SAN DIEGO STATE COLLEGE

BULLETIN

Circular of Information

ANNOUNCEMENT

OF COURSES

FOR THE YEAR 1945-1946
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<td>February 1</td>
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<td>1:00—2:30 P.M.</td>
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<td>February 4</td>
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**SUMMER SESSION, 1946**

| Term I, June 24—August 2 |
| Term II, August 5-23 |
FUNCTIONS OF THE STATE COLLEGES OF CALIFORNIA

The State Colleges have three major functions, namely, (1) to help the individual student to develop a well-rounded and adjusted personality; (2) to promote civic intelligence and competence; and (3) to create suitable opportunities for residents to become active and responsible members of the community. These functions are achieved in the elementary and secondary schools, some in higher education, and the extension service.

The higher education function is achieved through the State Colleges and the University together. They make provision for the realization of the all the essential objectives of higher education in our State.

To achieve their unique purposes the State Colleges have developed and are improving offerings as follows:

1. Teacher education programs for those students who plan to teach in the elementary school, the junior high school, and in the special fields of education.
2. Professional programs.
3. Curricula of varying lengths in such fields as business, industry, governmental, and public service.
4. Guidance services to assist the individual student to plan his educational program and to make his college and life adjustments.
5. Extension service in appropriate fields.

The State Colleges accept the principle that higher education should be available to all capable high school graduates. The preservation and improvement of democracy leadership resources. In keeping with this principle the State Colleges maintain the potential capacity and his potential contribution and not in terms of past academic pattern or accomplishment alone.

The State Colleges purposely maintain not only flexible entrance requirements, but also, appropriate curricula, and adequate and effective guidance and counseling services to promote the personal and educational development of worthy students. The State Colleges modify traditional academic restrictions and provide new curricula and desirable needs of individuals and society.

The promotion of civic intelligence and competence is the underlying aim of all activities on State College campuses. Special emphasis centers on warm personal relations and the day-to-day routine of living in a community. Because the campus is close to home, it is possible to link the college, the home, and the community in realistic democratic relationships.

The democratic controls exercised over the State Colleges make them readily and continuously to make significant improvements in both curriculum and personal services. State Colleges are thus laboratories in which the facts and theories developed in the instructional program are reflected in the educational services.

The State Colleges plan their program of higher education so as to provide educational services inherent in the principle of equality of opportunity.

THE COLLEGE

Location and Environment

Renowned as a winter resort with a mild and invigorating climate, San Diego has become equally famous for its cool summers. High cultural standards in art, music, literature, and science create a stimulating environment for a college. Many of these advantages are to be found in the heritage resulting from the explorations of 1542 and 1543-45, including the buildings themselves, which portray the best types of Spanish colonial art and architecture. Housed in these buildings are the Fine Arts Gallery, exhibits in Counting, natural history, and American archaeology, which are in many respects unsurpassed. The outdoor areas of the East, Balboa Park, in which all these facilities are located, world renowned. The Scripps Institute of Oceanography, operated by the University of California at La Jolla, gives opportunity for important cooperation in the biological sciences.

Buildings and Equipment

On February 2, 1931, the college was moved to the new campus, located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The buildings are of Spanish Moorish architecture which is well suited to the climate of this region. They include the Academic Building (which houses lecture halls, classrooms and administrative offices); the Science Building; the Library, the Little Theater; the Music Building; the Campus Elementary School; the Physical Education Building (a structure with adequate facilities for both men and women). The gymnasium contains a very fine basketball floor with stands that will accommodate 1500 spectators. The fine concrete stadium, constructed in a natural site, has a seating capacity that is adequate for present needs. The open-air theater, seating 4200 persons, serves as a meeting place for large groups.

Facilities for the Education of Teachers

The college maintains a modern elementary school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan which calls for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching. By arrangement with the San Diego City Schools, directed teaching is provided in the Euclid elementary school for one-half day throughout a semester. A similar arrangement exists at the Woodrow Wilson Junior High School for students who are preparing to teach junior high and special secondary school subjects. Students preparing to teach only special secondary school subjects may be assigned to one of the senior high schools.

The Library

The library facilities of this college are noteworthy for an institution of its size. The library has a collection of well over 80,000 volumes. The library is a members of the State Library of Natural History. The Campus Elementary School Library, representing a collection of 11,000 volumes, possesses equipment and building facilities that are unique.
Living Accommodations
The college does not maintain dormitories since nearly all of the students live with parents or guardians. Living arrangements for students whose homes are not in San Diego or within commuting distance are made through the offices of the Dean of Women or the Dean of Men. All women students are urged to live in the residence hall adjoining the campus. Careful consideration is given to study conditions, healthful living, and adequate social opportunities. Room and board may be secured for approximately $200 per semester, payable in four installments. Opportunities to reduce this figure by working a few hours each week are occasionally available. Reservations should be made in advance through the Manager of Housing at 5162 College Avenue, San Diego 8, California. Where students find other accommodations more desirable, written permission from parents must be secured and filed with the Dean of Women or Dean of Men.

Student Life
A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to select these activities carefully in order that he may profit by those extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at the time of registration, gives information concerning activities which include organizations in every department of the college, and opportunities for individual and group experience in the social, athletic, fraternal, religious and governmental life of the campus.

Student Health Service
The Health Department is maintained for the protection and care of student health. A complete physical examination is required of each student upon admission to college. Careful attention is given to cases undergoing remedial treatment or to cases in which a modification of study load or in the amount of participation in physical activities seem advisable.

A representative of the Health Department is available at any time for consultation and emergency treatment. Students who have been absent because of illness should receive clearance from the Health Department before returning to classes.

A group plan for accident insurance is in operation for students who desire to participate.

Placement Service
A Placement Office is maintained by the college, which serves as a clearing house for part-time and full-time jobs. Employers notify this office of available openings in their organizations, and also turn to the office for information concerning graduates or non-graduates whom they are considering for employment.

Included in the services of the office are the listing of part-time jobs of all types available, including opportunities to work for board and room, teacher placement, and full-time jobs in commerce and industry.

This service is free to students, who are invited to arrange for interviews with members of the placement staff if in need of assistance in finding work. Students who know of jobs in which they are not themselves interested are encouraged to notify the office of such vacancies.

The Placement Secretary should be seen or called regarding vacancies or work applications.

Vocational Rehabilitation Service
The Bureau of Vocational Rehabilitation, California State Department of Education, offers its service to students who have an employment handicap resulting from physical disability of any kind. Included are vocational counseling, the payment of tuition and fees, and the providing of textbooks without charge to the trainee. Details of the service may be obtained from the Dean of the College of Liberal Arts.

FEES AND EXPENSES

Probable Expenses for One Semester
An estimate of the expense of attendance for one semester is given below. No estimate is made as to the cost of clothing, or other personal items, since these figures vary with the demands of the individual. Laboratory fees are additional.

A Partial Estimate of Expenses

<table>
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<th>One Semester</th>
<th>Minimum</th>
<th>Maximum</th>
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<tbody>
<tr>
<td>Fees and Deposits</td>
<td>$20.00</td>
<td>$27.50</td>
</tr>
<tr>
<td>Books</td>
<td>12.00</td>
<td>20.00</td>
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<tr>
<td>Board and Room</td>
<td>200.00</td>
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<tr>
<td>Incidentally:</td>
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<td></td>
</tr>
<tr>
<td>Transportation</td>
<td>10.00</td>
<td>20.00</td>
</tr>
<tr>
<td>Lunches (daily in caf.)</td>
<td>35.00</td>
<td>50.00</td>
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<tr>
<td>Organizations:</td>
<td>Average</td>
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<tr>
<td>Fraternity</td>
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<tr>
<td>Initiation and prop.</td>
<td>$10.50</td>
<td>$7.50</td>
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<tr>
<td>Dues and Assessments</td>
<td>5.50</td>
<td>$25.00</td>
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<tr>
<td>Sorority</td>
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<tr>
<td>Initiation and prop.</td>
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<td>16.75</td>
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<tr>
<td>Miscellaneous</td>
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</table>

Before enrolling in college, the student should possess sufficient resources to meet the minimum expenses for one semester. A limited amount of clerical work in offices and in the library may be offered from time to time, but ordinarily it is not sufficiently remunerative to reduce expenses materially.

List of Fees and Deposits (Subject to Revision)

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By all students:

<table>
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<th>Tuition:</th>
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<tbody>
<tr>
<td>Regular students (carrying over 5 units)</td>
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<td>Limited students (carrying 5 units or less) per unit</td>
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<td>Materials and service:</td>
</tr>
<tr>
<td>Regular students</td>
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<tr>
<td>Limited students per unit</td>
</tr>
<tr>
<td>General service deposit (unexpended portion is refunded)</td>
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<tr>
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</tr>
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</tr>
<tr>
<td>Student activity fees:</td>
</tr>
<tr>
<td>Regular students</td>
</tr>
<tr>
<td>Limited students</td>
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Auditors pay same fees as students enrolled for credit.

* Not required by the State.
MISCELLANEOUS FEES AND DEPOSITS

DEPOSITS PAYABLE BEFORE LABORATORY WORK IS STARTED

<table>
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<td>Geology 21A-21B</td>
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FEES PAYABLE WHEN SERVICE IS RENDERED

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<th>Fee</th>
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<tr>
<td>Change of program</td>
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<tr>
<td>College Bulletin (free to prospective students)</td>
<td>20</td>
</tr>
<tr>
<td>Duplicate library card</td>
<td>10</td>
</tr>
<tr>
<td>Duplicate registration book</td>
<td>10</td>
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<tr>
<td>Evaluation of records for advanced standing</td>
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<tr>
<td>Fundamentals test</td>
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<tr>
<td>Late filing of registration book</td>
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<td>Late registration</td>
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GRADUATION FEES

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<td>Kindergarten-Primary</td>
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<td>General elementary</td>
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<td>General Junior High</td>
<td></td>
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<tr>
<td>Special secondary</td>
<td></td>
</tr>
<tr>
<td>School administration</td>
<td></td>
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<tr>
<td>Diploma</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

The credential fee is collected through the college by cashier's check or post office money order made payable to the State Department of Education.

* Paid by all students entering with advanced standing.

** The 50-cent fee must accompany each application for a transcript of record. Ten cents will be charged for each duplicate or this record which accompanies the original.

ADMISSION AND REGISTRATION

General Admission Requirements

High school graduates and other applicants possessing equivalent preparation may be admitted to this college upon evidence of fitness to profit by college instruction, such fitness to be shown by previous scholastic records, by evidence of good moral character and personal qualifications, and by satisfactory scores on tests which the college may require.

Admission of High School Graduates.  (1) A high school transcript must be presented showing satisfactory scholarship, and (2) applicants must demonstrate readiness for college instruction by making satisfactory scores on such tests as the college may designate.

Students will be granted regular status if they have earned recommended grades in not less than 12 semester courses in the above subjects.  The student will attain full regular status at the end of the first semester in college if a scholarship average of C or better is maintained in at least 12 units of work.  Failure to secure a C average will disqualify the student for further attendance.

Students who do not qualify for regular (provisional) status may enroll in one of the two-year curricula if they have earned recommended grades in at least 12 semester courses during the tenth, eleventh, and twelfth years in high school.  Individuals who fall slightly below this standard may be admitted to the two-year curricula if qualifying examination scores indicate probable success in these courses.

Admission by Examination. Certificates of successful examination before the College Entrance Examination Board will be accepted when candidates can not meet the above scholarship requirements.

Admission With Advanced Standing. Credit earned in recognized institutions of collegiate grade will be evaluated and advanced standing allowed accordingly toward the graduation requirements of this institution.  Applicants must show an average grade of C or better for all college work, for the last college attended, and for the last semester of attendance in order to qualify for regular status.  A student who enters with advanced standing is one who has completed at least 15 units of passing work in another collegiate institution.  However, no applicant may disregard his collegiate record and apply for admission only on a basis of his high school work.  Not more than 64 semester hours of junior college work may be allowed for credit.

Students seeking admission with advanced standing must furnish complete transcripts for all work attempted beyond the eighth grade.  A $2 evaluation deposit must accompany the application for admission.  This deposit will be refunded if the student enrolls at the next regular registration period.

Special Students. Persons over 21 years of age may be admitted on the basis of maturity, provided they present satisfactory evidence of good character and intelligence.  Full matriculation will be granted only upon removal of all entrance deficiencies, and the completion of a full semester of satisfactory college work.

Auditors. Properly qualified persons may apply for admission to attend classes as auditors.  Such students pay the same fees as those who take equivalent work for credit.

* Grades of A or B.
GENERAL REGULATIONS

Officers for Consultation
Concerning the housing and living arrangements of students, personal problems, etc.—The Dean of Women; The Dean of Men.
Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.
Concerning study lists and personal problems of two-year students—Director of Guidance for Two-Year Students.
Concerning admission, program of studies, credits, degree requirements, etc.—The Registrar; The Dean of Liberal Arts; The Dean of Education.
Concerning health and physical condition—The Health Department.
Concerning student-body affairs, student-body policy—The executive officers of the student body, The Dean of Liberal Arts.
Concerning appointments to teaching positions and other types of full and part time employment—The Placement Secretary.
Concerning admission to Teacher Education Curriculum, directed teaching, credential requirements, etc.—The Dean of Education.
Concerning use of the buildings—The Dean of Women; The Dean of Men.
Concerning entrance requirements and offerings at other institutions—The Registrar; The Dean of Liberal Arts; The Dean of Education.

Classification
Full time Students are those who are registered in more than 5 units of work. They are expected to carry a minimum of 12 units unless excused.
Limited Students are those who, for acceptable reasons, have been permitted to register for 5 or fewer units of work.
Adult Special Students are mature students who have not satisfied all entrance requirements, but who have been permitted to register for such courses as their ability and preparation justify. Special students may also be limited students.
Regular Students are those who are qualified to enroll in curricula leading to the Bachelor of Arts degree.
Regular-provisional Students are those whose high school records are slightly deficient in recommended grades. They are permitted to enroll on trial for one semester in a regular curriculum. If they make a C average in 12 or more units they automatically attain regular status.
Two-Year Students are those who do not qualify for regular status because of deficiencies in high school scholarship, but who have been permitted to enroll in an advanced curriculum. These students are not permitted to enroll in courses applying regularly toward the Bachelor of Arts degree except by permission of their advisor until they have earned regular status through satisfactory scholarship.
Class. Students who have completed 0 to 29 units of work are classified as freshmen; 30 to 50 units as sophomores; 50 to 80 units as juniors; and 90 or more as seniors.

Scholarship, Grades, and Grade Points
The following grades are used in reporting the standing of students at the end of each semester: A, excellent; B, good; C, fair; D, passed; E, conditioned; F, failed; I, incomplete; and W, withdrawn.
The grade E is recorded for work which is of low order but which may be made passable. If the work is raised to passing level by the close of the next semester, the grade is changed to D; otherwise it is changed automatically to F.
The grade I is recorded for work of high order but which is incomplete for an acceptable reason. To change an I to another grade, the work must be completed within the next semester; otherwise it is changed to F.

Grade points are assigned as follows: Grade A, 3 points per unit; B, 2 points per unit; C, 1 point per unit; D, no points; E, minus 1 point per unit; F, minus 1 point per unit. The number of grade points a student has earned in a subject is determined by multiplying the number of points he has received by the number of units allowed. The grade point average is determined by dividing the grade points earned by the number of units attempted. Courses in which the student received an I or a Cr. or W are disregarded in computing grade point averages. A student must earn at least a C average in all work undertaken at the college to qualify for a diploma or a transcript of record with recommendation to another collegiate institution.

Units of Work, and Study Lists Limits

A unit of credit represents one hour of lecture or recitation combined with two hours of practical work per week through one semester, or three hours of laboratory or field work in the case of laboratory credit.

Students are not ordinarily permitted to enroll for more than 16 units* for credit toward graduation. This constitutes a normal semester's program. Certain exceptions to this rule exist. If during the preceding semester the student has carried at least 12 units*, (1) if a grade point average of at least 1.5 was earned, 17 units* may be carried for credit toward graduation, and (2) if a grade point average of 2.0 (B) was earned, 18 units* may be carried.

Any course in which a passing grade is earned may be used in satisfying pattern requirements, even though credit for the course is in excess of the units which may be credited for graduation.

Exceptions to the above regulations may be secured only through a petition to the Scholarship Committee.

No student may register for less than 12 units without the approval of the Dean of Liberal Arts or the Dean of Education.

Probation and Disqualification

Probation. Any student whose scholarship record shows a cumulative deficit of 12 or more grade points below a C average for all work undertaken in the college will be placed on probation. A limited student will be placed on probation if his cumulative deficit below a C average equals or exceeds the average number of units carried per semester. Probationary status may be continued provided that the student does not add further toward his grade point deficiency.

Disqualification. Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. A scholarship record below a D average for any single semester also disqualifies a student.

A disqualified student may be reinstated after an interval of one semester for reasons satisfactory to the Executive Committee of the Faculty. All applications for reinstatement must be in writing.

Withdrawals from Class

Forms for withdrawal from class may be obtained at the Registrar's office. If a student withdraws from a class during the first seven weeks of a semester, a grade of W will be recorded upon his permanent record for each class which he has dropped. If he withdraws during the remainder of the semester, either an I or a W will be recorded unless a grade of W is approved by the instructor and the proper dean. A grade of I automatically becomes an F unless the work is completed by the end of the next semester.

Students who withdraw from all classes during a semester must petition the Admissions Committee for reenrollment.

* In addition to required physical education courses.

Transcripts of Record

Students may secure one transcript of record without fee. Thereafter, each request for transcript should be accompanied by the fee of fifty cents. Once a student has matriculated in this college, transcripts from other schools will not be returned, or copies of them made. No fees are charged for transcripts required for military purposes.

Transcripts in the possession of students are to be regarded as unofficial records.

Eligibility for Directed Teaching

No student shall be eligible for directed teaching (Education 110) who has not completed 75 units, been admitted to Teacher Education, and whose entire record, as well as his record for the preceding semester, does not average at least a 1.2 grade.

The Honors Group

All students who at the end of the Sophomore year have attained a grade-point average of 2.6, and such others as have attained a high average in the department in which their Major is selected, and who have received the recommendation of that department and the consent of the Committee on Honors, may if they so elect, constitute an honors group, for special treatment in their Major subject.

Such students, so far as the facilities of the department and the best interests of the students under its charge allow, shall be treated as better their individual needs and as their individual capacities warrant. They shall be eligible to enroll in honors or special study courses, although credit in such courses shall be limited to 6 units a semester. Students in the honors group shall not be held to regular attendance in the class or classes of their departments if, in the opinion of the instructor, the course requirements can be met through special assignments and examinations or by satisfactory performance in the regular examinations in the course. With the consent of the dean, requirements concerning minors and specific courses or sequences in the major may be set aside. Each honor student shall be assigned to a member of his Major department for advice and direction.

Students in the honors group who fail to take advantage of the opportunities there offered may at the end of any semester be transferred by the department to the general course. Students in the general course who show unusual aptitude, upon recommendation of the department and the Committee on Honors, may at the end of any semester, be transferred to the honors group if such transfer appears practicable.

Students who wish to apply for entrance in the Honors Group may so by filling out cards to be obtained from their major departments. The applications should be filed with the chairman of the major department not later than a week after registration opens. Units earned by students doing individual study under this plan will be recorded under the symbol 106 and will be subject to the formulated rules dealing with limitations of student load.

The Degree with Honors and with Distinction

Upon recommendation of the Committee on Honors, graduation with honors shall be granted to the upper 30 per cent of the graduating class. Each department shall determine which students it will recommend for Distinction in the major field at graduation, and report its recommendation to the Committee on Honors for transmission to the faculty.

Examinations

No final examinations shall be given to individual students before the regular time.

Any student who finds it impossible to take a final examination on the date scheduled must make arrangements with the instructor to have an incomplete grade reported and must take the deferred final examination not later than the end of the first semester following that in which the incomplete was given. No exceptions shall be
made to this rule without the approval of an academic dean and the instructor concerned.

All final examinations shall be written in official examination books or other forms which shall be furnished by the college and distributed by the instructor at the beginning of the examination period. No books or papers of any kind shall be brought into the examination room, except by special order of the instructor.

Extension Courses

An extension program covering a wide range of offerings is made available each semester. Members of the regular college faculty and others expert in special fields instruct extension classes. The extension program is designed to serve the needs of San Diego and neighboring communities for courses on the college level that are not available on the campus, or that should be offered at times and places more convenient to special groups. Extension courses are considered the equivalent of campus courses and the amount of credit available to any one student in one semester through extension courses or a combination of campus and extension courses is subject to the same study-load limitations that apply to students regularly enrolled for campus courses. Fees for extension courses vary somewhat with the place where the instruction is offered, but will not exceed $6 per unit for the year 1944-1945.

Information concerning extension offerings may be obtained on application to the Director of Extension Service.

The amount of credit for extension and correspondence courses acceptable in fulfillment of the requirements for the Bachelor of Arts degree will depend upon the nature of the courses, the quality of the work done, and the student's preparation for work in the field of the course. The college reserves the right to limit credit to such courses as have been approved, and the total of such acceptable credit to 12 units.

THE BACHELOR OF ARTS DEGREE

General Requirements for the Bachelor of Arts Degree

San Diego State College offers the following types of curricula leading to the A.B. degree: (1) the curricula leading to the California teaching credentials, and (2) the Liberal Arts curricula. With slight variations in definition, many of the basic requirements are the same.

A minimum of 120 units of college work, representing a four-year course, is required for the Bachelor of Arts degree. At least 30 units must be earned in this college, and not less than 24 of these residence units must ordinarily be taken with the rank of junior. Not fewer than 12 units of this work must be completed during a single semester, or in lieu of this at least 36 units must be completed in not less than two consecutive summer sessions. At least a C average in scholarship must be maintained in the major and in all work applied toward the degree.

Credit Granted for Military Service. Six units of elective credit will be granted to students who have enlisted in the armed services of this country upon the completion of the prescribed basic training program. Documentary evidence bearing the signature of the proper commanding officer must be filed before credit will be accorded to the student.

Nine additional units of credit will be granted to students who can document the fact that they have completed officer's training, have been granted a commission, and have been assigned to active military duty.

Requirements for Degree May Be Completed in Three Years. Although no reduction in course requirements or standards of work are contemplated, provision has been made whereby students may complete what normally constituted a four-year program in three years. Students may secure further information upon this point by addressing inquiries to the Registrar's Office.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics LA and LB, 4 units, or high school algebra and geometry</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>12</td>
</tr>
<tr>
<td>**Year-course in foreign language or in mathematics, or in philosophy.</td>
<td>12</td>
</tr>
<tr>
<td>(This year-course is an additional requirement to those listed above)</td>
<td>6</td>
</tr>
<tr>
<td>Electives to make total of 60 units.¹</td>
<td></td>
</tr>
<tr>
<td>**Not required in the teacher education and general engineering curricula.</td>
<td></td>
</tr>
<tr>
<td>**Not required in the teacher education curricula.</td>
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</tbody>
</table>

¹Electives should include lower division preparation for the major. See pages 14-15. Requirements for the minor may be partially satisfied in the lower division. See page 19.

2--1523 (17)
Explanation of Lower Division Requirements

**English.** This requirement may be satisfied either in the freshman year or in the sophomore year. Courses are to be chosen from the following: English 1A, 1B, or 11A, 1B or 2A, 2B, 2C, 2D, 2E, 2F, 2G, 50A, 50B, 52A, 52B, 56A, 56B.

**Psychology.** Psychology 1A.

**Foreign Languages.** At least 10 units in one foreign language are required in the lower division except that no language is required in teacher education and engineering. No degree credit is given for only the beginning college semester of a foreign language.

**HIGH SCHOOL COURSES**

The foreign language requirement may be met in part or in whole by high school work completed with grade of C or better, each year course being counted in satisfaction of 3 units of this requirement. Three years of foreign language in high school will satisfy the college requirement in foreign language. No foreign language credit is given for only one year of a high school course unless the course is given for the better course or unless the course completed with C grade is continued in college. If two or more years have elapsed since the completion of a high school course in any foreign language the final year of the course may be repeated for college degree credit but not for additional credit in meeting the language requirement.

**Social Sciences.** Twelve lower division units chosen from two or more departments are required in this field. All students must present credit for Social Science 1A or for an acceptable equivalent.

Additional lower division courses to meet the social science requirement must be chosen from the following list and must include one of the year courses marked with an asterisk:
- Anthropology 1A-1B*,
- 54, 55,
- Economics 1A-1B*,
- 18A-18B,
- Geography 2 or 10 B
- History 1A-1B*,
- 5A-5B*,
- Political Science 1A-1B*,
- 71A-71B*,
- Social Science 1B,
- Sociology 50A-50B*.

**HIGH SCHOOL COURSES**

Two semesters of fourth year high school courses in the fields of history, political science, sociology, and economics taken with grades of B or better may be used in satisfying 3 units of the social science requirement.

**Natural Sciences.** Twelve lower division units chosen from courses representing each of the following groups are required:

(a) Biology 1 or a year course in high school or college biology, botany, physics or zoology.

(b) Physical Science 1A or 1B or a year course in high school or college chemistry or physics.

(c) Lower division courses to meet the natural science requirement must be taken from the following lists and must include one of the course or high school laboratory courses marked with an asterisk:
- Astronomy 1, 2, 9
- Bacteriology 1*
- Biology 1, 10A-10B*
- Botany 2A, 2B, 4
- Chemistry 1A, 1B, 2A-2B*
- 7-8*
- Geography 1 or 3 (only one course may be counted toward requirement)
- Geology 1A, 1B, 2A, 2B
- Physiology 1A, 1B

**HIGH SCHOOL COURSES**

A minimum of one year (3 units) of courses in botany, chemistry, physics, physiology, zoology, and advanced biology taken in the senior year with grades not lower than B may be used in satisfying the 12 unit natural science requirement.

**Mathematics.** High school elementary algebra and high school plane geometry completed with at least C grades or a year course in Mathematics 1A-1B.

*1. Teacher education students should follow carefully the curricular outlines to meet specific course requirements in this field.

Additional Year Courses. In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups by all except teacher education students.

- **Modern foreign language:** any two consecutive college courses, or any two consecutive high school year courses.
- **Latin:** Two years of high school courses in Latin.
- **Mathematics:** 0, or D, or equivalent, and either 1, 3A, or 8. Students who have completed the Commerce major may take Mathematics C, or equivalent, and Economics 2.
- **Philosophy:** 3A-3B, 5A-5B.

**Lower Division Preparation for the Minor.** See description of requirements for liberal arts minors on page 20 and for teaching minors on page 22.

**Lower Division Preparation for the Major.** See description of requirements for teaching majors on page 21. Specific requirements for the majors in the liberal arts curricula are listed in connection with the descriptive list of courses in each major field (see pages 54-115).

**Limited Electives**

A total of not more than 12 units of limited and vocational courses listed below will be counted toward the A.B. degree in Liberal Arts (for limitation in Teacher Education see page 24). Courses in education are included in this list principally because the major emphasis in the liberal arts program is non-professional and non-technical.

- Art 17, 14A, 160A, 165B
- Education, all courses except those listed as available for credit toward the major (see Education minor on page 20)
- English 1A, 11A, 18
- Health Education 1151
- Journalism 155A, 155B, 155A, 155B
- Library Science 110
- Mathematics 1A, 1B
- Merchandising, all courses
- Physical Education, all courses beyond the requirements specified in the curricular patterns except 30, 51, 110
- Secretarial training, all courses
- All courses numbered L40 and L45 if grade is below B.
Specific Upper Division Requirements for the Liberal Arts Curricula

The liberal arts curricula lead to the bachelor of arts degree with majors in art, chemistry, commerce, economics, English, general engineering, geography, history, mathematics, music, physical science, physics, Romance languages, social sciences, speech arts, and zoology and qualify for graduate work in these fields in recognized American colleges and universities. Completion of the requirements of these curricula also enables the graduate to satisfy undergraduate requirements for the general secondary credential which, with graduate work, will enable the holder to teach in a senior high school or junior college.

UPPER DIVISION

Subject Matter Requirements

Political Science 101 ........................................................................................................ 2 units
Minor (minimum in upper division courses) ................................................................ 6 units
Major (upper division courses) ................................................................................... 24 units

At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101. Political Science 112 or 175A-175B or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minor. Minors must be established in one of the following fields: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, journalism, mathematics, music, philosophy, physics, political science, psychology, sociology, speech arts, and zoology.

A minor consists of at least 12 units of work completed in one of the above fields of study. At least 6 of these units must be earned in upper division courses during junior or senior years. The entire requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. Prerequisites for each course are listed among the course descriptions on pages 54 to 116.

Minor in Education. A student who desires to satisfy the undergraduate requirements for the general secondary teaching credential will minor in education. He should include in his program a major in a subject or field of subjects usually taught in high school and a minor in the field of education. In order to conform to the usual university requirements, this minor should include Education 120, 121A, 121B (or Education 102A, 102B), and Education 115A or 115B. Consultation with the Dean of Education or the Dean of Liberal Arts is recommended.

Majors. The specific requirements for each major are listed at the beginning of each departmental division among the description of courses. (See pages 54 to 113.) The fact that he may be able to plan his work according to the major requirements. Failure to meet the lower division requirements of the major department before the junior year period of two years.

Professional and Preprofessional Courses. See pages 37 to 48.

The General Major

The general liberal arts major of 36 upper division units must be chosen from three departments with not more than 15 units from any one department allowed. This comprehensive major may be arranged to include minor requirements.

The general major is planned for students who are preparing for law, journalism, library work, or for any other vocation requiring a background of general training, present satisfactory reasons for not specializing in any field. When the general major program of the student should be planned in consultation with the Dean of Liberal Arts approved, revised, or rejected by the chairman of the departments represented in the major.

Specific Upper Division Requirements for the Teacher Education Curricula

Admission to the Teacher Education Curricula. Admission to the college does not imply that the student will be admitted to the teacher education curriculum. No student desiring to enroll in the teacher education curriculum may enroll in an upper division course in education before being admitted to teacher education. Permission to this rule may be by the written approval of the Dean of Education. Students who have had regular attendance at the college should make application for admission to the teacher education curriculum during the first semester of their sophomore year. The preliminary requirements which must be met before admission to teacher education curricula are:

1. A satisfactory score in a college aptitude test taken at the college. (See college calendar for date of test.)

2. Evidence of satisfactory ability in arithmetic, handwriting, reading and spelling indicated by having passed the fundamentals test. (See college calendar for date of test.)

3. Assurance of correct speech habits and voice control by having satisfactorily completed a course in corrective speech or by having passed a speech test given by the college.

4. Assurance of physical fitness by having passed a prescribed examination given by one of the college physicians.

5. If the student is to be a candidate for one of the special secondary credentials, he must furnish a recommendation from the chairman of that department stating that the student has ability and shows promise of teaching success in his field and that the department looks with favor upon his application.

6. The completion of the first two years or more of a given curriculum, or its equivalent, with a grade point average of 1.2 or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the teacher education curricula he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee gives careful consideration to the following factors established by the State Board of Education: intelligence, scholarship, professional aptitude, personality and character, speech and language usage, and many-sided interests.

Transfer Students. Students who have completed two or more semesters of work in another college, upon transferring to San Diego State College, should make application for admission to teacher education as soon as they enroll in the college. It will be advisable for transfer students to present themselves for the necessary tests given during the orientation period preceding enrollment in the college.

Advanced Standing in Teacher Education. A maximum of 18 units in courses in education will be credited toward degree requirements in case such work was taken more than five years before entering upon the degree curriculum at this college (date of first work taken after an evaluation of record has been made, for students entering with advanced standing).

After an interval of five years, evaluations are subject to revision in the light of such new requirements as may have been put into effect and with respect to deduction in credit in education courses.

Students formerly in attendance will not be considered to be working in the degree curriculum until an evaluation and statement of credit has been secured from the Registrar's office. All courses taken either at this college or elsewhere must be approved by an official adviser or the Assistant Registrar (in those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major Defined. A teaching major consists of a minimum of 24 units in a field other than education, at least 12 of which must be in the upper division. A C

requirements for teacher education curricula
average in scholarship is required in all upper division courses in the field of the teaching major. A major for a special secondary credential varies from 24 to 40 units as specified in the requirements for the various curricula. Teaching majors may be established in the following fields: English, foreign languages, general sciences, mathematics and social sciences (anthropology, economics, geography, history, political science, sociology) and in the special secondary credential fields of art, business education, music, physical education, and speech arts.

Teaching Major in English. Candidates for the teaching major in the field of English are expected to show credit in English 1B or 1C and 9 elective units of lower division work and in 12 units of upper division work. This credit must include 3 units in American Literature (either lower or upper division) and 3 units in Shakespeare. Recommended: English 2D and 112.

Teaching Major in General Science. Candidates for a teaching major in the field of general science are required to include a college year course in a biological science, a year course in high school or college physics and a concentration of 12 units, at least 6 of which are upper division, in one major subject (botany, chemistry, physics, zoology). See definition of teaching majors.

Teaching Major in Social Science. Candidates for a teaching major in the field of the social sciences are required to include in their programs a year course in modern American history and a concentration of 12 units, at least 6 of which are upper division, in one major subject (anthropology, economics, geography, history, political science, applied to the teaching major in the field of the social sciences; Economics 1A-1B, 18A-18B, 140, 140A, 160B, 161, 162, 163, 164, 165; and all courses in merchandising.

Teaching Minor Defined. A teaching minor consists of 12 units in a given field, at least 6 of which must be in upper division courses. Teaching minors may be established in the following fields: art, business education, English, foreign language, general science, mathematics, music, social sciences (anthropology, economics, geography, history, political science, sociology, physical education, and speech arts.

Teaching Minor in English. Candidates for the teaching minor in English must show credit in English 1D and 8 elective units of lower division work; and in 6 elective units in upper division English. This credit must include 3 units in American Literature, not taken in either lower division or upper division. Credit in English and speech arts are not to be used to fulfill the requirements for the English minor. Recommended: English 2D.

Teaching Minor in Music. Candidates for the teaching minor in music are required to take music aptitude tests at the time the minor is chosen and to enroll in at least one music activity each semester. In special cases this requirement may be waived by petition to the Music Department.

Applicants for music minors must maintain a grade average of C in all music courses. To Music 11A and 11C, required for the elementary credential, the following 12 for course sequences, 8 units may be chosen from the following courses: Music 1B-1C, upper division, not less than 6 units may be chosen from the following courses: Music 105A-105B; 106A; 107A; 116; 117; 118; Aesthetics 1A-1B. In the 105A-105B, 106A; 107A; 116; 117; 118; 120A; 121A; Aesthetics 102A-102B.


Major and Minor Credential Requirements

1. Kindergarten-Primary Credential: Two teaching minors are required.

2. The general elementary school credential: Two teaching minors are required.

3. The general junior high school credential: A teaching major and a teaching minor in subjects taught in a high school are required. The combination of a special secondary credential with the junior high school credential requires the completion of another teaching major that is required for a special secondary credential; the units required for this additional major may be included in the 12 additional units required for the second credential.

4. A special secondary credential: The completion of the major in the special subject field (see detailed outlines of curricular patterns for credentials) and a teaching minor are required.

5. Credit limitations: A maximum of 40 units of credit in one subject matter field may be applied toward the requirements for the A.B. degree.

Preparation for Graduate Work. Students who take the A.B. degree with a special credential and who contemplate doing graduate work for a master's degree in an academic field at another institution of higher learning, will find it advantageous to use their electives to lay a foundation for that work. A student who plans to do graduate work in the field of his major is advised to so arrange his electives as to complete the equivalent of the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Political Science. The course in Political Science 101 or its equivalent is required of all graduates of the college or those securing teaching credential through the college. The following courses are accepted as electives: Political Science 113 or 170A-170B; History 171A-171B or 173A-173B.

Upper Division Course Requirement. At least 40 units in upper division courses must be completed, 30 of which must be earned after all lower division requirements have been satisfied.

Teacher Education Curriculum and Teaching Credentials. The college offers curricula leading to the A.B. degree with authorization to recommend candidates for the following teaching credentials:

1. Kindergarten-Primary Credential authorizing the holder to teach in the kindergarten and in grades one, two and three of any elementary school in California.

2. General Elementary School Credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.

3. General Junior High School Credential authorizing the holder to teach any or all subjects in the seventh, eighth, and ninth grades of any elementary or secondary school in California. It will be advantageous to the student to secure this credential in combination with the elementary school credential, one of the special secondary credentials, or in combination with additional course requirements in the teaching major and in education as a preparation for graduate work for the general secondary credential. Candidates for the latter type of combination should consult the Dean of Education regarding requirements.

4. Special Secondary Credential in Art authorizing the holder to teach art subjects in any grade of the public schools of California.

5. Special Secondary Credential in Business Education authorizing the holder to teach commercial subjects in any grade of the public schools of California.

6. Special Secondary Credential in Music authorizing the holder to teach music in any grade of the public schools of California.

7. Special Secondary Credential in Physical Education authorizing the holder to teach physical education in any grade of the public schools of California.
### CURRICULA LEADING TO TEACHING CREDENTIALS

**Curricula Leading to Teaching Credentials**

All candidates in teacher education curricula should consult the requirements for admission to teacher education and be prepared to meet them at the end of the sophomore year. Students in other colleges who contemplate transferring to San Diego State College should arrange their programs so as to meet the requirements of their particular curriculum as early as possible. See college calendar for dates when the fundamentals test will be given. See page 21 in this bulletin for requirements for admission to teacher training.

#### A.B. Degree with Kindergarten-Primary Credential

**Two teaching minors are required. See statement on page 22**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Units</th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td></td>
<td>Art 6A, Structure</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biology 10B, General Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education, Sophomore Activities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
<td></td>
<td>Art 6B, Structure</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Speech Arts 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physical Education, Sophomore Activities</td>
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<tr>
<td></td>
<td></td>
<td>Geography 2, Regions (Social Science)</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>12</td>
</tr>
<tr>
<td><strong>Either Semester</strong></td>
<td></td>
<td>Art 61A, Elementary Crafts</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Music 1LA, Music Materials for the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Social Science 1A</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective to meet requirements in Nat. Sc., Soc. Sc., and minors</td>
<td>21</td>
</tr>
</tbody>
</table>

---

3 Possible substitutions for the requirement in Biology 10A-10B:
- a. High school Biology (year course with laboratory work).
- c. High school Botany and Zoology 1A-1B.
- d. High school Zoology and Botany 2A-2B.
- e. High school Botany and high school Zoology.
- f. Biology 1 and Physical Science 1A or 1B—6 units.

4 Depending on result of Subject A test.

5 See Subject Matter Requirements in the Lower Division for total requirements in English, Natural Sciences, Social Sciences and Mathematics. See page 17.

6 Several of these electives to meet requirements for minors if they are not English, General Science or Social Sciences.

7 If 6 units in minor taken in freshman year, none needed in sophomore year.

8 Candidates for an Elementary School Credential in combination with any other type of credential are required to do not less than 8 units of directed teaching in the elementary school.

9 Folk Dancing and Rhythmic Skills are recommended for this credential.

10 Piano may be taken at any time during the first three years. The requirement may be met by examination.
<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester - Junior Year</td>
<td>Education 102B, Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Education L147B, Education Practicum—Primary Level</td>
<td>12</td>
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<tr>
<td></td>
<td>Teaching of Art</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Elementary Music Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Elementary School Reading</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Elementary Education Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mental Hygiene</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Story Telling and Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Directed Teaching</td>
<td>2</td>
</tr>
<tr>
<td>Second Semester</td>
<td>Education L147A, Education Practicum—Kindergarten Level</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Elementary Art Education</td>
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</tr>
<tr>
<td></td>
<td>Elementary Music Education</td>
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</tr>
<tr>
<td></td>
<td>English, Children's Literature</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Kindergarten-Primary Education</td>
<td>2</td>
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<tr>
<td></td>
<td>Educational Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Education L116, Directed Teaching in Kindergarten (to be taken concurrently with Education L147A)</td>
<td>4</td>
</tr>
<tr>
<td>Senior Year</td>
<td>Education 102A, Measurement in Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Education L115A, History and Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Education L116, Directed Teaching in Primary Grades</td>
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<tr>
<td></td>
<td>Health Education 151</td>
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<td>Elective (including two minors and political science requirement)</td>
<td>17</td>
</tr>
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<td></td>
<td><strong>SUMMARY</strong></td>
<td><strong>29</strong></td>
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<tr>
<td>Art 6A, B, 61A</td>
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</tr>
<tr>
<td>Education 102A-B, L115A, L116, L147A-B</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>English and Speech Arts</td>
<td>9</td>
<td></td>
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<tr>
<td>Health Education 1 or 2, and 151</td>
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<td></td>
</tr>
<tr>
<td>Music L1A, L7A, L28A-B</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (including Biology 10A-B and Geography 1)</td>
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<td></td>
</tr>
<tr>
<td>Physical Education L11A-B, B-2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Political Science 101 or substitute, see page 20</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Sciences (including Geography 2)</td>
<td>12</td>
<td></td>
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<tr>
<td>Elective (including two teaching minors)</td>
<td>22</td>
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<td><strong>Total</strong></td>
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### A.B. Degree With General Elementary School Credential

Two teaching minors are required, see page 22

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSES</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
<td>Art 6A, Structure</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Biology 10A, General Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English L1A, or L1AA, or 1B, Freshman English</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Education, Freshman Activities</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td>Second Semester</td>
<td>Biology 10B, General Biology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English 1B or 2D</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Geography 2, Regions (Social Science)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Music L1A, Musicanship—Fundamentals of Music</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical Education, Freshman Activities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>Physical Education L58—Physical Education in the Elementary School</td>
<td>21</td>
</tr>
<tr>
<td>Either Semester</td>
<td>Art 61A, Elementary Crafts</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Art 61B, Elementary Crafts</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Music L7A, Music Materials for the Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Science 1A, Pol. Soc. and Econ. Problems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Laboratory Science unless Physics or Chemistry was taken in high school or Biology 10A-10B in freshman year</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Electives to meet requirements in Natural Sciences, Social Sciences, and minors</td>
<td>5-6</td>
</tr>
<tr>
<td>Junior Year</td>
<td>Education 102A, Measurement in Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Education L147B, Education Practicum—Lower Levels</td>
<td>12</td>
</tr>
<tr>
<td>Second Semester</td>
<td>Education 102B, Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Education L148, Education Practicum—Upper Levels</td>
<td>12</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
<tr>
<td>Senior Year</td>
<td>Education L116, Directed Teaching</td>
<td>6</td>
</tr>
<tr>
<td>Either Semester</td>
<td>Education L15A, History and Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives including two minors and political science requirement (for the year)</td>
<td>21</td>
</tr>
</tbody>
</table>

1, 11, 12, 13, 14 See footnotes for Kindergarten-Primary Credentials, page 25.
SUMMARY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 6A, 6B, 61A, 61B</td>
<td>8</td>
</tr>
<tr>
<td>Education 102A-102B, 115A, 1116, 1147, 1148</td>
<td>20</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
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<tr>
<td>Health Education 1 or 2</td>
<td>3</td>
</tr>
<tr>
<td>Music L1A, L1B</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (inc. Biology 10A-10H and Geog. I)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education L1A-B-C, L58</td>
<td>4</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>2</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A and Geography 2)</td>
<td>12</td>
</tr>
<tr>
<td>Electives, including two teaching minors</td>
<td>27</td>
</tr>
</tbody>
</table>

A.B. Degree With General Junior High School Credential. (See statements on page 21 about teaching majors and minors.) Students who expect to secure the Master of Arts Degree or the general secondary credential, should complete 24 upper division units in the departmental major instead of the 12 upper division units required for this credential. See statement on page 25 regarding combinations of this with other credentials.

First Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10A, General Biology</td>
<td>3</td>
</tr>
<tr>
<td>English L1A or L1A-A, or L1B</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education, Freshmen Activities</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>2</td>
</tr>
<tr>
<td>Electives, including major and minor</td>
<td>3</td>
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</tbody>
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Second Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10B, General Biology</td>
<td>3</td>
</tr>
<tr>
<td>English 1B or 2D</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2, Regions (Social Science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education, Freshmen Activities</td>
<td>3</td>
</tr>
<tr>
<td>Electives, including major and minor</td>
<td>3</td>
</tr>
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</table>

Sophomore Year—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education, Sophomore Activities</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education, Sophomore Activities</td>
<td>3</td>
</tr>
</tbody>
</table>

Either Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science 1A, Pol., Soc. and Econ. Problems</td>
<td>3</td>
</tr>
<tr>
<td>Laboratory Science unless Physics or Chemistry was taken in High School or 10A-10H in Freshman year</td>
<td>3</td>
</tr>
<tr>
<td>Electives, including major and minor (for the year)</td>
<td>3</td>
</tr>
</tbody>
</table>

First Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education L100A, Methods and Materials of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Education 102A, Measurement in Education</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 101, American Institution (or substitute)</td>
<td>2</td>
</tr>
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</table>

Second Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education L100B, Methods and Materials of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Education 102B, Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>Education L116, Directed Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Either Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Education 151, Health Education</td>
<td>2</td>
</tr>
<tr>
<td>Electives, including major and minor (for the year)</td>
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Senior Year—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 115A, History and Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>Education L116, Directed Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education 115B, Secondary Education</td>
<td>3</td>
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Either Semester—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Electives, including major and minor (for the year)</td>
<td>4</td>
</tr>
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SUMMARY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Education L100A-L100B, 102A-102B, 115A-115B, 1116, 1147, 1148</td>
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<td>English</td>
<td>6</td>
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<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (including Biology 10A-10B and Geog. I)</td>
<td>12</td>
</tr>
<tr>
<td>Physical Education, Freshmen Activities</td>
<td>2</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>2</td>
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<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A and Geography 2)</td>
<td>12</td>
</tr>
<tr>
<td>Electives, including teaching major and minor</td>
<td>55</td>
</tr>
</tbody>
</table>

A.B. Degree With Special Secondary Credential in Art. This course leads to the A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

Lower Division—

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Aesthetics 50, History and Appreciation of Art</td>
<td>2</td>
</tr>
<tr>
<td>Art A, Freshman Drawing and Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Structure</td>
<td>2</td>
</tr>
<tr>
<td>Art 14A, Lettering</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (including laboratory course unless taken in high school)</td>
<td>9-12</td>
</tr>
<tr>
<td>Physical Education, Freshman and Sophomore Activities</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>2</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A)</td>
<td>9-12</td>
</tr>
<tr>
<td>Electives, including additional art for major and courses for teaching minor</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Not required if student is meeting requirements for elementary credential also. Not required if student has had a year of Freshman Drawing in high school and can pass a proficiency examination. Not required if student is meeting requirements for elementary credential also.

A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

SUMMARY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetics 50, History and Appreciation of Art</td>
<td>2</td>
</tr>
<tr>
<td>Art A, Freshman Drawing and Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Structure</td>
<td>2</td>
</tr>
<tr>
<td>Art 14A, Lettering</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (including laboratory course unless taken in high school)</td>
<td>9-12</td>
</tr>
<tr>
<td>Physical Education, Freshman and Sophomore Activities</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>2</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A)</td>
<td>9-12</td>
</tr>
<tr>
<td>Electives, including additional art for major and courses for teaching minor</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Not required if student is meeting requirements for elementary credential also. Not required if student has had a year of Freshman Drawing in high school and can pass a proficiency examination. Not required if student is meeting requirements for elementary credential also.

A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.

SUMMARY

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetics 50, History and Appreciation of Art</td>
<td>2</td>
</tr>
<tr>
<td>Art A, Freshman Drawing and Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Structure</td>
<td>2</td>
</tr>
<tr>
<td>Art 14A, Lettering</td>
<td>3</td>
</tr>
<tr>
<td>Art 61A, 61B, Fine and Industrial Arts, Elementary Crafts</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (including laboratory course unless taken in high school)</td>
<td>9-12</td>
</tr>
<tr>
<td>Physical Education, Freshman and Sophomore Activities</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>2</td>
</tr>
<tr>
<td>Social Sciences (including Social Science 1A)</td>
<td>9-12</td>
</tr>
<tr>
<td>Electives, including additional art for major and courses for teaching minor</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Not required if student is meeting requirements for elementary credential also. Not required if student has had a year of Freshman Drawing in high school and can pass a proficiency examination. Not required if student is meeting requirements for elementary credential also.

A.B. degree and to the Special Secondary Credential in Art which entitles the holder to teach art in senior high, junior high, and elementary schools.
### CURRICULA LEADING TO TEACHING CREDENTIALS

**UPPER DIVISION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secretarial Training 9A, Office Methods and Appliances</td>
<td>3</td>
</tr>
<tr>
<td>Economics 18A-18B, Commercial Law</td>
<td>6</td>
</tr>
<tr>
<td>Economics 100, 102 or 111 or 123</td>
<td>3</td>
</tr>
<tr>
<td>Economics 121, Business Administration</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Education L100A-L100B, Methods and Materials of Education</td>
<td>6</td>
</tr>
<tr>
<td>Education L102A, Measurements in Education</td>
<td>3</td>
</tr>
<tr>
<td>Education 102B, Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>Education 115B, Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>Education L115, Directed Teaching</td>
<td>6</td>
</tr>
<tr>
<td>Special Methods Courses as prescribed by major department</td>
<td>2</td>
</tr>
<tr>
<td>Political Science 101, American Institutions (or substitute)</td>
<td>2</td>
</tr>
<tr>
<td>Minor</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>60</td>
</tr>
</tbody>
</table>

A.B. Degree With Special Secondary Credentials in Music. Students intending to become applicants for this credential must show evidence of musical ability, before entering the course. They must be able to play artistically upon the piano, music of the grade of the simpler *Songs Without Words* of Mendelssohn or else possess a corresponding degree of proficiency in voice or an orchestral instrument. No credit is given to music majors for the basic courses of Music L1A and Music L7A, but if a deficiency exists in the field of general musicianship, the student will be required to take either or both of these courses without credit.

All music majors are required to enroll in two musical activities each semester. In special cases this requirement may be waived by petition to the Music Department.

All students are required to pass examinations in applied music in order to receive credit. No credit is allowed to majors in voice or orchestral instruments for any work in piano which is below the level of artistic piano playing.

Applicants for the Special Secondary Credential in Music must maintain a grade average of C or better in music courses.

All students majoring in music are required to pass a comprehensive examination in this field during the senior year.

This course leads to the A.B. degree with a Special Secondary Credential in Music which will authorize the holder to teach music in the elementary, junior and senior high schools of the State.

A maximum of 40 units in Music may be used toward the A.B. degree. Of these 40 units a maximum of 3 may come from the field of musical activities: band, choir, chorus, glee clubs and orchestras.

#### FRESHMAN YEAR

**Units**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>English L1A.1B, Principles</td>
<td>3</td>
</tr>
<tr>
<td>Geology 1A, 1B</td>
<td>3</td>
</tr>
<tr>
<td>Health Education 1 or 2, Health and Social Adjustment</td>
<td>2</td>
</tr>
<tr>
<td>History 4A or 5A</td>
<td>3</td>
</tr>
<tr>
<td>Aesthetics 1A, Survey of Music</td>
<td>2</td>
</tr>
<tr>
<td>Music 1B, Music Reading and Ear Training</td>
<td>2</td>
</tr>
<tr>
<td>Music L15, Individual Study of Piano or Organ</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>154</td>
</tr>
</tbody>
</table>

**Second Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Geography 1, Elements (Natural Science)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science 1A, Contemporary Pol. Soc. and Econ. Problems</td>
<td>3</td>
</tr>
<tr>
<td>Aesthetics 1B, Survey of Music</td>
<td>2</td>
</tr>
<tr>
<td>Music 1C, Advanced Music Reading and Ear Training</td>
<td>2</td>
</tr>
<tr>
<td>Music L2A, Woodwind Instrument Class</td>
<td>1</td>
</tr>
<tr>
<td>Music L15B, Individual Study of Piano or Organ</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>154</td>
</tr>
</tbody>
</table>

1. Depending on result of Subject A test.
2. See Lower Division Requirements on page 13.
### CURRICULA LEADING TO TEACHING CREDENTIALS

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 109A, Advanced Music Reading and Ear Training</td>
<td>2</td>
</tr>
<tr>
<td>Music L2A, String Instrument Class</td>
<td>1</td>
</tr>
<tr>
<td>Music 4A, Elementary Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Music L13B, Individual Study of Piano</td>
<td>1</td>
</tr>
<tr>
<td>*Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2, Regions (Social Science)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

#### Junior Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 105A, Advanced Harmony and Composition</td>
<td>3</td>
</tr>
<tr>
<td>Education L117A, Music in Elementary School</td>
<td>2</td>
</tr>
<tr>
<td>Education L115, Organization and Administration of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>Education L102A, Measurement in Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Education L100A, Methods and Materials of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 101, American Institutions (or substitute)</td>
<td>2–3</td>
</tr>
<tr>
<td>Music L117A, Advanced Individual Study of Voice</td>
<td>1</td>
</tr>
<tr>
<td>Education L100B, Methods and Materials of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Education 102B, Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Minor</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>15–16</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 107A, Form and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>Music 119, Instrumental Conducting</td>
<td>1</td>
</tr>
<tr>
<td>Music L117B, Advanced Individual Study of Voice</td>
<td>1</td>
</tr>
<tr>
<td>Aesthetics 102A, History of Music</td>
<td>2</td>
</tr>
<tr>
<td>Education L116, Directed Teaching</td>
<td>6</td>
</tr>
<tr>
<td><strong>Music Activities</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>14</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 106A, Counterpoint</td>
<td>2</td>
</tr>
<tr>
<td>Music L117C, Advanced Individual Study of Voice</td>
<td>1</td>
</tr>
<tr>
<td>Music 129A, Vocal Conducting</td>
<td>1</td>
</tr>
<tr>
<td>Music 121A, Instrumentation</td>
<td>2</td>
</tr>
<tr>
<td>Aesthetics 102B, History of Music</td>
<td>2</td>
</tr>
<tr>
<td>Education 115B, Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>Education L116, Directed Teaching</td>
<td>3</td>
</tr>
<tr>
<td><strong>Music Activities</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

#### Summary

- Health Education 1 or 2 | 2 |
- Aesthetics 1A, 1B, 102A, 102B | 2 |
- English | 9 |
- Upper Division Minor | 6 |
- Natural Sciences (including Geography) | 12 |
- Music 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, L117A-B-C-D, L118A-B-C-D, 165A, 165B, 106A, 110, 120A, 121A, Music Activities | 40 |
- Social Sciences (including Soc. Sci. 1A, Geog. 2, and Hist.) | 12 |
- Psychology 1A | 3 |
- Physical Education | 2 |
| Elective | 1 |
| **Total Units** | 120 |

#### A.B. Degree With Special Secondary Credential in Physical Education

This course leads to the A.B. degree and to the Special Secondary Credential in Physical Education which entitles the holder to teach physical education in senior high, junior high, and elementary schools.

#### Men

##### Lower Division

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10A-10B, General Biology (unless taken as a year course in high school with at least a grade of B) or Zoology 1A, General</td>
<td>4–6</td>
</tr>
<tr>
<td>English 1A, General</td>
<td>2</td>
</tr>
<tr>
<td>Health Education 1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td>3 or 5</td>
</tr>
<tr>
<td>Physical Education: L1A-1B, L1C-1D</td>
<td>2</td>
</tr>
<tr>
<td>L21, Laboratory Skills</td>
<td>2</td>
</tr>
<tr>
<td>L22, Physical Education in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>L12A, L12B, Gymnastic Activities</td>
<td>4</td>
</tr>
<tr>
<td>L72, Principles</td>
<td>2</td>
</tr>
<tr>
<td>Sports and Athletics</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Sciences</strong>, including Social Science 1A, Political, Social and Economic Problems</td>
<td>12</td>
</tr>
<tr>
<td>Speech Arts 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 8, Human Anatomy (or Zoology 108)</td>
<td>3</td>
</tr>
<tr>
<td>Electives, including courses to meet minor requirements*</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

#### Women

##### Lower Division

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 10A-10B, General Biology (unless taken as a year course in high school with at least a grade of B) or Zoology 1A, General</td>
<td>4–6</td>
</tr>
<tr>
<td>English 1A, General</td>
<td>2</td>
</tr>
<tr>
<td>Health Education 1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td>3 or 5</td>
</tr>
<tr>
<td>Physical Education: L1A-1B, L1C-1D</td>
<td>2</td>
</tr>
<tr>
<td>L21, Laboratory Skills</td>
<td>2</td>
</tr>
<tr>
<td>L22, Physical Education in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>L12A, L12B, Gymnastic Activities</td>
<td>4</td>
</tr>
<tr>
<td>L72, Principles</td>
<td>2</td>
</tr>
<tr>
<td>Sports and Athletics</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 1A, General</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Sciences</strong>, including Social Science 1A, Political, Social and Economic Problems</td>
<td>12</td>
</tr>
<tr>
<td>Speech Arts 1A, Fundamentals of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 8, Human Anatomy (or Zoology 108)</td>
<td>3</td>
</tr>
<tr>
<td>Electives, including courses to meet minor requirements*</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>60</td>
</tr>
</tbody>
</table>

---

*See Subject Matter Requirement in the Lower Division on page 18.

**Note:** A maximum of 3 units is credited toward the Special Secondary Credential in Music for music activities carried on throughout the four year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

---

**Note:** A maximum of 3 units is credited toward the Special Secondary Credential in Music for music activities carried on throughout the four year course. These activities, band, choir, glee clubs, chorus and orchestra are an integral part of the work of the course and each music major is expected to participate in at least two of these each semester unless excused by the Music Department.

*See Subject Matter Requirements in the Lower Division, page 17.*

† Men majoring in Physical Education are requested to participate actively in at least one sport and two additional activities per year in order to secure adequate educational background for teaching.

‡ Unless minor is English, General Science, or Social Science.
CURRICULA LEADING TO TEACHING CREDENTIALS

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction
Education L102A, Measurement in Education
Education 102B, Child Growth and Development
Education 115B, Secondary Education
Education L116, Directed Teaching
Health Education 131
Political Science 101, American Institutions (or substitute)
Zoology 114A, Genetics
Physical Education:
L154, Organ. and Admin. of Physical Education
L156A, Physical Education Methods
L156B, Sports Methods
L161, Folk Dancing
L162, Technique of Teaching Activities
L170, Recreational Leadership
L180, Individual Program Adaptation
Sports and athletics
Electives

SUMMARY

Education L100A-L100B, 102A-102B, 115B, L116
English
Health Education 1, 131
Speech Arts 1A
Natural Sciences (including Biology 10A-10B or substitute and Zoology 8)
Physical Education teaching major
Political Science 101
Psychology 1A
Social Sciences (including Social Science 1A)
Zoology 114A
Electives, including minor

A.B. Degree with Special Secondary Credential in P.E.

WOMEN

LOWER DIVISION

Music 1A, Musicanship—Fundamentals of Music
*English
Health Education 2, Health and Social Adjustment
*Natural Sciences (including Biology 10A-10B)
Physical Education:
L1A, Fundamental Skills
L1B, Folk Dancing
L1C, Rhythmic Skills
L1B, Archery
L1A, Badminton
L1A or 1B, Golf
L11B, Tennis
L35, Physical Education in the Elementary School
Health Education 51, First Aid and Safety Education
Psychology 1A, General
*Social Sciences (including Soc. Science 1A)
Speech Arts
Zoology 8, Human Anatomy
Electives, including minor

A.B. Degree With a Major in Speech Arts. The college is authorized to grant an A.B. degree with a major in Speech Arts. Upon the satisfactory completion of the following curriculum the college will recommend that the Division of Credentials of the State Department of Education grant its graduates the Special Secondary Credential in Speech Arts. A scholarship average of C or better is required in all Speech Arts courses.

UPPER DIVISION

Education L100A-L100B, Methods and Materials of Instruction
Education L102A, Measurement in Education
Education 102B, Child Growth and Development
Education 115B, Secondary Education
Education L116, Directed Teaching
Health Education 131, Health Education
Political Science 101, American Institutions (or substitute)
Physical Education:
L155, Principles and Administration of Secondary Physical Education
L155A, Applied Anatomy
L156A, Physical Education Methods
L160, Principles of Teaching Gymnastics
L161, Folk Dancing
L164A-L164B, Methods in Modern Dance
L169, Technique of Teaching Activities
L170, Recreational Leadership
L177, Individual Program Adaptations
L180, Techniques of Individual Sports
Electives, including minor

SUMMARY

Music 1A
Education L100A-L100B, 102A-102B, 115B, L116
English
Health Education 2, 51, and 131
*Natural Sciences (including Biology 10A-10B, and Zoology 8)
Physical Education teaching major
Political Science 101
Psychology 1A
*Social Sciences (including Social Science 1A)
Speech Arts
Electives, including a minor

A.B. Degree with a Major in Speech Arts. The college is authorized to grant an A.B. degree with a major in Speech Arts. Upon the satisfactory completion of the following curriculum the college will recommend that the Division of Credentials of the State Department of Education grant its graduates the Special Secondary Credential in Speech Arts. A scholarship average of C or better is required in all Speech Arts courses.

LOWER DIVISION

Speech Arts 1A-1B or 1C-1D or 60
Speech Arts 55A-55B or 55C-55D
Speech Arts 62A-62B, Verse Choir
*Natural Sciences
*Social Sciences (including Social Science 1A)
Electives and Minor
Psychology 1A, General
Health Education 1 or 2, Health and Social Adjustment
English L1A, 1B, or 1C and 3 units from 30A-30B, 52A-52B, 56A-56B
Physical Education 114A, 116B, 11C and 12A or 111A
Aesthetics 1A or 5

*See lower division requirements, page 15.

1 Men majoring in Physical Education are requested to participate actively in at least one sport and two additional activities per year in order to secure adequate activity background for teaching.
PROFESSIONAL AND PREPROFESSIONAL CURRICULA

Professional and preprofessional courses, ranging in length from two years to three and four years of collegiate work, are offered. The following curricular outlines meet typical requirements for admission to professional schools of law, medicine, dentistry, nursing, pharmacy, optometry, social service, public service, journalism, agriculture, and engineering. The student should modify these suggested outlines of study whenever the peculiar requirements of the professional school of his choice makes it seem advisable for him to do so.

The degree curricula in liberal arts may be modified to include the course outlines which follow. For a complete statement of the requirements for the junior certificate and the degree see page 17 and following pages.

Prelegal Curriculum

The entrance requirements of law colleges range from two years to three and four years of prelegal work. The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two, three, or four years.

The following curriculum meets the recommendations of standard American law colleges for a broad and liberal education in those fields of human knowledge commonly involved in human affairs and those which have cultural and disciplinary values. For the majority of prelegal students a general major with concentration in economics, as provided for in the following curriculum, furnishes the most effective preparation for later professional study in law and for later activities in the field of business. However, for some students a major, or at least strong minors, in English, history, or political science, may provide a suitable preparation.

The high school program should include the following subjects: elementary algebra, 1 unit (2 semester credits); plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language or 2 units in each of two languages.

Following is a recommended arrangement of courses:

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>*Foreign Languages (if needed to complete requirement)</td>
<td>3-5</td>
</tr>
<tr>
<td>*English</td>
<td>3</td>
</tr>
<tr>
<td>Economics 14A-14B</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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</table>

Total Units: 15

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>*Additional Natural Science (if needed to meet requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy 3A-3B, 5A-5B, or Mathematics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or 11A-11B</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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</tr>
</tbody>
</table>

Total Units: 15

* See lower division requirements, page 17.

1 Recommended elective: History, 6 units, taken in the freshman or sophomore year.
The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 3 units. Two units of Latin are recommended.

**Preoptometry Curriculum**

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; trigonometry, 4 units; physics, 1 unit; chemistry, 1 unit; foreign language, 2 units.

The following curriculum prepares for junior standing in university schools of optometry:

<table>
<thead>
<tr>
<th><strong>FRESHMAN YEAR</strong></th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
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<tr>
<td><em>Foreign Language (if needed to complete requirements)</em></td>
<td>2 1/2</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
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<tr>
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<tr>
<td>Social Science 1A</td>
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<tr>
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<table>
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<tr>
<td>Chemistry 1A-1B</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3 1/2</td>
</tr>
<tr>
<td><em>Social Science</em></td>
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</tr>
<tr>
<td>Biology 1A and 1G</td>
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<td>Health Education</td>
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<tr>
<td>Chemistry 1A-1B</td>
<td>3 1/2</td>
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<tr>
<td><em>English Composition</em></td>
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</tr>
<tr>
<td><em>Foreign or German (if needed to complete requirements)</em></td>
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<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td><em>Foreign Language (if needed to complete requirements)</em></td>
<td>2 1/2</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3 1/2</td>
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<tr>
<td>Mathematics 3A-3B</td>
<td>3 1/2</td>
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<tr>
<td>Elective</td>
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<thead>
<tr>
<th><strong>SOPHOMORE YEAR</strong></th>
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</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3 1/2</td>
</tr>
<tr>
<td><em>Social Science</em></td>
<td>2 1/2</td>
</tr>
<tr>
<td>Biology 1A and 1G</td>
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</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

**Pre Nursing Curriculum**

A student who plans to complete a curriculum in nursing leading to a degree and a certificate in nursing in another collegiate institution should ascertain the lower division (junior certificate) requirements of that institution. The lower division requirements of the institution to which the student will transfer may be substituted for the following courses marked with an asterisk wherever the requirements differ.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; French or German, 3 units; domestic science (food), 1 unit; 2 units of Latin are recommended.

The following is a recommended arrangement of courses:

<table>
<thead>
<tr>
<th><strong>FRESHMAN YEAR</strong></th>
<th>Units</th>
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<tbody>
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</tr>
<tr>
<td>Health Education</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Mathematics 1A-2B</td>
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</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>3 1/2</td>
</tr>
<tr>
<td><em>English Composition</em></td>
<td>2</td>
</tr>
<tr>
<td><em>Foreign or German (if needed to complete requirements)</em></td>
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<table>
<thead>
<tr>
<th><strong>SOPHOMORE YEAR</strong></th>
<th>Units</th>
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</thead>
<tbody>
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<tr>
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</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3 1/2</td>
</tr>
<tr>
<td><em>Social Science</em></td>
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</tr>
<tr>
<td>Biology 1A and 1G</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
</tr>
</tbody>
</table>

1. If not available, Zoology 20 may be substituted.
2. *Recommended elective: English, philosophy, psychology, economics.*
3. *See lower division requirements, page 17.*
4. *German if the major is Chemistry.*
5. *Mathematics 2A or satisfactory substitute if the major is Chemistry.*
6. *Chosen from English 1B and 2A, 2B, 3D, 3E, 2D.*
7. **See lower division requirements, page 17.**
Predental Curriculum

Candidates for a degree in dentistry should ascertain the entrance requirements of the dental college to which they expect to transfer and should make whatever changes in the following typical requirements that may seem desirable in satisfying the requirements of the dental college.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; chemistry, 1 unit; physics, 1 unit; foreign language, 3 units in one language.

The following arrangement of courses is recommended:

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<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
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<tbody>
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<tr>
<td>Health Education</td>
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</tr>
<tr>
<td>Chemistry 1A-1B</td>
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</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
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<tr>
<td><strong>Foreign Language (if needed to complete requirement)</strong></td>
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<thead>
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<tbody>
<tr>
<td>Physical Education</td>
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<tr>
<td>Chemistry 7B</td>
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<tr>
<td>Physics 2A-2B or Zoology 1A-1B</td>
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</tr>
<tr>
<td><strong>Social Science Course</strong></td>
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<td><strong>Social Science IA</strong></td>
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<td><strong>Additional Year Course</strong></td>
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<tr>
<td><strong>Total</strong></td>
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</table>

Presagricultural Curricula

The high school program should include the following subjects: elementary algebra 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; trigonometry, 1 unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing 1 unit; foreign language, 3 units in one language.

Students should ascertain the lower division requirements of the agricultural college they expect to enter.

The following arrangement of courses is recommended:

Curriculum in Plant Science

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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</thead>
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<tr>
<td>Health Education</td>
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</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Botany 2A-2B</td>
<td>5</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
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<tr>
<td><strong>Total</strong></td>
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<thead>
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<tbody>
<tr>
<td>Physical Education</td>
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<tr>
<td>Economics 1A-1B</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 7B</td>
<td>4</td>
</tr>
<tr>
<td>Botany 2A-2B</td>
<td>3</td>
</tr>
<tr>
<td>English 1B and 2 *</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 3A-3B</td>
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<tr>
<td><strong>Total</strong></td>
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Curriculum in Animal Science

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Physical Education</td>
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</tr>
<tr>
<td>Health Education</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 1A-1B</td>
<td>4</td>
</tr>
<tr>
<td>Physics 2A-2B</td>
<td>3</td>
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<tr>
<td>Geology 2B</td>
<td>2</td>
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<td>Elective</td>
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<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 7B</td>
<td>3</td>
</tr>
<tr>
<td>Botany 2A-2B</td>
<td>4</td>
</tr>
<tr>
<td>Zoology 100</td>
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</tr>
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<td>Zoology 20 or 8</td>
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</tr>
<tr>
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<tr>
<td><strong>Total</strong></td>
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Curriculum in Forestry

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
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</tr>
<tr>
<td>Chemistry 1A-1B</td>
<td>5</td>
</tr>
<tr>
<td>Botany 2A-2B</td>
<td>4</td>
</tr>
<tr>
<td>English 1B and 2 *</td>
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</tr>
<tr>
<td>Mathematics 3A-3B</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
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<td>Geology 2A</td>
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<tr>
<td>Chemistry 7B</td>
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<td>Elective</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
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</tbody>
</table>

Preengineering Curriculum

This curriculum is intended for students planning an intensive specialization in particular branches of engineering.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, 1 unit; trigonometry, 1 unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

Students should ascertain the requirements of the engineering college they expect to enter.

1. See prerequisites, page 62.
2. Foreign language if not completed in high school.
3. Foreign language if not completed in high school.
4. *Prerequisite: page 17.
Civil Engineering

Astronomy 3  
Engineering 1A 1B  
Engineering 21  
Engineering 22  
Mathematics 4A 1B  
Physical Education  
Physics 1C 1D  
Elective

Curriculum in General Engineering

A four-year curriculum is available at San Diego State College leading to the A.B. degree in General Engineering. The curriculum is designed to provide the student with the fundamentals of an engineering and technical education without intensive specialization. It is planned to provide considerable elective opportunities, which will enable the student to adapt the program to his particular needs, with emphasis on one branch of engineering training, science, or business.

All students with aptitude for professional engineering and the financial means are urged to complete the requirements for the degree in mechanical, electrical, or civil engineering school. There is, however, an increasing need for college graduates in specialized engineering, engineering science, or business engineering, where an intensive curriculum may easily adapt their programs to provide preparation for work in specialized fields, such as electrical, heating and ventilation, public utility, telegraphy, and aeronautical industries among many others. Preparation is also available in chemical engineering, engineering physics, and engineering economics.

Students may also use this curriculum as an undergraduate preparation for additional training in engineering and allied subjects in the secondary schools and the junior college.

* Certain upper division engineering courses may be chosen to advantage by properly qualified students.
* Geology 1A is required in the civil engineering curriculum.

PROFESSIONAL AND PREPROFESSIONAL CURRICULA

The curriculum is not a specialized sequence of course work in specific engineering fields. If such specialization in training is desired in the engineering fields, transfer to various colleges offering such work is recommended after completion of the lower division.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; solid geometry, ½ unit; trigonometry, ½ unit; chemistry, 1 unit; physics, 1 unit; mechanical drawing, 1 unit.

LOWER DIVISION

All college requirements for the A.B. degree must be met except foreign language.

**FRESHMAN YEAR**

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<td>Chemistry 1A-1B</td>
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<tr>
<td>Physics 1A-1B</td>
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<tr>
<td>Geology 1A or elective</td>
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<th>Course</th>
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<td><strong>SOPHOMORE YEAR</strong></td>
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<td>Engineering 1A</td>
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<td>Engineering 21</td>
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<td>Engineering 22</td>
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<td>Engineering 23</td>
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<td>Mathematics 4A-4B</td>
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<td>Mathematics 11B or 11C</td>
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<td>Physics 1C 1D</td>
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<td>Engineering 22</td>
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<td>Physical Education</td>
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</tr>
<tr>
<td>Physics 1C 1D</td>
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15 10 15 10

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<td>English Composition</td>
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<td>Social Science A</td>
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<td>Health Education</td>
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<td>Physical Education</td>
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<td>Psychology 1A</td>
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<td>Engineering 21</td>
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<td>Engineering 22</td>
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<tr>
<td>Mathematics 4A-4B</td>
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<tr>
<td>Physical Education</td>
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</tr>
<tr>
<td>Physics 1C 1D</td>
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<tr>
<td>*Elective</td>
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15 10 15 10

<table>
<thead>
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<td>Health Education</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
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<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science A</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
</tbody>
</table>

21

UPPER DIVISION

During the first semester of his junior year the student must prepare and submit for approval of his advisor a tentative program for the remainder of his undergraduate work.

Complete lower division requirements. (See page 17.)

Political Science 101.

Complete the following major in General Engineering: a total of 36 upper division coordinated units in three departments chosen from the following list (not more than 16 units may be chosen from one department).

The organization of the program of each major student must follow a definite plan approved by the proper advisors. Additional courses will be added from time to time.

Required of all students (20 units):

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering 106A-108B, Electrical Engineering</td>
<td>6</td>
</tr>
<tr>
<td>Engineering 105, Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 123, Materials of Engineering Construction</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 128, Heat Power Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Physics 106A-106B, Analytical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Electives: 16 units, of which at least 6 units must be chosen from one of the following departments: chemistry, geology, astronomy, mathematics, or economics.</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 110A-110B, Physical</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 105A, Quantitative Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 112A-112B, Industrial Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 114, Industrial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Physics 110A, Adv. Electricity</td>
<td>3</td>
</tr>
<tr>
<td>Physics 110B, Electromagnetism-electronics</td>
<td>3</td>
</tr>
<tr>
<td>Physics 107A, 107B, Electrical Measurements</td>
<td>2</td>
</tr>
<tr>
<td>Physics 108, Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

* Recommended Economics 1A-1B.
** See lower division requirements, page 17.
Public Service Curricula—Clerical and Fiscal Service

The curriculum in Clerical and Fiscal Service leads to the B.A. degree with a major in commerce. It outlines a course of training for clerical and clerical-executive service in accounting and auditing, budgeting, statistical work and miscellaneous financial and fiscal work.

The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language (if needed to complete requirements)</td>
<td>0-5 0-5</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Economics 14A-14B</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>0-5 0-4</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Additional Natural Science (if needed to meet requirements)</td>
<td>0-5 0-5</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or 71A</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100A</td>
<td>3</td>
</tr>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Economics 100B</td>
<td>3</td>
</tr>
<tr>
<td>Economics 131</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 175A-175B</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100A</td>
<td>3</td>
</tr>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Economics 100B</td>
<td>3</td>
</tr>
<tr>
<td>Economics 131</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 143A-143B</td>
<td>3</td>
</tr>
<tr>
<td>Elective 1</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
</tr>
</tbody>
</table>

Public Service Curricula—Social Work

The professional curriculum in social service prepares for admission to graduate work in recognized American schools of social work. This curriculum should be pursued by those who plan careers in Federal, State and local welfare work; social work in public schools including preparation for a teaching credential; family and children’s private case work agencies; social settlement work; county probation work; child welfare agencies; statistical and investigational work in private and public agencies; work in public institutions for the defective and delinquent; medical social service; and psychiatric social work in hospitals and clinics; executive positions in social work; and social work in numerous other organizations.

The lower division requirements of the Liberal Arts curriculum include the general requirements of recognized professional schools of social work and should therefore

* See lower division requirements, page 17.
1 See minor requirements, page 29. Students who desire to prepare for a graduate major in political science should elect Political Science 111 and 112 and may fulfill requirements for a major in economics by substituting Political Science 143A-143B for electives in economics.
2 Recommended electives: Economics 18A-18B and Secretarial Training 2A.
3 See minor requirements, page 29.
ordinarily be met in full. However, a student who has definitely decided not to become a candidate for a degree in San Diego State College may substitute the lower division requirements of the institution to which he expects to transfer wherever the requirements differ.

A student who pursues a four-year curriculum in San Diego State College should major in Social Science and minor in Psychology.

The following subjects should be completed in high school: elementary algebra, 1 (year) unit; plane geometry, 1 unit; algebraic theory, 1 unit; foreign language, 3 units in one language.

Following is a recommended arrangement of courses:

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td>Biology 10A-1B</td>
<td>3</td>
</tr>
<tr>
<td><em>Foreign Language (if needed to complete requirement)</em></td>
<td>0-5</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td>*Speech Arts 1A-1B or *English elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 1/2</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or</td>
<td>3</td>
</tr>
<tr>
<td>71A-71B</td>
<td></td>
</tr>
<tr>
<td>*Additional Year Course</td>
<td></td>
</tr>
<tr>
<td>Sociology 50A</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 50H</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 100B or 131 or 150</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 105</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 109</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 151</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 151</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 101A</td>
<td>2</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>2</td>
</tr>
<tr>
<td>Elective 2</td>
<td>5</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 140</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 197</td>
<td>3</td>
</tr>
<tr>
<td>Sociology Elective</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 143A-143B</td>
<td>3</td>
</tr>
<tr>
<td>Elective *</td>
<td>3</td>
</tr>
</tbody>
</table>

**Public Service Curricula—Inter-American Relations**

The purpose of this curriculum is (1) to furnish a basis for a more intelligent and effective understanding of the opportunities and problems of international relations for a business or professional career which involves international relations.

The competition for opportunities of service in international affairs is intense. The student who plans a career in this field should therefore organize his electives to provide for a concentration in some area of work in which there are greater vocational opportunities. Preparation for employment as a foreign representative of an American business organization implies concentration in economics. The student who pursues this curriculum as a guide for training for the foreign service in consular, vice consular, legation, history, political science, geography, and economics to furnish more effective preparation for the comprehensive competitive examinations required for appointment to the Service and for entrance to the Foreign Officers Training School at Washington, D. C.

* See lower division requirements, page 17.
1 Recommended electives: Anthropology 101, 2 units; Economics 43A, 3 units.
2 Recommended electives: Anthropology 101, 2 units; Economics 43A, 3 units; History 43A, 3 units; Sociology 101, 3 units; Psychology 151, 3 units each; 3 units additional in field.

**PROFESSIONAL AND PREPROFESSIONAL CURRICULA**

The proper faculty advisor should be consulted for revisions and additions to this curriculum to meet individual needs and objectives.

The high school program should include the following subjects: algebra, 1 (year) unit; plane geometry, 1 unit; intermediate algebra, 1 unit; foreign language, 3 units in one language.

The following arrangement of courses is recommended:

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>2</td>
</tr>
<tr>
<td><em>Foreign Language (if needed to complete requirement)</em></td>
<td>0-5</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>3</td>
</tr>
<tr>
<td><em>English elective</em></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Economics 1A-1B</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 1A-1B or</td>
<td>3</td>
</tr>
<tr>
<td>71A-71B</td>
<td></td>
</tr>
<tr>
<td>*Additional Year Course</td>
<td></td>
</tr>
<tr>
<td>Sociology 50A</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 50H</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>1</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 141</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 142</td>
<td>3</td>
</tr>
<tr>
<td>History 173A-173B</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 104A-104B</td>
<td>3</td>
</tr>
<tr>
<td>Elective *</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>6</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 195</td>
<td>3</td>
</tr>
<tr>
<td>Economics 198 (Special)</td>
<td>3</td>
</tr>
<tr>
<td>History 161</td>
<td>3</td>
</tr>
<tr>
<td>History 163</td>
<td>3</td>
</tr>
<tr>
<td>Geography 11B</td>
<td>3</td>
</tr>
<tr>
<td>Geography 121</td>
<td>3</td>
</tr>
<tr>
<td>Elective 2</td>
<td>6</td>
</tr>
</tbody>
</table>

**Public Service Curricula—Foreign Service**

A curriculum of training for the foreign service in consular, vice consular, and other officials is available on request. This curriculum outlines preparation for competitive examinations required for appointment to the Service and for entrance to the Foreign Officers Training School at Washington, D. C.

**Curriculum in Journalism**

(Courses in journalism have been discontinued until further notice.)

A broad, cultural education, and specific information and understanding in fields with which the journalist is largely concerned, are essential to an effective training for journalism. Introductory training in the principles and practices of journalistic writing is offered only after a good foundation in correct speaking and writing of English has been laid.

Practical training in news reporting and editing for student publications and for the daily and weekly press is emphasized.

* See lower division requirements, page 17.
1 Recommended electives: Economics 14A-14B, 6 units; Psychology 43A, 3 units.
2 Recommended electives: Anthropology 101, 2 units; Economics 143, 3 units; History 143, 3 units; Sociology 143, 3 units; Psychology 149, 3 units each; 3 units additional in field.
4 Recommended electives: Anthropology 101, 2 units; Economics 143, 3 units; History 143, 3 units; Sociology 143, 3 units; Psychology 149, 3 units each; 3 units additional in field.
6 Recommended electives: Anthropology 101, 2 units; Economics 143, 3 units; History 143, 3 units; Sociology 143, 3 units; Psychology 149, 3 units each; 3 units additional in field.
The high school program should include the following subjects: elementary algebra, 1 (year) unit; plane geometry, 1 unit; foreign language, 3 units in one language; English, 4 units; natural science, 1 or 2 units in the junior or senior year.

Following is a recommended arrangement of courses:

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SOPHOMORE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>Health Education</td>
<td>Economics 1A-1B or Political Science 1A-1B</td>
<td>4</td>
</tr>
<tr>
<td>English 1A-1B or 5A-6B or Political Science 1A-1B or 7A-7B</td>
<td>Science 1A-1B or 7A-7B</td>
<td>3</td>
</tr>
<tr>
<td>History 1A-1B or 5A-6B</td>
<td>*Philosophy 1A-1B or 5A-6B</td>
<td>3</td>
</tr>
<tr>
<td>*Foreign Language (if needed to complete requirement)</td>
<td>(if needed to complete additional year course requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 10A-10B</td>
<td>*Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 1A</td>
<td>**Social Science 1A</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>*Elective</td>
<td>3</td>
</tr>
<tr>
<td>** 13</td>
<td>** 15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SENIOR YEAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Major (including English 112)</td>
<td>Major</td>
<td>9</td>
</tr>
<tr>
<td>Journalism 15A-15B</td>
<td>Journalism</td>
<td>9</td>
</tr>
<tr>
<td>Journalism</td>
<td>Journalism 190</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td>** 15</td>
<td>** 15</td>
<td></td>
</tr>
</tbody>
</table>

* See lower division requirements for junior standing, page 17.
** Include six units of English 1A-1B and 8 units of Political Science 1A-1B or 7A-7B.

** Recommended electives: Aesthetics 1A, 4 units; Aesthetics 5, 2 units; Anthropology 154A, 6 units; Psychology 190, 2 units.

** The social science major or the general major recommended herein is recommended for the social science major or the general major only. The social science major requires 24 units of upper division work, including a concentration of 12 units in the social science major, subject to departmental approval. Not more than 6 units in any field will be required in the social science major.

** Not less than 6 units of Journalism 15A-15B and 153A-153B may be counted toward the A.B. degree and not more than 4 units of Journalism 152C-152D may be counted.

** See foregoing list in italics.

** Not less than 6 units of natural science must be completed in college.

### TWO-YEAR COMPLETION CURRICULA

These curricula are organized for students who have not yet qualified for enrollment in a four-year curriculum leading to the Bachelor of Arts degree. Regularly qualified students who elect a shorter completion course will take only those two-year courses as may be required in the specified curricula they are following. A necessary completion of the requirements in these two-year curriculums the student is not granted a diploma. By maintaining a high grade of scholarship the student may secure the opportunity of transfer to a four-year program. Such transfers are made by action of a faculty committee after the student has completed one or more semesters in a two-year curriculum. Upon transfer the credits earned in most courses in the two-year program in which grades of A and B have been received are allowed to count toward the Bachelor of Arts degree.

Courses numbered 140 and 150 are not open for credit to students in a four-year curriculum.

The following special courses are designed for students enrolled in a two-year completion curriculum: Astronomy 140; Biology 150; Economics 145A-145B; English 140A, 140B, 140C, 140D; Geology 140A, 140B; Geology 150; Health Education 140; Mathematics 140A, 140B; Physical Science 140; Psychology 145; Social Science 140, 145; Sociology 145; Speech Arts 140.

Any other course designated by the prefix "1" (e.g. Art 171) is regularly open to students enrolled in a two-year completion curriculum. See Limited Electives, page 19. The following courses are also regularly open to two-year students: Aesthetics 1A, 1B, 2; Art 6A, 6B, 6C, 18, 19, 1A, 1B, 1C, 1A, 1B, 1C, 1B, 2A, 2B, 2C, 2D, 2E; Economics 145A-155B; 156A-156B; 157A-157B; 158A-158B; 159A-159D; English 140A, 140B, 140C, 140D; Geography 140A, 140B; Geology 140A, 140B; Geology 150; Health Education 140; Mathematics 140A, 140B; Physical Science 140; Psychology 145; Social Science 140, 145; Sociology 145; Speech Arts 140.

A two-year student may elect any other college lower division subject under guidance where his high school scholarship record, or his scores in the aptitude and achievement tests, or his college record indicates probable success in that field. He must, of course, meet all prerequisites for the course under consideration.

### Two-year Curriculum in Liberal Arts

<table>
<thead>
<tr>
<th>Units</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 140A or 140B</td>
<td>Speech Arts 140 or English 145</td>
</tr>
<tr>
<td>or 140C</td>
<td>or 145</td>
</tr>
<tr>
<td>**Physical Science 140A or equivalent</td>
<td>**Social Science 145A, Geography 145A</td>
</tr>
<tr>
<td>**Biology 140A or equivalent</td>
<td>**Lore 145B, Merchandising 145B</td>
</tr>
<tr>
<td>Social Science 145A</td>
<td>Elective</td>
</tr>
<tr>
<td>Sociology 145A</td>
<td>Social Science 145A</td>
</tr>
<tr>
<td>Health Education 1 or 2</td>
<td>*Elective</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Psychology 145</td>
<td></td>
</tr>
<tr>
<td>*Elective</td>
<td></td>
</tr>
<tr>
<td>** 15</td>
<td>** 15</td>
</tr>
</tbody>
</table>

* See foregoing list in italics.

** Not less than 6 units of natural science must be completed in college.
### Two-Year Curriculum in Accounting

<table>
<thead>
<tr>
<th>Year</th>
<th>Units</th>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>4</td>
<td>English 100 or 101</td>
<td>Basic English</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Mathematics 100</td>
<td>Calculus or Algebra</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Accounting Principles</td>
<td>First Principles</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Economics 100</td>
<td>Principles</td>
</tr>
<tr>
<td>Second</td>
<td>3</td>
<td>English 102 or 103</td>
<td>Advanced English</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Mathematics 102</td>
<td>Calculus or Algebra</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Accounting Principles</td>
<td>Second Principles</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Economics 101</td>
<td>Principles</td>
</tr>
</tbody>
</table>

### Two-Year Curriculum in Music

<table>
<thead>
<tr>
<th>Year</th>
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<td>3</td>
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<td>3</td>
<td>Music Performance 101</td>
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### Two-Year Curriculum in Physical Education

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<td>Advanced English</td>
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<tr>
<td></td>
<td>3</td>
<td>Health Education 101</td>
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</tr>
</tbody>
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*The above curriculum is designed for students interested in pursuing careers in accounting, music, and physical education.*
JUNIOR COLLEGE COMPLETION CURRICULA

In cooperation with the San Diego City Schools one specialized division of their Junior College program is maintained on this campus. This center endeavors to serve young people who, because of ill health, indefinite objectives, inadequate study habits or other reason, have achieved less in high school than they had hoped to do. Students admitted to this center frequently have no clearly defined vocational and educational objectives or they have set up goals which are too difficult to attain.

The program in this center has the following characteristics:

a. Every course has been developed with the aim of meeting the needs of the type of student admitted. All courses are planned, therefore, to include materials of immediate interest to the student. The content and the procedures used are designed to help the student get answers to his questions about himself, about his plans, and about his understanding of and happy adjustment to the world about him.

b. The program gives vocational help, but does not provide vocational courses. While the primary purpose is not vocational training, much of the work contributes toward this end. Both the guidance program and the courses of study are planned to help the student make his vocational adjustment.

c. The program is concerned primarily with general education. The term “general education” is here used to designate those understandings, attitudes, and skills common to all adults who are to live effectively in American democracy.

d. Guidance is the principal focus of the program. It attempts specifically to meet the needs of each student through a well coordinated system of group and individual guidance and a curriculum planned to aid in the adjustment of the individual to his world.

e. The course is two years in length and upon its successful completion the degree of Associate in Arts is awarded by the San Diego City Board of Education.

No A.B. degree credit is given for those Junior College courses, although a student may qualify for admission to San Diego State College through a demonstration of strong scholarship.

COURSES OF INSTRUCTION

Figures in parentheses indicate the unit value of the course.

Courses numbered from 1 to 99 are lower division (freshman or sophomore) courses; those numbered 100 and above are upper division (junior or senior) courses. The prefix "L" is used to denote courses which are classified as limited electives for students enrolled in the liberal arts curricula. See page 19. Students may not ordinarily apply more than a total of twelve units of credit, earned in courses so designated, toward the requirements for the bachelor of arts degree. The prefix "52" indicates courses which are offered through the Extension service, and "56" denotes courses which are available during the Summer Session.

Freshmen are not admitted into upper division courses.

A sophomore may enroll in an upper division course for lower division credit provided he has earned an average grade of not less than 1.5 in all college work undertaken, and provided he receives the instructor’s permission to enroll in the course. A second semester sophomore may enroll in an upper division course for upper division credit without the foregoing grade limitations provided the units earned in the upper division course or courses are in excess of the sixty units required in the lower division.

One "unit" represents an hour recitation or lecture, together with the required preparation, or three hours laboratory work each week for a semester of 18 weeks.

The semester in which courses are offered is designated as follows: (1) Fall; (2) Spring; (3) Fall and Spring; (4) Year course, beginning either Fall or Spring; (5) Year course. Courses designated as "Year course" begin in the Fall, but those given in the list below may be taken in the reverse order (i.e., the second semester of the course may be taken before the first semester) or the second semester may be taken alone. In the case of other year courses, students who have completed the equivalent of the first semester’s work may seek permission from the instructor to take the second half of the course.

Year Courses Open to Registration in the Middle of the Year

<table>
<thead>
<tr>
<th>Aesthetics 1A-1B</th>
<th>History 121A-121B</th>
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<tbody>
<tr>
<td>Aesthetics 102A-102B</td>
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<td>History 151A-151B</td>
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<td>History 4A-4B</td>
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<td>History 8A-8B</td>
<td>Speech Arts 156A-156B</td>
</tr>
<tr>
<td>History 111A-111B</td>
<td>Speech Arts 156A-156B</td>
</tr>
</tbody>
</table>

Although the College fully expects to carry out the arrangements planned in the list of courses, it reserves the right to make changes. Classes in which the enrollment does not come up to the minimum number set by the State Department of Education may not be offered or may be postponed.
AESTHETICS

LOWER DIVISION COURSES

1A-1B Survey of Music
Correlation of music and other arts. Designed to stimulate enjoyment of music by developing intelligent listening. The elements of music, its structure, folk music of all countries, musical instruments, and the contributions of the best known composers, with some biographical study of these men. Compositions are presented by orthophonic recording and by class members. Attendance at a number of local concerts is required. No previous musical training or background is necessary. Music majors are required to complete additional assignments for full credit.
Year course (2-3)

5 Fundamentals of Art
An illustrated lecture course involving a study of aesthetic meaning and its relation to the structure of art products. Designed to increase both understanding and appreciation of the visual world in general and of the fine arts in particular.
Fall and Spring (2)

50 Appreciation and History of Art
A survey of aesthetics development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.
Fall (2)

51 Survey of Mexican Art
A study of Mexican and Middle American Art from earliest time to present.
Fall (2)

ANTHROPOLOGY

Lower division preparation for the liberal arts major in social science with concentration in anthropology: Anthropology 50A-50B, Sociology 50A, 50B, Geography 1, 2. Recommended: Geology 1A-1B, Economics 1A-1B. See requirements for the social science major, page 107.

1A-1B General Anthropology
Year course (3-3)

54 Social Anthropology
An anthropological study of social institutions in primitive and civilized societies. The evolution of family organization, religion, property right, and government traced in elementary and advanced civilization.
Spring (3) (Not offered 1944-45)

ART

55 Culture History
The prehistoric and historic development of culture types contributing to Western European and American civilization of today. Egyptian, Semitic, Indo-European, and Oriental cultures examined in light of their bearing on contemporary civilization. Methods of art spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.
Fall (3) (Not offered in 1944-45)

56 Backgrounds of World Religions
An introductory study of Judaism, Christianity, Islam, Buddhism and Shinto from the viewpoint of their anthropological development and their role as cultural forces. Concepts of gods and spirits, rituals, ethical systems, and symbolism.
Spring (3)

UPPER DIVISION COURSES

151A The North American Indian
Pre-Columbian cultures of the North American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization.
Fall (3) (Not offered in 1944-45)

151B Indian Civilizations of Middle America
The development of civilization in Pre-Columbian Mexico and Central America: Aztec, Mayan, and related cultures.
Spring (3)

152 Primitive Cultures (Ethnography)
History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of preliterate culture groups.
Fall (3) (Offered in 1944-45 and alternate years)

153 Primitive Religion
Spring (3) (Offered in 1944-45 and alternate years)

157 Primitive Myths and Rituals
The folklore, mythology, and rituals of primitive cultures in the Eastern Mediterranean area. The early beliefs and classic myths of the Egyptians, Assyrians, Babylonians, and Greeks.
(Not offered 1944-45)

ART

Many students, regardless of the field in which they may be majoring, recognize the need for an intelligent approach to the subject of art and art appreciation. However, due to the erroneous popular feeling that art is so specialized a subject as to require "talent," these students may refrain from enrolling in any art courses.
For students who desire a better understanding of art, but who do not hope to acquire any of the art skills, the following courses are recommended:

Units

Aesthetics 5, Fundamentals of Art 2
Aesthetics 50, History and Appreciation of Art 2
Aesthetics 51, Survey of Mexican Art 2
Art 8A-8B, Appreciation of Costume and Home-furnishing 4

Other courses which involve certain skills but which are not of reach of the ability of the average college student are:

Art 61B, Crafts 2
Art 6A, Art Structure 2
Art A, Freehand drawing 2
Art 94, Costume design 2
For students who might wish to complete a minor in art after having met the lower division requirements from the preceding page, the following courses are recommended as not requiring any fundamental training in drawing and design.

Art 119, Ceramics .......................................................... 2
Art 152A, Stage Design .................................................. 2
Aesthetics 190, History and Appreciation of Art .................. 2

Candidates for a teaching credential in art should refer to the statement "Admission to Teacher Education" on page 21.

Lower division preparation for the liberal arts major in art: Aesthetics 5 or 51, and 50; Art A-B and 64-65; or the accepted equivalents, and four elective units in art.

Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 116A-116B, 152A, 185, or the accepted equivalent; Aesthetics 158. It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 106A-106B, 107A-107B, 117; French A-B; History 44A-44B, 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 54.

LOWER DIVISION COURSES

A-B Freehand Drawing Jackson
Semester I: Problems involving perspective to develop ability to draw still life, furniture, exteriors, interiors, and the like.
Semester II: Outdoor sketching of landscape and figure, and studio work from still life and costume pose. Emphasis on composition and technique in the handling of various mediums, pencil, pen and ink, charcoal, pastel, and water color.
Year course (3-3)

6. Structure Patterson
Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced work.
Fall and Spring (3)

6B Structure (continued) Patterson
Original work in creative design and representation with special stress on modern tendencies. Prerequisite: Art 6A.
Fall and Spring (3)

L7 Line, Color and Display Patterson
The principles of line, color and arrangement applied to store and window display. Models and practical problems in arranging colors, textures, and forms in windows to fit different kinds of merchandise.
Fall and Spring (2) (Not offered in 1944-45)

8. Appreciation of Costume and Home Furnishing Hamann
8A A survey of the periods of costume and home furnishing from primitive man to the present time.
Fall (2)

8B Lectures, discussions, and demonstrations on the underlying principles of dress and home furnishing. (a) A study of the design, color, texture, fabric, and fashion in dress. An analysis of the personality and the occasion. Selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home.
Spring (2)

11A Industrial Design Hamann
Original design in its relationship to various fields—ceramics, furniture, textiles, jewelry, and books. A survey and study of materials and processes in machine and hand production. Prerequisite: Art 6A-6B.
Fall (2)

11B Advanced Industrial Design Hamann
Advanced problems with emphasis upon the related factors of material and production. Application of problems designed. Prerequisites: Art 6A-6B, 11A.
Spring (3)

L14A Lettering Hamann
Fundamental art principles applied to lettering. Practice for quick, accurate lettering; original problems using letters as design. Prerequisite: Art 6A.
Fall (2)

14B Posters and Commercial Art Hamann
The application of lettering to posters, newspaper and magazine advertising, and other forms of commercial art. The study of composition combined with lettering and special study of modern tendencies in publicity. Prerequisites: Art 6A, 14A.
Spring (3)

15A-15B Life Drawing Jackson
Drawing from the nude model. Prerequisite: Art A-B.
Year course, beginning either Fall or Spring (3-3)

16A-16B Painting Jackson
Semester I: Composition of still life and flower forms in water color and oil. Semester II: Landscape and more advanced composition in water color and oil. Prerequisite: Art A-B.
Year course, beginning either Fall or Spring (3-3)

52A Stage Design Patterson
Theory of line, color, and lighting in relation to the stage. Original sets and costumes developed on a miniature stage. Study of the development of the modern art of the theatre. Upper division credit will be given in this course to students of junior standing upon the completion of extra theme work and additional original problems. Prerequisite: Art 6A.
Fall (2)

52B Stage Costume (See 152B) Patterson
Fall (2)

Art 61A Fine and Industrial Arts Hamann
A foundation course which develops unification of work of the elementary grades through activities and experiences. These experiences grow out of environmental activities. They include study and working of clay, lumber and tools, textiles, and cardboard construction. Prerequisite: Art 6A.
Fall and Spring (2)

61B Elementary Crafts Hamann
Problems involving the application of design principles to various fields—pottery, textiles, weaving, metal work, wood carving, and book binding. Prerequisite: Art 6A.
Fall and Spring (2)

94 Costume Design Patterson
Original designs of modern costumes suitable to the individual or to distinct types; the drawing of fashion figures; the rendering of fabrics and textures. Prerequisite: Art 6A.
Spring (3)

96 Home Decoration (See Art 195) Patterson
ASTRONOMY

Lower division preparation in Astronomy desirable for advanced work: Astronomy 1, 2, A and B; Mathematics 8A-AS, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of French and German desirable.

1 Descriptive Astronomy
A cultural course planned to develop an appreciation of astronomy with special emphasis on the solar system. Only calculations of an elementary nature are used. Special attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch John Byrne refractor and an eight-inch reflecting telescope are available for observation.

Prerequisites: Elementary algebra and plane geometry.

Fall (3)

2 Modern Astronomy
A study of sidereal astronomy and astrophysics in the light of modern research, especially photographic and spectrographic. Prerequisite: Astronomy 1 and a knowledge of physics or permission of the instructor.

Spring (3) (Not offered in 1944-45)

3 Surveyor's Course in Practical Astronomy
The principles of spherical astronomy adapted to the needs of engineering students. Computation and observation. Prerequisites: Surveying 1A or permission of the instructor. Astronomy 1 and 9 desirable.

Spring (2) (Not offered in 1944-45)

9 Practice in Observing
A laboratory course designed particularly to go along with and to supplement Astronomy 1. The course will include constellation study, use of astronomical coordinates, elementary methods of determining time and latitude, and descriptive observations of celestial objects with the six-inch telescope. Prerequisite: Astronomy 1 or registration in Astronomy 1 or permission of the instructor.

(Not offered in 1944-45)

12 Elementary Navigation
A study of compass corrections, drift problems, time, line of position, use of celestial coordinates, Bowditch Tables, etc. A few class hours at the close of the term are devoted to the use of tables such as Ageron, Dresenstok and H. O. 214 for the solution of astronomical triangle. Offered if demand is sufficient. Prerequisite: Astronomy 1 or permission of instructor.

Spring (2) (Not offered in 1944-45)

UPPER DIVISION COURSES

100 Special Problems
Admission by consent of instructor. Credit and hours to be arranged in each case. Open to students who have completed three units in astronomy.

Fall and Spring (1 or 2) (Not offered in 1944-45)

105 Historic Development of Astronomy
A study of the more important problems and astronomical concepts in the light of their historical development. Particular attention is given to the biography and contributions of the more important astronomers, such as Galileo, Kepler, Newton, Herschel, and Bessel.

Spring (3) (Not offered in 1944-45)

107 Method of Least-Squares and Computing Practices
Fundamental principles and processes and applications in the fields of astronomy, physics, and engineering.

Spring (3) (Not offered in 1944-45)

TWO-YEAR COURSE

L40 Elementary Astronomy
Watson
A survey course planned to acquaint the student with the more important facts pertaining to both the solar system and to the stars. The first part of the course is devoted to the study of the earth as an astronomical body and to the other planets. The latter part is devoted to a study of the sun and stars. Open only to students enrolled in a two-year curriculum.

Spring (3)
BIOLOGICAL SCIENCES

The courses offered in Biological Sciences are listed below. Anatomy, see Zoology, page 113; Physiology, page 102; and Zoology, page 113.

BIOTERIOLOGY

1 General Bacteriology
Harvey

An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the bacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.

Fall (4)

199 Special Problems
Harvey

Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of work in the department (including courses in Bacteriology and Chemistry) with grades of A or B. Fall or Spring (1 or 2)

BIOLOGY

LOWER DIVISION COURSES

1 Survey of Biology
Crouch

A survey of life science, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern life and the application of scientific analysis to everyday problems. Three lectures and one hour of demonstration and discussion per week. Not open to students with credit for Biology 10A-10B, Zoology 1A-1B, or Botany 2A-2B.

Fall (3)

10A-10B General Biology
Johnson

A year course in life science, more extensive than "Biology 1." Continues throughout the year and includes a three-hour laboratory period, and two hours of lectures per week. Designed for those who do not specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, Biology 1, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

Your Course (2-3) Begins in Fall only

LA Mathematics of Solutions and Dosage
Johnson

An arithmetic review with computing of dosage, percentage of solutions, apothecaries' weights and graph making. Two hours per week.

Fall (1)

UPPER DIVISION COURSE

123 Economic Biology
Harwood

Study of the uses of plants and animals to man and the ways in which they injure him and his possessions. Consideration is also given to general methods of control and conservation. Prerequisites: Zoology 1A, Biology 1, or Biology 10B.

Fall (2)

TWO YEAR COURSE

149 Man and His Biological World
Crouch

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Not open to students who have credit in high school biology. Open only to students enrolled in a two year curriculum.

Spring (3)

BOTANY

LOWER DIVISION COURSES

2A General Botany
Harvey

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and six hours of laboratory per week.

Fall (4)

2B General Botany
Harvey

A continuation of 2A treating morphology and relationship of the lower plants and including an introduction to classification of seed plants. Lectures and laboratory as in 2A.

Spring (4)

4 California Plants
Harvey

Classification and ecology of representative orders of wild flowers, trees, and chaparral of the San Diego region, including practice in the use of keys. One lecture and three hours laboratory per week. Occasional Saturday field trips.

Spring (2)

5 Cultivated Trees and Shrubs
Harvey

Recognition of the common cultivated trees and shrubs of the San Diego region. Trips to local parks and private gardens. Three hours per week laboratory or field work.

Fall (1) (Not offered in 1944-45)

UPPER DIVISION COURSES

102 Plant Geography
Harvey

Lectures and field work on the principles of geographical distribution of plants. Prerequisite: Botany 2A-2B, or 4, or equivalent.

Fall (2) (Offered in 1945-46 and alternate years)

104 Plant Taxonomy
Harvey

Identification, classification and distribution of representative orders of flowering plants. One hour of lecture and six hours per week of laboratory and field work.

Prerequisites: Botany 2A-2B, or 4.

Spring (3) (Offered in 1945-46 and alternate years)

199 Special Problems
The Staff

Work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open only to students who have completed at least fifteen units of Botany with a grade of A or B.

Fall and Spring (1 or 2)

CHEMISTRY

LOWER DIVISION PREPARATION FOR ADVANCED WORK IN CHEMISTRY: Chemistry 1A-1B with an average grade of C or better, Chemistry 2A-2B and 3A-3B or their equivalent, Mathematics 3A-3B or the equivalent, and a reading knowledge of German. Students planning to do graduate work in chemistry or to transfer to certain other colleges and there work for a degree with a minor in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

LIBERAL ARTS MAJOR (UPPER DIVISION): A minimum of twenty-four upper division units in chemistry including Chemistry 155A-155B, 110A-110B and 111A-111B. The choice of related minors and the organization of the course of the major student must follow a definite plan approved by the department.

For requirements for liberal arts major in physical science, see page 109.
BIOLOGICAL SCIENCES

The courses offered in Biological Sciences are listed below. Anatomy, see Zoology, page 113; Physiology, page 163; and Zoology, page 115.

BACTERIOLOGY

LOWE DIVISION COURSES

1 General Bacteriology

An introduction to bacteriology. Effects of physical and chemical agencies upon bacteria; biochemical activities of bacteria; microscopic examination and cultivation of bacteria; the bacteria of air, water, soil, milk and dairy products, other foods; industrial applications. Introduction to disease-producing bacteria. Required of prenursing students. Two hours of lecture and six hours of laboratory per week. Prerequisite: Chemistry 1A or 2A.

Fall (3)

199 Special Problems

Work other than is outlined in the regular courses. Admission only by consent of the instructor with whom the work is to be done. Credit and hours to be arranged in each case. Open to students who have completed at least fifteen units of work in the department (including courses in Bacteriology and Chemistry) with grades of A or B. Fall or Spring (1 or 2)

BIOLOGY

LOWE DIVISION COURSES

1 Survey of Biology

A survey of life science, stressing the development of modern concepts in the fields of plant and animal science, bacteriology, genetics, and physiology. Emphasis is placed on the relationships of biology to modern life and the application of scientific analysis to everyday problems. Three lectures and one hour of demonstration and discussion per week. Not open to students with credit for Biology 10A-10B, Zoology 1A-1B, or Botany 2A-2B.

Fall (3)

10A-10B General Biology

A year course in life science, more extensive than "Biology 1." Continues throughout the year and includes a three-hour laboratory period, and two hours of lectures per week. Designed for those who do not expect to specialize in zoology or botany; not open for credit to students who have taken Zoology 1A, Biology 1, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit. Year Course (3-3) Begins in Fall only

LA Mathematics of Solutions and Dosage

Arithmetic review with computing of dosage, percentage of solutions, apothecaries weights and graph making. Two hours per week.

Fall (1)

UPPER DIVISION COURSES

123 Economic Biology

Study of the uses of plants and animals to man and the ways in which they injure him and his possessions. Consideration is also given to general methods of control and conservation. Prerequisites: Zoology 1A, Biology 1, or Botany 10B.

Fall (3)

TWO YEAR COURSE

L40 Man and His Biological World

A survey of the general field of biology with emphasis on the role of biological science in the welfare of man and his associates, consisting of three lectures and one demonstration period per week. Not open to students who have credit in high school biology. Open only to students enrolled in a two year curriculum.

Spring (3)
ECONOMICS AND COMMERCE

118 Colloid Chemistry
Messner
A lecture course covering the theoretical principles of colloid chemistry and the preparation, properties and practical applications of colloids. Prerequisite: Chemistry 7-8.
Fall (2) (Not offered in 1944-45)

123-124 Organic Preparations
A laboratory course illustrating some of the more important synthetic methods of organic chemistry. Laboratory and conferences. Prerequisite: Chemistry 7-8. A reading knowledge of German recommended.
Beginning either Fall or Spring (1 to 5 to 1 to 5) (Not offered in 1944-45)

125 History of Chemistry
Development of the science of chemistry from the time of the alchemists to the present. Conducted on the reading, report, and seminar basis. Prerequisite: Chemistry 7, 8.
Fall (2) (Not offered in 1944-45)

127 Advanced Inorganic Chemistry
Ross
A detailed study of the Periodic Table. Discussion of complex inorganic compounds and oxidation-reduction potentials. Prerequisite: Chemistry 1A-1B and upper division standing.
Fall (2) (Offered in 1944-45 and alternate years)

144 Industrial Chemistry
Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B.
Spring (3) (Not offered in 1944-45)

199 Special Problems
Instructors of the Department
Supervised individual work in specialized branches of chemistry. Admission only by the consent of the instructor. Hours and credit to be arranged in each case. Only open to upper division students who have shown their ability to do A or B work in Chemistry.
Fall and Spring (1-3) (Not offered in 1944-45)

COMMERC (See Economics and Commerce, below)

ECONOMICS AND COMMERCE

The department provides an opportunity for the student to choose between a major in economics and a major in commerce in satisfying the requirements for the Bachelor of Arts degree.

Economics. Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B, 11A-11B and at least one of the following: Political Science 1A-1B or 21A-21B; History 1A-1B; Psychology 1A-1B; Sociology 10A-10B; Anthropology 1A-1B. Recommended: Economics 18A-18B, Geography 10A-10B.

Liberal arts major in economics, 21 upper division units required as follows: Economics 100A, 110, 100B or 111, with 9 or more additional units selected from Economics 100B, 107, 111, 125, 181, 183, 155, 156, 171, and 185. Electives: Six or more additional upper division units in economics. Political Science 13A-13B may be substituted for elective units in economics.

Commerce. Candidates for a teaching credential in business education should refer to the statement "Admission to Teacher Education Curricula" on page 21 and to the curriculum for the A.B. degree with a special credential in Business Education on pages 30 to 31.
LOWER DIVISION COURSES

1A-1B Principles of Economics
Cameron
The basic principles of economics: utility, wealth, value, price; economic production, distribution, and consumption; rent, interest, wages, and profit; competition, monopoly, and large scale production; property, economic waste, and luxury; money and banking, international trade and tariffs; transportation corporations, labor problems, socialism, taxation, etc. Aims of the course: (1) to provide a foundation for further intensive study of economic problems; (2) to furnish to those who expect to follow business pursuits a broad foundation in economic principles; and (3) to introduce future citizens to political and economic problems of our time. Lectures, discussions, quizzes, and collateral reading. Not open to entering freshmen except by special arrangement. Year course (3-3)

2 Mathematics of Finance
Wright
Interest and annuities; amortization; sinking funds; valuation of bonds; depreciation; mathematics of building and loan associations; mathematics of life insurance. Prerequisites: Two years of algebra in high school, or equivalents. Spring (3)

1A-1B Principles of Economics
Cameron
A knowledge of bookkeeping not required and not advantageous. The balance sheet, profit and loss statement; various types of books of original entry; the opening, closing, and balancing of books for different kinds of businesses; organizations, reorganizing practice. Five hours lecture and laboratory. Year course (3-3)

1A-1A Accounting
Wright
The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence. Year course (3-3)

UPPER DIVISION COURSES

100A Modern Economic Thought
Cameron
Review of schools of economic thought in the light of recent economic theory with special reference to values and distribution. Special attention is given to the marginal utility theory of value, to the contributions of the institutional economists, and to the work of statisticians in the development of economic theory. Prerequisite: Economics 1A-1B. Fall (3)

1A-1B Principles of Economics
Cameron
1A-1B Principles of Economics
Cameron
A knowledge of bookkeeping not required and not advantageous. The balance sheet, profit and loss statement; various types of books of original entry; the opening, closing, and balancing of books for different kinds of businesses; organizations, reorganizing practice. Five hours lecture and laboratory. Year course (3-3)

1A-1A Accounting
Wright
The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and business transactions, rather than the development of those principles. The subjects covered: contracts, sales, agency, partnerships, corporations, real property, negotiable instruments, insurance, and wills, with a brief study of evidence. Year course (3-3)

100B Modern Economic Thought
A problem course. Subjects include price theory; distribution with particular emphasis on income; effects of various kinds and degrees of competition and regulation; war economy and government planning. Recommended: Economics 100A. Spring (3) (Not offered in 1944-45)

103 The Economics of War and Post-War Recovery and Reconstruction
A. G. Peterson
I. Backgrounds of the Present War; II. The Requirements of War Economy; III. International Recovery and Reconstruction; IV. National Recovery and Reconstruction. Spring (3)

107 Credit and Credit Institutions
A study of the economics of credit, its cost, and the agencies supplying credit. Special attention is given to the growth of government credit agencies and their place in modern economic society. Prerequisite: Economics 1A-1B. Recommended: Economics 100. Spring (3) (Not offered in 1944-45)

111 Economic History of the United States
Wright
A comprehensive survey of American economic development and of national legislation in the field of industry. Spring (3)

121 Business Administration
A. G. Peterson
Problems of business administration as an interrelated whole and as an indication of lines of study which may lead to the solution of those problems. A discussion of the problems of the business administrator with particular reference to the character of the problems involved and to the control policies and devices of the manager. Questions, problems, and case studies. Prerequisite: Economics 1A-1B. Fall (3)

125 Principles of Marketing
A survey of the fundamental principles and methods of marketing. Intended as a basic training for students interested in the economics of advertising, sales management, retailing, and foreign trade, as well as for those wishing a knowledge of the existing market structure. Subjects covered include price policies, distribution methods, finance, risk, market information, and governmental regulation. Prerequisite: Economics 1A-1B. Spring (3) (Offered 1943-44 and alternate years)

127 Life Insurance—Principles and Practice
A study of social and individual values involved in the institution of life insurance. The student is then directed to the types of life insurance companies and associations, home office and agency organization, types of contracts, surrender value, policy loans and extended insurance, surplus and dividend policies, reserves, group, industrial, and social insurance, and state supervision. Fall (3) (Not offered in 1944-45)

128 Land Economics
Real estate in all its aspects: property rights, transfer of title, valuation, finance, selling, property management, taxation, insurance, city planning, and the like, with special emphasis upon problems as they exist in San Diego. Spring (3) (Not offered in 1944-45)
131 Public Finance and Taxation
A. G. Peterson
Principles and practice of taxation, public expenditures, and financial administration. Economic effects of public expenditure, indebtedness, and taxation. Prerequisite: Economics 1A-1B.
Spring (3) (Not offered in 1944-45)

133 Corporation Finance
C. Cameron
The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.
Fall (3)

134 Investments
C. Cameron
Investment principles and practices with emphasis upon problems of the small investor, such as selection of stocks, bonds, and other investment securities. Prerequisite: Economics 1A-1B.
Spring (3)

135 Money and Banking
C. Cameron
The elements of monetary theory, history and principles of banking with special reference to the banking system of the United States. Prerequisite: Economics 1A-1B.
Spring (3)

137 Credits and Collections
C. Cameron
The credit man and his work, including the instruments with which he works, sources of credit information, the technique of his department, collection methods, and other matters related to the protection of debtor and creditor, and credit insurance. Prerequisite: Economics 1A-1B.
Fall (3) (Not offered in 1944-45)

140 Statistical Methods
C. Cameron
The nature and uses of statistical methods in the social sciences. Practice in tabular and graphic presentation of data; analysis of frequency and time series; index number construction. Prerequisite: Mathematics A and D, or equivalent.
Fall (3)

142 Business Fluctuations and Business Forecasting
C. Cameron
Fundamental factors in business cycles are analyzed and cycle theories are examined. Study of current business conditions begins early in the course and develops into practice of forecasting methods to both business and other data. Prerequisite: Economics 140.
Spring (3) (Not offered in 1944-45)

150 Labor Problems and Industrial Relations
A. G. Peterson
A discussion of employment, hours, wages, working conditions, insurance, pensions, workmen's compensation, labor organizations and labor legislation. Organization of plans, morale.
Spring (4) (Offered in 1945-46 and alternate years)

160A-160B Advanced Accounting
Wright
An intensive study of the corporation, its accounting and financial problems; a thorough study of the balance sheet; depreciation; factory accounting, etc. Under practi- cal accounting an endeavor is made to design, construct, and operate sets of books to laboratory, Prerequisite: Economics 14A-14B.
Year course (3-3) (Offered in 1944-45 and alternate years)

161 Cost Accounting
Wright
Principles and methods of cost accounting in the mercantile establishment and in the factory. A study of bookkeeping procedure, the forms used, and their application to practical problems. Prerequisite: Economics 14A-14B.
Fall (3) (Offered in 1944-45 and alternate years)

162 Accounting Systems
Wright
The accounting systems used in various types of business and financial concerns. Some practice in devising and installing systems. Prerequisite: Economics 14A-14B.
Spring (3) (Offered in 1945-46 and alternate years)

164 Income Tax Procedure
Wright
A consideration of the problems arising from the Federal income tax. The problems are approached from the point of view of the taxpayer who desires to determine the exact application of the law to the facts presented as well as from the accounting point of view. No knowledge of accounting procedure is necessary.
Fall (3) (Not offered in 1944-45)

165A-165B Auditing
Wright
The fundamental principles of accepted procedures of auditing and related types of accounting engagements.
Year course (5-5) (Not offered in 1944-45)

166 Honors Course
The Staff
See page 15.
Fall (3) or Spring (3)

167 Governmental Accounting
Wright
A comparative study of accounting systems used by municipalities, counties, and the state of California; detailed comparisons with commercial practice; procedures in handling budget accounts, appropriations, and encumbrances; subsidiary records; cost records; internal checks; auditing.
Spring (3) (Not offered in 1944-45)

171 Transportation
C. Cameron
The development of railway transportation; railroad financing; rates and rate making; governmental regulation; government operation of railroads during the war; recent development of motor and air transportation; current problems in public utilities. Prerequisite: Economics 1A-1B.
Fall (3) (Offered on demand)

195 International Economic Relations
A. G. Peterson
A brief treatment of certain geographical, sociological, and legal phases of international relations followed by a study of the commercial and industrial basis of world trade. Prerequisite: Economics 140. (Offered in the summer session)

198 Investigation and Report
A. G. Peterson
Designed to stimulate independent study and investigation; to furnish guidance in the collection, organization, and presentation of factual material; to improve the technique of term reports.
Fall and Spring (1-3)

TWO-YEAR COURSES

L15A-L15B Elementary Accounting
Watenaugh
An introductory course in the fundamental principles of accounting; recording business transactions; opening and closing books of different kinds of business in accordance with modern accounting practice; accounting theory combined with actual prac-
L16A-L16B Secretarial Accounting  
Watenpaugh  
A course in secretarial accounting covering the fundamental principles of accounting and the application of these principles to the accounting work required by one employed in a secretarial capacity. Open only to students enrolled in a two-year curriculum.
Year course (3-3)

L45A-L45B Business Economics  
Cameron  
A basic course in the general principles of business economics and the application of these principles to current problems of man's economic life. A coordinated description of economic conditions, circumstances and forces which are of general significance throughout the business world. The development of theory as an interpretation of and guide to practice. Emphasis placed on actual business and financial operations and matters of everyday business experience which may serve as guides for individual conduct and the development of social policy. Human wants and their satisfaction; organization and purpose of business; risks and insurance; how prices are determined; money, credit and banking; taxation; principles of consumption; government and business; wealth, value, capital, rent, interest profits; etc. Not open to freshmen. Open only to students enrolled in a two-year curriculum.
Year course (3-3)

L65A-L65B Record Keeping  
Watenpaugh  
An advanced course in the application of accounting theory and principles to accounting practice; the technical arrangement of accounting forms, records and reports found in business; advanced theory. Opportunity afforded students through the use of practice sets, etc. to secure practice in applying principles to actual work done in business. Prerequisite: Accounting 15A-15B or 16A-16B or Economics 14A-14B. Open only to students enrolled in a two-year curriculum.
Year course (3-3)

COMPARATIVE LITERATURE
Requirements for the minor in Comparative and General Literature: (1) a minimum of twelve units of work must be completed in courses offered by the department, at least six of which must be in upper division courses; (2) the work to be taken should be arranged in consultation with an instructor selected by the department.

LOWER DIVISION COURSES
For a description of this course, see English 52A-52B.
Year course (3-3)

UPPER DIVISION COURSES
101A Modern Continental Fiction  
Dickhaut  
For description, see English 101A.
Spring (3) (Offered in 1944-45 and alternate years)

104 Latin-American Literature in English  
Phillips  
A study of the principal writers of the Latin-American countries, with lectures in Spanish credit will be given to those who wish to do the requisite reading in Spanish.
Spring (3) (Offered in 1944-45 and alternate years)

115 The Bible as Literature  
Kennedy  
For description, see English 115.
Fall (3) (Not offered in 1944-45)

EDUCATION

L100A Methods and Materials of Instruction  
Deputy  
A course required of all candidates for the junior high and all special secondary school programs. Prerequisites: English I and II. Course work in the field of the teaching major or minor. The course deals with specific methods and materials in the fields of the teaching major or minor. Subject sections in L100B are as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Section</th>
<th>Semester</th>
<th>Department</th>
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<tbody>
<tr>
<td>Ed. L100B-1</td>
<td>Methods in Art</td>
<td>Both</td>
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<tr>
<td>Ed. L100B-2</td>
<td>Methods in Bookkeeping</td>
<td>Spring</td>
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<tr>
<td>Ed. L100B-3</td>
<td>Methods in Bus. Educ.</td>
<td>Fall</td>
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<tr>
<td>Ed. L100B-4</td>
<td>Methods in English</td>
<td>Spring</td>
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<tr>
<td>Ed. L100B-5</td>
<td>Romance Language Methods</td>
<td>Winter</td>
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<tr>
<td>Ed. L100B-6</td>
<td>Mathematics</td>
<td>Fall</td>
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<tr>
<td>Ed. L100B-7</td>
<td>Methods in Merchandising</td>
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<tr>
<td>Ed. L100B-8</td>
<td>Methods in Music</td>
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<tr>
<td>Ed. L100B-9</td>
<td>Methods in Phys. Ed. (Men)</td>
<td>Fall</td>
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<tr>
<td>Ed. L100B-10</td>
<td>Methods in Phys. Ed. (Women)</td>
<td>Fall</td>
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<tr>
<td>Ed. L100B-11</td>
<td>Methods in Science</td>
<td>Spring</td>
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<tr>
<td>Ed. L100B-12</td>
<td>Methods in Speech Arts</td>
<td>Fall</td>
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<td>Ed. L100B-13</td>
<td>Methods in Stenography</td>
<td>Fall</td>
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<tr>
<td>Ed. L100B-14</td>
<td>Methods in Social Science</td>
<td>Fall</td>
<td></td>
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<tr>
<td>Ed. L100B-15</td>
<td>Methods in Typing</td>
<td>Spring</td>
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</tbody>
</table>

140 Masterpieces of French Literature  
E. M. Brown  
A cultural course designed to be given in introduction to the great French works from the Song of Roland through Cyrano de Bergerac, with emphasis on the 18th, 19th, and 20th century authors. The contributions to world literature by Racine, Moliere, Voltaire, Rousseau, Hugo, Balzac, Flaubert, Maupassant, Zola, will be studied through lectures and outside readings.
Fall (3) (Offered in 1944-45 and alternate years)

142 German Literature in English  
Walker  
Masterpieces of German literature from the 18th and early 19th centuries. English translations read. No knowledge of German required.
Spring (3) (Offered in 1944-45 and alternate years)

144 Spanish Literature in English  
A study of the principal Spanish writers, emphasizing the 17th and 19th centuries and stressing the relationships between Spanish and other European literature. All lectures, collateral reading and reports in English.
Fall (3) (Not offered in 1944-45)

152A Survey of Drama: Comedy  
For description, see English 152A.
Fall (3) (Not offered in 1944-45)

152B Survey of Drama: Tragedy  
For description, see English 152B.
Spring (3) (Not offered in 1944-45 and alternate years)

157 Primitive Myths and Rituals  
Rogers  
For description, see Anthropology 157.
Spring (3) (Offered in 1944-45 and alternate years)
One unit of this course is to be taken with the college supervisor of directed teaching in the secondary schools and must be taken in conjunction with the first assignment of directed teaching; two units are taken with an instructor in the major subject field.

Fall and/or Spring, as indicated (3)

102A Measurement in Education

A course required of all students preparing for a teaching credential. It deals with the use of tests in the diagnosis and improvement of learning; construction of objective examinations; problems of evaluation in education; and the elements of statistical techniques.

Fall and Spring (3)

102B Child Growth and Development

The course deals with a study of the mental, emotional, social, and physical development during childhood and adolescence.

Directed observation required. Students who have credit in Psychology 102A or 102B will receive only half credit for this course.

Fall and Spring (3)

LE 109B Educational Administration and Supervision Field Work

Individual field work as required for the administration credential. By arrangement with the Dean of Education. (3)

LS 110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Graduation from college with a teaching credential or two or more years of teaching experience.

Summer (3)

LS 111 English in the Junior High School

Objectives of literature and language teaching in the junior high school; criteria for selection of material; technique of classroom procedure; observation in the city schools. Prerequisites: The satisfaction of the lower division requirements in English for the teaching major in English.

Summer (3)

LS 114 Social Science in the Junior High School

The teaching of some of the elementary facts and principles of a "general" social science suited to the experience and development of the junior high school pupil, history, geography, and civics. Methods of developing a genuine and continuing interest in social and civic problems through observation and reading, discussed and illustrated. Special stress on evaluating historical and geographical material for educational purposes on this level. Prerequisites: Six units of geography and six units of history.

Summer (3)

Education 115A History and Philosophy of Education

A study of the historical backgrounds and underlying philosophies upon which the modern public elementary and general junior high school education is built. Required of all candidates for the general elementary and general junior high school credentials. Recommended for all other credential candidates. Prerequisite: senior standing or the equivalent.

Fall and Spring (3)

Education 115B Secondary Education

Prevaling types of secondary education; curricular organization; trends in organization and development; teacher and pupil personnel; underlying aims and principles. Required of candidates for the general junior high and special secondary school credentials. Prerequisite: senior standing or the equivalent.

Fall and Spring (3)

L 116 Directed Teaching

A study of teaching under supervision in the campus elementary school, the affiliated city elementary school, the Woodrow Wilson Junior High School, and the Herbert Hoover Senior High School. All students enrolled in directed teaching in the secondary schools are automatically enrolled in Education 102B which meets throughout the semester as announced in the time schedule.

The general plan is for elementary school credential candidates to take, in addition to the education practicum, a half-day of teaching daily in the campus elementary school or two and one-half hours daily in one of the affiliated city elementary schools throughout one semester. Junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their directed teaching. For those seeking a combination of credentials, the requirements for each teaching level must be satisfied. Further information regarding this requirement should be requested of the Dean of Education when the student first registers for directed teaching.

Thirty clock hours of directed teaching will usually carry one unit of credit in the course, but the final amount of credit allowed will depend upon the character and quality of the teaching done by the student. Directed teaching requirements may be reduced for those who furnish evidence of successful public school experience.

The maximum amount of credit allowed for this course is twelve units.

The universities usually reduce the amount of directed teaching credit will they allow to four units. Students planning to transfer to such institutions should be prepared to meet this reduction with an equal number of acceptable units in other courses.

No grade below C is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work; admission to teacher education; a C average in all college work and in the work of the preceding semester; three units of work in psychology; a minimum of one semester's work in this college. No credit of work in psychology is acceptable.

Fall and Spring (3)

L 117A Music in the Elementary School


Fall and Spring (3)

L 117B Methods in Instrumental Music

A study of the theory and practice of instrumental music education. The study of the selection and instruction of students for instrumental music. Credits are not acceptable for graduation.

Fall and Spring (3)

L 119 Art in the Elementary School

A study of the nature and place of art in the school curriculum. Discussion of the elements and principles of art and their place in the art expression of the elementary school child. Lectures illustrated with samples in the elementary school child. Lectures illustrated with samples of children's works and opportunity given for experience with mediums used in elementary school art classes.

Fall and Spring (3)

L 127 Secondary Music Education

A study of the interpretation of music, the role of music in education, and the techniques of music teaching in the secondary schools. Credits are not acceptable for graduation.

Fall (2) (Offered in 1916-16 and alternate years)
L130 Educational Psychology
Maul's equipment for learning and the learning process. Consideration given to human behavior which is fundamental to learning. The study of learning includes such topics as laws of learning, improvements in learning, remembering and forgetting, fatigue in learning, and the transfer of training. Prerequisite: Psychology 1A. Summer (3)

L145 Organization and Administration of Music Education
L. D. Smith
Theory of the general principles of music administration; correlation of music with the various subjects in the public schools; music tests; creative work. Fall (2) (Offered in 1944-45 and alternate years)

L147A Education Practicum (Kindergarten-Primary)
I. Hammack, Hunt, Madden, Patterson
The course is a continuation of L147B. It is a study of kindergarten education and must be accompanied by directed teaching in the kindergarten. The course includes elementary art education (1), elementary music education (1), children's literature (2), kindergarten-primary education (4), and educational psychology (2). Prerequisite, L147B. Fall and Spring (10)

L147B Education Practicum
Bacon, E. Hammack, I. Hammack, Hunt, Madden, Redl
This course is required of all students who expect to receive a credential which will qualify them to teach in the kindergarten or in the elementary school. Students should take the course during the next semester after admission to Teacher Training, which is usually the first semester of the junior year. Registration is strictly limited to small groups. Education Practicum is a unified course which deals with the interpretation and intelligent application of theory and practice in elementary education. The child and accumulated knowledge are studied as they influence education. Prerequisite: experience with children. For two or three hours each day classes are held in which students are instructed and analyzed as systems of education to which the student is assigned for one hour daily. The course includes mental hygiene (2), elementary school reading (2), educational psychology (2), and directed teaching (2).

The course is taught by college instructors who are in direct contact with the Campus Elementary School.
Fall and Spring (12)

L148 Education Practicum
Byrdesgaard, Corbett, Hunt, Madden, Patterson, Schwob, B. Stone
The course is a continuation of Ed. L147B and is required of all students who are the general elementary credential. An extended analysis is made of teaching in grades 4 to 7. The course includes elementary music education (1), elementary art education (1), elementary health education (1), educational psychology (2), and directed teaching (2). Prerequisite: L147B. Fall and Spring (12)

LE170 Administration of a Visual Instruction Program
The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher graphic production laboratory for making current and local illustrative materials for upkeep of same; a center for correlating and integrating the school program with opportunities offered by other community educational institutions and organizations; an advisory department for supervising school film productions and for instructing teachers and students in the art of photography and appreciation of photoplays.

This course is given at the visual education center of the San Diego city schools and the enrollment is limited to students who have made previous arrangements with the head of the Education Department and with the instructor. Fall and Spring (3)

LS175A Administration and Supervision of an Elementary School
Summer (3)

LS175B City School Administration
Summer (2-3)

L176 Speech Arts in the Secondary School (See Education 140B) Jones
Organization and conduct of junior high and high school speech activities.
Fall (2)

L199 Educational Problems
Education Staff
(Dean of Education in charge)
A course for senior students in residence and enrolled in teacher training who have shown ability to work independently on educational problems. The problem can be chosen only after consultation with a staff member. Credit and hours to be arranged. Summer (1-3)

ENGINEERING
(For curriculum in engineering see page 42-44.)

LOWER DIVISION

1A-1B Plane Surveying
Gleason
Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and military surveying. Two instruction periods and one two-hour period for field work and mapping each week. Prerequisites: 1A. Fall course (3-5)

83 Summer Class in Surveying
Practical field problems in reconnaissance, triangulation, location and topographic surveys. Observations for meridian, time and latitude. Precise work in linear and angular measurements. Development of self-reliance, accuracy, and professional skill on the part of the student. Four weeks course held in the mountains near San Diego. For details regarding location of camp, date of registration, date of opening, and other arrangements, a special announcement of the surveying camp may be secured at the Registrar's Office. Offered if demand is sufficient. Prerequisites: Surveying 1A-1B. Summer (3)

21 Descriptive Geometry
Walling
Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: One year of mechanical drafting, and sophomore standing. Fall (3)

22 Machine Drawing
Walling
Design and drawing of simple machine parts with emphasis upon the production of standard drawings. Lectures and drafting. Prerequisite: Engineering 21, Mathematics 3A, 3B. Spring (3)

23 Materials of Construction
Walling
Manufacturing processes, structural properties and adaptability of the principle materials used in engineering. Lectures: Prerequisite: Sophomore standing. Spring (2)
100A-100B Elements of Electrical Engineering
Walling
Theory and characteristics of electrical equipment with emphasis on industrial applications.

100A Direct current circuits, generators and motors. Introduction to alternating current circuits.
100B Alternating current circuits, transformers, alternators, induction on synchronous motors, conversion apparatus and transmission lines. Lectures and problems. Prerequisites: Mathematics 4A, Physics 1C or permission of the instructor.
Year course (3-3) (Offered in 1944-45 if demand is sufficient)

105 Hydraulics
Walling
A general course in hydraulics including the fundamental principles of hydrostatics and hydrodynamics applied to the flow of water through pipes and canals. Lectures and problems. Prerequisites: Mathematics 4A, Physics 1C. Recommended: Physics 105A-105B.
Spring (3) (Not offered 1944-45)

123 Materials of Construction
Walling
Essentially the same as Engineering 23 except that students will be expected to investigate more fully some particular material or process and prepare a written report upon it. Prerequisites: Chemistry 1B, Junior standing.
Spring (3)

128 Elements of Heat Power Engineering
Walling
Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, and problems. Prerequisites: Mathematics 4A, Physics 1B.
Fall (3) (Not offered 1944-45)

ENGLISH

L1A Subject A: English Composition
The Staff
The elements of composition, including drill in grammar and usage; exercises in equivalent to passing the English A Examination, and admits to English 2 courses.
Fall and Spring (3)

L1AA Reading Efficiency and Vocabulary Extension
Trall
Special drill in reading for comprehension; vocabulary building; practice in elementary composition. Systematic, progressive, and intensive training and practice in English LIA.
Fall and Spring (3)

1B-2 First-Year Reading and Composition
The Staff
The first half year, 1B, is composition; with emphasis on composition. The second half year is primarily reading and the analysis of literature and is open to students who have completed either 1B or LIA. By completing 1B and a section of 2, the student earns six units of college composition. Students may elect more than one section of English 2.

2A Argumentation
The Staff
A study of the underlying principles of, and of the methods involved in, writing designed to secure agreement or favorable consideration, together with much practice in both shorter and longer forms of such writing.
Spring (3) (Not offered in 1944-45)

2B Biography
F. L. Johnson
Composition, stressing personal narrative and informal essay. Reading from field or biography and memoirs.
Fall and Spring (3)

2C Periodical Literature
Dickhaut
Composition stressing article writing of varied types. Reading from current periodical literature.
Fall and Spring (3)

2D Foundations of the Language
An elementary course in English linguistics designed to make more significant the native language through a study of the elements which have gone into the composition of its vocabulary.
Fall and Spring (3) (Not offered in 1944-45)

2E Modern Drama
F. L. Johnson
Composition based upon the reading of recent plays and dramatic criticism.
Spring (3)

2F Short Story Writing
Keeney
A practical course in writing, including a study of short story technique and market, and the writing of complete short stories.
Spring (3) (Not offered in 1944-45)

2G Freshman Literature
An introduction to literature of various types in modern European and American culture, with composition.
Fall and Spring (3)

L3 English in Business
Amsden
Theory and practice of business correspondence, Business letters as applied in salesmanship, practical problems in writing credit and collection letters, applications for employment, student training; letters obtained in this course are planned to be used in meeting English requirements in other fields.
Fall and Spring (3)

10 Recreational Reading
The Staff
Development of personal tastes for leisure-time reading through lectures and oral or written reports. May be taken a second time with new material.
Fall and Spring (1)

50A-50B Survey of American Literature
Kennedy
Semester I: A survey of American literature from its beginnings to 1860. Semester II: American literature from 1860 to the present. Lectures, discussions, and reports.
Year Course (3-3)
52A-52B Types of World Literature
Adams
A chronological survey from Homer to modern times. The first semester stresses the classical epic and tragedy. The second semester, beginning with the Renaissance, stresses prose fiction, the drama, and the essay.
Year course (3-3)

56A-56B Survey of English Literature
Keeney
The study of some important works of English literature from the Anglo-Saxon period through the Victorian age, with emphasis upon the literary history of each period.
Year course (3-3)

UPPER DIVISION COURSES

101A Modern Continental Fiction
Dickhaut
A survey of leading French, Russian, Scandinavian, Italian, and German novelists and short story writers, from Tolstoy and his associates to the present day.
Spring (3) (Offered in 194-4 and alternate years)

101B Modern British Fiction
Dickhaut
The novel and short story, especially of the last quarter of a century.
Spring (3) (Offered in 194-4 and alternate years)

104 Latin-American Literature in English
Phillips
A survey of the literature of the Latin-American countries, with lectures in English and reading in English translations. Class reports on collateral reading. Spanish credit will be given to those who wish to do the requisite reading in Spanish.
Spring (3) (Offered in 194-4 and alternate years)

106A, 106B Advanced Composition
Dickhaut
A laboratory course in modern prose writing. Semester I: Artistic narrative, with description. The short story. Semester II: The essay, the magazine article, criticism. Outside readings. Prerequisite: One year of college composition. Either semester may be taken first.
Fall, Spring (3-3) (Offered in 194-4 and alternate years)

107A, 107B Advanced Composition
Adams
These courses are designed for students who wish to do independent work in composition. The discussions will consider the problems of effective expression as exhibited in the work of the members of the class. Prerequisite: Same as for 106A, 106B. Either semester may be taken first.
Fall, Spring (3-3) (Offered in 194-4 and alternate years)

110 Recreational Reading
Dickhaut
An advanced course in the group reading of modern drama, poetry and fiction.
Fall and Spring (1 or 2)

112 The English Language
An inductive historical approach to basic aspects of the language. The course includes an analysis of English sounds, grammar, and syntax, beginning with Modern English and going back through Early Modern, Middle, and Old English.
Fall (3) (Not offered in 194-4)

113 American English
The rise of American English; its peculiarities in pronunciation, grammar, and vocabulary; slang, regional and cultural differences.
Spring (3) (Offered in 194-4 and alternate years)

115 The English Bible as Literature
Kennedy
A study of the narrative, poetry, and prophecy of the King James version of the Bible. Readings, reports, lectures, and discussions.
Fall (3) (Not offered in 194-4)

116A The Age of Elizabeth
Poetry and prose, exclusive of the drama.
Spring (3) (Not offered in 194-4)

116B The Elizabethan Drama
F. L. Johnson
Principal contemporaries of Shakespeare.
Spring (3) (Offered in 194-4 and alternate years)

117A-117B Shakespeare
F. L. Johnson
A chronological survey. The first semester gives special emphasis to the histories and comedies; the second, to tragedy and the dramatic romances.
Year course (3-3)

118A The Age of Swift and Pope
Keeney
A study of the literature of the first half of the eighteenth century, with special emphasis on social satire of Swift, Pope, Addison, Steele, Gay and Prior.
Spring (3) (Offered in 194-4 and alternate years)

118B The Age of Johnson
Keeney
A study of Johnson and his circle as representative of their age, together with a study of Burns, Blake, and others as forerunners of the age of Romanticism.
Spring (3) (Offered in 194-4 and alternate years)

119 The Romantic Period: Poetry
Trail
A study of early nineteenth century poetry; the work of Wordsworth, Coleridge, Byron, Shelley, and Keats, in relation to the thought of the revolutionary period.
Fall (3) (Offered in 194-4 and alternate years)

121 The Victorian Period: Poetry
Trail
A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.
Fall (3) (Offered in 194-4 and alternate years)

122 Nineteenth Century British Prose
Dickhaut
Romantic and mid-Victorian prose writers, including Coleridge, Hazlitt, Lamb, DeQuincey, Carlyle, Landor, Macaulay, Mill and Thackeray.
Fall (3) (Offered in 194-4 and alternate years)

127 Modern British Prose
Dickhaut
Late nineteenth and early twentieth century essays of Arnold, Galsworthy, Huxley, Newman, Pater, Ruskin, Shaw, Stevenson, Wells, and others.
Fall (3) (Offered in 194-4 and alternate years)

130A American Literature: to 1900
Adams
A survey of literary movements in the United States to the late nineteenth century, with a study of the chief writers. Not open to students who have credit in English 50A.
Fall (3)

132 The Frontier and American Literature
Kennedy
A survey of the influence of the frontier upon American literature from colonial days. Studies in source materials, biographies, and representative writers to the present. Studies in source materials, biographies, and representative writers to the present. Studies in source materials, biographies, and representative writers to the present. Studies in source materials, biographies, and representative writers to the present.
Fall (3) (Offered in 194-4 and alternate years)

132 American Fiction
Adams
The outstanding writers of novels and short stories, from Cooper to Norris.
Spring (3) (Offered in 194-4 and alternate years)
134 American Literature: 1500 to the present
Kennedy
A survey of American literature since 1500 with emphasis upon contemporary poetry, fiction and drama. Not open to students with credit in English 50B.
Spring (3)

143 The Novel
Kennedy
History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussions.
Fall (3) (Offered in 1945-46 and alternate years)

161 Chaucer
Keene
The study of Chaucer's works, and a consideration of the social and literary backgrounds of the fourteenth century.
Fall (3)

152A Survey of Drama: Comedy
Studies in the field of comedy, based on selected readings from the works of Continental, English, and American dramatists. Lectures, discussions, and reports on reading.
Fall (3) (Not offered in 1944-45)

152B Survey of Drama: Tragedy
Procedure as in 152A, with selections taken from the field of tragedy.
Spring (3) (Not offered in 1944-45)

159 The Age of Milton
Emphasis is put upon the work of Milton.
Spring (3) (Offered in 1945-46 and alternate years)

160 Honors Course
The Staff
Special study. Open to members of the Honors Group in English (See page 21.)
Fall and Spring (3 to 5 to 5)

167 Research: Advanced Honors Course
Special study. Open to mature, especially qualified students, graduates, teachers of English literature, and others who have demonstrated marked aptitude for intensive research in the field of English literature.
Fall and Spring (3-5)

Comparative Literature. For other courses in literature, offered by members of the English Department and other departments, see Comparative Literature, page 68.

TWO-YEAR COURSES

L40A Beginning Composition
The Two-Year Staff
The elements of composition, including drill in grammar and usage; exercises in writing. Open only to Two-Year students.
Fall and Spring (3)

L40B Freshman English
The Two-Year Staff
Composition stressing exposition. Reading from essays and articles. Prerequisite: Satisfactory Subject A test. Open only to Two-Year students.
Fall and Spring (3)

L40C Freshman Literature
The Two-Year Staff
Literature, mainly contemporary, is read for its thoughts and ideas, especially in relation to human problems and their solution. Practice in writing is continued, open only to Two-Year students.
Fall and Spring (3)

FOREIGN LANGUAGES

L45 Sophomore English: Biography
The Two-Year Staff
Composition stressing personal narrative and informal essay. Reading from field of biography and memoirs. Prerequisite: English L40A or L40B, and English L40C. Open only to Two-Year students.
Fall (3)

L46 Sophomore English Contemporary Literature
The Two-Year Staff
Study of contemporary literature, with emphasis on various forms, such as the novel, poetry, drama, etc., as used by the principal writers of the twentieth century world. The main objective of the course is to give students a background for the major portion of their reading beyond college. Open only to Two-Year students.
Spring (3)

FOREIGN LANGUAGES

The courses offered in foreign languages are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. French, subject, see below; General Language, page 89; German, page 85; Italian, page 90; Latin, page 87; and Spanish, page 100.

As a background for advanced work in Romance languages, students are advised to include in their electives as many as possible of the following courses: Geography 111, History 121A, 121B, 147; Aesthetics 56 or 159; English 52A, 52B, 56A, 56B, 101, 118A, 119, 145.

FRENCH

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German A-B or Spanish A-B; History 14-18.

Liberal arts major in French: Twenty-four units of upper division work, of which at least eighteen must be in French, and of which a maximum of six may be in related fields. At least 24 units of liberal arts major courses.

LOWER DIVISION COURSES

L. P. Brown, Phillips

A-B Elementary
Intensive study of French grammar and syntax; daily written work discussed in class; class drill in conversational idiom and pronunciation; reading with oral discussion and class drill in conversational idiom and pronunciation; credit not given for re-statement; didactic instruction in contemporary French idiom.
Prerequisite: French A-B.
Year course (3-5)

L. P. Brown, Phillips

C-D Intermediate Reading
Reading and composition; study of standard prose; oral reading of French; dictation. Individual conferences, reading with résumés and written reports in French; oral reading of French books and periodicals. Oral and written reports. Prerequisite: French C-D.
Year course (3-5)

L. P. Brown

SC Scientific Reading
Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Oral and written reports. Prerequisite: Outside readings of books and periodicals. French B or equivalent.
Year course (3-5)

N. Brown

101A-101B Conversation and Composition
Prerequisite: French D, or its equivalent, with grade of C.
Year course (3-5)
105A-105B Modern French Drama
E. M. Brown
Plays of Musset, Scribe, Augier, Dumas fils, Peilleron, Briëux, Herríque, Masterkéck, Roosland, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with a grade of C.
Year course (3-3) (Offered in 1945-46)

107A-107B Eighteenth Century Literature
L. P. Brown
The works of Montesquieu, Voltaire, Rousseau, the Encyclopédistes, and others. Prerequisite: French D, or its equivalent, with a grade of C.
Year course (3-3)

110A-111B Modern French Novel
E. M. Brown
The French novel from Victor Hugo to the present day, including such authors as: Hugo, Dumas, Stendhal, Balzac, Flaubert, Loti, Anatole France, Bourget, Bordeaux, Balzac, Barrès, Romain Rolland, A. Gide, Marcel Prony, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with a grade of C.
Year course (3-3) (Offered in 1947-48)

111A-111B Seventeenth Century Dramatic Literature
E. M. Brown
Reading in class of plays of Molière, Corneille, and Racine. Outside readings and lectures on the background of the seventeenth century in France. Prerequisite: French D or its equivalent, with a grade of C.
Year course (3-3) (Offered in 1940-41)

199 Comprehensive Reading and Survey Courses
The Staff
Designed to fill up the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in French.
Spring (3)

GENERAL LANGUAGE

LOWER DIVISION COURSE

A Latin and Greek Word Derivation
L. P. Brown
A general and elementary course in philology. A study of Latin and Greek roots of most frequent occurrence in English, and of the English words derived from them.
Fall (2)

GEOPHYSICS

LOWER DIVISION COURSE

1 Introduction to Geography: Physical Elements
The Staff
The nature of maps, weather and climates of the world; natural vegetation; land forms, and their associated soils, with reference to their climatic relationships; the seas and their coasts. One all-day field trip. Open to all students who have not taken Geography 10A-10B. This course is classified as a natural science.
Fall and Spring (3)

2 Introduction to Geography: Natural and Cultural Regions
The Staff
The regional differentiation of the world by human activity; areal bases of economy and nationality. Prerequisite: Geography 1.
Fall and Spring (3)

3 Elementary Meteorology
Blake
An elementary study of the earth's atmosphere and changes in it which produce our weather and influence human affairs. Special attention given to local conditions, instruments, and records. Aeronautical meteorology stressed in the fall semester. This course is classified as a natural science.
Fall (3)

4 Map reading and Map Interpretation
Post
Representation of geographic data by means of maps. Interpretation of projections, symbols, and theory of world maps. Measurments of cultural data on maps. Prerequisite: Geography 1.
Fall (2)

10A-10B Economic Geography
Post
Beginning course in economic geography limited to students in commerce and prospective economics majors. Not open to students who have had Geography 1 and 2. This course may serve as prerequisite to upper division geography courses.
Fall and Spring (3-3) (Not offered in 1944-45)

UPPER DIVISION COURSES

112 Geography of California
Storm
The physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.
Spring (3) (Not offered in 1944-45)

115 Geography of Latin America
Post
The natural regions of Latin America; their occupational condition and historical evolution. Prerequisite: Geography 1.
Spring (3)

117 Geography of Northern and Eastern Europe
Post
A study of the cultural development of the countries of northern and eastern Europe in relation to physical background and historical evolution. Prerequisite: Geography 1.
Fall (3) (Not offered in 1944-45)

118 Geography of the Mediterranean Area
Post
A study of the cultural development of the countries of southern Europe, Western Asia, and North Africa in relation to physical background and resources. Prerequisite: Geography 1.
Spring (3)

121 Geography of North America
Storm
The natural regions of North America, their formation and economic and historical development. Prerequisite: Geography 1.
Fall (3)

124 Geography of Asia
Storm
The cultural regions of Asia, their physical environment, and historical development. Prerequisite: Geography 1.
Spring (3)

135 Geography of the San Diego Area
Storm
Directed individual urban and rural field work in the San Diego area; the mapping of major geographic regions of the world. Prerequisite: Geography 1.
Fall (3) (Not offered in 1944-45)

141 Economic Geography
Storm
A survey of the raw materials of world trade; their production and distribution as related to major geographic regions of the world. Prerequisite: Geography 1.
Fall (3)

166 Honors Course
The Staff
To be arranged after consultation with the chairman of the department. (See page 15.)
Fall and Spring (Credit to be arranged)
Two-Year Course

L40A-L40B Introduction to Geography

The Staff

An introductory descriptive course designed to acquaint students with the general features of the various regions of the world. Presents the climatic regions of the world with a description of what man has done with the resources of each. Develops a background for the interpretation of world problems and world happenings. One all-day field trip in L40A. Open only to students enrolled in a two-year curriculum.

Year course (5-3)

GEOL0GY

Department requirement in Geology for liberal arts major in Physical Science includes in addition to Geology 1A-1B, the completion of: Chemistry 1A-1B, Mathematics 3A; Physics 1A-1B/1C-1D or 2A-2B; 3A-3B. Students preparing for advanced work in Geology may substitute Engineering 21 for Mathematics 3A. Geology 2A may be substituted for Geology 1A in department prerequisite requirements provided the additional necessary unit of laboratory work is completed.

French or German, Engineering 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A Physical

The composition, origin, and distribution of earth materials, and their modification through mechanical and chemical processes of change. Three lectures and one three-hour laboratory period weekly with related field study during the semester. (Not open to students who have had Geology 2A except for one unit upon the completion of the laboratory section.)

Fall (4)

1B Historical

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the Paleontologic Sequence. Three lectures and one three-hour laboratory period weekly, with arrangements for field study and conference during the semester. Prerequisite: Geology 1A or equivalent.

Spring (4)

2A General

Similar to Geology 1A but without laboratory. Open to all students except physical science majors or those already presenting credit in Geology 1A. Two lectures and one demonstration and discussion hour weekly.

Fall (3)

2B Physiography

A study of the land forms of the United States and their physiographic history as illustrative of universal geologic conditions. Two lectures and one demonstration hour weekly. Prerequisite: Geology 1A or 2A.

Spring (4)

21A-21B Mineralogy

Study of the common minerals and rocks. Use of the blowpipe and simple chemical reagents but with emphasis upon sight determination. Prerequisite: Geology 1A and high school chemistry, or equivalents.

Year course (3-3) (Offered in 1944-45 and alternate years if demand is sufficient)

UPPER DIVISION COURSES

101 Structural Geology

The evolution and description of the structural and topographical features of the earth. Faulting, folding, and orogenic forces with practical illustrations from the North American Continent and emphasis on California geologic conditions. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3) (Offered in 1944-45 and alternate years if demand is sufficient)

102 General Geology

An elementary course dealing with the processes of nature by which the surface of the earth is built up, deformed and torn down. A study of the natural history and occurrence of the common rocks and minerals. Open only to students enrolled in a two-year curriculum.

Fall and Spring (3)

103 Lower Division Courses

A-B Elementary

Precalculus, reading and grammar, with practice in simple conversation, narration and description, both oral and written. Credit not given for German A unless followed by German B. Students who have had one year of German in high school should register for two units of work in German A. Those who have had two years of German in high school should register for four units of work in German B.

Year course (5-5)

C-D Intermediate Review and Reading

Reading and composition; study of standard prose as basis for class work; collateral reading with written reports; German conversation, with the texts read as a basis; dictation. Prerequisite: German B or two years of high school German, or its equivalents. Students with credit for three years high school German, or its equivalents, should enter German C.

Year course (3-3)

SC-SD Scientific Reading

Fall semester. Readings in scientific literature on chemistry, physics, etc.; occasional topics. Prerequisite: German SC. Students who have had two years of high school German, or its equivalent, should enter German SC. Students who have had three years of high school German, should enter German SD.

Year course (3-3) (Not offered in 1944-45)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

HEALTH EDUCATION

LOWER DIVISION

1 Health and Social Adjustment (Men)

C. E. Peterson

An informational course in personal and community hygiene. A study of social hygiene includes courses in personal and social hygiene, the hygiene of and the hygiene of various occupations. It is an Introductory course in the freshman year.

Fall and Spring (3)

2 Health and Social Adjustment (Women)

B. L. Stone

An informational course, reviewing the principles underlying the improvement of personal health, and the solution of practical problems of young women and prospective homemakers. Lectures by specialists in the various fields serve to enrich the course.

Fall and Spring (3)
51 Safety Education
Prevention of accidents; practical application of first aid methods leading to American Red Cross First Aid Certificate. Formerly listed in bulletin as Physical Education 51.
Fall (1) (Not offered in 1944-45)

61A Nutrition Dustin
The purpose of this course is to consider health maintenance through food selection from the modern scientific viewpoint. Consideration is given to the fundamentals of an adequate diet from the basis of the known dietary essentials and the disorders which result from the deprivation of these factors. Diets for special needs are also planned. Recommended for premedical, preprofessional, and sociology majors. Red Cross Nutrition Certificate is granted upon course completion.
Spring (2)

61B Nutrition—Laboratory Dustin
A basic course in food preparation which includes the study of typical food selection and preparation methods which best conserve the essential food values. Class meets once a week and is open only to students who have registered in Nutrition 61A.

90 Physiology of Reproduction Huff
A course consisting of a series of lectures and discussion dealing with normal and abnormal physiology and anatomy of reproduction, facts and frauds in sex hygiene, and related topics. Prerequisite: Health Education 2.
Fall and Spring (Women) (1)

UPPER DIVISION

L151 Health Education (Education 147-148) B. L. Stone
A course for teacher-education students which includes the study of the diseases, common physical defects, and health indices of school children; the detection and control of communicable diseases which can appear in the school; and the elements of health education programs. Methods of presenting personal and group health to children of different ages. Hygiene of the schoolroom, such as seating, lighting, and ventilation.
Fall and Spring (2)

L40A Nutrition Dustin
A course based on the study of how to make healthful food choices from the modern scientific viewpoint. Consideration is given to the meaning and indications of adequate nutrition and to food in its relationship to the maintenance of well-being. Red Cross Nutrition Certificate is granted upon course completion. Open only to students enrolled in a two-year curriculum.
Fall (2)

L40B Nutrition—Laboratory Dustin
A practical course in the selection and preparation of typical foods. Emphasis is placed on the conservation of essential food values and nutrients. Class meets once a week and is open only to students who have registered in Nutrition L40A.
Fall (1)

LOWER DIVISION COURSES

4A-4B History of Modern Europe
Development of European society and institutions from about 1500 A.D.
Year course (3-3)

8A-9B History of the Americas
A general survey of the history of the Western Hemisphere from the discovery to the present time. Emphasis on the process of planting European civilization in the new world, the international conflicts for the continents, the wars for independence, the development of the American republics, and their relations with each other and with the rest of the world. Based on H. E. Bolton's "Syllabus of the History of the Americas."
Year course (3-3)

UPPER DIVISION COURSES

111A-111B Ancient History
Semester I—Social, economic, political and cultural development of the Greek states with emphasis upon the growth of democracy, appearance at federal union and imperialism, Hellenism.
Semester II—Roman history from the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social and religious developments in the republic and empire.
Year course (3-3) (Offered in 1945-46 and alternate years)

121A-121B Medieval History
General survey of European political and cultural development between 500 and 1500 A.D., with special attention to intellectual tendencies and the development of institutions which culminated in the emergence of modern Europe after 1500.
Year course (3-3) (Offered in 1945-46 and alternate years)

143 The French Revolution and Napoleonic Era
An intensive study of the revolutionary period in Europe from 1770 to 1815.
Fall (3)

144 Europe Since the World War
Developments in Europe from 1918 to the present.
Spring (3)

146A-146B Diplomatic History of Europe Since 1648
A course centering around the four major European treaties, their background, drafting and results. First semester, the Treaty of Westphalia, Austria and Vienna. Second semester, the Treaty of Vienna and the Treaty of Versailles.
Year course (3-3) (Not offered in 1944-45)

147 History of Modern France
Intensive survey of the political and social development of France under the Third Republic, 1870 to the present. International and colonial problems of modern France will also be considered.
Fall (3) (Not offered in 1944-45)

148 History of Modern Germany
Political, social and economic development of Germany after 1870, the Empire and the Weimar Republic, German post-war problems, imperialism, and the establishment of the Third Reich. Students will receive special attention.
Spring (3) (Not offered in 1944-45)
151A-151B England Since the Norman Conquest
A survey of political and constitutional development in England since 1066, stressing the transition from medieval to modern England. Tudor despotism, the struggle for self-government under the Stuarts, the rise and development of present-day political and social institutions.
Year course (3-3)

156A-156B History of British Expansion
A study of the growth, development, and break-up of the older overseas empire: the beginnings of the newer empire after 1783; the rise, federation, and imperial relations of the British Commonwealth of Nations; the crown colony system; India under British rule; and British expansion in Africa and the Pacific; development of British mandates.
Year course (3-3)

161 South America Since Independence
The republics of South America. Attention directed to the development of nationality in South America, the struggles for political stability, the exploitation of resources, diplomatic and commercial relations with the United States, and other international problems of South America. Survey of present-day conditions, political, economic, and social.
Spring (3)

163 Mexico and the Caribbean Countries
The republics of Mexico. Some plan in general as outlined in History 161. Special attention to the relations of the United States with these countries, and to the recent developments in Mexico.
Fall (3)

171A-171B The Rise of the American Nation
Semester I. English colonization in North America and the development of colonial institutions and government. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the end of the War of 1812.
Year course (3-3) (Offered in 1944-45 and alternate years)

173A-173B The Expansion of the United States
The rise of Jacksonian Democracy; territorial expansion and the Mexican War; the slavery controversy; the Civil War, and reconstruction; the growth and progress of the United States to the World War.
Year course (3-3) (Offered in 1945-46 and alternate years)

199 Special Course for Advanced Students
Required of all students with a history major in the liberal arts curriculum and to be taken during the senior year. Other students may be admitted with the permission of the instructor.
Spring (2)

ITALIAN

A-B Elementary
Intensive study of Italian grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading of works by contemporary writers. Credit not given for Italian A unless followed by Italian B. Students who have had one year of Italian in high school should register for Italian A. Those having two years in high school should register for Italian B.
Year course (5-5) (Not listed in 1944-45)

JOURNALISM
Courses in journalism will not be given during the school year 1944-45. The courses listed represent the normal program of the college, and will be taught when the demand again becomes normal.

LATIN
The aim in the specialized courses in Journalism is to offer introductory training in the principles and practices of journalistic writing only after a good foundation in correct spelling and writing of English has been laid. Practical training in news reporting and editing for student publications and for the daily press is emphasized.

LOWER DIVISION COURSES

19A-10B Contemporary Press
Development of the American newspaper; comparison of American and foreign newspaper practices; display and treatment of news; press associations. Prerequisite to Journalism 51A-51B: open to general enrollment.
Fall and Spring (4-1)

51A-51B News Gathering and Reporting
Study of news sources and types; practice in news and feature writing; newspaper organization; excursions and special lectures. Course planned for freshmen as a prerequisite to positions on all college publications.
Year course (3-3)

553A-553B Applied Journalism
Practice and projects in reporting news and feature stories and in other editorial work on The Aztec, El Palenque, Del Sueordo. Students not enrolled in 51A-51B are required to take 553C-553D.
Fall and Spring (1 to 3; 1 to 3)

553C-553D Newswriting Problems
Techniques in meeting problems of reporters and editors on publications with emphasis upon work of class members on The Aztec, El Palenque, Del Sueordo.

UPPER DIVISION COURSES

151A-151B Newspaper Editing
Study and practice in the editorial, headline writing and editing of newspaper copy; management of publications. Projects in newspaper and magazine work. Required of all upper division students who take 51A-51B for credit.
Fall and Spring (1-1)

513A-153B Advanced Journalism Practice
Editing of student publications and direction of personnel in editorial projects. Students may be taken Prerequisite: 51A-51B (may be waived by instructor). 151A-151B must be taken concurrently with this course.
Fall and Spring (1 to 3; 1 to 3)

Notes.—Not more than six units in all will be given for Journalism practice on student publications.

553C-153D Newspaper Practices
Work on community publications, including county newspapers, under direction of the instructor.
Fall and Spring (2)

LATIN

C-D Intermediate

C-D Intermediate
Readings from Latin writers. First semester: Caesar. Second semester: Cicero. Prerequisite: Two years of high school Latin or the equivalent.
Year course (3-3) (Not listed in 1944-45)
1. Introduction to Analysis

A general course in calculus and related topics, primarily for students of social and biological sciences who do not have time for the longer courses in analytic geometry and calculus. Not available to students who have credit for Mathematics 3B. With Mathematics C taken in high school or college, this meets the "Additional Year Courses" requirement for the lower division. Prerequisites: Elementary algebra and geometry, and intermediate algebra, with satisfactory grades.

Fall and Spring (3)

3A-3B Analytic Geometry and Calculus

Walling

Analytic geometry, differential calculus, and an introduction to integral calculus. Credit is allowed for 3A taken alone if desired. Prerequisites: Elementary algebra and geometry, intermediate algebra, and trigonometry, with satisfactory grades. Students whose preparation is deficient either in quality or quantity should enroll in the appropriate remedial course.

Year course (3-3)

4A-4B Solid Analytic Geometry and Calculus

Livingston

Integration, applications of integration, infinite series; solid analytic geometry, partial differentiation, and multiple integrals. Credit is allowed for 4A alone if desired. Prerequisites: Mathematics 3A-3B. Solid analytic geometry is recommended; also college algebra, before 4B.

Year course (3-3)

8 College Algebra

Gleason

Complex numbers, determinants, and other selected topics. Prerequisites: Trigonometry and either Mathematics 1 or 3A.

Spring (3)

15 Spherical Trigonometry and Navigation

Livingston

Essentials of spherical trigonometry with applications to certain problems in navigation, particularly to those of middle latitude sailing, great circle sailing, and the determination of latitude and longitude. Prerequisites: Intermediate algebra, plane trigonometry, and some knowledge of the geometry of the sphere.

Fall and Spring (3)

UPPER DIVISION COURSES

102 Selected Topics in Algebra

Gleason

Topics supplementary to those considered in Mathematics 8 and 111. Prerequisites: Mathematics 3A-3B and 8.

Offered as needed

104 History of Mathematics

Gleason

History of mathematics down to early modern times. Prerequisites: Mathematics 3A-3B, or 3A and 1.

Fall (3) (Offered in 1945-46 and alternate years)

105 College Geometry

Livingston

An extension of the high school course in plane geometry, dealing largely with triangles and circles. Several new procedures, including inversion, are introduced. Prerequisites: Mathematics 3A-3B, or 3A and 1.

Fall (3) (Offered in 1945-46 and alternate years)

106 Projective Geometry

Livingston

Concurrence of lines, collinearity of points and other properties of figures not altered by projections; construction and study of ellipses, hyperbolas and parabolas by means of projections. Prerequisites: Mathematics 3A-3B or 3A and 1.

Fall (3) (Offered in 1945-46 and alternate years)
111 Higher Algebra
Theory of algebraic equations, and other topics. Prerequisites: Mathematics 3A-3B, and 8.
Spring (3) (Offered in 1945-46 and alternate years)

112 Introduction to Higher Analytic Geometry
Coordinates, transformations, properties of loci. Prerequisites: Mathematics 3A-3B, 4A, and 8.
Spring (3) (Offered in 1945-46 and alternate years)

117 Intermediate Calculus
Essentially the same as Mathematics 4B with additional special work for advanced students. Prerequisites: Mathematics 3A, 3B, and 4A. Credit not allowed for both 4B and 117.
Spring (3)

118 Advanced Calculus
Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.
Spring (3) (Offered in 1944-45 and in alternate years)

119 Differential Equations
Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4A-4B (4B concurrently if desired).
Spring (3) (Offered in 1945-46 and alternate years)

124 Vector Analysis
Addition, subtraction, multiplication, differentiation, and integration of vectors, with given to divergence, gradient, and curl. Prerequisites: Mathematics 4A (4A concurrently if desired).
Spring (3) (Offered occasionally)

140 Probability and Statistics
Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisites: Mathematics 4A and 8, or 4A-4B.
Fall (2) (Offered in 1944-45 and alternate years)

199 Special Study
Study of materials mainly supplementary to the courses listed above. Prerequisites: Average grade of B or better in at least 12 units beginning with Mathematics 3A.
Fall and Spring (1 to 2, each semester)

TWO-YEAR COURSE

L40 Computational Mathematics
Basic work in arithmetic, informal geometry, elementary algebra, and simple trigonometry. The chief emphasis is placed on computation. Not open for credit to or in college. Open only to students enrolled in a two-year curriculum.
Fall and Spring (3)

L20 Consumer Problems
Growing importance of consumption as a field for study; consumer incomes in the United States; consumption and business cycles; biases of consumer choice-making; family budgeting; a survey of the methods by which products reach the consumer; market structure and functions seen from the consumer's point of view.
Fall (3) (Not offered in 1944-45)

L24 Principles of Merchandising
A study of retail stores, emphasizing the problems of store managers and merchandising executives; store location, organization, personnel, and control methods. Changing conditions in retailing; problems of profitable operation under present conditions.
Spring (3) (Not offered in 1944-45)

L25 Principles of Salesmanship
Theoretical and psychological backgrounds of salesmanship; newer concepts of selling; the selling of ideas and services; steps in a sale; attention, interest, desire, closing; the development of clientele and of good will; the personal factor in salesmanship.
Fall (3) (Not offered in 1944-45)

MUSIC

Candidates for a teaching credential in music should refer to the statement "Admission to Teacher Education Curricula" on page 21 and to the other degree requirements on that page and those following. The curriculum for the A.B. Degree with a Special Secondary Credential in Music is on page 31.

Lower division preparation for the liberal arts major in music: Music 1B-1C-1D; 4A-4B; 4 units of Applied Music (study of voice or instrumental art); Aesthetics 1A-1B.

Liberal arts major (upper division): twenty-four upper division units. These shall include Music 106A-106B; 106A: 107A; 110; 120; 121: 4 units of Applied Music; and 4 units of music activity credit (Music 111, 112, 115, 115, or 120).

At least a C average in upper division music courses is necessary. It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: English 56A-56B; French A-B; German A-B; History 4A-4B; 126A-1B; Physics 2A-2B.

LOWER DIVISION COURSES

L1A Musicianship—Fundamentals of Music
L. D. Smith
The elements of music; scale construction; elementary music theory; drill in music reading both with syllables and with words; ear training, elementary music dictation.
Basic course for all general elementary credential students. Music majors receive no credit.
Fall and Spring (3)

L1B Musicianship—Music Reading and Ear Training
L. D. Smith
Tonal and rhythmic dictation; rhythmic writing; sight singing. Basic course for majors and minors. Taught by Smith and Krone: Fundamentals of Musicianship Book 1. Prerequisites: Music 1A, or the equivalent. Students not able to pass the departmental entrance examination in the fundamentals of music will take 1A without credit in preparation for this course.
Fall and Spring (2)

L1C-1D Musicianship—Advanced Music Reading and Ear Training
L. D. Smith
Tonal work in minor keys; modal scales; dissonant triads and seventh chords; harmonic dictation, elementary forms; rhythmic, interval feeling in all chords; rhythmic progression and forms, etc. Prerequisite: Music 1B.
Year course (2-2)

L2A String Instruments
Leib
Beginner's class in violin, viola, 'cello and string bass. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.
Fall and Spring (1)
L3A Woodwind Instruments
Beginner's class in oboe, clarinet, flute and bassoon. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.
Fall and Spring (1)

4A-4B Elementary Harmony
Springston
Scale construction, intervals, by-tonics and diatonic harmonies. Transposition and original composition in the simpler forms. Text—Aehliln: Applied Harmony Vol. 1. Prerequisite: Music 1A-1B, or the equivalent, and at least one year of piano study.
Year course (1-3)

L6A Brass Instruments
Leib
Beginner's class in trumpet, French horn, baritone, trombone and tuba. Required of all music majors working for a Special Secondary credential unless this orchestral section is the major or minor field.
Fall and Spring (1)

L7A Music Materials for the Elementary School
L. D. Smith
Study of the song material in the state music texts and in the supplementary texts. Appreciation materials applicable to the elementary school. Required course for all general elementary credential students. Prerequisite: Music 1A.
Fall and Spring (3)

11A-B-C-D Women's Glee Club—Treble Clef
L. D. Smith
Entrance upon examination.
Fall and Spring (1-1)

12A-B-C-D Men's Glee Club
Springston
Entrance upon examination.
Fall and Spring (1-1)

13A-B-C-D Orchestra
Leib
Permission of the conductor required for membership.
Fall and Spring (1-1)

15A-B-C-D A Cappella Choir
Entrance upon examination.
Fall and Spring (1-1) (Not offered 1944-45)

Fall and Spring (1-1)

*L17A-L17B-L17C-L17D Individual Study of a Voice
Fall and Spring (1-1)

*L18A-L18B-L18C-L18D Individual Study of Piano or Organ
Prerequisite: The ability to play artistically hymns and folk songs of the type found in the Golden Book of Favorite Songs.
Fall and Spring (1-1)

20A-B-C-D Chorus
Open to anyone interested in singing standard choral works. No examination required.
Fall and Spring (1-1)

26A-B-C-D Band
Permission of the conductor required for membership.
Fall and Spring (1-1) (Not offered 1944-45)

* See page 94, conditions under which credit may be given for music study under private instructors.

MUSIC

27A-27B Music for Enjoyment
Springston
A course designed for students with little or no musical background. Lectures and discussions as a basis for intelligent listening to concerts, radio programs, and class presentation of recorded music. Not open to music majors and minors.
Year course (1-1) (Not offered 1944-45)

L28A-L28B Piano
Springston
Fundamental playing and reading techniques for the pianoforte. Emphasis upon playing by ear, and the development of interpretative ability. For beginners only. No credit for music majors and minors.
Year course (1-1)

30A-B Chamber Music
String and woodwind ensembles. The consent of the instructor necessary for admission to class.
Year course (1-1)

UPPER DIVISION COURSES

105A-105B History of Music
L. D. Smith
The various movements in the development of music as related to the other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the works of modern composers. Many symphonic works are studied from the orchestral scores. Major works are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A or 1B.
Year course (3-3)

105A History and Composition
Springston
Study of the possible types of modulations and chromatic harmonies: continuation of harmonic analysis and original composition. Text Aehliln: Applied Harmony Vol. II. Prerequisite: Music 4A-4B.
Year course (3-3)

106A Counterpoint
Springston
Study of the first species of counterpoint with much practice in writing in such forms. Application of contrapuntal style to modern composition. Prerequisite: Music 4A-4B.
Fall (2)

107A Aural Analysis
Springston
Aural and visual analysis of music forms through a consideration of structure, harmonic content, and style. Prerequisite: Music 105A-105B.
Spring (2)

111A-B-C-D Women's Glee Club—Treble Clef
L. D. Smith
Entrance upon examination.
Fall and Spring (1-1) (A maximum of 2 units in glee club may be counted toward the A.B. degree)

112A-B-C-D Men's Glee Club
Springston
Entrance by examination.
Fall and Spring (1-1) (A maximum of 2 units in glee club may be counted toward the A.B. degree)
113A-B-C-D Orchestra
Leib
Permission of the conductor required for membership.
Fall and Spring (1-1) (A maximum of 1 unit in orchestra may be counted toward the A.B. degree)

115A-B-C-D A Cappella Choir
Entrance by examination.
Fall and Spring (1-1) (A maximum of 2 units in A Cappella choir may be counted toward the A.B. degree) (Not offered 1944-45)

Leib
Fall and Spring (1-1)

*LI17A-L117B-L117C-L117D Advanced Individual Study of Voice
Leib
Fall and Spring (1-1)

*LI18A-L118B-L118C-L118D Advanced Individual Study of Piano or Organ
Leib
Fall and Spring (1-1)

119A Instrumental Conducting
Conducting and reading of orchestral scores.
Leib
Fall and Spring (1-1)

120A Vocal Conducting
The theory of vocal conducting together with practical experience gained from directing the college choirs. Prerequisite: Music majors with senior standing.
Leib
Fall and Spring (1-1)

121A Instrumentation
Arranging of music for full orchestra. Selected works of pupils to be performed by standard orchestras.
Leib
Fall and Spring (2)

126A-B-C-D Band
Permission of the conductor required for membership.
Leib
Fall and Spring (1-1) (A maximum of 1 unit in band may be counted toward the A.B. degree) (Not offered 1944-45)

139A-139B Chamber Music
String quartets and woodwind ensembles only. Permission of the instructor necessary for class membership. Year course (1-1)

CONDITIONS UNDER WHICH CREDIT MAY BE GIVEN FOR MUSIC STUDY UNDER PRIVATE INSTRUCTORS

Credit may be allowed for private instruction in music under the following conditions:
1. The applicant for such credit must be a regularly enrolled student in the music department of the college.
2. The instructor giving such private work must be approved by the Music Department. All private work and the names of all such teachers must be registered in the office of the music department chairman at the beginning of the semester.
3. In the case of first semester private study, a placement examination conducted by the music department faculty at the beginning of the semester will show the status of the student at the beginning of his work.
4. Evidence that the standards of the Music Department have been met will be shown by an examination conducted by the music department faculty at the end of the semester.

* See page 94, conditions under which credit may be given for music study under private instructors.

PHILOSOPHY

LOWER DIVISION COURSES

Philosophy 2A, 3B: The History of Thought
Steinmetz
An introduction to the basic ideas of Western Civilization in their historical development. The making of the modern mind as revealed in the development of philosophy and in the relations between philosophy and science, art and religion. The history of ideas against the social and political backgrounds from which they came. Prerequisite: Sophomore standing, or permission of instructor.
Fall, Spring (3, 3)

5A Introduction to Philosophy
Steinmetz
The recurring problems of philosophy and the making of the modern mind. Prerequisite: Sophomore standing, or permission of instructor.
Fall (3)

5B Knowledge and Society
Steinmetz
Scientific method and the persistent topics of philosophy in their bearing upon the social problems of the day. Prerequisite: Philosophy 2A, save under unusual circumstances.
Spring (3)

5C Social Philosophies
Steinmetz
The story of man's speculation regarding his "right" organization, the assumptions, analogies, and economics determining his temporary conclusions: James I. Hobbes, Locke, Jefferson, Kropotkin, Mill, Marx, Musolimi, Dewey, Plus XI, Roosevelt, etc.
Fall (3)

5D Reflective Thinking (Logic)
Steinmetz
Analysis of fallacies, and the logic of argument and proof; also examination of reflective procedures in various fields of knowledge, and review of some psychological descriptions of thought. Prerequisites: Psychology 1A and Philosophy 5A.
Spring (3)

5E Conduct (Ethics)
Steinmetz
The meaning of morality: motives and sources of belief, aspiration, ideals; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.
Spring (3)

UPPER DIVISION COURSES

PHYSICAL EDUCATION

Men's Department
Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Education Curricula" on page 21. For the teacher education curriculum in physical education see page 33.

LOWER DIVISION COURSES

A two-hour activity course each semester is required for the two years of lower division.

A medical examination is given each student when entering the course and is fitted to the individual needs. Individual Adapted Activity sections to fit the special needs of the individual student are included. The content of the required two years is planned to give each student opportunity to participate in those sports which have carry-over value. The credit is given all students to take part in the regular competitive sports program. A minimum of one unit in sports in one semester may be counted toward the A.B. degree.

1A-1B Freshman Activity
Year course, beginning either Fall or Spring (1-1)
1C-1D Sophomore Activity
Year course, beginning either Fall or Spring (4-4)
Class sections are so arranged that the student may choose the activity he is most desirous of learning. Fundamentals of the sports listed are taught during a portion of the class hour.

Sports

L2A-L2B-L2C-L2D Golf Spring (1)
L3A-L3B-L3C-L3D Track Spring (1)
L4A-L4B-L4C-L4D Baseball Spring (1)
L5A-L5B-L5C-L5D Basketball Spring (1)
L6A-L6B-L6C-L6D Tennis Spring (1)
L7A-L7B-L7C-L7D Boxing Spring (1)
L8A-L8B-L8C-L8D Wrestling Spring (1)
L9A-L9B-L9C-L9D Cross Country Fall (1)
L10A-L10B-L10C-L10D Swimming Spring (1)
L11A-L11B-L11C-L11D Fencing (1)
L12A-L12B-L12C-L12D American football Fall (1)
L13A-L13B-L13C-L13D Spring football Spring (1)
L14A-L14B-L14C-L14D Gymnastics (1)
L15A-L15B-L15C-L15D Badminton Spring (1)

Any of above sports will be offered only if demand is sufficient.

The following courses fulfill degree requirements for physical education majors and meet State requirements for teaching credentials in physical education.

30 Emergencies
The accepted procedure in meeting the emergencies which daily arise in schoolroom, play or athletic field, beach, mountains, or any of the many places where the physical director is called on for first aid. Special attention given to the arrangement of the apparatus and the activities so that many of the most common accidents are prevented or minimized. Course content qualifies for Red Cross Certificate.

Fall (2)

L53 Physical Education in the Elementary School
Schwob
Two courses, each one-hour laboratory periods per week. May be taken as a substitute for 1D.

Required of all candidates for the elementary school credential and the special credential in physical education.

Fall and Spring (2-4)

L62A Gymnastic Activities
C. E. Peterson
Theoretical and practical work in marching, free exercises, and light and heavy apparatus exercises. Emphasis on progression and method of presenting material. The simplest and most elementary terminology.

Fall (2) (Offered in 1945-46 and alternate years)

L62B Gymnastic Activities
C. E. Peterson
Acquisition of proficiency in the performance of a great group of gymnastic stunts or self-interesting type rather than the formal. Tumbling, stunts, and pyramid. Spring (2) (Offered in 1945-46 and alternate years)

172 Principles of Physical Education
Cultivation of a favorable attitude for a professional study of physical education. Ideals and aims of physical education and the relation of physical education to school and society stressed.

Fall (2)

UPPER DIVISION COURSES

L54 Organization and Administration of Secondary Physical Education
Study of general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 172.

Spring (3) (Offered in 1945-46)

L55 Applied Anatomy and Kinesiology
A scientific analysis of the structure, function and relationship of the organs, bones, cartilages, and muscles of the skeleton, muscular, nervous, and circulatory systems.

In addition, the student will apply the results of the analysis in the selection of activities in relation to mechanical strength and durability as influenced by anatomical factors. Prerequisite: Zoology 20, or 105.

Spring (3) (Offered in 1945-46 and alternate years)

L56A Sports Methods
Different theories and methods of teaching the more highly organized sports: basketball and baseball.

Fall (2) (Offered in 1945-46 and alternate years)

L56B Sports Methods
G. E. Peterson
Methods of teaching those sports most adaptable to the intramural and recreational programs: golf, handball, soccer, speedball, volleyball, badminton, archery, tennis, bowling, swimming, track, etc.

Spring (3) (Offered in 1945-46 and alternate years)

161 Folk Dancing
Schwob

Spring (2) (Offered in 1945-46 and alternate years)

L69A Technique of Teaching Activities
Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop teaching techniques in an orderly, detailed, and supervised experience. Requirements include the handling of classes, directed, and supervised experience. One hour of lecture, construction of tests, lesson plans and preparation of a syllabus. Recommended that it be taken in the junior and two hours of laboratory per unit.

Fall and Spring (2-3)

L69B Technique of Teaching Activities
C. E. Peterson
Continuation of directed leadership in activities as in L69A. Individual study will include conferences with instructor regarding class program, completion of working bibliography, planned reading, school visitation, and preparation for practice teaching.

Spring (3) (Offered in 1945-46 and alternate years)

L70 Recreational Leadership
Foundational of recreational leadership developed by instruction in club and camp activities, the study of school recreational needs and facilities, and of civic recreation activities. Recommended to students interested in open to all upper division men and women.

Fall (2) (Offered in 1945-46 and alternate years)

7—11523
L180 Theory of Coaching Football
Methods of coaching football. Details of teaching individual fundamentals, offensive and defensive team play, strategy, and conditioning of athletes. Two hours of lecture and three hours of laboratory.
Spring (1) (Not offered in 1944-45)

L190 Individual Program Adaptation
An introductory course dealing with the analysis and evaluation of aims, techniques, and procedures in the preventive and corrective physical education program. Special emphasis will be given to such problems as survey of the situation, recognition of divergencies, selecting and assigning of students, instructional programs, motivation, follow-up, teacher limitations, and public relations. Prerequisite: P.E. 105, Zoology 20, and senior standing.
Fall (3) (Not offered in 1944-45)

WOMEN'S DEPARTMENT
Candidates for a teaching credential in physical education should refer to the statement "Admission to Teacher Education Curricula" on page 21, and to the outline for the A.B. Degree with Special Credential in Physical Education on pages 34 and 35.

LOWER DIVISION COURSES
Two hours of directed physical activity are required throughout the freshman and sophomore years. Freshman students may choose courses from the following: 11A, 11B, 11C. Sophomore students may choose from all activity courses offered.

1A Fundamental Skills
Practice in efficient fundamental body movements.
Fall and Spring (1)

1B Folk Dancing
Schweb
Fall and Spring (1)

1C Team Sports
Schweb
(All three are required of all women candidates for the special credential in physical education.)
Fall and Spring (1)

Sophomores may elect from the following:

L2A-L2B Folk Dancing
Fall and Spring (1)

L3A-L3B-L3C-L3D Modern Dance
Fall and Spring (1)

L4A-L4B Social Dancing—for men and women
Fall and Spring (1)

L5A-L5B Archery
Fall and Spring (1)

L6A-L6B Badminton
Fall and Spring (1)

L7A-L7B Golf
Fall and Spring (1)

L11A-L11B Tennis
Fall and Spring (1)

L12A-L12B Advanced Modern Dance. Laboratory experiments in advanced choreography and percussion accompaniment. For men and women. Prerequisites: 11C and 3A for women, 1C for men.
Fall and Spring (1-1) (Not offered in 1944-45)

Any of the above activities may be taken for additional credit.

PHYSICAL EDUCATION

L31 Physical Education in the Elementary School
Schweb
The content of the State program in physical education forms the basis of the course. Two lectures, two one-hour laboratory periods per week. Required of all candidates for the elementary school credential and the special credential in physical education in the sophomore year. Junior college transfer students may take this course in their junior year.
Spring (21)

Sports
1. The individual activities, tennis, golf, archery, badminton and dancing are offered through the year. Candidates for the special credential in physical education select one as a major activity and two others as minors. Skills in the activities thus selected must be maintained as prerequisite to the senior course, Physical Education 1135. (See page 100.)
2. The Women's Athletic Association sponsors the intramural sports program. Under its direction competition in dual and group games is promoted throughout the year. Open to all college women.

UPPER DIVISION COURSES
Open to all Women. Required of women candidates for the special credential in physical education.

L153 Principles and Administration of Secondary Physical Education
Schweb
A study of the significant influences shaping the trend of physical education, past and present. The philosophy and principles of physical education and its relation to general education. Administrative problems associated with the secondary school situation.
Fall (3) (Offered in 1944-45 and alternate years)

L155 Applied Anatomy and Kinesiology
Schweb
A scientific analysis of the structure, function and relationship of the organs, bony cavities, bones and joints of the skeletal, musculotendinous, nervous and circulatory systems. An understanding of the relation of the analysis of the selection of activity in addition the student will apply the results of the analysis in selection of activity. Prerequisite: Zoology 20 or 8.
Spring (3) (Offered in 1944-45 and alternate years)

L157A-L157B Sports Methods
Shafer
Practice for skill, study of rules, and of coaching methods. Prerequisite: A season's experience in at least four of the following sports: volleyball, basketball, hockey, fastball, soccer, baseball.
Year course (2-2)

L160 Principles of Teaching Gymnastics
Schweb
Gymnastic materials and methods followed by practice in teaching marching, gymnastics and use of apparatus.
Fall (2) (Offered in 1944-45 and alternate years)

161 Folk Dancing
Schweb
Practice in folk and clog dancing. Methods of presentation, study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.
Spring (2) (Not offered in 1944-45) Open to men and women

L164A-L164B Methods in Modern Dance
Schweb
Laboratory experiments in advanced choreography and percussion accompaniment. Historical survey and practical experience in production techniques and teaching methods. Two activity periods and one lecture per week. For men and women. Prerequisite same as for L12A.
Year course (2-2) (Not offered in 1944-45)
PHYSICS

TWO-YEAR COURSE

L40 Man and His Physical World

Watson

A brief survey of the nature of the scientific method and of selected topics in physical science. Materials will be chosen from physics, chemistry, astronomy, and geology in order to give some background for an understanding of the relations of physical science to modern life. Not open to students who have had high school or college physics.

Open only to students enrolled in a two-year curriculum.

Fall (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B; or their equivalents. Recommended: A reading knowledge of French and German. A maximum of 12 units of lower division physics may be applied toward the degree.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 110A-110B. Six of the twenty-four units may be elected in related subjects and deviations from these requirements may be made on consultation with the chairman of the department.

LOWER DIVISION COURSES

1A-1B Mechanics and Heat

Ross

Mechanics, properties of matter, and heat. A development of the fundamental ideas concerning the subject of mechanics, and the application of those ideas to the solution of practical problems. Lectures, text assignments, problem sets, and experimental work. Prerequisites: laboratory work in physics. Two lectures and one laboratory period each week.

Year course (3-3)

1C-1D Electricity, Magnetism, Sound, and Light

Baird

Two years of high school mathematics.

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A continuation of Physics 1A-1B for students in the sophomore year. Two lectures and one laboratory period each week.

Year course (3-3)

3A-3B Physical Measurements

Baird

Laboratory work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism. Usually taken in conjunction with Physics 2A-2B.

Year course (1-1)

UPPER DIVISION COURSES

*105A-105B Analytical Mechanics

Baird

Treatment of fundamental principles of statics, kinematics and dynamics of particles and rigid bodies. Prerequisites: Physics 1A-1B or 2A-2B and a working knowledge of trigonometry and calculus.

Year course (3-3) (Offered in 1944-45 and alternate years)

*106 Optics

Baird

A review of reflection, refraction and dispersion, with applications to optical instruments. A survey of phenomena indicative of the physical nature of light: interference, diffraction, polarization, and spectral radiation. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1944-45 and alternate years)
106L Optical Measurements  
Laboratory work to accompany Physics 106.  
Fall (1) (Offered in 1944-45 and alternate years)  

107A-107B Electrical Measurements  
Laboratory work designed to accompany Physics 110A-110B. Emphasis placed on the theory and use of electrical measuring instruments.  
Year course (1 or 2 units for the year) (Offered in 1945-46 and alternate years)  

9108 Modern Physics  
An introduction to physical investigations of the last half-century. Atomic structure and quantum theory in the light of high-vacuum phenomena, series in optical spectra, natural and induced radioactivity, and allied subjects. Prerequisite: Eight units in physics.  
Spring (3) (Offered in 1944-45 and alternate years)  

108L Modern Physics Laboratory  
Laboratory, to accompany Physics 108.  
Spring (1) (Offered in 1944-45 and alternate years)  

110A Introduction to Electricity and Electromagnetism  
Elements of the mathematical theory of electromagnetism, of magnetostatics and magnetism, and of steady and varying currents. Students are encouraged to accompany the course with 1 unit of laboratory work. Prerequisites: Eight units in physics, Mathematics 2A-3B.  
Fall (3) (Offered in 1945-46 and alternate years)  

110B Principles of Electromagnetism and Electronics  
A more complete study and an extension of the material surveyed in Physics 110A, illustrated with practical applications. Prerequisite: Physics 110A and consent of the instructor.  
Spring (3) (Offered in 1945-46 and alternate years)  

112 Advanced Heat and Thermodynamics  
Thermal properties of matter. An introduction to the kinetic theory of gases and the laws of thermodynamics. Prerequisites: Eight units in physics and a working knowledge of calculus.  
Spring (3) (Not offered in 1944-45)  

112L Advanced Heat Laboratory  
Laboratory work in thermal expansion, specific heat, heat of combustion, radiation and other related topics in advanced heat. Designed to accompany Physics 112.  
Spring (1) (Not offered in 1944-45)  

113L Pyrometry Laboratory  
Laboratory work in the calibration and use of various temperature measuring devices. Prerequisite: Eight units in physics.  
Spring (1) (Not offered in 1944-45)  

114 Sound Waves and Acoustics  
A study of wave motion and its applications to the production, transmission and musical instruments. Prerequisite: Eight units in physics.  
Fall (3) (Not offered in 1944-45)  

114L Advanced Sound Laboratory  
Laboratory work in the problems of wave motion, standing waves, velocity of sound in various media, diffraction and interference of sound. Designed to accompany Physics 114.  
Fall (1) (Not offered in 1944-45)  
* Will be offered if there is sufficient demand.  

115L Applied Acoustical Measurements  
Laboratory work in various practical applications of acoustics. Directional and frequency characteristics of loudspeakers and microphones. Architectural acoustics. Prerequisite: Eight units in physics.  
Fall (1) (Not offered in 1944-45)  

199 Special Study  
Reading or work on special problems in physics. Admission by consent of the instructor. Credit and hours to be arranged in each case. Open to students who have completed at least eight units of work in the department with grade of A or B.  
Fall and Spring (1 or 2-1 or 2)  

PHYSIOLOGY  

1A Human Physiology  
A lecture course considering the functions of the human body. Prerequisites: Elementary chemistry and high school or college biology or zoology. Three hours of lecture per week. Credit reduced to 2 units, for students having credit for Zoology 20.  
Spring (3)  

1C Human Physiology  
A study of the human functions through laboratory experiments and demonstrations. Prerequisites: Physiology 1A completed or in progress. Six hours of laboratory per week.  
Spring (2)  

POLITICAL SCIENCE  
The minor in political science: from twelve to eighteen units of work is recommended. At least half the work should be chosen from upper division courses. It is suggested that students who expect to major in political science plan their lower division work to include both Political Science 1A-1B and 71A-71B, and either Economics 1A-1B or History 4A-4B.  

1A-1B Comparative Government  
A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.  
Year course (3-3)  

71A-71B American Government and Politics  
71A—Governmental organization in the United States; the federal system, organization, powers and functions of the legislative, executive and judicial branches of the national government, and the operation of its activities.  
71B—Development of the means of democratic control of government in the United States; the history, motivation, methods and control of political parties; party machines; election systems; influence of minority groups; the lobby; the press, radio and television.  
This course is not open to freshmen.  
Year course (3-3) (Not offered in 1944-45)  

101 American Institutions  
A study of the principles of the Constitution of the United States, and a survey of the political and social institutions which have developed under it.  
All candidates for the bachelor's degree are required by State law to secure credit in this course, unless they have completed one of the following courses: History 71A-1B; 77A-77B; Political Science 113, 175A-175B. This course is offered only in the fall semester.  
Enrollment is limited to students of junior or senior standing, except with the consent of the instructor.  
Fall (2)
111 Theory of the State
Leonard
The nature of the State, its organization and activities, and its relation to the individual and to other states. Special attention will be given to recent developments in the field of political thought.
Fall (3)

113 American Political Ideals
Leonard
Underlying theories and principles of American governmental policy.
Spring (3) (Offered in 1944-45 and alternate years)

133A-133B Principles of International Law
This course is concerned with the function of law in the international community. The historical development of the theory and rules of international law, the application of international law in national relations and the application of international law in national courts will be studied.
Year course (3-3) (Not offered in 1944-45)

136A-136B Problems of the Pacific Area
Particular emphasis during the first semester on the development through the 19th Century of the governmental problems of the Far East, both internal and international. The second semester will be devoted to a consideration of the 20th Century aspects of these problems.
Year course (3-3) (Not offered 1944-45)

141 Theories of International Relations
The development of ideas concerning international relations from ancient through modern times. Theories of nationalism, imperialism, internationalism, and cosmopolitanism will be reviewed and their validity considered in the light of modern experience.
Fall (3) (Not offered in 1944-45)

142 International Organization
Present attention at international organization, the effect of the World War on ideas of international relationships, postwar attempts at organization. Special attention will be given to the organization and development of the League of Nations, its accomplishments and failures, and to national attitudes toward cooperation since the war.
Spring (3) (Not offered in 1944-45)

143A-143B Principles of Public Administration in the United States
A study of the development of executive agencies in the American federal government and the relationships between these agencies and the changes in American concepts of the proper field of governmental activity.
Year course (3-3) (Offered in 1945-46 and alternate years)

175A-175B-American Constitutional Development
Leonard
A study of the work of the Convention of 1787, and of significant phases of American constitutional law.
Year course (3-3)

PSYCHOLOGY

1B General Applied
Steinmetz
A continuation of general psychology designed to familiarize the student with (1) elementary statistical methods and (2) fields of applied psychology and possibly (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach if judged advisable or for additional unit. Prerequisite: Psychology 1A. Required for advanced study.
Fall and Spring (3)

4A Applied
Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personal traits, and achieving success and happiness. Surveys of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.
Fall (3) (Not offered in 1944-45)

4B Psychology Applied in Business
Steinmetz
Applications of psychology to a wide range of problems encountered by business. Motives, attitudes, habits, and traits in their relation to behavior of employer, employee, and executive. Advertising, salesmanship, and problems of selecting, placing and increasing the efficiency of employees. Business cycles and consumer research. Prerequisite: Psychology 1AB or equivalent.
Spring (3) (Offered in 1945-46 and alternate years)

4C Psychology in Industry
Study of time, motion, lighting, fatigue; selection, placing, training, evaluating personnel; industrial interviewing. Prerequisite: Psychology 1A or equivalent.
Spring (3) (Offered in 1944-45 and alternate years)

102A Genetic Child
This course represents the main effort of the psychology department to provide an orientation toward the psychology of the child. The course has been developed in recognition of the need for the establishment of a child guidance center devoted to the study of children and adolescents. The course is designed to familiarize students with the nature and development of child psychology.
Fall (3) (Not offered in 1944-45)

102B Genetic Adolescence
Survey of the wealth of knowledge in the field of psychology, sociology, and psychology recently made available to parents and professional workers with youth just before, during, and after puberty.
Spring (3) (Offered in 1944-45)

118 Mental Hygiene
Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both children and adults. The beginnings of undesirable attitudes and habits and methods of treating them are discussed.
Prerequisite: Psychology 1A recommended. Prerequisite: Psychology 1B, 102.
Spring (3) (Not offered in 1944-45)

145 Social Psychology
Steinmetz
Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, social dominance, the group, the family, work groups, public opinion, social control, prejudice, propaganda, sex differences, political psychology. Prerequisite: Psychology 1A. Recommended: Psychology 4A.
Fall (3) (1945-46)
150 Abnormal Psychology
Steinmetz
The relation of psychology to the psycho-neuroses and insanity; the appearance of abnormal traits in incipient stages of mental disturbances. Methods of diagnosis and early treatment.
Fall (3) (Offered in 1944-45 and alternate years)

151 Clinical Psychology
Steinmetz
A study of diagnostic individual tests, the interview, and especially personality tests, and of psychotherapeutic principles, for intensive study of personality and face-to-face judgment. Specialization is determined by individual needs.
Spring (3)

160 Experimental Psychology of Learning
Steinmetz
Introduction to instrumental and comparative psychology and to methods of research in the development of behavior theory. Prerequisite: 3 units of other work in the department and consent of the instructor; required of those seeking a major.
Fall (3) (Not offered in 1944-45)

TWO-YEAR COURSE

L40 Psychology and Life
Perry
An elementary survey of normal adult psychology, focused upon psychological principles in relation to life situations. Open only to students enrolled in a two-year curriculum.
Fall and Spring (3)

SECRETARIAL TRAINING

L4A Business Mathematics
A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.
Fall and Spring (1) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Credential)

L1A-L1B Typewriting
Amsden
A rapid development of a thorough command of a keyboard by the touch method. The acquisition of speed and the artistic arrangement of typewritten material with special reference to commercial forms, tabulation and billing; specifications, legal forms, and preparation of manuscripts; transcription, mimeographing, etc. Eight hours lecture and laboratory practice.
Year course (3-3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Credential)

L2A Typewriting
Amsden
A short course designed for those not wishing to enter the business office but desiring a knowledge of the use of the typewriter. Five hours laboratory practice.
Spring (2)

L3A Office Methods and Appliances
Wright
Practice and principles of office management, including organization, arrangement and operation. Study and use of modern office appliances such as the multigraph, mimeograph, filing devices, calculating and bookkeeping machines. Prerequisite: Secretarial Training IA or its equivalent.
Fall (3) (No credit will be counted toward A.B. degree requirements except in the curricula leading to the Business Education Credential)

L5A-L5B Stenography
Amsden
An intensive course designed for the practical preparation of office secretaries. A thorough study of the Gregg System. Development of the ability to read and write shorthand rapidly and correctly, both literary and commercial. The shorthand speed necessary to pass a civil service examination is attained by the end of the year.
Year course (5-5)

SOCIAL SCIENCE

L6A-L6B Advanced Stenography
Amsden
Development of speed in writing and transcription. Advanced dictation on letter forms, legal forms, speeches, and literary and technical material.
Year course 3-3

English in Business (See English, page 75)

SOCIAL SCIENCES

The courses offered in the Social Sciences are listed below. See pages listed after each subject for a more complete description of the offerings under that designation. Anthropology, see page 53; Economics and Commerce, page 63; Geography, page 86; History, page 83; Political Science, page 162; Social Science, page 167; and Sociology, page 168.

SOCIAL SCIENCE

Lower division preparation for the liberal arts major in social science: Fulfillment of the departmental requirements for upper division work in at least three of the following sciences: Anthropology, economics, geography, history, political science, sociology. This major is available only to students who are preparing for graduate work in anthropology, political science, or sociology, and to those enrolled in certain preprofessional and other curricula. Official approval for candidacy for a degree with a social science major must be obtained from the dean of liberal arts.

LOWER DIVISION COURSES

1A Contemporary Political, Social and Economic Problems
A. G. Peterson
An analysis of major problems of the present day with reference to the conditions out of which they arise and with regard to their essential unity and interrelationships. Special attention to implications of the war and pest-war problems. An attempt to introduce the student to sound methods of approach in dealing with these problems.
Fall and Spring (3)

1B American Trends Since 1918
Main currents of American life since the World War. Stress on immediate background of modern institutions. Aims to familiarize students with the major events which have occurred during the lifetime of the present college generation.
Fall and Spring (3) (Not offered in 1944-45)

TWO-YEAR COURSES

L40 Contemporary Problems
Barnhart
A survey of the major political, social, and economic forces in modern American life. Chief problems are analyzed in relation to their setting, and students are given sound methods of approach in dealing with them. Open only to students enrolled in a two-year curriculum.
Fall (3)

L45 American Democracy
Barnhart
The structure and function of government, as it relates to individual Americans. Special emphasis on popular participation through voting, political parties, pressure groups, and public opinion. Prerequisite: Sophomore Standing. Open only to students enrolled in a two-year curriculum.
Spring (3)
SOCIOLGY

Lower division preparation for the liberal arts major in social science with concentration in sociology; Sociology 50A, 50B; Economics 1A-1B and one of the following year courses: Anthropology 50A-50B, Political Science 1A-1B, 71A-71B. See requirements for the social science major, page 107.

LOWER DIVISION COURSES

50A Introduction to Sociology
Barnhart
A study of modern social problems recognizing the geographic, economic, psychological, and sociological factors involved. Emphasis is on a scientific method of approach. An evaluation of various causes and solutions of problems is made.
Fall (3)

50B General Sociology
Barnhart
A course in general sociology for upper division students. The development and use of the concepts of sociological analysis, such as human nature, the effects of isolation and social contacts upon the development of personality; social interaction; social processes; social forces; social control; collective behavior; and social progress.
Spring (3)

55 Marriage and Family Life
Perry
A psychological and sociological approach to the study of marriage and the family. Some of the topics covered are: relation of courtship to marriage; emotional maturity and marriage; effects of marriage; marital relationships; social and marital status. Prerequisite: Sociology 1A-1B; Biology 1A recommended.
Fall (3)

105 Social Pathology
Barnhart
A study of the abnormal phenomena in society; family disorganization and personal demoralization; pathology of individual and group relationships and of economic, social, and cultural relationships.
Fall (3)

106 Criminology and Penology
Barnhart
The extent and characteristics of crime; consideration of physical, mental, economic, and sociological causes of crime; study of methods of mental discipline, prison labor, parole, and probation; programs of prevention.
Spring (3) (Oferred in 1944-45 and alternate years)

108 The Family
Barnhart
History of marriage and family as a social institution. Effects of various economic and social factors on the modern family; higher education and the birth rate; marital and family economic adjustment in marriage, parenthood. Prerequisite: Sociology 1A-1B or Psychology 1A recommended.
Spring (3) (Offered in 1944-46 and alternate years)

109 Fields of Social Work
Barnhart
A survey of the nature of social work and the various kinds of social work which are found in modern urban life. The student is familiarized with the various social agencies and their organization; the community, their problems and methods of work, by readings and field trips.
Spring (3)

126 Social Reform Movements
Barnhart
A study of organized efforts to change social institutions in the United States since democracy of each movement.
Fall (3) (Not offered in 1944-45)

SPANISH

197 Urban Sociology
Barnhart
A study of the structure and function of the modern city; types of neighborhoods; forms of recreation; social forces in a metropolitan area; types of urban personalities and groups; rural-urban conflicts of culture. Practical field studies required.
Fall (3)

TWO-YEAR COURSE

L45 Marriage and the Family
Perry
The purpose of this course is to prepare young people for successful marriage and family life. The development of the personality through family relationships, the choice of a life partner, and the social and economic factors involved in the establishment of a home, are given special emphasis. The importance of the family as a unit in the development of young people is stressed.
Spring (3)

LOWERT DIVISION COURSES

A-B Elementary
Phillips, L. P. Brown
Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and preparation for Spanish. A-B; History 4A-4B.

Spanish major in Spanish: Twenty-four units of upper division work, of which at least eighteen must be in Spanish, and of which a maximum of six may be in related subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

C-D Intermediate Spanish
Phillips
Reading and composition: study of standard prose as basis for class work; collateral reading. Lecture and composition: study of standard prose as basis for class work; collateral reading. Lecture and composition: study of standard prose as basis for class work; collateral reading. Lecture and composition: study of standard prose as basis for class work; collateral reading.

1-2 Elementary
Year course (3-3) (Not offered in 1944-45)

50 Spanish Commercial Correspondence
Phillips
A one-semester intermediate course in Spanish composition, directed along the line of commercial correspondence. A practical course, with translation of real business correspondence. A practical course, with translation of real business correspondence. A practical course, with translation of real business correspondence.
Fall (3)

101A-101B Conversation and Composition
Phillips
Prerequisite: Spanish D, or its equivalent, with grade of C.
Year course (3-3) (Offered in 1944-46)
104A. Introduction to Spanish Classics
L. P. Brown
Reading from several types of classical literature. La zarra de Tornes and other novels of Rovigo; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcón, and Monte; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.
Year course (3-3) (Offered in 1946-47)

104A-104B Spanish-American Literature
Phillip
Reading from representative Spanish-American authors during the colonial, revolutionary and modern periods. Lectures, class reading, collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.
Year course (3-3)
See also English 104, Latin-American Literature in English, which may be taken for Spanish credit.

105A-105B Modern Spanish Drama
L. P. Brown
The development of the drama of Spain from the beginning of the nineteenth century to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.
Year course (3-3) (Offered in 1947-48)

110A-110B Novel and Short Story in Spain
L. P. Brown
The development of the novel and short story in Spain from 1820 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.
Year course (3-3) (Offered in 1945-46)

199 Comprehensive Reading and Survey Course
The Staff
Design course to fill the gaps in the reading done in courses. Class meeting once a week for guidance, reports, and quizzes. Required of all seniors majoring in Spanish.
Spring (3)

SPEECH ARTS

Lower division preparation of the Liberal Arts major in Speech Arts: At least 18 units of lower division courses in Speech Arts, including 1A, 1B, and six units chosen from 55A, 55B, 55C, 55D. Recommended: Aesthetics 1A, 1B, 50; Art 25A, 25B.


Candidates for the teaching credentials in Speech Arts should refer to the "Admission to Teacher Education Curricula" on page 21 or to the note regarding the Special Credential in Speech Arts on page 35.

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking
F. L. Johnson
Training in fundamental processes of oral expression; methods of obtaining and organizing material; outlining principles of attention and delivery; extemporaneous speaking and open forum debating; practice in construction and delivery of type form of speech.
Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)
Practices in extemporaneous speaking on subjects of current interest both national and local, with stress laid on the organization and delivery of content material. Forum discussion will provide speakers with the opportunity of assembling facts quickly to meet such questions as any audience situation might demand.
Spring (3) (Not offered in 1944-45)

1C Oral Interpretation
Jones
The oral interpretation of longer literary selections, both in poetry and prose; a fundamental course designed for the beginning students in drama as well as those majoring in English literature.
Fall (3) (Not offered in 1944-45)

1D Advanced Interpretation
Jones
Emphasis placed on stage poise and grace with adequate attention given to variations in the presentation of literary selections. Much opportunity is provided for individual and group creative work. No prerequisite. Class limited.
Spring (3)

20 Corrective Speech
Corrective laboratory training prescribed on the basis of vocalization tests made on Electro-Vox Recording Machine. Required of education majors who fail to meet speech requirements test. Private clinical assistance given to stutterers and lipers.
Fall and Spring (1) (9 weeks' course) (Not offered in 1944-45)

55A-55B Dramatic Production
Jones
A course for first and second year students in which, through participation, they acquire an understanding of certain dramatic periods and types studied in English literature. Individual and group expression coordinated and developed in production of scenes, acts, and plays—a fundamental drama course emphasizing modern trends. No prerequisite.
Year course (3-3) (Offered in 1945-46 and alternate years)

55C-55D Dramatic Expression
Jones
A course to help students realize and develop their creative abilities for expressing life and character through acting and writing. History, technique and theory of various dramatic forms studied, created and presented through workshop methods. A fundamental course planned for students desiring specialized training in drama or writing. Prerequisite: Consent of instructor.
Year course (3-3) (Offered in 1944-45 and alternate years)

60 Augmentation and Debate
Obtaining and organizing of evidence and the construction and use of the brief; study and discussion of current issues; the presentation of formal and informal debates. Attention to intramural and intercollegiate debating.
Spring (3) (Not offered in 1944-45)

61A-61B-61C-61D Intercollegiate Debate
Year course, each year (1) (Not offered in 1944-45)

63A-B-C-D Verse Choir
Jones
Participation in verse speaking choons to develop quality, range of tone, and ability in dramatic visualization of poetry. Required for speech arts credential.
Fall and Spring (1-1)

102 Organized Discussion
Consideration of the symposium, the panel, the open forum, the business session, and various types of conference speaking. Emphasis upon organization and presentation; attention to parliamentary procedure for informal groups.
Fall (3) (Not offered in 1944-45)

108 Art of Interpretation
Analysis of various types of literature. Material chosen will emphasize the finer techniques of oral expression to develop the imagination, the emotional power, rendering and overall flexibility and tonal range of the voice. Required for College Speech or equivalent.
Spring (3) (Not offered in 1944-45)
110 Recreational Reading
Dickhaut
See English, page 70.

112 History of the English Language
See English, page 70.

113 American English
See English, page 70.

116B The Elizabethan Drama
F. L. Johnson
See English, page 77.

117A-117B Shakespeare
F. L. Johnson
See English, page 77.

150 Phonetics
Auditory and kinesthetic analysis of the sounds of the English language. Valuable as a corrective course in pronunciation and articulation. Required of speech majors and those seeking Speech Correction Credential.
Fall (2) (Not offered in 1944-45)

152A Survey of Drama: Comedy
See English, page 78.

152B Survey of Drama: Tragedy
See English, page 78.

155A-155B Advanced Dramatic Expression
Jones
For upper division students training for leadership in different fields as well as drama. More advanced forms of dramatic expression studied; creative abilities in interpretation, writing, acting, and stagecraft developed in relation to various subjects and activities. Conducted through individual research projects, group discussion and participation. Original work encouraged. Prerequisite: A fundamental drama course.
Year course (3-3) (Offered in 1955-46 and alternate years)

156A-156B Advanced Dramatic Production
Jones
The study of more difficult dramatic types and periods in the production of poetic and prose literature of different countries. Arrangement, organization, creation, direction and presentation of class room, recreational and other forms of performances. Practical participation and demonstration. A course designed for students majoring in other subjects as well as the theater arts.
Year course (3-3) (Offered in 1944-45 and alternate years)

157A-157B Radio Production
Jones
Preparation and production of radio plays and various types of radio material.
Fall and Spring (3-3)

163A Rhythm, Pantomime and Choric Verse
Jones
A course combining bodily movement with group speaking. Presents the fundamentals of rhythm and pantomime in different forms of dramatic expression.
Spring (3) (Offered in 1955-46 and alternate years)

163B Advanced Rhythm, Pantomime and Choric Verse
Jones
Continuation of above.
Spring (3) (Offered in 1944-45 and alternate years)

175 Special Speech Disorders
Clinical survey of newest methods of speech correction with special emphasis on stammering and cleft-palate speech. One of required courses for Special Corrective Credential.
Spring (3) (Not offered in 1944-45)

ZOOLOGY

1A General Zoology
Harwood
An introduction to animal biology dealing with structure, functions, and evolution of animal life. Laboratory work supplementing the lectures and based on the study and observation of living and preserved material (turtles and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting him with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and six hours of laboratory per week. Students who have credit for Biology 10A-10B receive no credit for Zoology 1A but receive credit for Zoology 1B.
Fall (4)

1B General Zoology
Harwood
A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and six hours of laboratory per week. Prerequisite: Zoology 1A or Biology 10B.
Spring (4)

4 Microtechnique
M. E. Johnson
Introduction to methods of preparation of tissues for microscopic study. Six hours of laboratory per week. Prerequisite: elementary chemistry.
Spring (3)

8 Human Anatomy
Crouch
A study of human structure through the use of models, prepared dissections and microscopes. Prerequisite: high school biology, Biology 10A, 1, or Zoology 1A. Two lectures and three hours of laboratory per week. Required of premedical students. Credit reduced to 2 units if student has students. Not open to premedical students. Credit reduced to 2 units if student has credit for Zoology 20.
Fall (3)

20 Human Anatomy and Physiology
Crouch
An elementary course in human anatomy and physiology. Prerequisite: High school biology or Biology 1 or 10A or Zoology 1A. Lectures three hours per week. Credit reduced to 2 units if student has credit for Zoology 5 or Physiology 1A.
Fall and Spring (3)

8-41523
100 Embryology
M.E. Johnson
The development of vertebrates as illustrated by the frog, chick, and pig. Three hours of laboratory and three hours of lecture and quiz per week. Prerequisite: Zoology 1B or Biology 10B.
Spring (4)

100D Microtechnique
M.E. Johnson
Introduction to methods of preparation of tissues for microscopic study. Three hours of laboratory per week. Prerequisite: elementary chemistry and embryology completed or in process.
Spring (1)

106 Comparative Anatomy of the Vertebrates
Crouch
Dissection, study and comparison of organ systems of typical vertebrates. Two hours per week of lecture and six hours of laboratory. Prerequisite: Zoology 1B or Biology 10B.
Fall (4)

108 Human Anatomy
Crouch
Lectures and laboratory work of Human Anatomy 8 with an additional hour of seminar each week. Open only to upper division students by special arrangement.
Fall (3)

112 Marine Invertebrates
M.E. Johnson
Identification and study of behavior and life histories of invertebrates of the San Diego region. Frequent collecting trips to the beaches required. Prerequisite: Zoology 1A or Biology 10B. One hour of lecture and six hours of laboratory or field work per week.
Fall (3) (Offered in 1945-46 and alternate years)

112A Taxonomy and Natural History of the Mammals
Harwood
Frequent field trips and the identification of museum material. Three hours of laboratory per week.
Spring (1) (Offered in 1944-45 and alternate years)

113B Ornithology
Crouch
The study and identification of birds, especially those of the Pacific Coast and the San Diego region. One hour of lecture and six hours per week of laboratory, or field excursions. Prerequisite: Zoology 1B or Biology 10B.
Spring (3) (Offered in 1944-45 and alternate years)

114A Genetics
Harwood
General introductory course designed to acquaint the student with the fundamental principles of heredity and variation. Special attention given to the Mendelian interpretations of the facts of inheritance. Two lectures per week.
Fall (3)

114E Evolution
M.E. Johnson
The development of theories of evolution. Two lectures or discussion periods per week.
Spring (2)

121 General Entomology
Harwood
The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biology 10B. Two hours of lecture and six hours of laboratory per week.
Spring (3)

122 Systematic Entomology
Harwood
Classification of insects with special emphasis on a group of insects of the student's choice. To be taken with or to follow 121. May be repeated for credit but with a different group of insects. Three to six hours of laboratory work each week.
Spring (1 or 2)
BROOKS, BAYLOR — Assistant Professor of Geology
B.A., 1928, Stanford University; two years graduate study since 1928 at University of Arizona and Stanford University. At San Diego State College since 1929.

BROWN, ELIZABETH (Mrs. Leslie P.) — Associate Professor of French
Ph.B., M.A., Ph.D., University of Chicago. At San Diego State College since 1928.

BROWN, LESLIE PARKER — Professor of Spanish and French
B.A., 1913, Yale College; M.A., 1915, Harvard University; Ph.B., 1916, University of Southern California. At San Diego State College since 1928.

CALLAND, LEO BLAKELY — Associate Professor of Physical Education
B.A., 1922, University of Southern California; M.S., 1931, University of Idaho. One year graduate study since 1921 at University of Southern California. At San Diego State College since 1933.

CAMERON, ROY ERNEST — Professor of Economics
A.B., 1922, Ph.D., 1929, University of California. At San Diego State College since 1929.

CORBETT, KATHERINE E. — Supervisor of Student Teaching; Associate Professor of Education

CROUCH, JAMES ENSIGN — Professor of Biology
B.S., 1919, M.S., 1921, Cornell University; Ph.D., 1939, University of Southern California. At San Diego State College since 1932.

DARSEY, MARVIN LLOYD, Jr. — Instructor in Biology
B.S., 1924, University of California at Los Angeles; Ph.D., 1938, Stanford University. At San Diego State College since 1939.

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