

SAN DIEGO
STATE COLLEGE
BULLETIN

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STATE DEPARTMENT OF EDUCATION

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CALENDAR 1937-1938

SUMMER SESSIONS, 1937.

Term I, six weeks, June 21-July 30.

Term II, three weeks, August 2-August 21.

FALL SEMESTER, 1937-1938.

September 8 and 10—Wednesday and Friday. Orientation Program for all New Students (Attendance Required).
Aptitude Test—8:00 A.M., September 8.
Fundamentals Test—8:00 A.M., September 10.

September 9—Thursday. Office closed.

September 13—Monday. 8:00-12:00 A.M., and 1:00-4:00 P. M. All students register and pay fees.

September 14—Tuesday. Instruction begins. Late registration fee becomes effective.

November 11—Thursday. Armistice Day Holiday.

November 25 and 26—Thursday and Friday. Thanksgiving Recess.

December 17—Friday. Christmas Recess Begins.

January 3—Monday. Classwork Resumes.

January 20-27 incl.—Mid-Year Examinations.

SPRING SEMESTER, 1938.

January 31 and February 1—Monday and Tuesday. Orientation Program for all New Students (Attendance Required).
Aptitude Test—8:00 A.M., January 31.
Fundamentals Test—1:00 P.M., January 31.

February 2—Wednesday, 8:00-12:00 A.M. and 1:00-4:00 P. M. All students register and pay fees.

February 3—Thursday. Instruction begins. Late registration fee becomes effective.

February 22—Tuesday. Washington's Birthday Holiday.

April 11-15 incl.—Easter Recess.

May 1—Sunday. Founder's Day Celebration.

May 30—Monday. Memorial Day Holiday.
June 2-9 incl.—Final Examinations.
June 10—Friday. Annual Commencement Exercises.

SUMMER SESSIONS, 1938.

Term I, six weeks, June 20-July 29.

Term II, three weeks, August 1-August 19.

THE COLLEGE

Historical Sketch

The growth of the San Diego State College has involved three stages of development. When it was established by legislative enactment in 1897 it was known as the State Normal School of San Diego. It opened its doors in 1898.

The second cycle of its growth began in 1921 when the legislature converted all the California normal schools into State teachers colleges. During the same year, the San Diego Junior College was merged with the teachers college. Lower division courses were then available in a single institution for the various types of students in the community. From 1927 to 1934, the junior college relationship was discontinued, and the teachers college carried the lower division offerings. These offerings were enriched when the junior college arrangements were resumed in September, 1934.

The four-year curricula, leading to an A. B. degree with a major in education, were established in 1923. At that time and subsequently, the State Board of Education authorized the following teaching credentials, which were to be granted in connection with the degree: general elementary, general junior high school, general junior high-general elementary; special secondary in art, business education, music, and physical education. Presecondary curricula were first authorized by the State Board of Education in 1928, and ~~major subjects were approved from time to time until a total of thirteen was finally reached: art, chemistry, commerce, economics, English, geography, history, mathematics, music, physical science, physics, Romance languages, and zoology.~~

In September, 1935, the college entered upon its third phase when it became, by legislative enactment, the San Diego State College. This enabled the college to drop the requirement in education courses from the curricula previously known as presecondary and to convert them into liberal arts curricula leading to the A. B. degree with any one of the ~~thirteen majors enumerated above~~. Thus, while still retaining teacher training as a major function, the San Diego State College ~~is now~~ ^{has} able to offer a rather broad liberal arts program for students with varied objectives and needs.

Location and Environment

Renowned as a winter resort with a mild but 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. While San Diego is not large, it has certain admirable metropolitan advantages for the student. Many of these are to be found in the heritage resulting from the expositions of 1915-16 and 1935-36, including the buildings themselves, which portray the best

types of Spanish colonial art, and represent one of the finest exhibits in architecture in America. Housed in these buildings are exhibits in anthropology and cultural history which in many respects are unsurpassed. Cooperation with the directing boards opens to the student rare natural history and American archaeological collections. The Fine Arts Gallery contains excellent exhibitions of paintings. There are plans for the development of a Public Conservatory of Music for which the great out-of-door organ furnishes a beginning. Balboa Park, in which all of these facilities are located, also contains a modern horticultural farm. At La Jolla, the Scripps Institute of Oceanography, operated by the University of California, gives opportunity for important cooperation in biological science.

Buildings and Equipment

On February 1, 1931, the college was moved to the new campus, which is located one mile north of the city's principal east-west boulevard, El Cajon Avenue. The campus has an area of one hundred twenty-five acres. The new buildings are part of a general plan to be completed within the next few years. This plan calls for one style of architecture, the Spanish-Moorish type, which is well suited to the landscape and climate of this region. The buildings now in use include the Academic Building, which houses lecture halls, classrooms, and administrative offices; the Science Building; Library; Little Theater; Training School; Scripps Cottage (a social clubhouse for women students); the Student Building, housing the cafe and bookstore; and 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. A fine concrete football stadium is in the process of construction and a portion of the stands, adequate to meet present needs, was finished for the 1936 season. Ultimately this structure will provide a seating capacity of approximately 45,000 and the final cost will be about \$425,000.

Facilities for the Training of Teachers

The college maintains a modern elementary training school on the campus where it has developed an extensive program for the education of elementary school teachers. The classroom-laboratory plan calling for the use of work-rooms, the library, and shops, affords unusual opportunities for the induction of students into teaching.

By arrangement with the Board of Education and the administrative officers of the San Diego City Schools, practice teaching for one-half day throughout a semester is provided in the Euclid elementary school, and a somewhat 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 this size. The library consists of 55,000 volumes selected to meet the requirements of a modern educational institution. Seven professionally

trained librarians are available to render assistance to students in their reading and reference work.

The Training School Library, representing a collection of 8000 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 and the Dean of Men. Women students must secure the approval of the Dean of Women before engaging living quarters for themselves. It is essential also that they secure permission before changing residence at any time during the year.

Student Life

A rich field of extra-curricular activities is available to the student throughout his college life. The student is urged to carefully select these activities in order that he may profit by these extra-class experiences without lowering his standards of scholarship. The Student Handbook, available at time of registration, gives information concerning activities which include organizations in every department of the college, as well as opportunity 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 of participation in physical activities seem advisable.

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

Placement Service

The college offers placement services of three distinct types for students and graduates of this institution:

1. Students who seek part-time employment may register with the Dean of Women or the Dean of Men.
2. A Placement Office is maintained by the college as a clearing house of employment information for employers of State College graduates. While the purpose of this office is to assist candidates in securing positions, its primary aim is to bring about better adjustment between the teacher and community.
3. The Placement Office also serves students in liberal arts curricula who desire employment.

A complete record of college attainments is kept in a confidential file for each registrant of the office and this material is made available to employers. Recommendations are based on records which indicate every item in the candidate's equipment, and particular care is taken to select in each case the candidate who can best meet the requirements of the position. Teacher training graduates pay a fee of two dollars for each year in which active service is desired, and in turn are aided by a field worker who assists them in locating positions. Liberal arts students may register their records without charge, but no attempt is made by the office to find positions for them. Three sets of records will be issued for each liberal arts graduate without charge, after which a fee of two dollars will be made for another set of three.

Alumni Association

The college has an active Alumni Association. Since its reorganization in March, 1929, the association has steadily gained in membership. The annual Homecoming is an important event each year; other meetings take place on dates of important athletic contests. The association also sponsors the organization of Aztec clubs in various communities. Information concerning the association may be obtained by writing the secretary at the college.

FEES, EXPENSES, AND LOAN FUNDS

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.

	Minimum	Average
Fees and Deposits-----	\$20.00	\$27.50
Books -----	10.00	15.00
Board and Room-----	125.00	150.00
Incidentals (transportation, lunches, student organizations, etc.) -----	35.00	50.00
	<u>\$190.00</u>	<u>\$242.00</u>

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. An employment service is conducted by the Dean of Women and the Dean of Men to assist students who must earn part of their expenses.

List of Fees and Deposits (Subject to Revision)

PAYABLE AT TIME OF REGISTRATION

*Resident students -----	\$6.50
Limited students and auditors (5 units or less)—per unit-----	2.50
*Non-resident students—1st semester -----	75.00
2d and subsequent semesters-----	37.50
Late registration fee -----	2.00
Locker (key or combination padlock, each issue)-----	.25
General service deposit (paid by every student registered)-----	3.00
Chemistry deposit (each course in chemistry)-----	5.00
Physics deposit -----	2.00
Student body fee-----	5.50
Associated Men Students or Associated Women Students fee-----	.50

PAYABLE WHEN SERVICE IS RENDERED

College Aptitude Test-----	\$2.00
English—Subject A Test-----	.25
Fundamentals Test -----	.50
Placement Office -----	2.00

*See page 15 for definition of residence for fee-paying purposes.

Placement Office—copy of papers—3 for.....	\$0.25
Evaluation of record for advanced standing.....	2.00
Duplicate of Library Card.....	.10
**Transcript of record (first copy free).....	1.00
Carbon copy of Transcript of Record.....	.25
Special Examination	2.00

State Teaching Credentials***

Elementary	
Elementary and Junior High School	
Special Secondary	
School Administration	
School Supervision	
Each credential	3.00

PAYABLE DURING SEVENTH WEEK OF EACH SEMESTER

Library	\$1.25
Mimeographing50
Health75
Towel, Men	1.50
Towel, Women	1.00

In addition to the above, there are laboratory fees and charges for certain courses, ranging from fifty cents to seven dollars and fifty cents per course, which are payable during the seventh week of each semester.

Loans and Scholarships

Scholarships for both men and women have been made available through the efforts of the college officers, student organizations, alumni, and civic organizations. Superiority in scholarship, worthiness form the point of view of need, and contribution to the college are the standards upon which selection is based. Scholarship aid is therefore restricted for the most part to students who have completed the lower division of the college.

Both long and short term loans are available to students who have been in attendance for at least one year and who have given evidence of ability to do satisfactory college work. Application for loans is made to the Committee on Loans and Scholarships through any Dean of the college.

**The \$1.00 fee must accompany each application for a transcript of record.

***The credential fee is collected through the college by post office money order payable to the State Department of Education. This fee will be \$5.00 for students who have not resided in California one year previous to the date of their application.

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 a satisfactory score on a standard college aptitude test. Regular matriculation will be granted only after the satisfactory completion of a full semester's program of study with records indicating probable success in the chosen curriculum.

Students who enter with eight or more recommended units, earned during their last three years in high school, and who receive a satisfactory score on the College Aptitude Test will be admitted to any curricula without a restricted program. Students who fall below this standard will be given provisional standing or non-degree status and will be limited to a restricted program, or will be required to take a non-degree curriculum.

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

Credit earned in recognized institutions of collegiate grade shall be evaluated and advanced standing allowed on the basis of the evidence submitted. Credit toward the fulfillment of graduation requirements will be allowed only in so far as the courses satisfactorily completed meet the standards and requirements of the basic course pattern of this institution. Applicants for advanced standing must show an average grade of C or better in all college work previously undertaken. No applicant may disregard his collegiate record and apply for admission with freshman standing.

Not more than sixty-four semester hours of junior college work may be allowed for credit.

Students who seek to gain admission with advanced standing must furnish complete transcripts of record for all work attempted beyond the eighth grade. A two dollar evaluation fee must accompany the application for admission.

Applicants over twenty-one years of age, who are not high school graduates and who do not possess the equivalent preparation but who receive a satisfactory score on a standard college aptitude test, may be granted provisional admission as special students. Such persons may be granted full matriculation only upon the removal of all deficiencies and upon the completion of one full semester of satisfactory college work in the chosen curriculum.

Registration

Registration for the fall semester of 1937-38 will take place on September 13, and for the spring semester on February 2. Candidates for

admission should obtain an application blank from the Registrar which must be filed, with complete transcripts of record, two weeks before registration.

The college year is divided into fall and spring semesters of eighteen weeks each, followed by a summer session consisting of terms of six and three weeks, respectively. Students may enter at the beginning of either semester or at the beginning of either of the summer terms.

The summer session meets the needs of regular students who wish to gain credit toward the bachelor's degree, of teachers in service, and of liberal arts students who wish to secure supplemental credit or to shorten the time for completion of their curricula.

Tests Required at Registration Time and Later

1. A physical examination is required of all students upon entering the college. Appointments for this examination are made during registration.
2. All entering students are required to take the College Aptitude Test. Exceptions may be made for students who register for five units of work or less, for former graduates of this college, and for graduates of approved four-year colleges.
3. The Subject A Test (English Composition) is required of all entering students. English 1A must be taken by all students whose tests indicate that they are not qualified for English 1B, even though they may not intend to enroll in English 1B. No student may enroll for his third semester of attendance unless he has qualified for English 1B or is enrolled in English 1A. Exceptions may be made for students transferring credit in English from other colleges.
4. Passing the Fundamentals Test in reading, spelling, arithmetic and handwriting, and a Speech Test are prerequisites for admission to upper division courses in teacher training curricula. Students should take these tests at the beginning of the sophomore year in order that they may have sufficient time to make up deficiencies, if any exist, before applying for admission to the upper division of teacher training curricula. Exceptions may be made for former graduates of this or other California State teacher training institutions who have been teachers in service.

Late Registration

A student who registers after the first week of the semester is subject to a limitation of his program. A fee of two dollars must be paid for registration after the regular registration period. After the first week of the semester, the instructor's approval must be secured for each course entered.

Changes in Registration

Changes in program may be made only with the approval of the proper dean. Petitions for changes in program may be secured at the Registrar's office.

A statement regarding withdrawals from class is to be found on page 18.

Auditors

Auditors must register in the usual way. They are not subject to the late registration fee providing they register on the first day their classes meet.

GENERAL REGULATIONS

Officers for Consultation

Concerning the housing and living arrangements of students, personal problems, part-time employment, etc.—*Women*, The Dean of Women; *Men*, The Dean of Men.

Concerning the scheduling and arrangement for all student social affairs—The Dean of Women.

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; The Dean of Women; The Dean of Men.

Concerning appointments to teaching positions and other types of full-time employment—The Director of Placement.

Concerning Admission to Upper Division Teacher Training Curriculum, practice teaching, credential requirements, etc.—The Dean of Education.

Concerning use of the buildings—The Dean of Women; The Dean of Men.

Residence

For fee paying purposes, residence is defined as the place where one remains when not called elsewhere for labor or other special or temporary purpose, and to which he returns in seasons of repose. There can be only one residence. The residence of the father during his life, and after his death, the residence of the mother, unless they are legally separated or divorced, is the residence of the minor. Barring separation or divorce, the residence of the husband is the residence of the wife. In case of legal separation or divorce, the residence of the parent with whom the minor makes his home is his residence.

Classification

Regular students are those students who have complied with the requirements of admission and are registered in more than 5 units of work.

Limited students are partial course students who, for adequate reasons, have been permitted to register for 5 units of work or less.

Special students are mature students who have not satisfied all entrance requirements but who are registered for such courses as their ability and preparation qualify them to pursue. Special students may also be limited students. For convenience in administration, students who have completed

0 to 29 units of work are classified as freshmen; those who have completed 30 to 59 units, as sophomores; those who have completed 60 to 89 units, as juniors; and those who have completed 90 or more units, as seniors.

Units of Work and Study-Lists Limits

A unit of credit represents approximately three hours of actual work per week through one semester—one hour of lecture or recitation, together with two hours of preparation; or three hours of field or laboratory work.

Sixteen units, in addition to physical education ($\frac{1}{2}$ unit), constitute a normal semester's program for all students. An entering freshman, however, is allowed to enroll for a maximum of 17 units, and all other students for a maximum of 18 units, provided such additional enrollment seems to the adviser necessary or advisable in order to round out the study program.

Ordinarily, only 16 units, in addition to physical education, will be credited toward graduation; except that, after a student's first semester at the college, a program of 17 units, in addition to physical education, will be credited provided the student was registered for at least 12 units in the preceding semester and attained an average of not less than 1.5 grade points; 18 units will be credited provided the student attained an average of not less than 2.0 grade points. Any course in which a student received a passing grade may be used in the satisfaction of course requirements, even though such course is in excess of the units credited for graduation.

Credit for a program that does not conform to the above regulations can be obtained only through a petition addressed to the Scholarship Committee. No student will be allowed to register for less than 12 units without the approval of the academic dean of his department.

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.

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 grade E is used to record work which is of low order but which may be made passable. If by the close of the next semester the work has been satisfactorily completed the grade E is changed to a D; otherwise it is changed automatically to an F. The grade I is used to record work which may be of higher order but which is incomplete for some acceptable reason. Ordinarily, to change an I to another grade, the work must be completed within a year.

To qualify for a certificate in any curriculum, a diploma of graduation, or a transcript of record with recommendation to another collegiate institution, a student must have earned as many grade points as the number of units he has attempted; that is, he must have attained an average of at least C grade in all work undertaken at the college. If a student's scholarship falls below a C average, the statement of honorable dismissal on his transcript shall be qualified by the phrase "except for scholarship."

Transcripts of Record

Students may secure one official transcript of record without fee. Afterwards, applications for transcripts should be accompanied by the one dollar transcript fee. After a student has matriculated in this institution, transcripts of record from other schools will not be returned or copies of them made.

Eligibility for Practice Teaching

No student shall be eligible for practice teaching (Education 116) who has not completed 75 units, been admitted to Upper Division Teacher Training, and whose entire record, and also his record for the preceding semester, does not average C grade.

Probation and Disqualification

A scholarship record below an average of grade D per unit of work undertaken in any single semester disqualifies a student for further attendance at the college.

Any student whose scholarship record shows a cumulative deficit of 12 or more grade points for all work undertaken in the college to the close of any semester will be placed on probation.

A student whose study lists have averaged less than 12 units per semester will be placed on probation if his cumulative deficit equals or exceeds the average number of units carried per semester.

Any probational student whose scholarship falls below an average grade of C in any single semester is disqualified for further attendance at the college. Probationary status may be continued until the cumulative grade-point deficit be reduced, in the case of a regular student to an amount less than 12 and, in case of a limited student, to an amount less than the average number of units carried per semester.

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

Examinations

No final examinations shall be given to individual students before the regular final. 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 second semester following that in which the incomplete was given. No exceptions shall be made to this rule without the approval of the dean of the department 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.

Students shall pay a fee of two dollars at the business office for every special examination given. The instructor shall give such examination

only when the student presents a receipt showing that the fee has been paid.

Withdrawals from Class

A student may not withdraw from class without the permission of the proper study-lists officer on a "change of registration card" which must be filed in the Registrar's office. If a student withdraws from class for acceptable reasons during the first twelve weeks of a semester, a grade of W will be recorded on his permanent record for those classes which he has dropped. If he withdraws from class during the last six weeks of a semester, either an I or an F will be recorded. Students who withdraw from all classes during the course of a semester must petition the Executive Committee at such time as they may seek readmission to the college. A record of the quality of work maintained to the time of withdrawal will be preserved to facilitate committee action.

Extension and Correspondence Courses

Credit for extension and correspondence courses that will be accepted toward the fulfillment of the requirements for the A.B. 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 only such courses as have been approved, and the total of such acceptable credit to twelve 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 124 units of college work, representing a four-year course, is required for the A.B. Degree. Not less than 54 of these units must be completed in the junior and senior years and at least 30 units must be earned at this college. Twenty-four of these residence units must be taken with the rank of senior, at least twelve of which must be taken in the fall or spring semester of the final year before graduation. Certain requirements for the degree may be met by courses taken in high school. No high school course, however, can be used to reduce the amount of college work required for the degree or the junior certificate.

Summary of the Basic Requirements, Common to All Curricula Leading to the A.B. Degree

Physical Education activity	2 units
Hygiene	2 units
English	6 units
Social Sciences	14 units
Natural Sciences	14 units
Psychology 1A	3 units
Political Science 101	2 units

Special Degree Requirements in the Curricula Leading to Teaching Credentials

A statement of the general requirements for the A.B. Degree appears above. An interpretation of this statement which is characteristic of the requirements for the Teacher Training Curricula follows:

English Courses in journalism or in speech arts are not accepted in satisfying this requirement. The following courses or their equivalents are required: English 1A, 1B, and 2 or 3, 4A, 4B, 52A, 52B, 56A, 56B.

Social Sciences A minimum of 14 units, eight of which must be in the lower division, is required. Courses in the following departments may be used in satisfaction of this requirement: Anthropology, economics (except 14A-14B), geography (except 1 and 3), history, political science, social science, sociology. A maximum of two semesters of fourth

* For specific variations and additional degree requirements in Liberal Arts Curricula see page 38.

year high school courses in the fields of history, political science, sociology and economics taken with grades of not lower than C may be used to satisfy three units of the social science requirement.

Natural Sciences A minimum of 14 units in natural science, 12 of which must be in the lower division, is required. The 12 units of lower division credit may be reduced to a minimum of six units if the student presents acceptable grades from high school in laboratory courses in natural science offered exclusively for the third or fourth year students. In general, each year's work in high school science will reduce the requirement by three units. No college credit will be given for such reduction which is merely an exemption of the total requirement. The college courses which may be used in satisfaction of this requirement are: Agriculture 20; Astronomy 1, 5, 11; Biological Science 1, 10A-10B; Botany 2A-2B, 4, 5, 7; Chemistry 1A-1B, 5, 7, 8; Geography 1, 3; Geology 1A, 1B; Physical Science 1, Physics 1A-1B, 1C-1D, 2A-2B, 3A-3B; Zoology 1A-1B.

Political Science 101 Political Science 113 or 152, or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Education All Teacher Training Curricula leading to the Degree require 18 semester units in education in addition to the general degree requirements previously listed.

Teacher Training Curricula and Teaching Credentials The college offers curricula leading to the A.B. degree with the following teaching credentials:

1. Elementary school credential authorizing the holder to teach any or all subjects in all grades of any elementary school in California.
2. 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. After September 15, 1938, this credential will be issued only in combination with the elementary school credential or one of the special secondary credentials. ~~Or with the presecondary in education.~~
3. Special secondary credential in art authorizing the holder to teach art subjects in any grade of the public schools of California.
4. Special secondary credential in business education authorizing the holder to teach commercial subjects in any grade of the public schools of California.
5. Special secondary credential in music authorizing the holder to teach music in any grade of the public schools of California.
6. Special secondary credential in physical education authorizing the holder to teach physical education in any grade of the public schools of California.

Admission to the Upper Division of the Teacher Training Curriculum Students who have been in regular attendance at the college should make application for admission to the upper division of the teacher training curriculum during the final semester of their sophomore year. Students who have completed three or more semesters of work

in another college, upon transferring to San Diego State College, should make application as soon as they can meet the preliminary requirements.

The preliminary requirements which must be met before making application 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 of a given curriculum, or its equivalent, with a scholarship grade of C or better.

After the student has submitted evidence of having met the preliminary requirements in his application for admission to the upper division of the teacher training curriculum he will be interviewed by the members of a committee appointed by the faculty for this purpose. In the appraisal of applicants the committee will give 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.

Upper Division Course Requirements 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.

Advanced Standing in Teacher Training 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 subsequent to last attendance, evaluations are subject to revision with respect to deduction of credit in education courses and such new requirements as may have been put into effect.

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 Registrar (for those taken elsewhere) in order to be credited toward meeting degree requirements.

Teaching Major and Teaching Minor Requirements For the elementary school credential, two academic teaching minors are required; for the junior high school credential, or for both the elementary and junior high school credentials together, an academic teaching major and an academic teaching minor are required. For the special credentials, the requirement consists of a major in the special subject and an academic teaching minor. An academic teaching major consists of a minimum of twenty-four units in a field other than education, twelve of which must be in the upper division. A C average in scholarship is also required in all upper division courses in the field of an academic teaching major. A major in a special subject varies from twenty-four to forty units as specified in the requirements for the various curricula. An academic teaching minor consists of twelve units in a field other than education, six of which must be in the upper division. Academic teaching majors and minors may be established in the following fields: English, foreign languages, general science, mathematics, and social sciences (economics, geography, history, political science, sociology). Academic teaching minors may also be established in art, music, and physical education.

Candidates for the academic teaching major in the field of English will be expected to show credit in English 1A, 1B with nine units of electives in the lower division; English 130A and 130B and six units of electives in the upper division. Candidates for the academic teaching minor in this field will be expected to show credit in English 1A, 1B and three units elected from 2, 3, 4A, 4B, 52A, 52B in the lower division; three units elected from English 130A or 130B, the remaining three units elected from English 101, 117, 130A, or 130B in the upper division.

Candidates for the academic teaching major in the field of general sciences must meet the general requirements of fourteen units of natural science in the lower division including Biological Science 10A-10B, unless taken in high school. The remaining units to complete the major must be chosen so as to include a year course in a biological science unless Biological Science 10A-10B is taken in college, a year course in physics and a concentration of twelve units, at least six of which are upper division, in one major subject (botany, chemistry, physics, zoology).

Candidates for an academic teaching major in the field of the social sciences must meet the general requirements of fourteen units of social science in the lower division including Geography 2 and Social Science 1. The remaining twenty units must be chosen so as to include a year course of six units in history in either the lower or upper division and a concentration of twelve units, at least six of which are upper division, in one major subject (economics, geography, history, political science). The following courses in economics may not be applied to the teaching major in social science: 14A-14B, 18A-18B, 125A-125B, 140, 160A-160B, 161, 162, 163, 164, 165.

Women candidates for an academic teaching minor in the field of physical education will be expected to show credit in Physical Education 36A, 36B, 37 or 38A, 38B, 53, and Hygiene 2 in the lower division; six units elected from Physical Education 102, 157A, 157B, 158, 161, 164, 170, 178A, or 178B in the upper division.

Combinations of Credentials In the case of students seeking more than one teaching credential, the curriculum for each credential must be completed in full, with only such exceptions as are indicated in the require-

ments. For each credential in addition to one, at least twelve additional units of credit must be earned, this work to be in electives in nonprofessional fields only, after the basic curriculum requirements have been satisfied. If the requirements for the general elementary credential and the general junior high school credential are completed at the same time, an exception will be made to this rule until September 15, 1938.

Preparation for Graduate Work Students who take the A.B. degree with only 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 academic teaching major is advised to so arrange his electives as to complete the liberal arts major to avoid the necessity of making up an undergraduate deficiency.

Applied and Vocational Subjects In the teacher training curriculum, credit required in applied and vocational subjects in any credential pattern completed by the student will be allowed in fulfillment of the A. B. degree. A maximum of six units of credit in the following courses may be allowed to fulfill the requirements of any other credential pattern only after the student has received permission from the Dean of Education: Art 7, 14; Industrial Arts 3A, 22; Journalism 53A-53B, 153A-153B; Library Science 10; Merchandising, all courses; Applied Music, all courses, including 9A-9B, 109; Secretarial Training, all courses.

Curricula Leading to Teaching Credentials

A.B. Degree With Elementary School Credential

FRESHMAN YEAR		Units
First Semester—		
Art 6A, Structure	-----	2
Biological Science 10A, ¹ Science of Life	-----	3
English 1A or 1B, ² Freshman English	-----	1 or 3
Geography 1, Elements (Natural Science)	-----	3
Physical Education 1A or 36A	-----	$\frac{1}{2}$
Hygiene 1 or 2, Personal and Civic	-----	2
Electives ^{3, 4}	-----	4 or 2
Second Semester—		
Biological Science 10B, ¹ Science of Life	-----	3
English 1B or 2, 3, 4A, 4B, 52A, 52B, 56A, 56B	-----	3
Geography 2, Regions (Social Science)	-----	3
Music 1A, Music Reading and Ear-training	-----	2
Physical Education 1B or 36B or 36C	-----	$\frac{1}{2}$
Electives ^{3, 4}	-----	5
	-----	32
SOPHOMORE YEAR		
First Semester—		
English (selected from 2, 3, 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year)	-----	3
Physical Education 1C and 37, Games and Rhythms for the elementary school	-----	$\frac{1}{2}$
Second Semester—		
Physical Education 1D or 38A	-----	$\frac{1}{2}$
Either Semester—		
Art 61A, Elementary Crafts	-----	2
Art 61B, Elementary Crafts	-----	2
Psychology 1A, General	-----	3
Social Science 1, Pol., Soc. and Econ. Problems	-----	3
Electives to meet requirements in Natural Science, Social Sciences, and minors ^{3, 4, 5}	-----	18-21
	-----	32

- ¹ Possible substitutions for the requirement in Biol. Science 10A-10B.
 1. High school Biology (year course with laboratory work).
 2. Botany 2A-2B and Zoology 1A-1B—16 units.
 3. High school Botany and Zoology 1A-1B.
 4. High school Zoology and Botany 2A-2B.
 5. High school Botany and high school Zoology.
 6. Biological Science 1 and Physical Science 1—6 units.
² Depending on result of Subject A test.
³ See Summary of Basic Requirements for total requirements in English, Natural Sciences, and Social Sciences.
⁴ Unless minor is English, General Science or Social Sciences.
⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

JUNIOR YEAR		Units
First Semester—		
Education 147, Education Practicum—Lower Levels	-----	12-13
Psychology 102, Genetic	-----	3
Second Semester—		
Education 108, Educational Measurements	-----	3
Education 148, Education Practicum—Upper Levels	-----	12-13
	-----	30-32
SENIOR YEAR		
First Semester—		
Education 116, Practice Teaching ¹	-----	6 or 7 $\frac{1}{2}$
Either Semester—		
Education 106, ² Philosophy of Education	-----	3
Electives including two minors and political science requirement (for the year)	-----	21 or 19 $\frac{1}{2}$
	-----	30
SUMMARY		
Art 6A, 61A, 61B	-----	6
Education 106, 108, 116, 147, 148	-----	36 or 39 $\frac{1}{2}$
English	-----	6 or 7
Hygiene 1 or 2	-----	2
Music 1A	-----	2
*Natural Sciences (incl. Biol. Science 10A-10B and Geog. 1)	-----	14
Physical Education 1A-B-C, 37 or 36A-36B, 37, 38A	-----	2
Political Science 101	-----	2
Psychology 1A, 102	-----	6
**Social Sciences (including Social Science 1 and Geography 2)	-----	14
Electives, including two academic teaching minors	-----	33 $\frac{1}{2}$ or 30 $\frac{1}{2}$
	-----	124

¹ Candidates for the elementary school credential in combination with any other type of credential are required to do not less than 6 units of practice teaching in the elementary school.

² Not required if student is meeting requirements for junior high school or special credential also.

* See page 20.

** See page 19.

A. B. degree with Junior High School credential Note: After September 15, 1938, the Junior High School credential will be issued only in combination with one of the other teaching credentials.

or with the presecondary in education

FRESHMAN YEAR

First Semester—	Units
Biological Science 10A, ¹ Science of Life.....	3
English 1A or 1B ²	1 or 3
Geography 1, Elements (Natural Science).....	3
Physical Education 1A or 36A.....	$\frac{1}{2}$
Hygiene 1 or 2, Personal and Civic.....	2
Electives, ³ including major and minor ⁴	6 or 4

Second Semester—

Biological Science 10B ¹ Science of Life.....	3
English 1B or 2, 3, 4A, 4B, 52A, 52B, 56A, 56B.....	3
Geography 2, Regions (Social Science).....	3
Physical Education 1B or 36B.....	$\frac{1}{2}$
Electives, ³ including major and minor ⁴	7

32

SOPHOMORE YEAR

First Semester—

English 2, 3 (selected from 4A, 4B, 52A, 52B, 56A, 56B, unless taken in freshman year).....	3
Physical Education 1C or 38A.....	$\frac{1}{2}$
Psychology 1A, General.....	3

Second Semester—

Physical Education 1D or 38B.....	$\frac{1}{2}$
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Either Semester—

Social Science 1, Pol., Soc. and Econ. Problems.....	3
Electives, ³ including major and minor ⁵ (for the year).....	22-25

32

JUNIOR YEAR

First Semester

Education 108, Educational Measurements.....	3
Education 125, ⁶ Elementary School Curriculum.....	3
Political Science 101, American Institutions (or substitute).....	2
Psychology 102, Genetic.....	3

¹ Possible substitutions for the requirements in Biological Science 10A-10B:

1. High school Biology (year course with laboratory work).
2. Botany 2A-2B and Zoology 1A-1B—16 units.
3. High School Botany and Zoology 1A-1B.
4. High School Zoology and Botany 2A-2B.
5. High School Botany and High School Zoology.
6. Biological Science 1 and Physical Science 1—6 units.

² Depending on result of Subject A test.

³ See Summary of Basic Requirements for total requirement in English, Natural Sciences, and Social Sciences.

⁴ Unless major or minor is English, General Science or Social Science.

⁵ If 6 units in minor taken in freshman year, none needed in sophomore year.

⁶ Not required if student is meeting requirements for elementary credential also.

Second Semester—	Units
Education 116, Practice Teaching.....	3

Either Semester—

Methods, Courses in the Field of Academic Major.....	2
Physical Education 151, Health Education.....	2
Electives, including major and minor (for the year).....	12
	30

SENIOR YEAR

First Semester—

Education 116, Practice Teaching.....	3
---------------------------------------	---

Second Semester—

Education 121, Principles of Secondary Education.....	3
---	---

Either Semester—

Education, elective.....	3
Electives, including major and minor ¹ (for the year).....	21

30

SUMMARY

Education 108, 116, 121, 125, Methods Courses in the Field of Academic Major, and elective in Education.....	20
English.....	6 or 7
Hygiene 1 or 2.....	2
* Natural Sciences (including Biological Science 10A-10B and Geog. 1).....	14
Physical Education 1A-B-C-D or 36A-36B, 38A-38B; 151.....	4
Political Science 101.....	2
Psychology 1A, 102.....	6
** Social Sciences (including Social Science 1 and Geography 2).....	14
Electives, including academic teaching major and minor.....	56 or 55

124

Combination General Elementary-General Junior High School Credential A combination of the general elementary credential with the general junior high school credential may be secured by completing the requirements for the general elementary credential, substituting Education 121, *Principles of Secondary Education*, for Education 106, *Philosophy of Education*, and completing the following additional requirements:

- An academic teaching major.
- A methods course in the field of the academic teaching major.
- A minimum of three units of practice teaching in a junior high school, or the equivalent.

¹ If 6 units in minor taken in junior year, none needed in senior year.

^{*} See page 20.

^{**} See page 19.

A.B. Degree With Special 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

	Units
Aesthetics 50, History and Appreciation of Art (unless Aesthetics 150 is taken in the upper division)-----	2
Art 6A-6B, Structure-----	4
Art 61A, 61B, Elementary Crafts-----	4
Education 19, Art in the Elementary School-----	2
English 1A, ¹ 1B, 2, 3 or 4A, 4B, 52A, 52B, 56A, 56B-----	6 or 7
Hygiene 1 or 2, Personal and Civic-----	2
†Natural Sciences-----	12-14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B (women)-----	2
Psychology 1A, General-----	3
†Social Sciences, including Social Science 1, Political, Social and Economic Problems-----	8-14
Electives, including additional art for major and courses for academic teaching minor ² -----	10-19
	64

UPPER DIVISION

Education 116, Practice Teaching (4 units in special field)-----	6
Education 119, Art in the Junior High School-----	2
Education 121, Principles of Secondary Education-----	3
Education 125, ³ Elementary School Curriculum-----	3
Education elective (suggested: Education 106 or 108 or 130)-----	3
Political Science 101, American Institutions (or substitute)-----	2
Electives, including additional art and academic teaching minor-----	41
	60

SUMMARY

Aesthetics 50 or 150-----	2
Art major-----	40 ⁴
Education-----	19
English-----	6 or 7
Hygiene 1 or 2-----	2
*Natural Sciences-----	14
Physical Education-----	2
Political Science 101, American Institutions-----	2
Psychology 1A-----	3
**Social Sciences (including Social Science 1)-----	14
Electives, including academic teaching minor-----	19-20
	124

¹ Depending on result of Subject A test.

² Unless minor is English, general science, or social science.

³ Not required if student is meeting requirements for elementary credential also.

⁴ Maximum credit allowable in art.

† See Summary of Basic Requirements.

* See page 20.

** See page 19.

A.B. Degree With Special Credential in Business Education This course leads to the A.B. degree and to the Special Secondary Credential in Business Education, which entitles the holder to teach business subjects in senior high and junior high schools.

In addition to the following academic requirements, satisfactory evidence of one-half year, or 1000 hours of approved experience in the field named in the credential must be submitted. For the credentials in the General Business Subfield twelve semester hours of work above the requirements for a bachelor's degree may be offered in lieu of the six months of full-time experience. At least six semester hours of the twelve must be in business or economics.

Accounting and Secretarial Subfields

LOWER DIVISION

	Units
Economics 1A-1B, Principles-----	6
Economics 14A-14B, Accounting-----	6
English 1A, Freshman English, or elective ¹ -----	1
Geography 1, Elements (Natural Science)-----	3
Geography 2, Regions-----	3
Mathematics 2, Mathematics of Investment-----	3
*Natural Sciences-----	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women)-----	2
Secretarial Training A, Business Mathematics-----	1
Secretarial Training 1A-1B, Typewriting-----	6
Secretarial Training 5A-5B, Stenography-----	10
Secretarial Training 6A, Advanced Stenography-----	3
Secretarial Training 10A, Business Correspondence-----	3
Social Science 1, Pol. Soc. and Econ. Problems-----	3
Speech Arts 1A, Fundamentals of Public Speaking-----	3
	64

¹ Depending on result of Subject A test.

* See page 20.

UPPER DIVISION

	Units
Economics 11, Economic History of the United States.....	3
Economics 18A-18B, Commercial Law.....	6
Economics 100, Modern Economic Thought, or a course in Consumer Economics.....	3
Economics 140, Statistical Methods.....	3
Economics 160A-160B, Advanced Accounting.....	6
Economics 161, Cost Accounting.....	3
Economics 163, Machine Accounting.....	3
Education 21, Penmanship Methods.....	2
Education 116, Practice Teaching.....	6
Education 121, Principles of Secondary Education.....	3
Education 130, Educational Psychology.....	3
Education 160, Commercial Education.....	2
Education 163, Stenography.....	2
Education 164, Bookkeeping.....	2
Education 165, Typewriting.....	2
Geography 141, Economic Geography, or a course in Foreign Trade.....	3
Political Science 101, American Institutions (or substitute).....	2
Psychology 1A, General.....	3
Secretarial Training 3A, Office Methods and Appliances.....	3

60

If the Secretarial subfield only is elected, Mathematics 2 and Education 164 and all upper division courses in accounting may be omitted, but 12 units in upper division courses in commerce must be included.

If the accounting subfield is elected, Secretarial Training 5A-5B and Education 163, 165 may be omitted.

General Business Subfield

LOWER DIVISION

	Units
Economics 1A-1B, Principles.....	6
Economics 11, Economic History of the United States.....	3
Economics 14A-14B, Accounting.....	6
Economics 18A-18B, Commercial Law.....	6
English 1A, Freshman English, or elective ¹	1
Geography 1, Elements (Natural Science).....	3
Geography 2, Regions.....	3
Mathematics 2, Mathematics of Investment.....	3
Merchandising 25A, Salesmanship.....	2
Merchandising 25B, Advertising.....	2
*Natural Sciences.....	11
Physical Education 1A-1B, 1C-1D (men), or 36A-36B, 38A-38B (women).....	2
Secretarial Training A, Business Mathematics.....	1
Secretarial Training 1A-1B, Typewriting.....	6
Secretarial Training 10A, Business Correspondence.....	3
Social Science 1, Pol., Soc. and Econ. Problems.....	3
Speech Arts 1A, Fundamentals of Public Speaking.....	3

64

UPPER DIVISION

Economics 100, Modern Economic Thought, or a course in Consumer Economics.....	3
Economics 135, Money and Banking.....	3
Economics 140, Statistical Methods.....	3
Economics 163, Machine Accounting.....	3
Education 21, Penmanship Methods.....	2
Education 116, Practice Teaching.....	6
Education 121, Principles of Secondary Education.....	3
Education 130, Educational Psychology.....	3
Education 160, Commercial Education.....	2
Education 161, Junior Business Training.....	2
Education 165, Typewriting.....	2
Geography 141, Economic Geography, or a course in Foreign Trade.....	3
Political Science 101, American Institutions (or substitute).....	2
Psychology 1A, General.....	3
Electives (including a minimum of 5 units in the upper division, 3 units of which must be in Commerce).....	20

60

¹ Depending on result of Subject A test.

* See page 20.

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

LOWER DIVISION

	Units
Aesthetics 1A-1B, Survey of Music	4
Education 17, ¹ Music in the Elementary School (sophomore year)	2
English 1A, ² 1B, 2, or 3, 4A, 4B, 52A, 52B, 56A, 56B	6 or 7
Hygiene 1 or 2, Personal and Civic	2
Natural Sciences ³	12-14
Physical Education 1A-1B, 1C-1D (men); 36A-36B, 38A-38B ¹ (women)	2
Psychology 1A, General (sophomore year)	3
Social Sciences, ² including Social Science 1, Political, Social and Economic Problems	8-14
Music for major (see below) and electives, including course for an academic teaching minor ⁴	16 or 25
	64

UPPER DIVISION

Aesthetics 102A-102B, History of Music	2
Education 116, Practice Teaching (at least 4 units in Music)	9
Education 121, Principles of Secondary Education	3
Education 127, Music in the Secondary School	2
Education 145, Org. and Adm. of Music Education	2
Political Science 101, American Institutions (or substitute)	2
Music for major (see below) and electives, including courses for an academic teaching minor ⁴	40
	60

MUSIC

Freshman year:	
1B, Music Reading and Ear Training	2
Sophomore year:	
1C-1D, Music Reading and Ear Training	4
4A-4B, Elementary Harmony	6
Junior and senior years:	
105A-105B, Advanced Harmony	6
106A-106B, Applied Harmony	6

¹ Unless also a candidate for a general elementary school credential.

² Depending on result of Subject A Test.

³ See page 20.

⁴ See Major and Minor requirements, page 22.

APPLIED MUSIC¹

	Units
16, 116, A, B, C, D, Orchestral Instruments ² (including 19 or 119, C and D, Instrumental Music, Advanced)	6
17, 117, A, B, C, D, Voice ² (including 20A, 20B, Vocal Music)	6
18, 118, A, B, C, D, Piano ²	4
	40

SUMMARY

Aesthetics	6
Education	18
English	6 or 7
Hygiene 1 or 2	2
Music major	40 ³
Natural Sciences	14
Physical Education	2
Political Science 101, American Institutions	2
Psychology 1A	3
Social Sciences	14
Electives, including an academic teaching minor	16 or 17
	124

¹ See page 97.

² Unless exempted by examination.

³ Maximum credit allowable in music for degree.

A.B. Degree With Special 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

	Units
Biol. Science 10A-10B, Science of Life (unless taken as a year course in high school with at least a grade of B) -----	6
or	
Zoology 1A, General -----	4
English 1A, ¹ 1B, 2 or 3, 4A, 4B, 52A, 52B, 56A, 56B -----	6 or 7
Hygiene 1, Personal and Civic -----	2
†Natural Sciences -----	5 or 7
Physical Education:	
1A-1B, 1C-1D -----	2
6A, Tennis -----	1
30, Emergencies -----	1
62A, 62B, Gymnastic Activities -----	4
66, Playing Rules of Modern Games -----	1
72, Principles -----	2
Sports and Athletics ² -----	3
Psychology 1A, General (sophomore year) -----	3
Red Cross Swimming Test -----	1
†Social Sciences, including Social Science 1, Political, Social and Economic Problems -----	14
Speech Arts 1A, Fundamentals of Public Speaking -----	3
Zoology 20, Anatomy and Physiology -----	3
Electives, including courses to meet minor requirements ³ -----	7-8
	64

UPPER DIVISION

Education 116, Practice Teaching -----	6
Education 121, Principles of Secondary Education -----	3
Education 125, Elementary School Curriculum -----	3
Education, elective -----	6
Physical Education:	
151, Health Education -----	2
154, Organ. and Admin. of Physical Education -----	2
155, Applied Anatomy -----	2
156A-156B, Sports Methods -----	4
166, Technique of Officiating -----	2
169, Technique of Teaching Activities -----	2
171, Community Recreation -----	2
180, Theory of Coaching Football -----	2
Sports and Athletics ² -----	3

¹ Depending on result of Subject A test.

² Men majoring in Physical Education must actively participate in three sports each year.

³ Unless minor is English, general science, or social science.

† See Summary of Basic Requirements.

MEN—Continued

UPPER DIVISION—Continued

	Units
Political Science 101, American Institutions (or substitute) -----	2
Psychology 102, Genetic (first semester, junior year) -----	3
Zoology 114A, Genetics -----	2
Electives -----	14
	60

SUMMARY

Education -----	18
English -----	6 or 7
Hygiene 1 -----	2
Speech Arts 1A -----	3
*Natural Sciences (including Biol. Science 10A-10B or substitute and Zoology 20) -----	14
Physical Education major -----	35
Political Science 101, American Institutions -----	2
Psychology -----	6
**Social Sciences (including Social Science 1) -----	14
Zoology 114A -----	2
Electives, including academic teaching minor -----	21-22
	124

* See page 20.

** See page 19.

12 1/2
9
8
39 1/2

A.B. Degree With Special 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.

WOMEN

LOWER DIVISION		Units
Aesthetics 1A, Survey of Music	-----	2
Biol. Science 10A-10B, Science of Life (unless taken in high school)	-----	6
or		
Zoology 1A, General	-----	4
English 1A, ¹ 1B, 2, 3, or 4A, 4B, 52A, 52B, 56A, 56B	----- 6 or 7	
Hygiene 2, Personal and Civic	-----	2
*Natural Sciences	-----	5-7
Physical Education:		
36A, Fundamental Skills	-----	$\frac{1}{2}$
36B, Folk Dancing	-----	$\frac{1}{2}$
36C, Rhythmic Skills	-----	$\frac{1}{2}$
37, Games and Rhythms for the Elementary School	-----	$\frac{1}{2}$
38B, Sports and Dancing	-----	$\frac{1}{2}$
53, Physical Education in the Elementary School	-----	2
55A or 55B, Swimming—Beginning or Intermediate	-----	$\frac{1}{2}$
55C, Life Saving	-----	$\frac{1}{2}$
56, Tennis	-----	$\frac{1}{2}$
57, Golf	-----	$\frac{1}{2}$
59, Archery	-----	$\frac{1}{2}$
Psychology 1A, General	-----	3
Sociology 50, General	-----	
or		
Anthropology 54, Social	-----	3
*Social Sciences, including Soc. Science 1, Political, Social and Economic Problems	-----	5-11
Speech Arts	-----	3
Zoology 20	-----	3
Electives, including academic teaching minor ²	-----	11 $\frac{1}{2}$ —18 $\frac{1}{2}$
		63 $\frac{1}{2}$

UPPER DIVISION

Education 108, Educational Measurements	-----	3
Education 116, Practice Teaching	-----	6
Education 121, Principles of Secondary Education	-----	3
Education 125, Elementary School Curriculum	-----	3
Education 106, Philosophy	-----	
or		
Education 140, Educational Statistics	-----	
or		
Education 142, Educational Sociology	-----	3
Physical Education:		
102, Emergency and Safety Programs	-----	1
151, Health Education	-----	2

¹ Depending on result of Subject A test.

² Unless minor subject is English, general science, or social science.

* See Summary of Basic Requirements.

WOMEN—Continued

UPPER DIVISION—Continued

Physical Education—Continued		Units
153, Administration of Secondary Physical Education	-----	2
155, Applied Anatomy	-----	2
157A-157B, Sports Methods	-----	4
158, Stunts and Tumbling	-----	$\frac{1}{2}$
160 Principles of Teaching Gymnastics	-----	2
161 Folk Dancing	-----	2
164A-164B, Advanced Dancing	-----	4
168, Physiology of Exercise	-----	2
169, Technique of Teaching Activities	-----	3
170, Recreational Leadership	-----	2
173, Principles of Physical Education	-----	2
177, Individual Program Adaptations	-----	2
185, Techniques of Individual Sports	-----	1
Political Science 101, American Institutions (or substitute)	-----	2
Psychology 102, Genetic (first semester, junior year)	-----	3
Upper Division Zoology	-----	3
Additional Course in Upper Division Zoology, or other subject for minor ¹	-----	3
		60 $\frac{1}{2}$

SUMMARY

Aesthetics	-----	2
Education	-----	18
English	----- 6 or 7	
Hygiene	-----	2
*Natural Sciences (including Biological Science 10A-10B or substitute, and Zoology 20)	-----	14
Physical Education major	-----	38 $\frac{1}{2}$
Political Science 101, American Institutions	-----	2
Psychology	-----	6
**Social Sciences (including Social Science 1 and Sociology 50 or Anthropology 54)	-----	14
Speech Arts	-----	3
Zoology (upper division)	-----	3-6
Electives, including academic teaching minor unless Zoology is chosen	-----	11 $\frac{1}{2}$ —15 $\frac{1}{2}$
		124

¹ If another subject is chosen the program must be arranged to include a total of 6 units of upper division work in that subject.

* See page 20.

** See page 19.

Diploma of Graduation A diploma of graduation carrying with it any of the credentials the college is authorized to grant, or any combination of them, may be granted to the holder of a bachelor's degree from an accredited college, upon the completion of a minimum of twenty-four units. Ordinarily at least one semester of residence during the academic year is required subsequent to securing the degree; the remainder of the work may be in summer session or, in the case of students who had attended the college prior to attaining the degree elsewhere, in credit earned as an upper division student. The candidate for a diploma must meet the equivalent of all of the requirements listed in the curriculum for the A.B. degree with the credential or credentials sought.

Administration and Supervision Credentials Candidates desiring to qualify for administration and supervision credentials will meet the credential requirements as outlined in State Department of Education Bulletin No. 12, Regulations Governing Granting of Credentials and Certificates for Public School Service in California. Further information will be furnished by the college upon request by the applicant.

Special Degree 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, geography, history, mathematics, music, physical science, physics, Romance languages 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.

The junior certificate will be granted on the completion of 64 units and satisfaction of all lower division requirements.

LOWER DIVISION

Subject Matter Requirements in the Lower Division

Physical Education	2 units
Hygiene 1 or 2	2 units
English	6 units
Psychology	3 units
Foreign Language	15 units
Mathematics A and B or high school algebra and geometry	0-4 units
Social Sciences	14 units
Natural Sciences	14 units
Year-course in foreign language or mathematics, or philosophy (in addition to the foregoing minimum requirements in foreign language and mathematics)	6 units
Lower division subjects for the minors, unless included in one of the above requirements. See page 40.	12 units

Lower division subjects required for the major. See page 40.

Electives to make total of 64 units.

Explanation of Lower Division Requirements

English This requirement may be satisfied either in the freshman year or in the sophomore year. To be chosen from the following courses: English 1B, 2, 3, 4A, 4B, 52A, 52B, 56A, 56B.

Psychology Psychology 1A.

Foreign Languages At least 15 units in not more than two languages are required in the lower division, except that only 10 units in a modern language are required in the commerce major. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. A minimum of two high school year-courses is acceptable in any language except Latin, in which a year-course is permissible.

Social Sciences Fourteen units from two or more departments are required as follows:

- (a) Social Science 1.
- (b) 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 50A-50B,* 54, 55; Economics 1A-1B,* 11, 18A-18B; Geography 2, 12; History 4A-4B,* 8A-8B,* Political Science 1A-1B,* Social Science 3, Sociology 50.
- (c) A maximum of two semesters of fourth-year high school courses in the fields of history, political science, sociology, and economics taken with grades not lower than C may be used to satisfy three units of the social science requirement. A maximum of two units of the social science requirement may be chosen from upper division courses if high school senior courses have been used to satisfy the requirement, otherwise a maximum of five units may be counted.

Natural Sciences Fourteen units are required as follows:

- (a) Biological Science 1 or a year course in high school or college biology, botany, physiology or zoology.
- (b) Physical Science 1 or a year course in high school or college chemistry or physics.
- (c) Additional lower division courses to meet the natural science requirement must come from the following list and must include one of the laboratory courses marked with an asterisk. *High school courses:* a maximum of two years, 6 units, of third and fourth year courses in botany, chemistry,* physics,* physiology, zoology and advanced biology may be used to satisfy the natural science requirement. *College courses:* Astronomy 1, 9, 11; Biological Science 1, 10A-10B,* Botany 2A,* 2B,* 4; Chemistry 1A,* 1B,* 5,* 7-8,*; Geography 1 or 3 (only one course may be counted toward requirement); Geology 1A, 1B,* 1C; Physical Science 1; Physics 2A-2B; 3A-3B,* 1A-1B,* 1C-1D,* Zoology 1A,* 1B.*
- (d) A maximum of 2 units of this requirement may be chosen from upper division courses.

Mathematics High school elementary algebra or Mathematics A and high school plane geometry or Mathematics B.

Additional Year Course In addition to the foregoing minimum requirements in foreign language and mathematics, 6 units must be chosen from one of the following groups:

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: 1A and 1B; 3A-3B; C and 1A; C and 3A. Students with the Commerce major may take Mathematics D and G, or equivalents, and Economics 2.

Philosophy: 5A-5B.

Limited Electives Among both elective and required subjects, a total of not more than 12 units of the applied and vocational courses listed below will be counted toward junior standing or the A.B. degree, in both the lower and upper division combined: Agriculture 20; Art 7, 14A; Merchandising, all courses; all courses in education, except those listed as available for credit toward a minor (see page 46); Industrial Arts 3A, 22; Journalism 53A-53B, 153A-153B; Library Science 10; all courses in Applied Music including Music 9A-9B, 109; Physical Education, all courses except 1A-1B, 1C-1D, 30, 36A, 36B, 36C, 38A, 38B, 102, 161, 164A-164B, 170; Secretarial Training, all courses.

Minors A minimum of 12 units in each of two minor subjects is required. At least 6 units in each minor shall be in upper division courses completed in the junior and senior years. The entire 12-unit requirement for a minor may be met with upper division courses provided these courses have no lower division prerequisites. The prerequisites for upper division courses in various departments may be found in the course descriptions on pages 58-108. Minors are available in the following subjects: anthropology, art, botany, chemistry, economics, education, English, foreign language, geography, geology, history, mathematics, music, philosophy, physics, political science, psychology, zoology. Information concerning a minor in education is to be found on page 46.

Major The specific requirements of lower division subjects for the degree in each major field are listed in the paragraphs following. The student is advised to choose his major as early in his college course as practicable so 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 may make it impossible to satisfy the upper division requirements within the normal period of two years.

Art Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

Chemistry Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 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 another college, and there work for a degree with a major in chemistry, are advised to take Physics 1A-1B-1C-1D and Mathematics 3A-3B-4A-4B in place of the courses listed above.

Commerce Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B-2 or 3; Geography 1-2; Mathematics D and G, or equivalents, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Economics Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

English English 1A-B, 2 or 3 and six units from 52A, 52B, 56A, 56B. Recommended: A reading knowledge of German or French.

Foreign Languages French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B. Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Geography Geography 1, 2, 3 and Geology 1A-1B. Recommended: A reading knowledge of French or German.

History History 4A-4B, or 8A-8B, and either Political Science 1A-1B, or Economics 1A-1B. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Mathematics Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French A-B, German A-B, Industrial Arts 21, Surveying 1A.

Music Music 1A-1B, 4A-4B; and two units of electives in music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. See page 97 for regulations regarding Applied Music.

Physical Science Fulfillment of the departmental requirements for upper division work in at least two of the following sciences: Chemistry, geology, physics. Recommended: A reading knowledge of French and German.

Physics Physics 1A-1B-1C-1D, Mathematics 3A-3B, 4A-4B, and Chemistry 1A-1B, or their equivalents. Recommended: A reading knowledge of French and German.

Zoology Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: French, German, Botany 2A, 2B, 4, and 7.

UPPER DIVISION

Subject Matter Requirements

Political Science 101	2 units
First minor (minimum in upper division courses)	6 units
Second minor (minimum in upper division courses)	6 units
Major	24 units

Electives to make a minimum total of 40 units in upper division courses and a grand total of 124 units for the degree. At least 30 units of upper division courses must be earned after all lower division requirements have been satisfied.

Explanation of Requirements

Political Science 101 Political Science 113 or 152 or History 171A-171B or 173A-173B will be accepted as substitutes for this requirement.

Minors See explanation regarding minor subjects on page 40.

Majors The specific requirements in each major field are listed in the paragraphs following.

Electives See restrictions concerning the choice of applied and vocational courses, as explained on page 40.

Major Requirements in the Various Fields

Art Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in Art, and Aesthetics 150.

It is recommended that students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

Chemistry A minimum of twenty-four upper division units in chemistry including Chemistry 105A, 110A-110B and 111A-111B. The choice of a related minor and the organization of the course of a major student must follow a definite plan approved by the department.

Commerce Economics 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Econ. 160A-160B, 161, 163, and 4 units in electives in economics.

B. Banking and Finance: Econ. 133, 134, 135, and 7 units in electives in economics.

Geog. 141 may be used in the electives under A and B.

Economics Required: Economics 100, 102, 140 and 199, with 6 units selected from the following: Economics 123, 131, 133, 135, and 171. Electives, seven upper division units in economics. Economic geography may be substituted for three elective units in economics.

English Twenty-four units in upper division English to be selected and arranged under supervision of the department. Not more than four units may be in composition. A reading knowledge of German or French.

Foreign Languages 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 subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses. 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.

Geography Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

History Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

Mathematics Twenty-four units, including at least eighteen in upper division mathematics, the others being selected from Chemistry 111A-111B, 114, Economics 140, Education 112, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

Music Music 105A-105B, 106A-106B, and 10 units of upper division elective courses in Music: and 2 units of upper division work in an allied subject. (See statement concerning Applied Music under lower division requirements.)

Physical Science Twenty-four units of upper division work in two or more of the physical sciences, chemistry, geology, and physics, with a minimum of six units in each of two of these sciences.

Physics Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

Zoology (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or 18 in the major subject and six in related courses in botany, organic chemistry, physics, physiology and bacteriology.

PREPROFESSIONAL CURRICULA

As shown below, the liberal arts curricula can be adapted to correspond to the typical courses of study preliminary to the professional courses of training for law, medicine, dentistry, nursing, optometry, pharmacy, social service, teaching, journalism, agriculture, and engineering. (For a complete statement of the requirements for the junior certificate and the degree in these curricula, see pages 38-43.)

Prelegal Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- (a) 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.
- (b) The following lower division electives meet 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: History 4A-4B, 6 units; Economics 1A-1B, 6 units; Economics 14A-14B, 6 units; Sociology 50, 3 units; Political Science 1A-1B, 6 units; Speech Arts 1B, 3 units; English 52A-62B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Philosophy 5A-5B, 6 units. Liberal arts subjects similar to those offered in law colleges should ordinarily be omitted from the prelegal curricula.
- (c) The three-year prelegal curriculum requires the completion of 93 units of work. Some of the introductory courses should be continued in the upper division if the student is to acquire mastery and confidence in any field. The following are listed as examples of upper division courses that meet the needs of general study in the three-year or the four-year curriculum. History 111A-111B, or 121A-121B, 6 units; History 151A-151B, 6 units; History 171A-171B, 6 units; Economics 102, 3 units; Economics 121, 3 units; Economics 133, 3 units; Economics 171, 3 units; Political Science 111, 3 units; Political Science 113, 3 units; Speech Arts 101B, or 1B, 3 units; Philosophy 120, 3 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year prelegal curriculum must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Premedical Curricula

(Two-Year, Three-Year and Four-Year Curricula)

- (a) The entrance requirements of medical colleges range from two to three and four years of premedical 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.
- (b) The program of elective and required subjects in the lower division should include the following subjects: Zoology 1A-1B, 8 units; Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Zoology 100, 4 units (this upper division subject should be taken in the sophomore year only when necessary to satisfy medical colleges requiring only two years of premedical work).
- (c) The three-year premedical curriculum requires the completion of 93 units of work. The program in the upper division of either the three-year or the four-year curriculum should include the following subjects: Physics 2A-2B, 6 units; Physics 3A-3B, 2 units (the physics courses may be taken in the lower division); Chemistry 7-8, 6 units; Chemistry 105, 3 units; Zoology 100, 4 units.
- (d) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year premedical curriculum should major in chemistry or zoology in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

Predental Curricula

(One-Year Curriculum)

The following subjects should be taken to qualify for entrance to dental colleges requiring only one year of predental work. The one-year curriculum requires the completion of 31 units of work. English 1B-2 or 3, 6 units; Chemistry 1A-1B, 10 units; Biological Science 10A-10B, 6 units; or Zoology 1A-1B, 8 units; Physics 2A-2B, 6 units; Physical Education 1A-1B or 36A-36B, 1 unit; Electives to make a total of 30 units of work.

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full to satisfy dental colleges requiring two years of predental work.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Biological Science 10A-10B, 6 units or Zoology 1A-1B, 8 units; and English 1B-2 or 3, 6 units.

Prenursing Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.

- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Economics 1A-1B, 6 units; Psychology 1A-1B, 6 units; Zoology 20 (Anatomy and Physiology), 3 units; Bacteriology 1 (General Bacteriology and Microbiology), 4 units (Summer Session). (It is planned to increase the unit-value of Zoology 20 as soon as possible to meet completely the California state requirements for a junior certificate in prenursing.)

Preoptometry Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; English 1B-2 or 3, 6 units; Mathematics 3A, or equivalent, 4 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units; Psychology 1A, 3 units; Zoology 20, 3 units.

Prepharmacy Curriculum

(Two-Year Curriculum)

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) The program of elective and required subjects in the lower division should include Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; German A-B, 10 units; Mathematics D, 1 unit, or equivalent; Mathematics C, 2 units, or equivalent; Chemistry 8-9, 6 units; Chemistry 105A-105B, 6 units; Chemistry 7-8, 6 units; Physics 2A-2B, 6 units; Physics 3A-3B, 2 units.

Presecondary Curriculum

(Four-Year Curriculum)

Completion of the requirements of this curriculum enables the graduate to satisfy the undergraduate requirements for the general secondary teaching credential, which, with graduate work, will enable the holder to teach in a senior high school or junior college.

- (a) The lower division requirements of the liberal arts curricula should be met in full.
- (b) This curriculum requires the completion of 124 units of work. In arranging his program to meet the upper division requirements for the A.B. degree in the liberal arts curricula, the student should include a major in a subject or field of subjects usually taught in high school and a minor in the field of education chosen from the following courses: Ed. 121,* Principles of Secondary Education; Ed. 106, Philosophy of Education; Ed. 107,* History of Education; Ed. 137, Comparative Education; Ed. 130,* Educational Psychology; Ed. 140, Elementary Educational Statistics; Ed. 142, Educational Sociology; Psychology 102,* Genetic. In order to conform to the usual university requirements, this minor should include the courses marked with an asterisk.

Curricula Preliminary to Social Service

(Two-Year and Four-Year Curricula)

- (a) The lower division requirements of the liberal arts curricula should be met in full whether the curriculum extends over a period of two years or four years.
- (b) The program of elective and required subjects in the lower division should include Social Science 1, 3 units; Sociology 50, 3 units; Economics 1A-1B, 6 units; Speech Arts 1A, 3 units; Speech Arts 1B, 3 units; Biological Science 10A-10B, or Zoology 1A, 6 or 4 units; Psychology 1A, 3 units; Psychology 4A, 2 units; Anthropology 54, 3 units; Mathematics D, or equivalent, 1 unit; Mathematics C, or equivalent, 2 units.
- (c) The four-year curriculum requires the completion of 124 units of work. A student who is pursuing a four-year curriculum preliminary to social service must major in a specific field in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.
- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: Economics 134, 3 units; Economics 102, 3 units; Economics 140, or Education 140, 3 units; Education 106, 3 units; Education 107, 3 units; Education 130, 3 units; History 163, 3 units; History 171A-171B, or 173A-173B, 6 units; Physical Education 30, or 102, 1 unit; Physical Education 151, 2 units; Physical Education 171, or 170, 2 units; Psychology 102, 3 units; Psychology 118, 2 units; Psychology 145, 3 units; Political Science 152, 3 units.

Courses in social work offered by the college, summer session, or extension division should be chosen upon the recommendation of the faculty adviser for the social service curricula.

Curricula Preliminary to Journalism

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.

(Two-Year and Four-Year Curricula)

- (a) The two-year and four-year curricula demand the completion of the lower division requirements of the liberal arts curricula in full.
- (b) The program of elective and required subjects in the lower division should include the following subjects: History 4A-4B, or 8A-8B, 6 units; Economics 1A-1B, 6 units; Political Science 1A-1B, 6 units; Psychology 1A, 3 units; Psychology 4A, 2 units; English 1B-2 or 3, 6 units; French or German, 9 units (this requirement may be satisfied in the high school); Journalism 51A-51B, 6 units; Journalism 53A-53B, 2-6 units.
- (c) A student who desires to build a broad foundation for graduate work in journalism is required to complete 124 units of work. He must major in a specific field, preferably English, history or economics in his junior and senior years and must meet all upper division requirements for the A.B. degree in the liberal arts curricula.

- (d) The program of elective and required subjects in the upper division should include as many of the following subjects as possible: English 106A-106B, or 107A-107B, 4 units; English 130A-130B, 6 units; Economics 100, 3 units; History 145A-145B, or 146A-146B, 6 units; History 171A-171B, or 173A-173B, 6 units; Political Science 111, 3 units; Political Science 113, 3 units; Journalism 100, 3 units; Journalism 153A-153B, 2-6 units.

Preagricultural Curricula

- (a) The two-year curricula require the completion of 66 units of work for junior standing in recognized colleges of agriculture.
- (b) Requirements of the curriculum in plant and animal sciences: Chemistry 1A-1B, 10 units; Chemistry 7-8, 6 units; Botany 2A-2B, 8 units; Physics 2A-2B, 6 units; Zoology 1A-1B, 8 units; Geology 1A, 4 units; Geology 1C, 3 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Economics 1A-1B, 6 units; Botany 7, 4 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Mathematics A, B, C, D, 8 units, or equivalent; Foreign Language, 6 units, or two years of high school foreign language; electives to make a total of 64 units of work. The summer course in Bacteriology 1 (General Bacteriology and Microbiology), 4 units, is recommended.
- (c) Requirements of the curriculum in forestry: Chemistry 1A-1B, 10 units; Botany 2A-2B, 8 units; Botany 7, 4 units; English 1B-2 or 3, or Speech Arts 1A-1B, 6 units; Mathematics 1A-1B, 6 units or Mathematics 3A, 3 units; Surveying 1A-1B, 6 units; Physics 2A-2B, 6 units; Geology 1A, or Geography 1, 4 or 3 units; Economics 1A-1B, 6 units; Social Science 1, 3 units; Hygiene 1 or 2, 2 units; Physical Education, 2 units; Foreign Language, 6 units, or two years of high school foreign language; electives, to make a total of 64 units of work.

Preengineering Curricula

- (a) The following list of subjects meets the requirements for the first year of a four-year curriculum in civil engineering, mechanical engineering, electrical engineering, or mining engineering: Mathematics 3A-3B, 6 units; Chemistry 1A-1B, 10 units; Physics 1A-1B, 6 units; English 1B, 3 units; Physical Education, 1 unit; elective, 3 units.
- (b) The following list of subjects together with (c) and (d) meets the requirements for the second year of a four-year curriculum in civil engineering, mechanical engineering, and electrical engineering: Mathematics 4A-4B, 6 units; Physics 1C-1D, 6 units; Surveying 1A, 3 units; Industrial Arts 21, 3 units; Industrial Arts 23, 2 units; Geology 1A, 4 units; Physical Education, 1 unit.
- (c) Additional requirements in civil engineering: Industrial Arts 25, 3 units; Industrial Arts 28, 3 units; Surveying 1B, 3 units; Astronomy 3, 2 units.
- (d) Additional requirements in mechanical and electrical engineering: Industrial Arts 22, 3 units; Mathematics 124 or 119, 3 units.

Special Nondegree Curricula

Information relating to special two-year nondegree curricula such as aeronautics mechanics, commerce, etc., may be obtained in a separate bulletin.

THE BACHELOR OF EDUCATION DEGREE

General Requirements

The Bachelor of Education Degree will be granted upon the successful completion of 124 semester hours of college or university work or the equivalent. Of this total requirement at least 106 semester hours of work shall be completed in regular campus classes, extension classes, or in correspondence courses under college or university direction; and not to exceed eighteen semester hours of credit may be allowed for experiences and activities that can be evaluated as equivalent to regular academic work.

Purpose of the Degree

The establishment of this degree provides an opportunity for improving the professional training of those teachers who are now in service and who do not meet the standards of training at present required of new people entering the teaching profession.

The degree is professional in character and is not intended to qualify students for graduate standing in the universities.

The following classes of teachers are eligible for candidacy for the Bachelor of Education Degree:

1. Graduates of the 2-year, 2½-year, or 3-year curricula of the California State colleges when these institutions were normal schools or teachers colleges, who have had five or more years of teaching experience.
2. Holders of California life diplomas or those who have taught five or more years in the public schools of California.

Nature of Work and Fields of Study

Candidates will take academic courses designed to strengthen them in those fields of knowledge in which their initial training is inadequate. Professional courses in education will be included to qualify candidates to teach the newer curricula by means of the newer methods. All work will as far as possible be provided in classes for mature and experienced teachers.

Each candidate for the Bachelor of Education degree must include in the last 60 semester hours of credit earned a minimum of six semester hours in each of three of the following six fields of knowledge.

1. Professional courses
2. Social sciences
3. Natural science
4. Psychology and philosophy
5. Fine arts and literature
6. Physical education, hygiene, and recreation

Effective Dates of the Bachelor of Education Curriculum

The operation of this curriculum shall not extend beyond February 1, 1948. All applications for candidacy must be filed and at least six semester hours of work completed before February 1, 1942. All the requirements must be completed and the degree conferred prior to February 1, 1947.

Application for Candidacy

Anyone desiring to establish candidacy for this degree should secure an application blank from the Registrar's office. An evaluation of record cannot be made until the application blank has been entirely filled out and filed with complete transcripts of academic record. A two-dollar evaluation fee must accompany each application.

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.

Freshmen are not admitted into upper division courses. A sophomore may enroll in an upper division course for credit provided he has earned an average grade of not less than 1.5 grade points 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-four 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 designed 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. Single semester courses having the letter B as a part of the number (as for example, Art 61B) are not supposed to follow another course of the same number unless so indicated in the prerequisites to the course.

Year Courses Open to Registration in the Middle of the Year

Aesthetics 1A-1B	Spanish 102A-102B
Aesthetics 102A-102B	Spanish 104A-104B
Anthropology 50A-50B	Spanish 105A-105B
Anthropology 151A-151B	Spanish 110A-110B
Economics 160A-160B	History 4A-4B
English 4A-4B	History 8A-8B
English 52A-52B	History 111A-111B
English 56A-56B	History 121A-121B
French 101A-101B	History 145A-145B
French 105A-105B	History 146A-146B
French 107A-107B	History 151A-151B
French 110A-110B	History 156A-156B
French 111A-111B	History 171A-171B
Spanish 101A-101B	History 173A-173B

Merchandising 24A, 24B
Merchandising 25, 26, 27
Political Science 1A-1B
Speech Arts 55A-55B

Speech Arts 55C-55D
Speech Arts 155A-155B
Speech Arts 156A-156B

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 the courses listed 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 for a semester or a year.

Aesthetics

LOWER DIVISION COURSES

1A-1B Survey of Music

Springston

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 (2-2)

5 Fundamentals of Art

Jackson

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

Jackson

A survey of aesthetic development as revealed in the painting, sculpture, architecture, and handicrafts from dawn of art to the Renaissance. Illustrated.

Fall (3)

UPPER DIVISION COURSES

102A-102B History of Music

Springston

The various movements in the development of music as related to other arts. The chronological development of the art of music, with particular emphasis on the larger works. Considerable attention is given to the work of modern composers. Many symphonic works are studied from the orchestral scores. Music majors are required to complete additional assignments for full credit. Prerequisite: Aesthetics 1A-1B. Previous study of harmony and instrumentation is desirable.

Year course (1-1)

150 Appreciation and History of Art

Jackson

The period from the Renaissance through the modern school, treated in the same manner as in Aesthetics 50.

Spring (2)

Agriculture

20 Nature Study

A course to show the student what material, selected from the various sciences, may be woven into a nature study course suitable for children, with special reference to school and home gardening and agriculture. The subject matter covered is partly drawn from the physical sciences, astronomy, physics, etc. (for the upper grades), and partly from life studies of the plant and animal world (for lower grades). May be credited as natural science only for students majoring in Education.

Fall and Spring (3) (Not offered in 1937-1938)

Anthropology

LOWER DIVISION COURSES

50A-50B Man's Evolutionary History

Rogers

Origin and antiquity of man. Theories of human descent. Classification of races. Origin and early development of civilization.

Year course (3-3)

54 Social Anthropology

Rogers

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. Ritualism and education considered as processes of culture conservation and social control.

Fall and Spring (3)

55 Culture History

Rogers

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 culture spread examined and applied to specific traits. Spengler's theory of history and similar doctrines reviewed.

Spring (3)

UPPER DIVISION COURSES

151A-151B The American Indian

Rogers

Pre-Columbian cultures of the American Indian. The origin and migration of New World peoples. Industries, arts, crafts, social organization, religion and other phases of American Indian civilization. The first semester presents a general introduction to New World culture with especial attention to the tribes north of Mexico, while the second semester is concerned primarily with the civilizations of Mexico, Central and South America.

Year course (3-3) (Offered in 1938-39 and alternate years)

152 Primitive Cultures (Ethnology)

Rogers

History and cultural development of primitive races of mankind. Consideration given to industries, arts, social organization, and religion of living primitive peoples.

Fall (3) (Offered in 1937-38 and alternate years)

153 Primitive Religious Culture

Rogers

Beliefs and ritual of primitive man. Magic and religion. Forms of animism and polytheism. Primitive mentality and the supernatural. *Spring (3) (Offered in 1937-38 and alternate years)*

Art

Candidates for a teaching credential in art should refer to the statement "Admission to Upper Division Teaching Training" on page 20.

Lower division preparation for the liberal arts major in art and for the junior certificate: Aesthetics 5, 50; fourteen units carefully chosen from lower division art courses to meet the stated prerequisites for upper division work. These shall include Art A-B, 6A-6B, or the accepted equivalents, and six elective units in art.

Liberal arts major (upper division): Twenty-four upper division units. These shall include Art 112A, 115A-115B, 152A, 195, and twelve upper division elective units in art, and Aesthetics 150.

It is recommended that the students in meeting degree requirements and in choosing free electives, select from the following courses: Anthropology 151A-151B; English 4A-4B, 106A-106B, 107A-107B, 117; French A-B; History 4A-4B, 111A-111B.

For courses in Appreciation and History of Art and Fundamentals of Art, see Aesthetics, page 52.

LOWER DIVISION COURSES

Art Appreciation

8 Appreciation of Costume and Home Furnishing

Borsum

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 modern dress with emphasis on suitability to the figure, the personality and the occasion. (b) Line form, color, texture, fabric, and lighting in relation to the home; the selection and arrangement of furniture, rugs, fabrics, pictures, etc., for all rooms of the home. *Fall (2)*

6A Structure

Design

Borsum

Fundamentals of design and composition and theory of color. Basic course used as a prerequisite for all advanced art work. *Fall and Spring (2)*

6B Structure (continued)

Borsum

Original work in creative design with special stress on modern tendencies. Prerequisite: Art 6A. *Fall and Spring (2)*

7 Line, Color and Display

Borsum

The principles of line, color and arrangement applied to merchandise and to store and window display. *Spring (3)*

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 (2)

14A Lettering

Borsum

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

Borsum

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 (2)

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 theater. 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)

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.

Fall (2)

Drawing, Painting, and Sculpture

A-B Freehand Drawing

Hamann

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 (2-2)

15A-15B Life Drawing

Jackson

Drawing from the nude model. Does not duplicate the former course in painting, numbered Art 15A-15B.

Year course, beginning either Fall or Spring (2-2)

16A-16B Painting**Jackson**

Semester I: Composition of still life and flower forms in water color.
Semester II: Landscape and more advanced composition in water color.
Prerequisite: Art A-B. No credit for students having completed Art 15A-15B, Painting.

Year course, beginning either Fall or Spring (2-2)

17A-17B Sculpture**Hord**

Problems in clay modeling and in wood and stone carving, including original design and anatomical studies of the human figure. Particular stress laid on the qualities of materials as related to art form.

Year course, beginning either Fall or Spring (2-2)

Crafts**61A Elementary Crafts****Hamann**

Problems in elementary craft work, bookbinding, pottery, weaving, and puppetry (including the dramatization and production of a puppet play).
Prerequisite: Art 6A, when possible.

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)

UPPER DIVISION COURSES**Design****106A-106B Advanced Design****Borsum**

Advanced problems in design, color and technique. Planned for students interested in commercial design, illustration and industrial design. Prerequisites: Art A, 6A-6B; Aesthetics 5.

Year course (2-2)

112A-112B Organization**Jackson**

Imaginative organization of space by means of color, dark and light, perspective, and textures of various materials. Prerequisites: Art A-B, 6A-6B, and if possible 15A-15B or 106A.

Year course (2-2)

112C Illustration**Jackson**

Composition fulfilling the requirements of book illustration from poetry, imaginative tales, and legends, in black and white and color. Prerequisite: Art 112A.

Spring (2) (Offered in 1938-39 and alternate years)

152A Stage Design

See Art 52A

Patterson**152B Stage Costume****Patterson**

Costume studied in relation to drama, opera and dance. Original designs for mood and character. Practical problems in designing costumes and

accessories for college productions. A brief history of costume from the Egyptian to the modern time. Prerequisites: Art 6A, 52A or 152A.

Spring (2)

195 Home Decoration**Patterson**

Lectures and designing in class, trips to art galleries, stores, factories and homes, studying how to recognize and choose the best in furniture, rugs, wall coverings, textiles and pottery as to design, color and materials. Actual experience in designing and arranging furnishings in homes and offices. Working with local stores and architects. Arrangement of flowers and objects for different types of rooms and occasions. Prerequisites: Art A, 6A.

Spring (2)

Drawing, Painting, and Sculpture**115A-115B Life Drawing and Painting****Jackson**

Drawing and painting from nude and costume models.

Year course, beginning either Fall or Spring (2-2)

115C-115D Advanced Life**Jackson**

Painting from nude and costume models and advanced composition in oil. Portraiture. Prerequisite: Art 115A-115B.

Year course, beginning either Fall or Spring (2-2)

116A-116B Advanced Painting**Jackson**

Painting in water color and oils from still life and landscape, stressing composition and technique. Prerequisite: Art 16A-16B.

Year course, beginning either Fall or Spring (2-2)

117A-117B Sculpture**Hord**

See Art 17A-17B.

Astronomy

Lower division preparation in astronomy desirable for advanced work: Astronomy 1, 3, 9, and 11; Mathematics 3A-3B, 4A-4B; Physics 1A-1B and 1C-1D; a reading knowledge of German (French also desirable).

LOWER DIVISION COURSES**1 Descriptive Astronomy****C. E. Smith**

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. Especial attention given to the methods and instruments by means of which astronomical knowledge has been gained. A six-inch Alvin Clarke telescope is available for observation. Prerequisites: Elementary algebra and plane geometry.

Fall and Spring (3)

3 Surveyor's Course in Elementary Practical Astronomy C. E. Smith

The principles of spherical trigonometry and astronomy adapted to the needs of engineering students. Computation. Prerequisites: Surveying 1A or permission of instructor.

Spring (2)

5 Historic Development of Astronomy C. E. Smith

The leading facts now known in astronomy in the light of circumstances attending their discovery. Prerequisite: Astronomy 1.

Spring (3)

9 Practice in Observing C. E. Smith

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.

Fall and Spring (1)

11 Modern Astronomy C. E. Smith

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.

Fall (3)

UPPER DIVISION COURSE

100 Special Problems C. E. Smith

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

Fall and Spring (1 or 2)

Biological Sciences

(General Biological Science, Botany, Zoology)

General students who wish to take only one or two courses in this department should register for Biological Science 1, 10A-10B, Zoology 113C, 114A or 114B, Botany 4 or 5 (see below for prerequisites for each course).

Lower division preparation in botany for advanced work and for the junior certificate: Botany 2A, 2B, 4, 7, and Chemistry 1A.

Lower division preparation for the liberal arts major in zoology and for the junior certificate: Zoology 1A, 1B, and high school chemistry or Chemistry 1A-1B. Recommended: German, French, Botany 2A, 2B, 4, 7. Liberal arts major in zoology: (1) At least a C average in upper division major courses. (2) Twenty-four units of upper division courses in zoology or eighteen in the major subject and six in related courses in botany, organic chemistry, physics, physiology, and bacteriology.

Students preparing to teach science in the junior high school should try to include courses in zoology, botany, bacteriology, physics, chemistry (at least high school chemistry), and Education 120. The following are also desirable: geography, geology, anthropology, astronomy, and upper division biological sciences.

Fees: A fee is required in all laboratory courses in this department. The fee covers the cost of materials used. For breakage and extra material in addition to the estimated need an extra charge must be made.

LOWER DIVISION COURSES

1 Man and His Biological World Johnson

A general biology course with lectures, discussion, and demonstrations three hours a week. For students who are not required to take Biological Science 10A-10B and who prefer a shorter course with no required laboratory work. A demonstration laboratory is usually offered one day a week for those who care to attend; attendance is optional. Not open to students who have taken 10A-10B or any combination of Zoology 1A-1B or high school zoology with Botany 2A-2B or high school botany. Students who have credit for this course and later elect 10A-10B receive 4 units of credit for 10A-10B instead of 6.

Spring (3)

10A-10B Science of Life Lectures: Johnson
Laboratory: Crouch, Harvey

The fundamentals of plant and animal biology, with elementary work in human physiology and heredity. Laboratory work supplements the lectures and includes a study of living and preserved material. Aim of the course to acquaint the student with the basic facts of biology. Designed not only to give the general student an acquaintance with living things and their relationships, but also to furnish the prospective teacher with an adequate background for nature study teaching. Two lectures and one three-hour laboratory period per week. Designed for those who do not expect to specialize in zoology or botany, but not open for credit to students who have taken Zoology 1A, or Botany 2A. Students who have taken 10A-10B may elect Zoology 1B or Botany 2A, 2B for credit.

Year course (3-3)

Bacteriology

199 Special Study

Reading or work other than is outlined in the regular courses. (Bacteriology 1, General, and 102, Advanced Bacteriology, or 103, Current Problems in Hygiene and Bacteriology, are usually offered in the summer session). Admission only by consent of the instructor with whom the work is to be done and the chairman of the Biological Science department. Credit and hours to be arranged in each case. Open to students who have completed at least 6 units of bacteriology with grades of A or B.

Botany

LOWER DIVISION COURSES

2A General Harvey

Fundamentals of structure and general behavior of seed plants. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4)

2B General 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)

7 Plant Physiology

Harvey

The activities of plants, including food manufacture, absorption, conduction, transpiration, respiration, growth, and movement. Two lectures and six hours of laboratory per week. Prerequisite: Biol. Science 10A-10B or Botany 2A.

Fall (4) (Offered in 1938-39 and alternate years.)

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 1937-38 and alternate years.)

104 Taxonomy

Harvey

Identification, classification and distribution of representative orders of flowering plants. Six hours per week of lectures, laboratory, and field work. Prerequisites: Botany 2A-2B, 4.

Spring (3) (Offered in 1938-39 and alternate years.)

199 Special Study

Instructors of the Department
(Johnson in charge)

Reading or work other than is outlined in the above courses. Admission by consent of the instructor with whom the work is to be done and the head of the department. Credit and hours to be arranged in each case. Open to students who have completed at least ten units of lower division work in the department with a grade of A or B.

Fall and Spring (1 or 2)

Zoology

LOWER DIVISION COURSES

1A General

Harwood and Hoard

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 (frogs and invertebrates). Valuable to the general student as well as to the biology specialist, acquainting one with the fundamental facts and theories of biology as they pertain to animal life. Two lectures or recitations and two three-hour laboratory periods per week.

Fall (4)

1B General

Harwood and Hoard

A continuation of 1A. The structure, relationships, and classification of the chordates. Two lectures and two three-hour laboratory periods per week. Prerequisite: Zoology 1A or Biological Science 10B.

Spring (4)

20 Anatomy and Physiology

Crouch

An elementary course in human anatomy and physiology. Prerequisite: High school biology, or Biol. Science 10A-10B or Zoology 1A-1B. Lectures three hours per week.

Fall and Spring (3) (Offered in 1938-39 and alternate years.)

UPPER DIVISION COURSES

100 Embryology

Johnson

The development of vertebrates as illustrated by the frog, chick, and pig. Six hours of laboratory and two hours of lecture per week. Prerequisite: Zoology 1B or Biol. Science 10B.

Spring and Fall (4) (Offered in 1938-39 and alternate years.)

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 Biol. Science 10B.

Fall (4) (Offered in 1937-38 and alternate years.)

112 Marine Zoology

Johnson

Designed to acquaint the student with the many interesting animals found along the beaches in the San Diego region. Identification, distribution, associations, structure, and to some extent, behavior and life histories of the organisms. Frequent collecting trips to the beach and study of the living animals in the laboratory. Prerequisite: A laboratory course in elementary biology or zoology.

Fall (3) (Offered in 1937-38 and alternate years)

113A Taxonomy and Natural History of the Mammals

Crouch

Frequent field trips and the identification of preserved material. Three hours of laboratory per week.

Spring (1)

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 Biol. Science 10B.

Spring (3) (Offered in 1938-39 and alternate years)

113C Field Study of Birds

Crouch

The study and identification of the birds of the San Diego region. Three hours of laboratory or field work per week.

Spring (1) (Offered in 1937-38 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 (2)

114B Evolution**Johnson**

The development of theories of evolution. Two lectures or discussion periods per week.

Spring (2) (Offered in 1938-39 and alternate years)

121 Entomology**Harwood**

The classification, life history, structure, and physiology of insects. Prerequisite: Zoology 1A or Biol. Science 10B. Two hours of lecture and six hours of laboratory per week.

Spring (4) (Offered in 1938-39 and alternate years)

130 Readings in Biology**Harwood**

Readings from a suggested bibliography with informal class discussion of topics. Subjects discussed will include history of biology, biological principles, ecology, economic zoology, zoogeography, breeding habits, animal behavior.

Spring (2) (Offered in 1937-38 and alternate years)

199 Special Study**Instructors of the Department
(Johnson in charge)**

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

Fall and Spring (1 or 2)

Chemistry

Lower division preparation for the liberal arts major in chemistry and for the junior certificate: Chemistry 1A-1B with an average grade of C or better, Chemistry 7-8, Physics 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 another college, and there work for a degree with a major 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 105A, 110A-110B and 111A-111B. The choice of a related minor 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 pages 41, 43.

LOWER DIVISION COURSES**1A-1B General Chemistry****Messner, Robinson**

The general principles and laws of chemistry, and a description of the elements and their compounds. Two lectures, one quiz and two laboratory periods per week. The laboratory work in the second semester consists of work in qualitative analysis. Prerequisites: At least two years of high school mathematics. Recommended: High school chemistry and physics.

Year course (5-5)

7-8 Organic Chemistry**Robinson**

A general consideration of the carbon compounds (both aliphatic and aromatic) and their derivatives; their synthesis, constitution and properties, and the principles involved. Two lectures and one laboratory period per week first semester; one lecture and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-3)

UPPER DIVISION COURSES**105A Quantitative Analysis****Messner**

The principles of gravimetric and volumetric analysis. Discussions of the theory of quantitative analysis and practice in the standardization of reagents and analysis of samples. One lecture and two laboratory periods per week. Prerequisite: Chemistry 1A-1B.

Fall (3)

105B Advanced Quantitative Analysis**Messner**

Advanced work in the theory and practice of volumetric, gravimetric and electro-analysis. One lecture and two laboratory periods per week. Prerequisite: Chemistry 105.

Spring (3)

107-108 Organic Chemistry**Robinson**

An upper division course covering the same field as Chemistry 7-8 but including some more advanced work. Two lectures and one laboratory period per week first semester; two lectures and two laboratory periods per week second semester. Prerequisite: Chemistry 1A-1B.

Year course (3-4)

110A-110B Physical Chemistry**Messner**

Lectures and problems on theoretical principles of chemistry. Prerequisites: Physics 1A-1B or 2A-2B and Chemistry 105 which may be taken concurrently. With the approval of the instructor, advanced courses in physics may be substituted for Chemistry 105.

Year course (3-3)

111A-111B Physical Chemistry—Laboratory**Robinson**

Physico-chemical problems and measurements. Two laboratory periods per week. Prerequisites: Credit or registration in Chemistry 110A-110B, Physics 1A-1B or 2A-2B, and calculus. With the consent of the instructor, advanced courses in physics may be substituted for Chemistry 105 which may be taken concurrently.

Year course (2-2)

112 Industrial Analysis**Robinson**

A laboratory course including the analysis of fuels, petroleum products, water, and gas. Prerequisite: Chemistry 105 which may be taken concurrently.

Spring (2) (Offered in 1937-38 and alternate years)

114 Biochemistry**Messner**

An introductory lecture course covering the carbohydrates, proteins, fats and the changes which they undergo in digestion and metabolism, as well

as a consideration of the vitamins and other accessory food factors and their importance to the body. A brief discussion of the chemistry of plant life. Prerequisites: Credit or registration in Chemistry 110A-110B. *Fall (3) (Offered in 1937-38 and alternate years)*

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 110A-110B.

Fall (2) (Offered in 1937-38 and alternate years)

123-124 Organic Preparations Robinson
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.

Year course, beginning either Fall or Spring (1 to 5-1 to 5)

125 History of Chemistry Robinson
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 110A-110B.

Fall (2) (Offered in 1938-39 and alternate years)

144 Industrial Chemistry Robinson
Industrial stoichiometry, flow sheets, flow of fluids and unit processes. Lectures, problems, and reports. Prerequisites: Chemistry 1A-1B, Physics 1A-1B or 2A-2B, and calculus.

Spring (3) (Offered in 1937-38 and in alternate years)

199 Special Topics Instructors of the Department
Supervised individual work in specialized branches of chemistry such as colloid chemistry, biochemistry, applications of the phase rule, etc. 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)

ECONOMICS

Lower division preparation for the liberal arts major in economics and for the junior certificate: Economics 1A-1B and at least one of the following: Political Science 1A-1B; History 4A-4B; History 8A-8B; Psychology 1A and 1B or 4A or 4B; Geography 1 and 2; Anthropology 50A-50B. Recommended: Sociology 50; Economics 14A-14B, 18A-18B.

Liberal arts major (upper division) in economics, required: Economics 100, 102, 140 and 199, with 6 units selected from the following: Economics 123, 131, 133, 135, and 171. Electives: Seven upper division units in economics. Economic geography may be substituted for three elective units in economics.

Commerce Candidates for a teaching credential in business education should refer to the statement "Admission to Upper Division Teacher Training" on page 20 and to curriculum for the A.B. degree with a special credential in Business Education on page 29.

Lower division preparation for the liberal arts major in commerce and for the junior certificate: Economics 1A-1B, 11, 14A-14B (6 units), 18A-18B; English 1B, 2 or 3; Geography 1-2; Mathematics D and G, or equivalents, and Economics 2; History 4A-4B or 8A-8B or Political Science 1A-1B.

Liberal arts major (upper division) in commerce, required: Economics 121, 140, 199 and 16 units additional chosen in one of the following groups:

A. Accounting: Economics 160A-160B, 161, 163 and 4 units in electives in economics.

B. Banking and Finance: Economics 133, 134, 135, and 7 units in electives in economics.

Geography 141 may be used in the electives under A and B.

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.

Fall (3)

11 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)

14A-14B Accounting Wright

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, conducting, and closing of books for different kinds of businesses; organizations, reorganizations, dissolutions, and consolidations, etc., keeping in view the best modern accounting practice. Five hours lecture and laboratory.

Year course (3 or 4-3 or 4)

18A-18B Commercial Law Stanton

The leading and fundamental principles of business law. Simple cases showing the actual application of the principles to commercial and busi-

ness 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

100 Modern Economic Thought

A. G. Peterson

Classical doctrine in the light of recent economic theory. A critical analysis of contemporary economic thought. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1938-39 and alternate years)

102 Contemporary Theories of Social Control

A. G. Peterson

A study of principles, plans and movements for social and economic control including consideration of anarchism, individualism and liberalism, collectivism, socialism, communism, fascism, and the New Deal.

Spring (3) (Offered in 1937-38 and alternate years)

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)

123 Marketing

Our distributive organization and its functions, including the marketing of both agricultural and manufactured products. Prerequisite: Economics 1A-1B.

Spring (3) (Not offered in 1937-38)

125A Advertising

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, types, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Fall (2) (Not offered in 1937-38)

125B Salesmanship

Salesmanship, the market basket of knowledge; the mechanics of the mind; overcoming fear; the human element in selling; meeting competition; analyzing a sale in advance and methods of using this analysis in consummating a sale; personal attributes; selling an invisible commodity; selling a specialty; retail selling; the steps of a sale. Actual merchandise will be used in demonstration. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Spring (2) (Not offered in 1937-38)

128 Real Estate

Cameron

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)

131 Public Finance

Principles and practice of taxation, public expenditures, and financial administration. Prerequisite: Economics 1A-1B.

Spring (3) (Not offered in 1937-38)

133 Corporation Finance

Cameron

The corporate form of organization, instruments of long-time finance, methods of raising capital, efficient financial management, and the financing of reorganizations, and governmental control. Prerequisite: Economics 1A-1B.

Fall (3)

134 Investments

Cameron

Investment principles and practices with emphasis upon problems of the small investor, such as tests of a good investment, sources of information, types of stocks and bonds, mechanics of purchase and sale, investment trusts, real estate mortgages, and the like.

Spring (3)

135 Money and Banking

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.

Fall (3)

140 Statistical Methods

Deputy

The nature and uses of statistical method in the social sciences. Practice in the tabular and graphical presentation of data; in the computation of averages, ratios and coefficients, measures of dispersion, and measures of relationship. Research studies are made, utilizing data obtained from typical economic and commercial situations, involving index numbers, time series, and business cycles and barometers. Opportunity to obtain practice in the use of calculating machines and other aids to computation. Prerequisite: Mathematics A, C, and D, or equivalents. Only two units of credit are available for this course in the case of students who previously have completed Education 140.

Spring (3)

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 practical accounting an endeavor is made to design, construct, and operate sets of books to meet the needs of different conditions and kinds of businesses. Six hours lecture and laboratory. Prerequisite: Economics 14A-14B.

Year course (3-3) (Offered in 1938-39 and in 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.

Spring (3) (Offered in 1937-38)

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)

163 Machine Accounting**Wright**

The application of mechanical accounting devices to accounting conditions together with a study of efficient machine methods that conform to good accounting practice and yet meet the practical accounting requirements that are found in many classes of business. In addition to a thorough study of machine installations, the course requires considerable practice in the operation of standard accounting machinery. Prerequisite: Economics 14A-14B.

Fall (3) (Offered in 1937-38)

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 interests he represents as well as from the accounting point of view. No knowledge of accounting procedure is necessary.

Fall (2)

165 Auditing**Wright**

The fundamental principles of accepted procedures of auditing and related types of accounting engagements.

Year Course (2-2) (Offered in 1938-39 and alternate years.)

171 Transportation**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. Prerequisite: Economics 1A-1B.

Spring (3) (Offered in 1938-39 and alternate years)

199 Special Study**A. G. Peterson**

Designed exclusively for seniors with a major in economics or commerce.

Spring (2)

Economic Geography

(See Geography)

Social Science**LOWER DIVISION COURSES****1 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 and an attempt to introduce the student to sound methods of approach in dealing with these problems. Prerequisite: Sophomore standing.

Fall and Spring (3)

3 Backgrounds of Social Institutions**Rogers**

An introductory survey of sociological viewpoints. Origin and spread of civilization. Economic backgrounds of society. Emergence and evolution of social institutions: the family, the state, the church. The growth of the idea of progress and the development of scientific thought.

Fall (3)

Sociology**Kelly****50 General**

A study of the nature and organization of human group activity, including the relation of cultural heritage to public opinion and social change.

Previous preparation in biology and psychology recommended.

Fall and Spring (3)

Social Psychology

(See Psychology)

Merchandising**24A Elements of Merchandising****Watenpaugh**

A basic course covering the field of merchandising through a survey of the various methods by which products reach the retailer. A study of the market structure, fundamental principles and functions of marketing.

Fall (3)

24B Principles of Merchandising**Watenpaugh**

A basic course covering retail institutions, their origin, growth, and trends. Types of institutions and functions performed by each. Analysis of difficulties confronting the retailer and the changes that are taking place in retailing. Ways and means of progress and intelligent use of resources available to retailers.

Spring (3)

25 Salesmanship**Watenpaugh**

The mechanics and theory of salesmanship; methods of approach and demonstration; selling ideas and services; meeting objections; inducing decisions; closing sales; the personal factor in connection with the sale. Outstanding salesmen in the various crafts will illustrate correct methods of selling.

Fall (2)

26 Advertising**Watenpaugh**

Functions, theory, principles and applications; selecting the right appeal; surveys and analyses; studying markets; budgeting the appropriation; layouts, type, borders and illustrations; use of color; choice of mediums; writing publicity and promotion stories; openings, anniversaries, sales and special events; institutional copy; the advertising agency and its functions; sales and collection letters.

Spring (2)

27 Applied Salesmanship**Watenpaugh**

Coordination of selling and theories of sales efficiency; store practice and theories of store operation. Application of theory to practice. Either supervised work in cooperating stores or in general selling. Discussions of problems arising from the student's work. Prerequisites: Merchandising 25 and 24A or 24B or 26.

Fall (3)

28 Store Management**Watenpaugh**

The field of retailing from the point of view of the store manager, including location, organization, personnel, service features. Sales promotion and store problems regarding claims and adjustments, returned goods, delivery. Investigations of the problems which confront the managers of retail stores. Prerequisite: Merchandising 24A-24B.

Fall (3)

Secretarial Training**A Business Mathematics****Wright**

A practical course in the mathematics of business. A thorough study of interest, compound interest, discount, amortization tables, insurance rates, etc.

Fall (1) (No degree credits in Liberal Arts curricula.)

1A-1B 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) (Only three units will be counted in satisfying the A. B. degree requirements in Liberal Arts curricula.)

2A 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)

3A 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 book-alent.

Spring (3)

5A-5B 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)

6A-6B 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)

10A Business Correspondence**Amsden**

Theory and practice of business correspondence. Lectures and laboratory work. Prerequisite: English 1A or equivalent (as indicated by Subject A Test or record from another college).

Fall (3)

EDUCATION**LOWER DIVISION COURSES****17 Music in the Elementary School****Springston**

Main objectives of music teaching in the public elementary schools. Study of the child voice. Organization of song material by grades. Procedure in presenting rote songs, ear training, elementary notation, music reading, and part singing. Conducting. Not open to students taking the elementary credential, nor to freshmen. Prerequisite: Music 1A, or the equivalent.

Fall and Spring (2)

19 Art in the Elementary School**Patterson**

Discussion of the elements and principles of art and their place in the art expression and appreciation of the elementary school child. Lectures illustrated with examples of children's work and opportunity given for experience with mediums used in elementary school problems. Not open to students taking the elementary credential. Prerequisite: Art 6A.

Fall and Spring (2)

UPPER DIVISION COURSES**106 Philosophy of Education****Ault**

The fundamental biological, psychological, philosophical, social principles underlying modern education, in connection with the demands of modern society in a complex social, economic, and scientific world, with a view to the formulation of a working philosophy for the educative process. Designed as a culmination of the studies of education and its procedures. Open only to students with senior standing.

Spring (3)

107 History of Education**Ault**

A brief study of early Hebrew, Greek, Roman and early Christian education; of the changes brought about by the Renaissance; of the transition to modern secular education; brief reviews of the educational philosophies of the great reformers; a concluding study of the development of

the American school system and of American ideals and practices in education. Only 2 units allowed for students having credit for Education S107, History of Education in the United States (offered in the summer session).

Fall (3)

108 Educational Measurements

Deputy

A brief survey of the development of scientific measurement in the elementary school field, including an intensive study of the more reliable and valid tests of school achievement and of mental ability. Statistical training given in handling data obtained by using measurements in typical school situations, leading to a study of the uses of tests. Practice in the construction of teacher-made, objective tests in the elementary school subjects.

Fall and Spring (3)

109 Educational Administration and Supervision

A survey of the systems of organization, classification, and promotion of pupils, and such problems as finance, the teaching staff, building standards, extra-curricular activities, etc. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

110 Educational Organization and Supervision

Types of supervision and methods of evaluating and improving teaching. Prerequisites: Education 125, 108, or equivalents.

Summer (2)

111 English in the Junior High School

Trail

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. Prerequisite: The satisfaction of the lower division requirements in English for the teaching major in English.

Spring (2)

112 Mathematics in the Junior High School

Livingston

The subject matter, organization, and methods of teaching mathematics in a junior high school curriculum. Specific problems: the application of arithmetic in current social and business life, intuitive geometry, graphic representation, the phase of algebra suitable to the junior high school pupil, preparation for senior high school mathematics. Prerequisites: Psychology 1A and a passing grade in the Fundamentals Test.

Students may take this course in connection with Mathematics 199 by arrangements with the instructor.

(2)

114 Social Science in the Junior High School

Perry

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, through the medium of such social studies in the junior high school curriculum as 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 educative purposes on this level. Prerequisites: Six units of geography and six units of history.

Fall and Spring (2)

116 Practice Teaching

Ault and Supervisors

Systematic observation, participation and teaching under supervision in the campus training school, the Euclid affiliated city elementary school, the Woodrow Wilson Junior High School, and the senior high schools of the city of San Diego and vicinity.

The general plan is for elementary school credential candidates to take, in addition to the education practicums, an afternoon of teaching daily in the campus training school or two and one-half hours daily in the Euclid school throughout one semester; junior high school and special secondary school credential candidates will be guided by their adviser relative to the distribution of their practice 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 practice teaching.

Thirty clock hours of practice 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. Practice 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 practice teaching credit they will 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 a C is acceptable for credit in this course.

Prerequisites: Completion of 75 units of college work: admission to upper division teacher training: a C average in all college work and in the work of the preceding semester; three units of work in psychology. No credit will be given unless the student registers for this course in the office of the Dean of Education.

119 Art in the Junior High School

Patterson

Art curriculum planning for junior high schools and studio problems and discussion. Prerequisite: Education 19.

Spring (2) (Offered in 1938-39 and alternate years)

120 General Science in the Junior High School

Baird, Johnson

The content, methods, field work, text books, laboratory work, equipment, and reference reading for teaching general science in a junior high school. Prerequisites: Eighteen units of college science including one year-course in a college biological science, Physics 2A-2B, or equivalent, and high school or college chemistry.

Spring (2) (Offered in 1938-39 and alternate years)

121 Principles of Secondary Education

Perry

The principles of educational science that should underlie the organization, administration and curriculum of the secondary school. Prevailing patterns of high school education; tendencies in the direction of future

development. Particular attention to the method of directing learning in the secondary schools. Prerequisite: Psychology 1A. Open only to students with senior standing.

Fall and Spring (3)

124 Romance Languages in the Junior High School Phillips
The main questions of pronunciation, grammar, composition, reading, texts, etc., as applied to teaching elementary classes in French and Spanish; the different methods; their history and value. Prerequisite: Two years of college French or Spanish.

Spring (2) (Offered in 1937-38 and alternate years)

125 The Elementary School Curriculum Deputy
An analytical and constructive curricular study of the subject matter taught in the elementary school, with particular emphasis on the upper elementary grades; together with an intensive study of teaching techniques in the elementary school, including observation of typical teaching procedures. The course embraces individual and group research work in curricular materials, visual aids, type lessons, and experimental studies of teaching methods.

Required of candidates for junior high and special credentials in art and physical education. Candidates for a combination of the elementary and junior high school credentials must register for the education practicum instead of this course.

Fall (3)

127 Music in the Secondary School L. D. Smith
Main objectives of music teaching in the public secondary schools. Organization of the chorus and glee clubs, voice testing, seating, a survey of song materials available. Organization of courses in applied music, harmony, history and appreciation.

Fall (2) (Offered in 1937-38 and alternate years)

130 Educational Psychology Deputy
Man'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.

Spring (3)

137 Comparative Education Ault
School systems of England, France, Germany, and Denmark; traits of peoples; origin and development of school systems; literacy of populations, traditional influences; characteristic types of schools and educational procedures; governmental and private support; training of teachers. A knowledge of History of Education desirable but not required.

Fall (3) (Not offered in 1937-38)

140 Elementary Educational Statistics Deputy
An introductory study of measures of central tendency, of variability, and of relationship which are commonly used in connection with educational work. Laboratory training in statistical method and opportunity to obtain practice in the use of calculating machines and other aids to com-

putation. Data for statistical research taken from typical school situations. Only 2 units allowed students who have taken Economics 140.

Fall (3)

142 Educational Sociology Hepner
A consideration of school practices in light of social needs; interrelationships of schools and other social agencies; and trends in cooperative activities among community organizations. Selected individual study projects to make personal contacts with various types of public and private social institutions and with some current social movements. Prerequisite: Upper division standing.

Spring (3)

145 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) (Not offered in 1937-38)

147 Education Practicum—Lower Levels (See description below)

Fall (12) and Spring (13)

Barbour, Hammack, Nordahl, Patterson, Schwob, Springston, Stone

148 Education Practicum—Upper Levels (See description below.)
Bacon, Barbour, Corbett, Patterson, Post, Schwob, Springston, Stone.

Prerequisite: Education 147.

Fall and Spring (12)

The Education Practicums

The educational practicums are intended to integrate content material, educational principles and theory with practice as found in the modern progressive elementary school. Conferences are held daily by each of the training school supervisors who is responsible for a small group of 10-15 students. All the students enrolled in each practicum meet as a group with the principal of the training school or one of the special subject supervisors of art, music and physical education three times per week. Lectures, discussions and reports of observation and reading assignments occupy the time of these meetings. In order to see the relationship of the theory under discussion and actual school practices, the student is required to spend two hours per week in observation under the direction of the supervisor and five hours per week in participating in the activities of the pupil-group under the direction of the principal. This participation takes the form of induction into teaching concurrently with the mastery of fundamental processes and techniques. A considerable amount of the credit in the practicums is not for content material ordinarily found in education courses but is included under this title because of its very close relationship in use. For evaluating credits the content of each practicum is distributed as follows: educational methods, 5 units; educational principles and psychology of learning, 3 units; mental hygiene, 1 unit; health and physical education, 2 units; practice teaching, 2 units.

A group of courses taken at this or another college will not be recognized as a substitute for the practicums. Credit for such courses may be submitted to the Dean of Education to ascertain if it will reduce in any way the total requirements.

The student should register for his first practicum course at the beginning of his junior year or as soon thereafter as he can qualify. Assignments to supervisor-groups and to participation will be made by the principal of the training school at the time of registration. Not more than 30 full-time participants in the lower level nor more than 45 full-time participants in the upper level may be registered in any one semester.

160 Commercial Education

Wright

Aims, objectives and procedures in commercial education. A study of curricula, together with a consideration of the content of commercial subjects; tests applicable to commercial teaching.

Fall (2)

161 Junior Business Training

Wright

The methods and content of the course in the elements of business training as offered in the junior high school. Not open for credit for those who have taken Secretarial Training 3A.

Spring (2)

163 Stenography

Amsden

Methods and content of courses in stenography. Prerequisites: Secretarial Training 5A-5B, 6A.

Fall (2)

164 Bookkeeping

Wright

Various types of bookkeeping method, with considerable study of content.

Fall (2)

165 Typewriting

Amsden

Methods in typewriting and office procedure. Prerequisite: Secretarial Training 1A.

Spring (2)

170 Administration of a Visual Instruction Program

Evans

The service program of a visual instruction center is studied as a collecting, selecting, organizing and distributing center for classroom illustrative materials; a teacher training and advisory bureau in the technique and correct use of visual aids; a photographic production laboratory for making current and local illustrative materials for the curriculum; a testing division for evaluating visual equipment, standardization and 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 (2)

199 Educational Problems

Education Staff
(Dean of Education in charge)

A course for senior students in teacher training who have shown ability to work independently on educational problems. Admission only by consent of the staff. Credit and hours to be arranged.

Fall and Spring (1-3)

English

Lower division preparation for the liberal arts major in English and for the junior certificate: English 1B-2 or 3 and six units from 52A, 52B, 56A, 56B.

Liberal arts major (upper division): 24 units in upper division English to be selected and arranged under supervision of the department. Not more than four units may be in composition. A reading knowledge of German or French.

LOWER DIVISION COURSES

1A Freshman English

Adams, Trail

The elements of composition, including drill in grammar and usage, exercises in vocabulary building and careful reading, and an introduction to the principles of effective writing.

Fall and Spring (1)

1B Freshman English

Adams, Dickhaut, Keeney, Trail, F. D. Walker

Reading and composition. Reading chosen from essay material of England and America since 1850. Composition stressing exposition. Prerequisite: English 1A or equivalent (as indicated by Subject A test or record from another college).

Fall and Spring (3)

2 Sophomore English

F. D. Walker

Reading and composition. Reading from field of biography and memoirs. Composition stressing personal narrative and informal essay. Prerequisite: English 1B.

Fall and Spring (3)

3 Sophomore English

Adams, Dickhaut

Reading and composition. Reading from contemporary periodical literature. Composition stressing article writing of varied types. Prerequisite: English 1B.

Fall and Spring (3)

4A-4B Great Books

Outcalt

A survey of books and bodies of literature that are significant sources or expressions of European and American culture. These include the Hebrew Bible, Greek epic and tragedy, Norse eddas, and other literature of religious and communal character; and highly significant masterpieces in poetry and prose by great authors down to the nineteenth century.

Year course (3-3)

10 Recreational Reading**Dickhaut**

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)

52A-52B Types of Literature**Outcalt**

Semester I: Introduction to the study of lyrical and narrative poetry; origin and elements of poetry; typical poems. Semester II: Introduction to the study of dramatic poetry and prose, the essay, novel and short story; elements, principles and characteristics; examples.

Year course (3-3)

56A-56B Survey of English Literature**Keeney**

The most important masterpieces of English literature from the Anglo-Saxon period through the Victorian age.

Year course (3-3)

UPPER DIVISION COURSES**101 Modern Prose Fiction****Dickhaut**

Recent and contemporary fiction in novel and short story, including British, American, and a brief selection from the Continental.

Spring (3)

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 college composition. Either semester may be taken first.

Fall, Spring (2, 2).

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 (2-2) (Not offered in 1937-38.)

110 Recreational Reading**Dickhaut**

An advanced course similar in character to English 10.

Fall and Spring (1)

116 Elizabethan Literature**Adams**

An introduction to the principal writers from Wyatt and More to Ben Jonson and Bacon. Approximately equal attention is given to the non-dramatic poetry, the prose, and the drama of the period.

Fall (3) (Offered in 1938-39 and alternate years.)

117 Shakespeare**Outcalt**

Extensive reading of Shakespeare's plays, with special attention to a select group of the comedies and another of the tragedies. Lectures and special reports.

Spring (3)

118 Makers of Eighteenth Century Literature**Keeney**

Pope, Defoe, Swift, Johnson, Goldsmith, Fielding, and their contemporaries as interpreters and teachers of their age.

Spring (3)

119 The Romantic Poets**Adams**

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.

Spring (3)

121 Poetry of the Victorian Period**F. D. Walker**

A study of Tennyson and Browning and their contemporaries and successors, relating English poetry to nineteenth century life and thought.

Fall (3) (Offered in 1937-38 and alternate years.)

126 Nineteenth Century British Prose**Dickhaut**

Readings and discussions of Victorian prose masters, emphasizing Landor, Carlyle, Macaulay, Mill, Thackeray, Newman, Ruskin, Arnold, Huxley, and Pater.

Fall (3) (Not offered in 1937-38)

127 Modern British Prose**Dickhaut**

A continuation of Nineteenth Century British Prose, including the prefaces of Shaw and the essays of Beerbohm, Belloc, Chesterton, Gosse, Galsworthy, Inge, Stevenson, Tomlinson, Wells, and others.

Spring (3)

130A American Literature**Outcalt**

A survey of American literature with its backgrounds from the beginning of the 19th century to about 1890. Cooper, Melville, Hawthorne, Poe, Emerson, Thoreau, Whitman, Mark Twain and others are considered and related to national development. Lectures, discussions and reports.

Fall (3)

130B American Literature**F. D. Walker**

A survey of American literature with its backgrounds, covering the period from about 1890 to the present time. Extensive reading in recent and contemporary poetry, fiction, etc. Lectures, discussions and reports.

Spring (3)

143 The Development of the English Novel**F. D. Walker**

History of the English novel from the beginnings to Hardy. Extensive reading of novels with reports. Lectures and discussion.

Fall (3) (Offered in 1938-39 and alternate years)

151 Medieval Literature**Keeney**

The literature of the fourteenth century, especially the verse romances and the poetry of Chaucer.

Fall (3)

160 Milton and Dryden**Adams**

Studies in poetry of the seventeenth century, relating it to the thought and the social life of the age.

Fall (3) (Offered in 1937-38 and alternate years)

Speech Arts

LOWER DIVISION COURSES

1A Fundamentals of Public Speaking

Pfaff

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 forms of speech.

Fall and Spring (3)

1B Extemporaneous Speaking (or Forum Speaking)

Pfaff

Practice 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)

1C Oral Interpretation

Pfaff

The oral interpretation of longer literary selections, both in poetry and prose; a fundamentals course designed for the beginning students in drama as well as those majoring or minoring in English literature.

Fall (3)

1D Advanced Interpretation

Pfaff

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

Pfaff

Corrective laboratory training prescribed on the basis of vocalization tests made on Edison machine. Required of education majors who fail to meet speech requirements test. Also recommended for those who plan public careers.

Fall and Spring (1) (9 weeks' course)

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. No prerequisite.

Year course (3-3) (Offered in 1937-38 and alternate years)

55C-55D Dramatic Expression

Jones

A course designed to help first and second year students realize and develop their own abilities for expressing character and life. Coordination of thought, voice, and body, acquired through interpretation, impersonation, and acting of contemporary situations, creative and standard drama. History, technique, and use of dramatic expression studied.

Informal participation by all. Best work given public performances. A fundamental course.

Year course (3-3) (Offered in 1938-39 and alternate years)

UPPER DIVISION COURSES

101B Argumentation and Debate

Pfaff

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.

No credit for students having taken 1B previous to 1934-1935.

Spring (3)

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 1937-38 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 1938-39 and alternate years)

Journalism

(See page 91.)

Foreign Languages

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 118, History 121A, 121B, 145A, 145B, Aesthetics 50 or 150; English 4A, 4B, 52A, 52B, 101, 116, 117, 118, 119, 121, 126, 143, 160.

French

LOWER DIVISION COURSES

Lower division preparation for the liberal arts major in French: French A-B-C-D; either German A-B or Spanish A-B; History 4A-4B. 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 subjects, arranged in consultation with the chairman of the department. At least a C average in upper division major courses.

A-B Elementary E. M. Brown, Phillips
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 résumés; dictation; introduction to contemporary prose writers. Credit not given for French A unless followed by French B. Students who have had one year of French in high school should register for French A, but will receive only two units of credit. Those who have had two years of French in high school should register for French B, in which case they will receive four units of credit.
Year course (5-5)

C-D Intermediate E. M. Brown, L. P. Brown, Phillips
Reading and composition; study of standard prose as a basis for class work, collateral reading with résumés and written reports in French; dictation. Individual conferences. Prerequisite: French B or three years of high school French, or its equivalent. Students with credit for four years of high school French, or its equivalent, should enter French D.
Year course (3-3)

SC Scientific L. P. Brown
Reading taken from the fields of chemistry, physics, medicine, zoology, biology, etc. Outside readings of books and periodicals. Oral and written reports. Prerequisite: French B or equivalent.
Fall (2) (Offered in 1937-38 if registration warrants)

UPPER DIVISION COURSES

101A-101B Conversation and Composition E. M. Brown
Prerequisite: French D, or its equivalent, with grade of C.
Year course (3-3) (Offered in 1938-39)

105A-105B. Modern French Drama E. M. Brown
Plays of Musset, Scribe, Augier, Dumas fils, Pailleron, Brieux, Hervieux, Maeterlinck, Rostand, and others read and discussed as to subject matter and technique. Outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.
Year course (3-3)

107A-107B Eighteenth Century Literature L. P. Brown
The philosophical ideas of the century as contained in the works of Montesquieu, Voltaire, and Rousseau. The Encyclopédistes. Prerequisite: French D, or its equivalent, with a grade of C.
Year course (3-3) (Offered in 1940-41)

110A-110B 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, Bazin, Barres, Romain Rolland, A. Gide, Marcel Proust, and others. Class and outside reading and reports. Prerequisite: French D, or its equivalent, with grade of C.
Year course (3-3) (Offered in 1939-40)

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. Prerequisites: French D, or its equivalent, with a grade of C, and upper division standing.

Year course (3-3) (Offered in 1938-39)

199 Comprehensive Reading and Survey Course 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)

German

LOWER DIVISION COURSES

A-B Elementary H. K. Walker
Pronunciation, 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 German A, but will receive only two units of credit. Those who have had two years of German in high school should register for German B, in which case they will receive four units of credit.
Year course (5-5)

C-D Intermediate H. K. Walker
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 three years of high school German, or its equivalent. Students with credit for four years high school German, or its equivalent, should enter German D.

Year course (3-3)

SC-SD Scientific Messner
Fall semester. Readings in scientific reader on chemistry, physics, etc.; occasional written reports on scientific subjects read outside of class; sight reading. Spring semester. Readings in special scientific or technical works; weekly written reports required; sight reading. Prerequisite: German SC-German B with a grade of C or three years of high school German; German SD-German C with a grade of C or four years of high school German.

Year course (2-2)

Spanish

Lower division preparation for the liberal arts major in Spanish: Spanish A-B-C-D; French A-B; History 4A-4B.

Liberal arts 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.

LOWER DIVISION COURSES

A-B Elementary

L. P. Brown, Phillips

Intensive study of Spanish grammar and syntax, with daily written work; class drill in conversational idiom and pronunciation; reading with oral discussion and résumés; dictation; introduction to contemporary prose writers. Credit not given for Spanish A unless followed by Spanish B. Students who have had one year of Spanish in high school should register for Spanish A, but will receive only two units of credit. Those who have had two years of Spanish in high school should register for Spanish B, in which case they will receive four units of credit.

Year course (5-5)

C-D Intermediate

Phillips

Reading and composition; study of standard prose as basis for class work; collateral reading in prose and drama, with written reports in Spanish; dictation. Class work conducted mainly in Spanish. Individual conferences. Prerequisite: Spanish B or three years of high school Spanish, or its equivalent. Students with credit for four years of high school Spanish, or its equivalent, should enter Spanish D.

Year course (3-3)

1-2 Elementary

L. P. Brown

A course similar to Spanish A-B, but meeting only three times a week and giving only three units of credit a semester. Intended for those who do not wish to major in Romance languages and for those who wish to go more slowly than is possible in a course meeting five times a week. Students who have had one year of Spanish in high school should register for Spanish 2. Credit not given for Spanish 1 unless followed by Spanish 2.

Year course (3-3)

3-4 Intermediate

A continuation of Spanish 1-2. Reading of Spanish prose; composition; outside reading in Spanish 4, with reports. Students with two years of high school Spanish should register for Spanish 3 or Spanish B. Those with three years should register for Spanish C.

Year course (3-3)

UPPER DIVISION COURSES

101A-101B Conversation and Composition

Phillips

Prerequisite: Spanish D, or its equivalent, with grade of C.

Year course (3-3)

102A-102B Introduction to Spanish Classics

L. P. Brown

Reading from several types of classical literature. Lazarillo de Tormes and other novels of Roguery; selections from Don Quixote, and the Cien Mejores Poesias Castellanas; one drama each from the works of Lope de Vega, Calderon, Alarcon, and Moreto; collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1938-39)

104A-104B Spanish-American Literature

Phillips

A survey of the whole field of Spanish-American literature during the colonial, revolutionary and modern periods, with special attention during the second semester to the literature of one country. Collateral reading and reports. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3) (Offered in 1940-41)

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 1939-40)

110A-110B Novel and Short Story in Spain

L. P. Brown

The development of the novel and short story in Spain from 1830 to the present time. Prerequisite: A grade of C in Spanish D or permission from the instructor.

Year course (3-3)

199 Comprehensive Reading and Survey Course

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 Spanish.

Spring (3)

General Language

LOWER DIVISION COURSES

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. Not open to first semester freshmen.

Spring (2)

GEOGRAPHY

Lower division preparation for the liberal arts major in geography and for the junior certificate: Geography 1, 2, 3, and Geology 1A-1B. Recommended: A reading knowledge of French or German.

Liberal arts major (upper division): Twenty-four units of upper division work in geography or 18 units in geography and six units in related subjects arranged in consultation with the chairman of the department.

LOWER DIVISION COURSES

1 Introduction to Geography; Elements

Clark, Storm

The fundamental principles of geography, the distribution of life upon the earth, and the effects of environment upon the activities of man. Climate, land forms, bodies of water, natural resources, and location in their relation to human activities. Open to all students.

Fall and Spring (3)

2 Introduction; Natural Regions and the Distribution of Population and of Cultures Clark, Storm

The application of the fundamental principles of geography to the various regions of the world. Comparison of regions with regard to different stages of development. 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.
Spring (3)

12 Geography of California

Storm

The main physiographic regions of California and the cultural landscapes developed by the successive cultural groups. Prerequisite: Geography 1.
Spring (2)

13 Regions: Advanced

Clark

Special regions selected from Africa, Australia, Oceania, and Polar Areas. Prerequisites: Geography 1 and 2.
Fall (2)

UPPER DIVISION COURSES

116 Geography of South America

Clark

The climate, topography, and natural resources of the South American countries; the effect of those physical factors upon the economic, commercial, and racial problems of the different nations. Prerequisite: Geography 1.
Spring (3)

117 Geography of Northwestern Europe

Clark

The physical environment of each of the nations of the area and their reactions to physical environment in their political and social relations. Importance of the countries in manufactures. This course is planned so to familiarize the student with modern European countries that he can read current periodical literature with understanding and interest. Prerequisite: Geography 1.
Fall (3)

118 Geography of the Mediterranean Area

Clark

A treatment of Southern Europe, Western Asia, and Northern Africa as a unit and a comparison of the land forms, climates, types of native vegetation, cultivated crops, industrial status, and present world position; also the effect of geographic factors on the history of the area. 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

Clark, Storm

Directed individual rural and urban field work of San Diego area including the mapping of a small area and its geographic interpretation. Prerequisites: Geography 1, 2, and Geology 1A. Open only to liberal arts geography majors.
Fall (2) (Offered in 1937-38 and alternate years)

141 Economic Geography

Storm

A world-wide survey of the raw materials of world trade; their production and distribution as related to the major geographic regions of the world. Prerequisites: Geography 1 and 2.
Fall (3)

GEOLOGY

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 Industrial Arts 21 for Mathematics 3A. French or German, Surveying 1A-1B and Geology 21A-21B are recommended.

LOWER DIVISION COURSES

1A General

Brooks

The composition 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.
Fall (4)

1B Historical

Brooks

Theories of earth origin, and the evolutionary history of the earth as traced through rock and fossil records. Consideration of the geologic history of selected regions. Three lectures and one three-hour laboratory periods weekly, with arrangement for field study and conference during the semester.
Spring (4)

1C Physiography

Brooks

A study of the surface features of the earth with classification of the variety of land forms according to their cause and type. The fundamental meaning of scenery, with frequent illustration from local conditions and from the college collection of topographic maps. Two lectures and one discussion hour weekly. Open to all students.
Spring (3)

21A-21B Mineralogy

Brooks

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)

UPPER DIVISION COURSES

100 Physical Geology

Brooks

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. Lectures, discussions, and occasional field trips. Prerequisite: Geology 1A-1B.

Fall (3)

101 Geologic Problems

Brooks

Reconnaissance of adjacent areas with elementary mapping; or directed reading from a prepared syllabus introducing the several phases of geologic literature; or selection and preparation of material for the museum collections. Prerequisite: Geology 1A-1B. Registration subject to approval of instructor.

Spring (1-4)

GERMAN

(See Foreign Languages)

HEALTH AND PHYSICAL EDUCATION

(See Physical Education)

History

Lower division preparation for the liberal arts major in history and for the junior certificate: History 4A-4B, or 8A-8B, and either Political Science 1A-1B or Economics 1A-1B. No student shall enroll in more than one lower division history course during a semester. Students who wish to major in history and who have had less than two years of European history in high school must take History 4A-4B.

Liberal arts major (upper division): Twenty-four units in upper division courses in history to be arranged in consultation with the chairman of the department. The student must, in his senior year, enroll in History 199.

LOWER DIVISION COURSES

4A-4B History of Modern Europe

Lesley

Development of European society and institutions from about 1500 A.D.

Year course (3-3)

8A-8B History of the Americas

Nasatir

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 contest 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

Lesley

Semester I: Social, economic, political, and cultural development of the Greek states with emphasis upon the growth of democracy, attempts

at federal union, imperialism, and Hellenism. Semester II: Roman history from the earliest times to the beginning of the medieval period; discussions of Roman imperialism and the main constitutional, economic, social, and religious developments in the republic and the empire.

Year course (3-3)

121A-121B Medieval History

Lesley

General survey of European politics and the cultural development of the Middle Ages; the antecedents of the Renaissance; development of medieval life and institutions, feudalism, the church, the universities, and intellectual tendencies. The rise of towns, of new nations, and of new thought, especially in the twelfth and thirteenth centuries. Period covered: 500-1500 A.D.

Year course (3-3) (Not offered in 1937-38)

145A-145B Europe Since 1789

Lesley

Revolutionary era; conflict of reaction and liberalism; development of nationalism, with special attention devoted to the unification of Germany and Italy; events leading up to the World War and contemporary problems of Europe resulting from that conflict.

Year course (3-3) (Not offered in 1937-38)

146A-146B Diplomatic History of Europe

Lesley

European diplomatic and colonial policies since 1648, with detailed attention to the basic factors in international organization and procedure. During the second semester special emphasis upon the period 1870-1914.

Year course (3-3)

151A-151B England Since the Norman Conquest

Nasatir

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

Nasatir

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) (Not offered in 1937-38)

161 South America Since Independence

Nasatir

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

Nasatir

Same 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 Leonard
Semester I. English colonization in North America and the development of colonial institutions and politics. Semester II. The revolutionary movement and the Revolutionary War; the establishment of the government under the Constitution to the close of the War of 1812.
Year course (3-3) (Not offered in 1937-38)

173A-173B The Expansion of the United States Leonard
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)

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

Hygiene

1 Personal and Civic (Men) C. E. Peterson
An informational course in personal and community hygiene. A study of social hygiene and the hygienic principles of living. Special speakers from the County Medical Association on subjects of vital interest enrich the offerings of this course. It is especially desirable that this course be taken in the freshman year.
Fall and Spring (2)

2 Personal and Civic (Women)
An informational course reviewing the principles underlying the improvement and preservation of personal and civic health. Social hygiene in its relations to the practical problems of young women and prospective home makers. A detailed study of the laws and procedures in local civic health matters of particular interest to women. Required of all freshmen who are candidates for junior standing or the degree in the liberal arts curricula.
Fall and Spring (2)

Industrial Arts

3A Mechanical Drawing Walling
Use and care of drafting instruments, lettering, orthographic projections, developments, intersections, tracing. Drafting room six hours per week. Required of all engineering students who have not had one full year of drafting work in senior high school.
Spring (2) (Only one unit will be counted in satisfying the A.B. degree requirements)

21 Descriptive Geometry Walling
Fundamental principles of descriptive geometry and their application to problems of engineering. Lectures and drafting. Prerequisites: Industrial Arts 3A or equivalent, 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: Industrial Arts 21.

Spring (3) (Only two units will be counted in satisfying the A.B. degree requirements)

23 Materials of Construction Walling
Structural properties and adaptability of materials used in engineering. Lectures. Prerequisite: Sophomore standing.

Spring (2)

25 Elements of Electrical Engineering Walling
Mathematical and descriptive consideration of electrical circuits together with a general survey of the electrical industry. Lectures. Prerequisite: Mathematics 4A.

Spring (3)

28 Elements of Heat Power Engineering Walling
Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys, steam engines, steam turbines and auxiliaries, internal combustion engines. Lectures. Prerequisites: Mathematics 3B, Physics 1B. Primarily for engineering students other than mechanical or electrical.
Fall (3)

JOURNALISM

Lower division preparation in journalism for advanced work and the junior certificate: History 4A-4B, or 8A-8B; Psychology 1A-4A; English composition, 4 units; Secretarial Training 2A; Political Science 1A-1B or Economics 1A-1B; Journalism 51A-51B. Recommended: English Literature, 6 units; Speech Arts 1A-1B; Sociology 50; Economics 18A-18B; Journalism 53A-53B.

For the profession of journalism introductory work in the fields of literature, history, political science, social science, economics, the arts, etc., is recommended.

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 speaking 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

51A-51B News Gathering and Reporting Trail
Study of news sources and types; practice in news writing; newspaper organization; excursions and special lectures. Course planned for sophomores who have had English 1A-1B, with high school journalism or equivalents.

Year course (3-3)

53A-53B Applied Journalism Trail
Credit earned for editorial or other staff work throughout a full semester on student publications such as *The Aztec*, *El Palenque*, *Del Sudoeste*.
Fall and Spring (1 to 3-1 to 3)

UPPER DIVISION COURSES

100 News and Manuscript Editing

Trail

Practice in copy reading, proof reading, headline writing, and newspaper makeup. Study of editorial pages. Prerequisite: Journalism 51A-51B, or equivalent in composition.

Spring (3)

153A-153B Advanced Journalism Practice

Trail

Upper division work of the same type as that in 53A-53B, but with advanced requirements.

Fall and Spring (1 to 3-1 to 3)

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

LIBRARY SCIENCE

10 Use of the Library

J. P. Stone

The chief object is to give a working knowledge of some of the resources of the library which every teacher and student should understand—the decimal classification, the card catalog, periodical indexes, and the most important reference books, together with some instruction in the preparation of bibliographies. The course will be a requirement of those added to the library's staff of student assistants, although it will not prepare the student to become a librarian.

Fall and Spring (1)

MATHEMATICS

Lower division preparation for the liberal arts major in mathematics and for the junior certificate: Mathematics 3A-3B, 8, 4A-4B with an average grade of C or better; Physics 1A-1B or 2A-2B. Two or more of the following are recommended: Astronomy 1, Economics 1A-1B, 2, French A-B, German A-B, Industrial Arts 21, Surveying 1A.

Liberal arts major (upper division): Twenty-four units including at least eighteen in upper division mathematics, the others being selected from Chemistry 111A-111B, 144, Economics 140, Education 112, Physics 105A-105B, 112 and other approved courses. The major should be arranged in consultation with the chairman of the department and completed with a grade of C or better.

LOWER DIVISION COURSES

A, B, C, D, E, F, G, Introductory Mathematics

Livingston

Instruction and supervised study in elementary mathematics. Students who have taken these courses previously may take them for review, others for the credit indicated. Courses A and D are equivalent to one and one-half years of algebra in high school; A, D and G to two years.

Students regularly enrolled shall be expected to complete at least one course for credit; except that students who begin with an extensive review may withdraw without penalty before the time of the mid-term reports.

A. Algebra to quadratic equations (2).

B. Plane geometry (2).

C. Plane trigonometry (2).

D. Algebra beyond quadratics (2).

E. Solid geometry (2).

F. Spherical trigonometry (1).

G. Intermediate algebra (2).

Fall and Spring

Livingston

Elementary Analysis

A general course including topics for algebra, trigonometry, analytic geometry and calculus. Of interest to students not having time for the two or three-year courses in analysis. Either 1A or 1B may be taken for credit, the prerequisite being advanced algebra in high school, or Mathematics D and G. Applications are made to many fields.

1A. The differentiation and integration of algebraic, exponential and logarithmic functions, with selected topics in college algebra.

Fall (3) (Not offered in 1937-38)

1B. The usual course in plane trigonometry, with selected topics in college algebra and analytic geometry.

Spring (3)

3A-3B Analytic Geometry and Calculus Livingston, Walling, C. E. Smith

Analytic geometry and differential calculus, together with an introduction to the integral calculus. Prerequisites: Trigonometry and advanced algebra in high school, with recommended grades, or permission of the department.

Year course (3-3)

Gleason, Livingston

4A-4B Intermediate Calculus

Integration, partial differentiation, infinite series and multiple integrals. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

Year course (3-3)

Gleason

8 College Algebra

Complex numbers, determinants, partial fractions and elementary topics in theory of equations. Prerequisites: trigonometry and advanced algebra in high school, or equivalent.

Fall and Spring (2)

Livingston, Gleason

14A Intermediate Calculus

Substantially the same as 4A-4B. Prerequisite: Mathematics 3A-3B. Solid geometry and college algebra are recommended.

Fall (5)

14B Advanced Calculus and Differential Equations

Livingston, Gleason

Selected topics from advanced calculus with major attention to differential equations. Prerequisite: Mathematics 14A or 4A-4B.

Spring (5)

UPPER DIVISION COURSES

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: Plane geometry and trigonometry.

Fall (3)

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: Plane geometry and trigonometry.

Spring (3) (Not offered in 1937-38)

111 Theory of Equations

Gleason

General solutions of algebraic equations; approximate numerical solutions; applications. Prerequisite: Mathematics 3A-3B and 8.

Fall (3)

112 Analytic Geometry of Space

Gleason

Planes, lines, and quadric surfaces. Prerequisite: Mathematics 3A-3B and 8.

Spring (3)

118—Advanced Calculus

Livingston, Gleason

Selected topics in advanced calculus, exclusive of differential equations. Prerequisite: Mathematics 4A-4B, or 4A with 4B taken concurrently.

Spring (2)

119 Differential Equations

Livingston, Gleason

Ordinary differential equations of first and second order, with applications. Prerequisite: Mathematics 4B or permission of instructor.

Spring (2)

140 Statistical Theory and Method

Statistical theory and method from the mathematical standpoint; applications in social and natural science. Prerequisite: Mathematics, 4A-4B, Economics 1A-1B and senior standing.

Spring (3) (Not offered in 1937-38)

199A-199B Special Study

The Staff

An opportunity is offered for advanced work in algebra, geometry and calculus; or for study of vector analysis, theory of numbers, or history of mathematics. Adapted to the needs of individual students. Prerequisite: at least six units of upper division courses in mathematics with an average grade of B, or senior standing.

Fall or Spring (1 to 3, each semester)

Music

Candidates for a teaching credential in music should refer to the statement "Admission to Upper Division Teacher Training" on page 20 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 32.

Lower division preparation for the liberal arts major in music and for the junior certificate: Music 1A-1B, 4A-4B; and 2 units of electives in music; Aesthetics 1A-1B. The electives in music in both lower and upper division must include at least 6 units in Applied Music (study of voice, or an instrument), of which at least 3 units must be in piano. See page 97 for regulations regarding Applied Music.

For information regarding majors and minors in music, and other details not found here, consult the Music Education Adviser.

For courses in Appreciation and History of Music, see Aesthetics, page 52.

LOWER DIVISION COURSES

1A Music Reading and Ear Training—Fundamentals of Music

L. D. Smith

Elementary music theory; scale construction; drill in music reading both with syllables and with words; ear training, elementary music dictation; the elements and materials of music. Basic course used as prerequisite for all advanced music work and for the courses in music education. Text—Gehrken: Fundamentals of Music.

Fall and Spring (2)

1B Music Reading and Ear Training

L. D. Smith

Tonal and rhythmic dictation, rhythmic writing, sight singing with Latin syllables and with words. Text—Wedge: Ear Training and Sight Singing. Prerequisite: Music 1A, or the equivalent.

Spring (2)

1C-1D Advanced Music Reading and Ear Training

L. D. Smith

Tonal and rhythmic dictation, rhythmic writing, and sight singing in two and three parts. Text—Wedge: Advanced Ear Training and Sight Singing. Prerequisite: Music 1A-1B.

Year course (2-2)

4A-4B Elementary Harmony

Beidleman

Scale construction, intervals, chords, structure, modulation, through various types of seventh chord. Especial attention is paid to the keyboard application of problems in harmonization, transposition, and modulation. Prerequisites: Music 1A-1B, or the equivalent, and at least one year of piano study. Not open to freshmen.

Year course (3-3)

19A-19B Instrumental Music, Elementary

Beidleman

Class instruction for beginners on any orchestral instruments, intended to develop a thorough theoretical and practical knowledge of the instruments, and some facility in playing them. Elementary conducting is also included. Especially intended as preparation for orchestral directing. Some instruments will be available on a loan basis; others for a low rental.

Year course (1-1)

19C-19D* Instrumental Music, Advanced

Beidleman

A composite course, including:

(a) Instrumental Ensemble. The practice and performance of music for small groups of string, wind, and brass instruments. Prerequisite: A fair amount of playing ability on some orchestral instrument.

(b) Instrumental Conducting. Theory and practice, with study of materials and methods. Not open to freshmen. Prerequisite: Music 1A-1B; 19A-19B, or the equivalent.

Year course. Units: (a) alone, $\frac{1}{2}$; (b), with (a), 1.

20* Vocal Music

L. D. Smith

A general course open to all students. Mixed harmony in two, three, and four parts; voice quality; phrasing, interpretation, and enunciation considered in detail; study of song material suitable for junior and senior high school. Choral conducting.

Fall and Spring (1)

UPPER DIVISION COURSES

105A-105B Advanced Harmony

Beidleman

Completion of harmonic theory; modulation, inharmonic tones, etc. Continuation of harmonic analysis, and keyboard harmony. Melody harmonizing. Prerequisite: Music 4A-4B.

Year course (3-3)

106A-106B Applied Harmony

Beidleman

Including counterpoint, form and analysis, keyboard harmony, creative work, and instrumentation—theory and practice of arranging music for instrumental combinations. Prerequisite: Music 105A-105B.

Year course (3-3)

119* Instrumental Music (See Music 19)

120* Vocal Music (See Music 20)

L. D. Smith

Musical Organizations

(For music majors, credit allowed only in conjunction with Applied Music study. See below.)

11 or 111* Treble Clef (Women's) Glee Club

L. D. Smith

Membership based on competitive try-outs.

(1-1) (Not more than 4 units may be counted toward the A.B. degree)

12 or 112* Men's Glee Club

Beidleman

Membership based on competitive try-outs.

(1-1) (Not more than 4 units may be counted toward the A.B. degree)

13 or 113* Orchestra

Beidleman

(1-1) (Not more than 4 units may be counted toward the A.B. degree)

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Music 9A, 9B, 9C, etc.

Applied Music

Credit in Applied Music is available only for students enrolled in music classes or organizations, and is subject to special permission and arrangement. Credit is not allowed for beginning work in Applied Music. Credits: 1 unit per semester, for not less than one lesson per week, with six hours of practice per week, totaling at least ten hours instruction and one hundred hours practice per semester. Applied Music is taken under outside private teachers, subject to the approval and supervision of the music department of the college, which determines credit value and grades by examination.

ORCHESTRAL INSTRUMENTS: Music 16 or 116.* Credit for study of an orchestral instrument is granted only upon satisfactory completion of work for an equal length of time in Music 19, 119, Instrumental Music; and/or Orchestra or Band.

VOICE: Music 17 or 117.* Credit granted only upon satisfactory completion of work for an equal length of time in Music 20, 120, Vocal Music and/or Glee Club.

PIANO (or Organ): Music 18 or 118.* Prerequisite: The ability to play satisfactorily hymns and folk songs of the type found in the Golden Book of Favorite Songs.

Minimum attainment for completion of piano requirement in music curriculum is the ability to play at sight accompaniments such as are found in the Teachers Manuals of the Progressive Music Series, Books Three and Four.

PHILOSOPHY

LOWER DIVISION COURSES

5A Introduction to Philosophy

Steinmetz

Elementary orientation; the persistent problems of philosophy, especially in epistemology, metaphysics, and ethics; the Republic of Plato and social systems. Prerequisite: Sophomore standing, or consent of instructor.

Fall (3)

5B The Philosophy of Science

Steinmetz

The problems of philosophy systematized according to the main modern divisions of science; the achievements and perplexities of scientific fields; the nature and place of values in a universe of facts. Prerequisite: Philosophy 5A, except that sophomores planning to major in natural science may be admitted without prerequisite.

Spring (3)

UPPER DIVISION COURSES

105B The Philosophy of Science

Steinmetz

Same as Philosophy 5B, save that upper division students will be held to more exacting contribution.

Spring (3)

* These courses are recorded by using letters with the number in alphabetical sequence for each semester the course is pursued, as for example, Music 9A, 9B, 9C, etc.

120 Logic, and Philosophy of Mind

Steinmetz

Formal and functional logic; examination of reflective procedures in various fields; the logic argument and analysis of fallacies; review of some psychological, experimentally supported explanations of thought. Prerequisites: Psychology 1A and Philosophy 5A.

Spring (3) (Offered in 1938-39 and alternate years)

130 Ethics

Steinmetz

The meaning of morality; motives and sources of belief, aspiration, ideal; psychological and sociological factors; representative ethical systems; relation of ethics to other axiological studies.

Spring (3) (Offered in 1937-38 and alternate years)

PHYSICAL EDUCATION

Men's Department

Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teacher Training" on page 20.

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 and the work is fitted, as far as possible, to his needs. The content of the required two years is planned to give each student fundamental training in those sports which have carry-over value into after life. Opportunity is given all students to take part in the regular competitive sports program.

1A-1B Freshman Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

1C-1D Sophomore Activity

Year course, beginning either Fall or Spring ($\frac{1}{2}$ - $\frac{1}{2}$)

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 the class hour.

2A-B-C-D Golf Spring ($\frac{1}{2}$)

3A-B-C-D Track Spring ($\frac{1}{2}$)

4A-B-C-D Baseball Spring ($\frac{1}{2}$)

5A-B-C-D Basketball Spring ($\frac{1}{2}$)

6A-B-C-D Tennis Fall and Spring ($\frac{1}{2}$)

7A-B-C-D Boxing Fall and Spring ($\frac{1}{2}$)

8A-B-C-D Wrestling Fall and Spring ($\frac{1}{2}$)

9A-B-C-D Fall Track Fall ($\frac{1}{2}$)

10A-B-C-D Swimming Spring ($\frac{1}{2}$)

11A-B-C-D Fencing Fall and Spring ($\frac{1}{2}$)

13A-B-C-D American football Fall ($\frac{1}{2}$)

13X-Y-Z Spring Football Spring ($\frac{1}{2}$)

14A-B-C-D Gymnastics Spring ($\frac{1}{2}$)

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

C. R. Smith

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.

Fall (1)

53 Physical Education in the Elementary School

Schwob

The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Educational Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.

Fall and Spring (2)

C. E. Peterson

62A Gymnastic Activities

Theoretical and practical work in marching, free exercises, and light and heavy apparatus. Emphasis on progression and method of presenting material. The simplest and most explanatory terminology.

Fall (2)

C. E. Peterson

62B Gymnastic Activities

Acquisition of proficiency in the performance of a great group of gymnastic stunts always popular in the gymnasium and on the playground. Work of the recreational or self-interesting type rather than the formal. Tumbling, stunts, and pyramid-building given chief attention, although games of low organization are also considered.

Spring (2)

Gross

66 Playing Rules of Modern Games

Thorough study of latest rules of modern major and minor sports.

Fall and Spring (1)

Calland

72 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

B. I. Stone

151 Health Education

A course for teacher-training 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 may appear in the school; and the elements which underlie a health education program. 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)

154 Organization and Administration of Physical Education Gross
Material presented in Physical Education 54 plus general and specific problems that confront physical education departments in junior and senior high schools and in colleges. Prerequisite: Physical Education 72.
Fall and Spring (3)

155. Applied Anatomy C. E. Peterson
Mechanics of the human skeletal and muscular-systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.
Spring (2)

156A Sports Methods C. E. Peterson and Staff
Different theories and methods of teaching the more highly organized sports: baseball, basketball, tennis, and track.
Fall (2)

156B Sports Methods Calland
Methods of teaching those sports most adaptable to intramural and inter-class competition: golf, handball, soccer, speedball, and volley ball.
Spring (2)

166 Technique of Officiating Gross
Review of material presented in Physical Education 66. Methods of officiating all the sports common to the school or college program; also methods of training student officials. Practice in the handling of elementary, junior high, senior high and intramural college competition.
Spring (2)

169 Technique of Teaching Activities Physical Education Staff
Directed leadership in activities. A course preliminary to practice teaching in which students are given opportunity to develop leadership and teaching technique.
Spring and Fall (1-2)

171 Community Recreation C. E. Peterson
Planned to meet the needs of the various workers in community playground systems apart from schools, as well as the needs of directors of play and recreation in social service institutions, industrial plants, shops, and factories. Special attention given to scout and campcraft.
Spring (2)

180 Theory of Coaching Football Calland
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 (2)

PHYSICAL EDUCATION

Women's Department Candidates for a teaching credential in physical education should refer to the statement "Admission to Upper Division Teacher Training" on page 20, and to the outline for the A.B. Degree With Special Credential in Physical Education on pages 35, 36.

LOWER DIVISION COURSES

Two hours weekly of directed physical activity are required in freshman and sophomore years. In order to meet this requirement, students taking the curriculum leading to the A.B. degree with an elementary credential must take Physical Education 36A-36B, 37, and 38A. All other students are required to take Physical Education 36A-36B, 38A-38B.

36A Fundamental Skills Bennett
Required of all freshmen.
Fall and Spring (1/2)

36B Folk Dancing Bennett
or
36C Rhythmic Skills Schwob

Required of all freshmen.
Both courses required of women majoring in physical education.
Fall and Spring (1/2)

37 Games and Rhythms for the Elementary School Schwob, Shafer
Prerequisite: Physical Education 36A-36B.
Fall and Spring (1/2)

38A, 38B Sports and Dancing Physical Education Staff
Sophomores may elect from the following:

Folk dancing
Beginning or advanced dancing
Tennis
Swimming
Golf
Badminton
Archery
Recreational sports
Seasonal sports

Prerequisites: Physical Education 36A, 36B.
Fall and Spring (1/2 each)

Social Dancing Schwob
Beginning class for men and women
No credit
Fall and Spring

53 Physical Education in the Elementary School Schwob
The content of the State program in physical education forms the basis of the course.

Required of men and women majoring in physical education. Not required of students taking the Educational Practicum. Prerequisite: Sophomore standing. Physical Education 37 must precede or accompany.
Fall and Spring (2)

SPORTS

1. Women not majoring in physical education may earn upper division credit in Physical Education 55, 56, 57, or 59 by special permission of the department director.

2. The Individual Sports swimming, tennis, golf, archery and badminton are offered throughout the year. Women majoring in physical education select *one* as a major activity and two others as minors. Skills in the sports thus selected must be maintained as prerequisite to the senior course, Physical Education 185. (See page 103.)

3. The Seasonal Group Sports are volley ball, basketball, hockey, speedball or soccer, and baseball. Majors participate in at least *two seasons* of each.

4. The Woman'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.

55 Swimming

Shafer

A. Beginning. $\frac{1}{2}$ unit.

B. Intermediate. $\frac{1}{2}$ unit.

C. Life Saving. $\frac{1}{2}$ unit.

Students passing examination receive American Red Cross Life Saving Certificate.

55A or 55B and 55C are required of freshmen women majoring in physical education.

56 Tennis

Shafer, Bennett

Required of women majoring in physical education.

($\frac{1}{2}$)

57 Golf

Schwob, Supervising

Required of women majoring in physical education.

($\frac{1}{2}$)

59 Archery

Shafer

Required of women majoring in physical education.

($\frac{1}{2}$)

UPPER DIVISION COURSES

Open to all women Required of women majoring in physical education

102 Emergency and Safety Programs

Bennett

Prevention of accidents; practical application of first aid methods leading to American Red Cross First Aid Certificate.

(1)

153 Administration of Secondary Physical Education

Schwob

(2)

155 Applied Anatomy

Mechanics of the human skeletal and muscular systems and their actions in games, formalized activities, and general body movements; mechanical strength and durability as influenced by anatomical factors.

Spring (2)

157A-157B 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—volley ball, basketball, hockey, speedball, soccer, baseball.

Year course (2-2)

158 Stunts and Tumbling

Bennett

A practical course in personal technique. Progressive series of individual, dual, and group stunts, including simple pyramids.

(1)

160 Principles of Teaching Gymnastics

Schwob

Gymnastic materials and methods followed by practice in teaching marching gymnastics and use of apparatus.

(2)

161 Folk Dancing

Schwob

Practice in folk and clog dancing. Methods of presentation and study of costumes and customs related to the dance. Notebooks required. Open to all upper division men and women.

(2)

164A-164B Advanced Dancing

Schwob

Prerequisite: Physical Education 36B, Beginning Dancing or equivalent.

Year course (2-2)

168 Physiology of Exercise

Bennett

(2)

169 Technique of Teaching Activities

Schwob

Observation, lesson planning, and teaching of college classes.

Fall and Spring (3)

170 Recreational Leadership

Shafer and Assistants

Fundamentals of recreational leadership developed by instruction in Scoutcraft, Camp Fire lore, Girl Reserve activities, the study of school recreational needs and facilities, and of civic recreation. Open to all upper division women. Recommended to students interested in the recreational aspects of social service.

(2)

173 Principles of Physical Education

Schwob

(2)

177 Individual Program Adaptations

Schwob

Adjustments of the physical education program to the physical needs and capacities of individuals; problems concerning protective and preventive measures which are not highly specialized corrective phases.

(2)

185 Technique of Individual Sports

Shafer

A course summarizing rules, teaching methods, and individual playing ability. A required senior course. Can not be taken until all requirements regarding sports and games have been fulfilled. (See page 101.)

(1)

PHYSICAL SCIENCE

1 Introductory

Moe

A survey course dealing with the nature of man's physical universe. The subject matter covered includes work in fields of astronomy, chemistry, geology and physics; chosen to provide a background for present-day physical science thought. Not open to students who have taken high school or college physics and chemistry or either of these subjects combined with astronomy or geology.

Fall and Spring (3)

PHYSICS

Lower division preparation for the liberal arts major in physics and for the junior certificate: Physics 1A-1B-1C-1D; Chemistry 1A-1B; Mathematics 3A-3B and 4A-4B, or their equivalents. Recommended: A reading knowledge of French and German.

Liberal arts major (upper division) in physics, required: Twenty-four units of upper division work in physics including Physics 105A-105B and 107A-107B. Six of the twenty-four units may be elected in related subjects on consultation with the chairman of the department.

For requirements for liberal arts major in physical science, see pages 41, 43.

LOWER DIVISION COURSES

1A-1B General

Moe

Mechanics, properties of matter, and heat. A development of the fundamental ideas which underlie the subject of physics, and the application of them in the discussion of practical problems. Lectures, text assignments, problem sets, and experimental laboratory work. Two lectures, and one laboratory period each week. Prerequisites: High school physics or chemistry, and trigonometry. Students deficient in any part of this requirement may enroll only with the permission of the instructor.

Year course (3-3)

1C-1D General

Baird

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

Year course (3-3)

2A-2B General

Baird

Properties of matter, mechanics, heat, sound, light, electricity, and magnetism. A nonengineering course. Lectures, demonstrations, and discussions. Prerequisite: Two years of high school mathematics.

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

Moe

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 calculus.

Year course (3-3) (Offered in 1938-39 and alternate years)

106 Optics

Baird

Refraction, color, interference, diffraction, polarization, radiation, and optical instruments. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1938-39 and alternate years)

107A-107B Electrical Measurements

Baird

Devoted mainly to the study of potentiometer methods, capacity, inductance, resistance, and magnetic flux. Two lectures and one laboratory period each week. Prerequisite: Eight units in physics.

Year course (3-3) (Offered in 1937-38 and alternate years)

108 Modern

Baird

An introductory survey of the problems of modern physics. Theories of atomic structure and series in optical spectra, radioactivity, conduction of electricity through gases, radiation and the quantum theory. Prerequisite: Eight units in physics.

Spring (3) (Offered in 1938-39 and alternate years)

112 Advanced Heat

Moe

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) (Offered in 1937-38 and alternate years)

114 Wave Motion and Sound

Moe

A study of wave motion and its applications to sound production and transmission. The principles of musical instruments and architectural acoustics. Prerequisite: Eight units in physics.

Fall (3) (Offered in 1937-38 and alternate years)

199 Special Study

Baird, Moe

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)

Political Science

Lower division preparation in political science for advanced work and for the junior certificate: Political Science 1A-1B and Economics 1A-1B or History 4A-4B. High school civics is presupposed in the following courses:

LOWER DIVISION COURSES

1A-1B Comparative Government

Leonard

A comparative study of typical governments. Semester I: England, France, and Switzerland. Semester II: Italy, Germany, Russia, and Japan.

Year course (3-3)

UPPER DIVISION COURSES

101 American Institutions

Leonard

Origins and principles of the United States Constitution, and a survey of the political institutions which have developed under it.

Prescribed by the State law for all candidates for the bachelor's degree. Enrollment is limited to juniors and seniors, except with the consent of the instructor. Attention is called to the fact that this course is offered only during the Fall semester.

Fall (2)

111 Theory of the State

Leonard

The nature of the State, its organization and activities, and its relation to individuals and to other states.

Fall (3) (Not offered in 1937-38)

113 American Political Ideals

Leonard

Underlying theories and principles of American governmental policy.

Spring (3) (Not offered in 1937-38)

151 Governmental Organization in the United States

Leonard

Origins. The federal system. Organization, powers and functions of the executive, legislative, and judicial branches of the national government and expansion of its activities. The party system.

Fall (3)

152 Popular Government in the United States

Leonard

Development of the means for 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.

Spring (3)

Psychology

Lower division preparation in psychology for advanced work and the junior certificate. Required: Psychology 1A-1B, Zoology 1A-1B, or Biological Science 10A-10B, Philosophy 5A-5B. Recommended: French, German, chemistry, physics, and anthropology.

LOWER DIVISION COURSES

1A General

Bell, Steinmetz

An elementary survey of normal adult psychology, focused upon personality; the subjective and objective aspects of behavior. Furnishes basis for all other courses in psychology. Prerequisite: Sophomore standing.

Fall and Spring (3)

1B General

Bell, Steinmetz

A continuation of general psychology designed to familiarize the student with (1) elementary experimental methods, (2) famous experiments in psychology, and (3) some one topic (not included in upper division courses) in which he pursues an independent experimental approach. Prerequisite: Psychology 1A.

Spring (3)

4A Applied

Bell

Applications of psychology to problems of the individual in learning, making social adjustments, choosing a vocation, developing desirable personality traits, and achieving success and happiness. Survey of psychology as applied in education, music, art, speaking, writing, law and medicine. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall (2)

4B Psychology Applied in Business

Bell

Applications of psychology to a wide range of problems encountered by the man in 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 business research. Prerequisite: Psychology 1A. Recommended: Psychology 1B and Psychology 4A.

Spring (2)

UPPER DIVISION COURSES

102 Genetic (Growth and Development of the Child)

Bell, Steinmetz

The mental and physical growth and development of the child, especially with relation to norms of structure and function. Diagnosis of individual children by comparison with norms. Behavior problems and the growth of personality traits as conditioned by physical and mental factors. An intensive study of one child presenting a problem of physical or mental maladjustment made by each student. Prerequisite: Psychology 1A. Recommended: Psychology 1B.

Fall and Spring (3)

105 Mental Testing

Bell

A brief history of intelligence testing and the fundamental assumptions underlying the construction of tests. The Stanford revision of the Binet-Simon test illustrated by demonstrations. Each student required to give at least 20 individual tests. Group intelligence tests discussed and demonstrated. Prerequisites: Psychology 1A and Education 108. Recommended: Psychology 1B, 102, Education 140.

Fall (3)

118 Mental Hygiene

Bell

Designed primarily for teachers, nurses, physicians and social workers. Problems, personality adjustment, emotional problems, attitudes, conflicts, neurotic behavior, conduct disorders of both child and adult. The beginnings of undesirable attitudes and habits and methods of treating them are stressed more than serious cases of maladjustment which are either incurable or problems for a psychiatrist. The methods of building wholesome personality are emphasized more than the analysis of extreme disorders. Prerequisite: Psychology 1A. Recommended: Psychology 1B, 102.

Fall (2)

120 History of Psychology

Bell, Steinmetz

Historical development of psychology out of mental philosophy; sensationism; the body-mind problem; associationism; structuralism; functionalism; rise of the schools and experimental procedures. Prerequisites: Psychology 1A, 1B.

Fall (2)

140 Contemporary Psychology

Steinmetz

Psychoanalysis, behaviorism, and Gestalt psychology; the modern eclectic viewpoint; non-Aristotelian speculation; factor analysis; characteristic British, French, German, and American contributions; outstanding problems, publications and fields. Prerequisites: Psychology 1A, 1B, 120, or

other upper division work in the department provided instructor and head of the department consent.

Spring (2) (Offered in 1938-39 and alternate years)

145 Social

Bell

Personality as it develops in relation to social environment. Suggestion, imitation, leadership, the crowd, public opinion, social control, prejudice, propaganda, sex differences, race differences, etc. Prerequisite: Psychology 1A. Recommended: Psychology 4A.

Spring (3)

Educational Psychology See Education 130

Educational Measurements See Education 108*

Spanish

(See Foreign Languages)

Speech Arts

(See English)

Surveying

LOWER DIVISION COURSES

1A-1B Plane Surveying

Gleason

Use and adjustment of surveying instruments, computations and map-making, together with a study of land, topographic, city, and mine surveying. Two instruction periods and one three-hour period for field work and mapping each week. Prerequisites: Trigonometry and Industrial Arts 3A, or equivalent, and sophomore standing.

Year course (3-3)

3 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. Prerequisite: Surveying 1A-1B.

Summer (3)

Zoology

(See Biological Sciences)

* Students taking a curriculum in which Education 108 is required, must substitute another three-unit course in education, if they wish to count Education 108 in a psychology minor.

FACULTY

For the Year 1936-1937

WALTER R. HEPNER, A.M.—President.

A.B., A.M., University of Southern California.
Graduate student, University of Chicago and University of California.
Instructor, La Verne College; High School Teacher; Chicago, Illinois; Long Beach and Oxnard, California. Vice-Principal; Principal, Fresno High School; Assistant Superintendent; Superintendent of Schools, Fresno; Superintendent of Schools, San Diego. Summer Session and extension instruction: State Colleges of Fresno, San Jose, and San Diego; Claremont Colleges; Stanford University; University of California at Los Angeles. Chief, Division of Secondary Education, California State Department of Education.
(Appointed September, 1935.)

IRVING E. OUTCALT, M.A.—Vice President and Professor of English.
A.B., M.A., Stanford University.
Student, University of Illinois; graduate study and research work, Stanford University. Travel in Europe.
Head of Department of English, San Diego High School.
(Appointed September, 1912.)

J. W. AULT, M.A.—Dean and Professor of Education.
B.S., Valparaiso University; M.A., University of South Dakota.
Student, Miami University; graduate student, University of Iowa and University of Southern California.
Superintendent of city schools; conductor and instructor in teachers institutes; Professor of Education at Southern State Teachers College, Springfield, South Dakota.
(Appointed September, 1925.)

ARTHUR G. PETERSON, M.A.—Dean of Liberal Arts, ex officio in general charge of Lower Division studies, and Professor of Economics.
A.B., College of Pacific; M.A., Stanford University.
Graduate student, University of Southern California.
Vice Principal of San Diego High School and Director of Junior College.
(Appointed September, 1921.)

CHARLES E. PETERSON, M.A., Claremont Colleges—Dean of Men and Associate Professor of Physical Education and Director of Physical Education for Men.
A.B., San Diego State College.
Student, Oregon Agricultural College and University of California.
Graduate student, Claremont Colleges.
Director of Playgrounds, Portland, Oregon; Director of Physical Education, Y. M. C. A.; Physical Education and Recreation work in the United States Army Camps; Director of Physical Education in Junior High School, Berkeley, California.
(Appointed July, 1921.)

MARY IRWIN McMULLEN, A.B.—Dean of Women and Associate Professor of Educational Guidance.
A.B., San Diego State College.
Graduate student, University of Chicago, and Stanford University.
Public school teacher, Oakland, California.
(Appointed Secretary to the President July, 1926; Dean of Women January, 1934.)

JOHN R. ADAMS, M.A.—Associate Professor of English.
A.B., M.A., University of Michigan.
Graduate student, University of Southern California.
Instructor in Rhetoric, University of Michigan; Associate in English, University of Washington.
(Appointed September, 1928.)

GEORGIA C. AMSDEN—Associate Professor of Commerce.

Gregg School, Chicago; special secretarial training in various institutions; University of California summer session and extension division work.

Teacher in University of California summer school; Traveling Representative and Secretary for the Federal Board for Vocational Education, France, World War; in charge of Stenographic Division, Department of Personnel, American Red Cross Headquarters, Paris, World War; Secretary, Standard Life and Accident Insurance Company, Detroit, Michigan; Assistant Editor and Reporter, Daily Press, Ypsilanti, Michigan; Instructor, San Diego High School.

(Appointed September, 1925.)

GUINIVERE KOTTER BACON, M.A.—Training Supervisor and Associate Professor of Education.

B.S., Utah Agricultural College; M.A., Stanford University. Graduate student, Stanford University; University of California; Teachers College, Columbia University.

Teacher in Public Schools; Primary Supervisor.

(Appointed July, 1928.)

O. W. BAIRD, M.A.—Professor of Physics.

A.B., University of Wisconsin; M.A., University of California. Graduate student, University of Minnesota.

Head of Science Department, University of Wisconsin High School and Stadium High School, Tacoma, Washington; Assistant in Physics Department, University of Washington, Seattle.

(Appointed September, 1921.)

JAMES RICHMOND BARBOUR, Ph.D.—Assistant Professor of Education and Principal of the Training School.

A.B., San Diego State College; M.S., University of Southern California; Ph.D., Yale University.

Teacher, San San Diego City Schools; Principal, San Diego City Schools; Teaching Assistant (Instructor's Rank) Yale University.

(Appointed September, 1936.)

FRED BEIDLEMAN, B.Mus.—Associate Professor of Music.

B.S., B.Mus., Columbia University.

National Music Camp, Interlochen, Michigan; Graduate Student, Northwestern University.

Teacher of Music, Boys High School, Brooklyn, N. Y.; Instructor, Columbia University; Head of Violin Department, University of Illinois; Assistant Professor of Music, University of North Dakota; Professor of Music and Director of the Conservatory, College of Puget Sound, Tacoma, Washington. (Appointed September, 1927.)

GERTRUDE SUMPTION BELL, M.A.—Professor of Psychology.

A.B., Indiana University; M.A., Stanford University.

Graduate, Indiana State Normal School; Research Work, Clark University. Traveled in Europe.

Assistant in Education and Director of Practice Teaching, University of Colorado; State Institute Lecturer, Montana; Instructor, School of Education, Indiana University. (Appointed August, 1916.)

MARJORIE KELLY BORSUM, M.A.—Assistant Professor of Arts.

B.E., University of California at Los Angeles; M.A., University of Southern California.

Pupil in Paris of Andre Lhote, Painter, and of Mme. Alexandra Exter, Russian Stage Designer.

Instructor in Fine Arts, Pasadena Junior High School.

(Appointed September, 1927.)

J. PHILIP BROMLEY, M.S.—Instructor in Commerce.

B.S., M.S., University of Southern California.

Teacher, Garvey School District, Los Angeles County.

(Appointed September, 1936.)

BAYLOR BROOKS, B.A.—Assistant Professor of Geology.

B.A., Stanford University.

Graduate student, University of Arizona; Harvard University; Oxford University; Stanford University. Travel in Europe.

Member of staff, Yosemite Field School of Natural History; Summer Lecturer, National Park Service, Yellowstone and Yosemite.

(Appointed September, 1931.)

ELIZABETH McPIKE BROWN, Ph.D.—Assistant Professor of French.

Ph.B., M.A., Ph.D., University of Chicago.

Diplôme de Phonétique, Ecole des Hautes Etudes, Paris, France; Certificate d'Etudes Françaises, University of Paris.

Assistant in French, University of Chicago; Head of French Department, Rockford College, Rockford, Illinois; Instructor in University of California, Extension Division, San Diego.

(Appointed September, 1926.)

LESLIE P. BROWN, Ph.D.—Professor of French and Spanish.

A.B., Yale University; M.A., Harvard University; Ph.D., University of Southern California.

Instructor in French and Spanish, Northwestern University; Harvard University; University of North Carolina; University of Chicago.

(Appointed July, 1922.)

LEO BLAKELY CALLAND, M.S.—Associate Professor of Physical Education.

A.B., University of Southern California; M.S., University of Idaho. Graduate student, University of Southern California.

Director of Athletics, Page Military Academy, Los Angeles; Freshman Coach, University of Southern California; Director of Athletics and Physical Education, Football and Basketball Coach, Whittier College; Director of Intramural Athletics, Freshman Football and Varsity Basketball Coach, University of Southern California; Director of Physical Education and Head Football Coach, University of Idaho. (Appointed September, 1935.)

ROY E. CAMERON, Ph.D.—Professor of Economics.

A.B., Ph.D., University of California.

Student, Creighton University.

Professor of Economics, University of Omaha; Teaching Fellow in Economics, University of California. (Appointed September, 1929.)

VINNIE B. CLARK, A.B.—Associate Professor of Geography.

A.B., University of Wisconsin.

Graduate student, University of Chicago; University of Mexico. Travel in Mexico and Europe.

Assistant in Geography, University of Wisconsin; Teacher, Oak Park High School, Illinois; Instructor in summer session, University of California at Los Angeles. (Appointed September, 1914.)

KATHERINE E. CORBETT, A.M.—Training Supervisor and Associate Professor of Education.

B.Pd., Michigan State College; B.S., A.M., Teachers College, Columbia University.

Graduate, Public School Music Course, Ypsilanti Conservatory of Music.

Teacher in Public Schools, Ypsilanti, Michigan; Training Supervisor, Kent State Normal College, Ohio; Evening High School, San Diego. (Appointed July, 1921.)

JAMES ENSIGN CROUCH, M.S.—Assistant Professor of Biology.

B.S., M.S., Cornell University.

Assistant in Ornithology, Cornell University.

(Appointed September, 1932.)

ERBY CHESTER DEPUTY, Ph.D.—Associate Professor of Education.

A.B., University of Denver; A.M., Ph.D., Columbia University.

Graduate student, University of Southern California.

Teacher in rural schools and principal of high schools, Indiana. Assistant Professor, University of Arkansas and Kansas State Teachers College. (Appointed September, 1931.)

FLORENCE L. SMITH DICKHAUT, M.A.—Professor of English.

A.B., Northwestern University; M.A., University of Chicago.

Graduate student, Medill School of Journalism, Chicago.

Instructor, State Normal School, Oshkosh, Wisconsin. (Appointed July, 1917.)

GEORGE E. DOTSON, M.A.—Registrar and Director of Student Personnel, Assistant Professor.

A.B., San Diego State College; M.A., Stanford University.
Instructor, La Jolla Junior-Senior High School; Dean of the Ocean-side-Carlsbad Union High School and Junior College.
(Appointed September, 1936.)

JOHN MORTIMER GLEASON, M.A.—Assistant Professor of Mathematics.
A.B., M.A., University of California.
Student, Hope College, University of Michigan, and University of Southern California.
Teaching Fellow in Mathematics, University of California.
(Appointed September, 1930.)

MORRIS HUBBARD GROSS, A.B.—Director of Athletics and Associate Professor of Physical Education.
A.B., San Diego State College.
Graduate student, University of Southern California.
Teacher, Chula Vista Public Schools; Basketball Coach, U. S. Marines and U. S. Naval Hospital. (Appointed September, 1929.)

ILSE HAMANN, B.A.—Instructor in Art.
B.A., University of California at Los Angeles.
Student, Rudolph Schaeffer School; graduate student, Teachers College, Columbia University; pupil of Douglas Donaldson.
Teacher, San Bernardino City Schools; Instructor, Northwestern University, Evanston, Illinois; Instructor, Santa Ana Junior College.
(Appointed February, 1934.)

EDITH C. HAMMACK, B.A.—Training Supervisor and Associate Professor of Education.
B.A., San Jose State College.
Teaching Fellow San Jose State College.
Graduate Student, University of California.
Instructor Summer Session, Normal University, Las Vegas, New Mexico. Public School Teacher. (Appointed February, 1911.)

ISABELLA S. HAMMACK, M.A.—Assistant Professor of Education.
A.B., M.A., University of California.
Assistant in Education, University of California; Assistant Professor in Education and Child Development, Mills College; Summer School Teaching; University of New Mexico, San Diego State College.
Instructor, Francis Parker School. Public School Teacher.
(Appointed October, 1936.)

DOROTHY R. HARVEY, M.A.—Assistant Professor of Botany.
A.B., San Diego State College; M.A., University of Southern California.
Graduate student, Scripps Institute for Biological Research, La Jolla; University of California; University of Chicago.
Public school teacher. (Appointed September, 1924.)

ROBERT D. HARWOOD, Ph.D.—Professor of Zoology.
B.A., Pomona College; Ph.D., Cornell University.
Assistant in Biology, Cornell University; Field Entomologist, Natural Survey of Illinois; Teacher, Kern County Union High School and Junior College, Bakersfield; Assistant in Entomology, Cornell University; Stream Survey, Conservation Department, New York.
(Appointed September, 1928.)

EVERETT GEE JACKSON, A.B.—Associate Professor of Art.
A.B., San Diego State College.
Student, Agricultural and Mechanical College of Texas; Art Institute of Chicago. Graduate student, University of Southern California.
Associate Professor, Sul Ross Teachers College, Alpine, Texas; three years of travel and art study in Mexico; painter.
(Appointed November, 1930.)

MYRTLE ELIZABETH JOHNSON, Ph.D.—Professor of Zoology.
B.S., M.S., Ph.D., University of California.
Research Assistant, Scripps Institute for Biological Research, La Jolla; Instructor, Pasadena High School.
(Appointed September, 1921.)

SYBIL ELIZA JONES, M.L.—Assistant Professor of English.

B.L., M.L., University of California.
Director, Junior Players of Pasadena Community Playhouse; Drama Instructor in Chouinard Art School, Los Angeles; Organizing Secretary and Instructor in Playwriting of Summer Art Colony at Pasadena Community Playhouse; Drama Organizer and Director of San Diego Community Service.
(Appointed September, 1925.)

JOSEPH SUMNER KEENEY, Ph.D.—Instructor in English.
A.B., Yale University; M.A., Ph.D., University of California.
Instructor in English, Yale in China, Changsha, China; Instructor, San Diego Army and Navy Academy; Instructor in English, University of California.
(Appointed February, 1933.)

GENEVIEVE KELLY, A.M.—Assistant Professor of Sociology.
A.B., University of California; A.M., Columbia University.
Student, Los Angeles Public Library School. Graduate student, University of Chicago. Travel in Europe.
Teacher, Corcoran Union High School. Librarian, Northern Arizona Normal School, Flagstaff; Scripps Foundation for Research in Population Problems, Oxford, Ohio.
(Appointed September, 1924.)

CHARLES B. LEONARD, Ph.D.—Professor of History
A.B., M.A., Ph.D., University of California.
Instructor in History, Lowell High School, San Francisco; Teaching Fellow in History, University of California.
(Appointed September, 1921.)

LEWIS B. LESLEY, Ph.D.—Professor of History.
A.B., Stanford University; M.A., Ph.D., University of California.
Native Sons' Traveling Fellow in Europe from University of California.
Instructor, Principia School, St. Louis, Missouri; Teaching Fellow in History, University of California; Assistant Professor of American History, Pomona College; Summer session staff, Claremont Colleges, and San Francisco State College. (Appointed September, 1924.)

GEORGE R. LIVINGSTON, M.A.—Associate Professor of Mathematics.
B.S., M.A., University of California.
Graduate student, University of California at Berkeley and Los Angeles; University of Southern California.
Instructor, San Diego High School and Junior College; Head of Department of Mathematics, Santa Barbara High School and Junior College.
(Appointed September, 1921.)

ELMER ALLEN MESSNER, M.A.—Assistant Professor of Chemistry.
A.B., M.A., Stanford University.
Student, Marquette University, Milwaukee, Wisconsin; San Diego State College. Registered Assistant Pharmacist, State of Wisconsin; Licentiate in Pharmacy, State of California. Graduate student, University of Breslau, Germany.
(Appointed September, 1931.)

CHESNEY RUDOLPH MOE, M.A.—Assistant Professor of Physics.
A.B., M.A., Stanford University.
Student, San Diego State College. Graduate Student, University of Southern California; Scripps Institution of Oceanography of the University of California.

ABRAHAM P. NASATIR, Ph.D.—Professor of History.
A.B., M.A., Ph.D., University of California.
Native Sons' Traveling Fellow in History in Europe.
Assistant Teaching Fellow in History, University of California; Instructor in History, University of Iowa. Social Science Research Council Fellow, 1930-1931.
(Appointed January, 1928.)

MARGUERITE A. NORDAHL, M.A.—Assistant Professor of Education.
A.B., San Diego State College; M.A., Claremont Colleges.
Teacher in Pomona Public Schools and Master Teacher for Claremont Colleges. Summer School Assistant at Claremont Colleges.
(Appointed September, 1936.)

- LENA PATTERSON, M.A.—Associate Professor of Art.
A.B., B.S., Ohio University; M.A., Columbia University.
Student, Cincinnati Art Academy; Chicago Art Institute; Otis Art Institute; Rudolph Schaeffer School; International School of Art; Reimann School and Itten School, Berlin, Germany; Zweybruck School, Vienna, Austria.
Assistant, Ohio University; professor, State Teachers College, Kirksville, Missouri; Assistant Scholar, Art Department, Columbia University; Instructor, Chouinard School of Art, Los Angeles.
(Appointed July, 1933.)
- RAYMOND CARVER PERRY, Ed.D.—Associate Professor of Education and Director of Teacher Training and Placement.
A.B., Stanford University; M.A., Ed.D., University of Southern California.
Student, California Institute of Technology. Graduate student, George Washington University.
Public school teacher in Texas and California; Instructor, Long Beach Junior College; University of Southern California.
(Appointed September, 1935.)
- PAUL LEWIS PFAFF, B.A.—Instructor in English.
B.A., Stanford University.
Student, San Diego State College. Graduate student, Claremont Colleges; University of Southern California.
(Appointed September, 1931.)
- WALTER T. PHILLIPS, M.A.—Associate Professor of Spanish and French.
A.B., University of Washington; M.A., Stanford University.
Graduate student, National University of Mexico; Institute of French Education, Pennsylvania State College; Middlebury College Italian School.
Teaching Assistant in Spanish, Stanford University; Assistant Professor of Modern Languages, Willamette University; Instructor in Spanish, Brown University.
(Appointed September, 1927.)
- KATHREEN CLOCK POST, A.M.—Assistant Professor of Education.
A.B., Stanford University; A.M., Teachers College, Columbia University Exchange Student Tour Under Auspices National Union Students, England. University of Cambridge, England, Summer Meetings.
Teacher, Cumnock School, Los Angeles; Horace Mann School, Teachers College, Columbia University; Instructor, Francis W. Parker School, San Diego.
(Appointed September, 1936.)
- DUDLEY H. ROBINSON, M.S.—Associate Professor of Chemistry.
B.Sc. in Sugar Engineering, University of Louisiana; M.S., University of Iowa.
Chemist, University of Louisiana Sugar House; Raceland Sugar Factory; State Sugar House, Louisiana; Research Chemist, Thornley and Company; Chief Chemist, Pacific Marine Chemicals, Inc.
(Appointed September, 1928.)
- SPENCER L. ROGERS, Ph.D.—Assistant Professor of Anthropology.
A.B., San Diego State College; A.M., Claremont Colleges; Ph.D., University of Southern California.
Student in Archaeology, School of American Research, Santa Fe, New Mexico.
Curator in Anthropology, San Diego Museum; honorary curator in prehistory, San Diego Museum.
(Appointed September, 1930.)
- MARION LYON SCHWOB, M.S.—Associate Professor of Physical Education and Acting Director of Physical Education for Women.
B.A., University of Iowa; M.S., University of Southern California.
Graduate, Department of Hygiene and Physical Education, Wellesley College. Student, Denishawn School of Dancing.
Director of Department of Physical Education for Women, University of Iowa.
(Appointed September, 1934.)
- FLORENCE I. SHAFER, A.B.—Instructor in Physical Education.
A.B., University of California.
Graduate student, University of California; University of Southern California.
(114)
- Instructor in Physical Education, Y. W. C. A., Denver, San Francisco, San Diego; Instructor in Physical Education, Summer Session, University of California.
(Appointed September, 1933.)
- CHARLES ROBERTS SMITH, A.B.—Instructor in Physical Education.
A.B., San Diego State College.
Graduate student, University of Southern California.
Public school teacher, San Diego.
(Appointed November, 1933.)
- CLIFFORD E. SMITH, Ph.D.—Assistant Professor of Astronomy.
A.B., Carleton College; M.A., Swarthmore College; Ph.D., University of California.
Instructor in Mathematics and Astronomy at Mills College and at Carleton College; Assistant Professor in Mathematics and Astronomy at Fresno State College; Research Fellowship and Research Assistant in Mathematics and Astronomy at Swarthmore College; Teaching Fellow and Lick Fellow in Astronomy at the University of California.
(Appointed February, 1937.)
- L. DEBORAH SMITH, A.M.—Associate Professor of Music.
Mus.B., A.B., Oberlin College; A.M., Columbia University.
Graduate student, Stanford University; University of Southern California.
Head of Department of Music, State Teachers College, Winona, Minnesota.
(Appointed September, 1922.)
- CHRISTINE SPRINGSTON, B.M.—Associate Professor of Music.
B.A., B.M., University of Redlands.
Graduate student, University of Redlands, University of Southern California and University of Washington; Piano study with Arnold Guerne, Olga Steeb, Charles Marsh, Isidore Philipp; harmony with Nadia Boulanger. Diplomee d' execution, Conservatoire Americain, Fontainebleau, France.
Supervisor of Music, Needles, California; Assistant Professor of Piano, Organ and Theory, University of Redlands; Instructor, San Diego High School.
(Appointed September, 1930.)
- HARRY C. STEINMETZ, A.M.—Associate Professor of Psychology and Philosophy.
A.B., University of California; A.M., University of Southern California.
Assistant in Journalism, University of the Philippines, Manila; Assistant in Educational Psychology, University of California; Instructor, Glendale Union High School and San Mateo Junior College.
(Appointed September, 1930.)
- BERENICE I. STONE, M.D.—Assistant Professor of Health and Hygiene.
B.Sc., M.D., University of Wisconsin.
Student Dietitian, Methodist Episcopal Hospital, Indianapolis, Ind.; Dietitian, Passavant Memorial Hospital, Jacksonville, Ill.; Internship and Residency in Medicine, Hurley Hospital, Flint, Michigan.
(Appointed September, 1936.)
- JOHN PAUL STONE, M.S.—Head Librarian and Associate Professor of Library Instruction.
B.S., Northwest Missouri State Teachers College; B.S., M.S., University of Illinois Library School.
Instructor in English and Public Speaking, Senior High School, Joplin, Missouri; Library work, University of Illinois Library; Professor of Library Science, Louisiana State Teachers College.
(Appointed September, 1930.)
- ALVENA SUHL STORM, M.A.—Associate Professor of Geography.
A.B., M.A., University of California.
Teaching Fellow, University of California; teacher in public schools; Instructor, Summer School, San Francisco State College.
(Appointed September, 1926.)
- MABEL COY TRAIL, M.A.—Instructor in English.
B.A., Parsons College; M.A., State University of Iowa.
Graduate student, University of Southern California.

Editorial assistant, Philological Quarterly; national editor for Sigma Tau Delta, honorary English fraternity. Instructor in English, high schools, Dubuque, Iowa, and Long Beach, California; Instructor, Summer Session, University of Dubuque; Instructor, English and Journalism, Long Beach Junior College.

(Appointed February, 1935.)

FRANKLIN D. WALKER, Ph.D.—Professor of English.

B.A. (Hons. Oxon.), University of Oxford; Ph.D., University of California.
Student, University of Arizona; Holder of Arizona Rhodes Scholarship to Oxford.

Instructor in Dramatics, Francis W. Parker School, San Diego, California.
(Appointed September, 1926.)

HILDE MARIE KRAMER WALKER, M.A.,—Instructor in German.

A.B., M.A., Northwestern University.

Graduate student, University of Chicago.

Teacher in high schools of Illinois; Assistant, Northwestern University.
(Appointed September, 1931.)

CURTIS REYNOLDS WALLING, E.E.—Assistant Professor of Mathematics and Industrial Arts.

A.B., E.E., Stanford University.

Student, Fresno State College; graduate student, Stanford University. Graduate student training course, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pennsylvania.

(Appointed September, 1931.)

W. H. WRIGHT, M.A.—Associate Professor of Commerce.

B.S., M.A., University of California.

Head of Department of Commerce, Visalia Union High School, Visalia, California.
(Appointed September, 1921.)

ASSOCIATE MEMBERS OF THE FACULTY

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