Leningrad, USSR
Middle East
Universities in Israel: Haifa, Jerusalem (Hebrew University)
American University of Cairo, Egypt
South America
University of Sao Paulo, Brazil

Requirements for participation are a grade-point average of 3.0 and sufficient language preparation. Nine quarters of Russian are required for U.S. students, and a host language is required for the centers in France, Germany, Mexico, and Spain. Three quarters of the host language or the equivalent are required for Brazil, Israel, Italy, Japan, and Scandinavia (if the student agrees to attend a required summer session immediately prior to the academic year program at additional cost).

The centers in Africa, Egypt, Hong Kong, and the United Kingdom have no language requirements, but appropriate academic preparation is necessary.

Full credit is given for work taken overseas, but it is the student's responsibility to obtain the approval of his department or college for his study plans before departure. Undergraduate programs are intended primarily for juniors, but seniors may also participate. However, seniors should inform themselves of residency requirements and unit limits. University scholarships, loans, and grants may be used to finance the year abroad.

Berkeley also participates in several inter-collegiate, consortium, and special language studies: Rome Classics Program (requiring Latin fluency), Japanese language study in Tokyo, Mandarin Chinese study in Taipei, and Arabic study in Cairo.

Graduate students may study in most of the programs subject to the approval of their advisers and the Graduate Division. One year of graduate study must have been completed prior to the year abroad.
Fees and Expenses

It is extremely important that students carefully consider the total financing of their education, from the entrance quarter to the completion of the degree objective. If financial help will be needed, beyond those funds which the student or the family are able to provide, the student should make the necessary applications for financial assistance well in advance of enrollment. Students should pay particular attention to early deadline dates of application for grants, scholarships, Work-Study and National Direct Student Loans. While the needs and resources of each student differ, the University can provide a general list of fees and expenses normally encountered.

Part of the fees may be refunded to students who cancel their registration prior to the opening day of the quarter or who withdraw before the beginning of the sixth week of classes of any quarter. (See Index, Schedule of Refunds.) A separate circular on refunds, Student Fees and Deposits, is also available. This circular is available from the Office of Admissions and Records, 120 Sproul Hall.

TABLE OF FEES AND EXPENSES

At the time of registration, by mail or in person, the following fees are paid by each student:

<table>
<thead>
<tr>
<th>Student Category</th>
<th>Fall, Winter, or Spring (Quarter 1976-77)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident Graduate</td>
<td>$212.50</td>
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<tr>
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For additional information, contact the Office of Admissions and Records, 120 Sproul Hall.

EXPLANATION OF FEES AND EXPENSES

Required Fees

University Registration Fee — $100 per quarter; $150 per term for students in the School of Law. Paid by all students. Covers normal expected usage of such facilities as laboratories, gymnasium, counseling and placement services, health service, etc.

Educational Fee — Paid by all undergraduates at $100 per quarter, by students in the School of Law at $180 per term, and by all other graduate students at $120 per quarter. Used to support the provision of the cost of the educational program. The Educational Fee may be reduced to $50 for undergraduate students who have received prior approval from the Dean of their College or School to enroll in a program of less than 9 units.

Berkeley Campus Fee — Paid by all students in the amount of $12.50 per quarter and by students in the School of Law in the amount of $18.75 per term. Provides support for a wide range of activities sponsored by the ASUC, including work with academic and administrative units of the campus, covers use of the Student Union, helps pay costs of construction of the Union building, and provides support for extramural studies on the Berkeley campus.

Nonresident Tuition — $635 per quarter; $952.50 per term, School of Law.

Foreign Student Health Insurance — $25.00 per quarter; $37.50 per term, School of Law. Required of all students on nonimmigrant visas. Payment of the fee for three consecutive quarters (two terms in the School of Law) covers the student for the full academic year, including summer.

Additional Fees and Expenses

Late Registration — $25. Students who register during the late registration period (see Calendar for dates) are liable for this fee.

Late Study List Filing — $10. Students who file their Study Lists late (see Calendar for dates) are liable for this fee.

Re-statement — $10.

Subject A Fee — $45. Applies to those who are required to enroll in the Subject A course.

Athletic Privilege Cards — $10. Student Football Season Ticket; $8, Basketball/All Sports Card. Both Optional. Permits free admission or reduced rates to most University athletic events.

Books and Supplies. Approximately $300-$400 per academic year.

Living Expenses. Room and board in living groups will range from $1,500 to $2,500, for the academic year, with an average of about $2,000. Apartment housing (rent, utilities, and food), if shared with others for nine months, will have the same range. If leased for twelve months the cost, of course, will be higher.

Entertainment and Miscellaneous Costs. A student will need to take into account laundry, cleaning, transportation, and other personal expenses which will average from $550-$750 per academic year.

Total Estimated Expenses Per School Year. The following approximates the total budget for three quarters. This estimate is based on fees and expenses for single undergraduate students:

<table>
<thead>
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<th>Amount</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Nonresident Students</td>
<td>$6,000.00</td>
</tr>
</tbody>
</table>

For additional information, contact the Office of Admissions and Records, 120 Sproul Hall.

Colleges and Schools

For purposes of administration and instruction, the University is divided into a number of academic and administrative subdivisions, ranging from departments, colleges, and schools to a variety of research centers and institutes. At Berkeley, there are fifteen major academic subdivisions—the Graduate Division, five colleges, and nine schools:

Colleges

- Chemistry
- Engineering
- Environmental Design
- Letters and Science
- Natural Resources

Schools

- Business Administration
- Education
- Journalism
- Law
- Library and Information Studies
- Optometry
- Public Health
- Public Policy
- Graduate Social Welfare

A college accepts students directly from high school or as transfers from another institution and offers undergraduate instruction, normally as a four-year program, leading to the bachelor's degree; however, departments in all the colleges offer programs of study beyond the bachelor's degree, in conjunction with the Graduate Division. The colleges are designed to provide students with a thorough background in one or more fields of study, and to give them some acquaintance both with allied fields and with general fields of knowledge. Although students may take some courses at the graduate or school, their degree requirements are determined by the dean and faculty of the college in which they are enrolled. The College of Letters and Science emphasizes the study of the general academic areas for their own sake, whereas the other colleges emphasize the study of these areas in relation to applied arts and sciences.

A school normally begins instruction at the upper division or graduate level and is designed to provide a student with training preparatory to a specific profession. The college ensures its students to have acquired before entrance some background in general academic areas. The degrees offered by the schools are accredited by national and regional associations for the various professions, and normally allow the graduating student a direct entry into the field.

Each of the colleges and schools has its own administrative officials and its own regulations for earning degrees, and since all undergraduate students at the University belong either to a college or a school they are expected to satisfy requirements for the degree on three levels: University, college or school, and field of concentration. A broad survey of the colleges and schools and their degree programs is provided in the Courses and Curricula section of this catalog. For further information, see the individual school or college announcements.

Special Programs. The Special Programs provide innovative and interdisciplinary programs of study not within the colleges and schools. Students are encouraged to avail themselves of the courses offered in Special Programs which provide credits directly applicable to a University degree. The Special Programs are established upon a network of interrelationships on the campus among colleges, schools, and departments, and, in certain cases, in conjunction with community groups, other UC campuses, and other universities. A broad survey of the twelve Special Programs currently offered on the Berkeley campus is provided in the Courses and Curricula section of this catalog.